Oficina 2

Exemplo de Análise de Portfólio de Patentes
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Oficina 2A

Faça uma análise preliminar do portfólio de patentes da Petrobras, em relação ao número de novas famílias de patentes por ano de primeira publicação.

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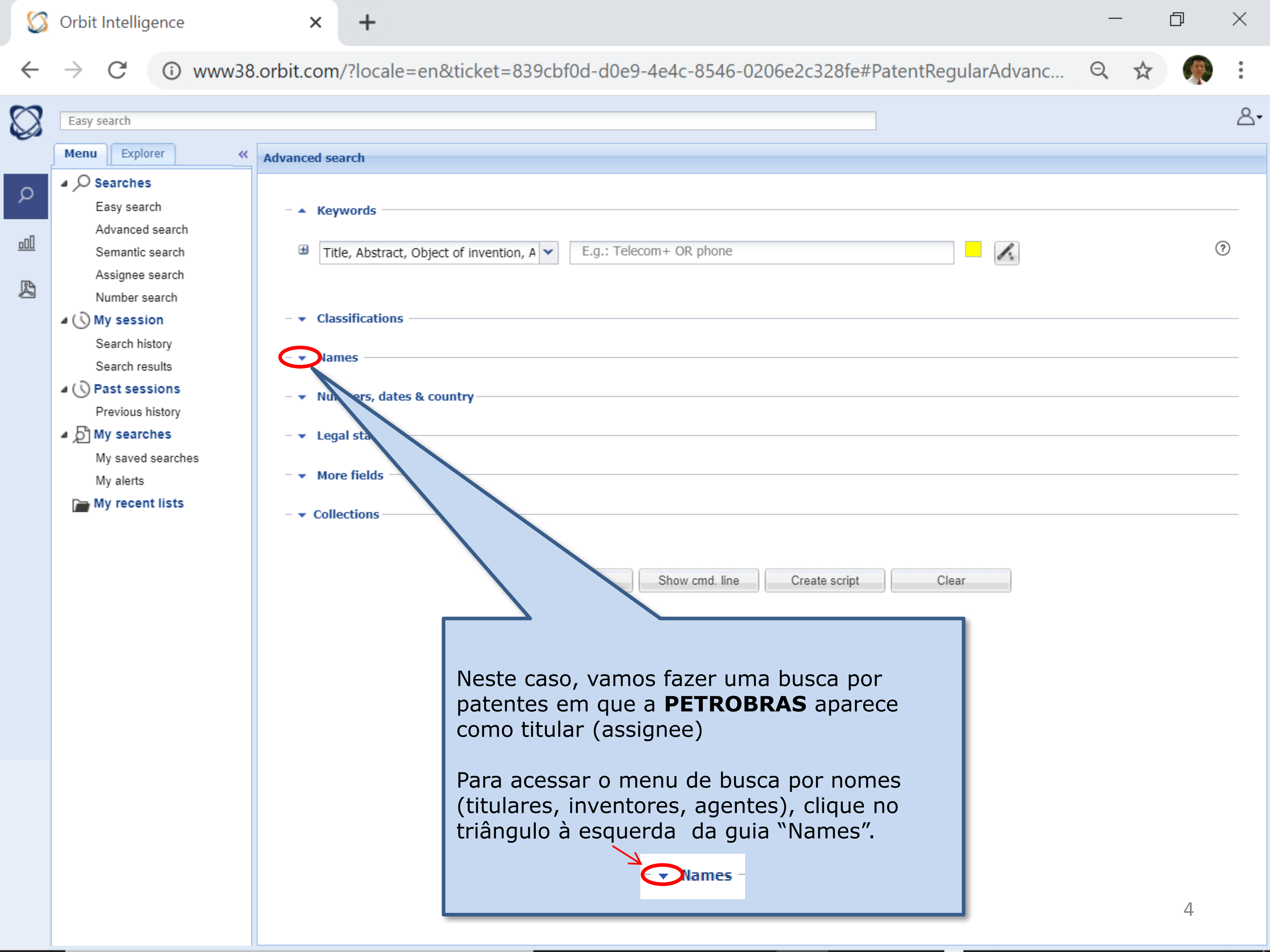
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Easy search
Menu
Explorer
Searches
Easy search
Advanced search
Semantic search
Assignee search
Number search
My session
Search history
Search results
Past sessions
Previous history
My searches
My saved searches
My alerts
My recent lists
Advanced search
Keywords
Title, Abstract, Object of invention, A
E.g.: Telecom+ OR phone
Classifications
Names
Numbers, dates & country
Legal status
More fields
Collections
Show cmd. line
Create script
Clear
Names

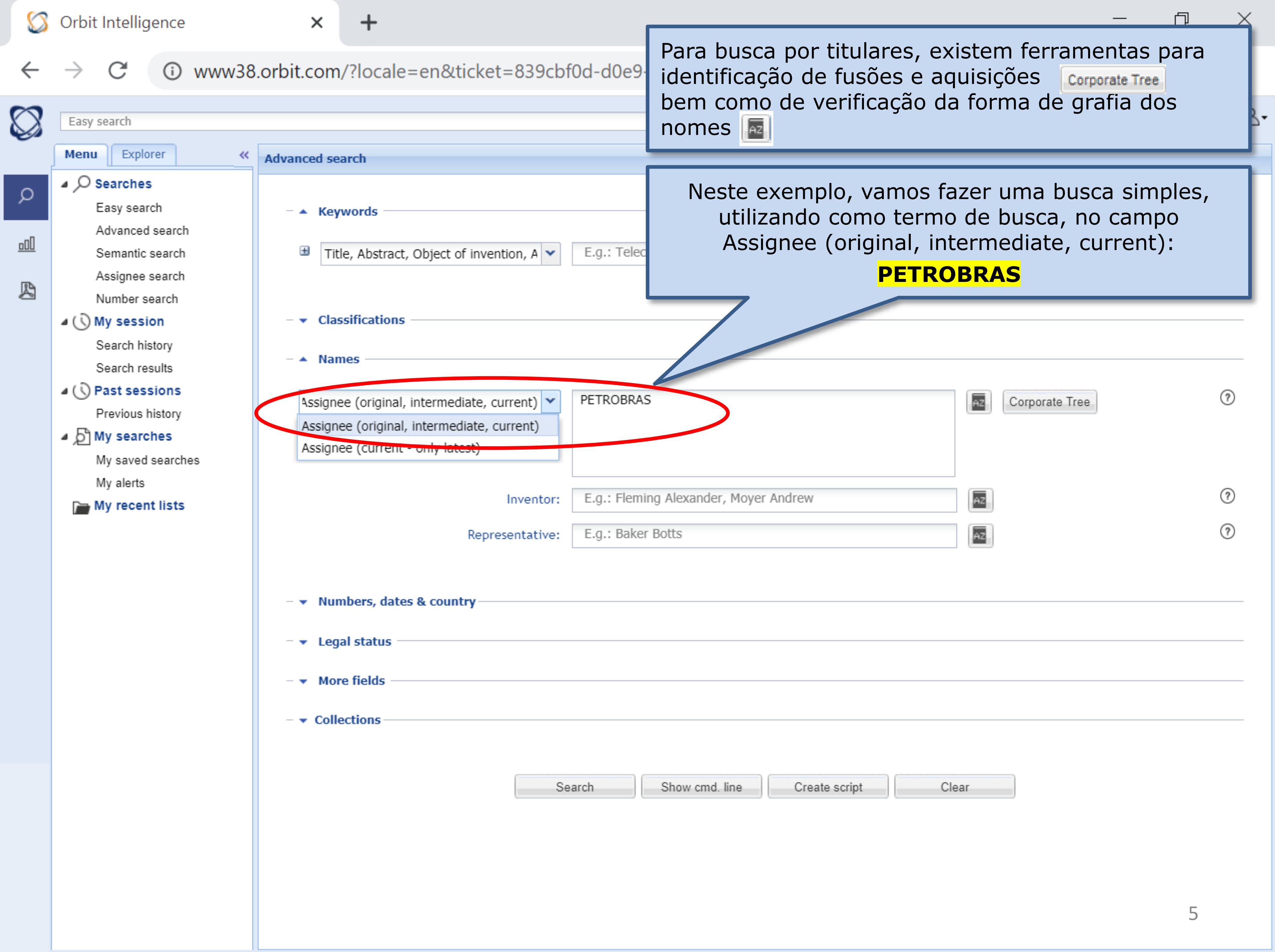
Neste caso, vamos fazer uma busca por patentes em que a **PETROBRAS** aparece como titular (assignee)

Para acessar o menu de busca por nomes (titulares, inventores, agentes), clique no triângulo à esquerda da guia "Names".

Para busca por titulares, existem ferramentas para identificação de fusões e aquisições Corporate Tree bem como de verificação da forma de grafia dos nomes AZ

Neste exemplo, vamos fazer uma busca simples, utilizando como termo de busca, no campo Assignee (original, intermediate, current):

PETROBRAS

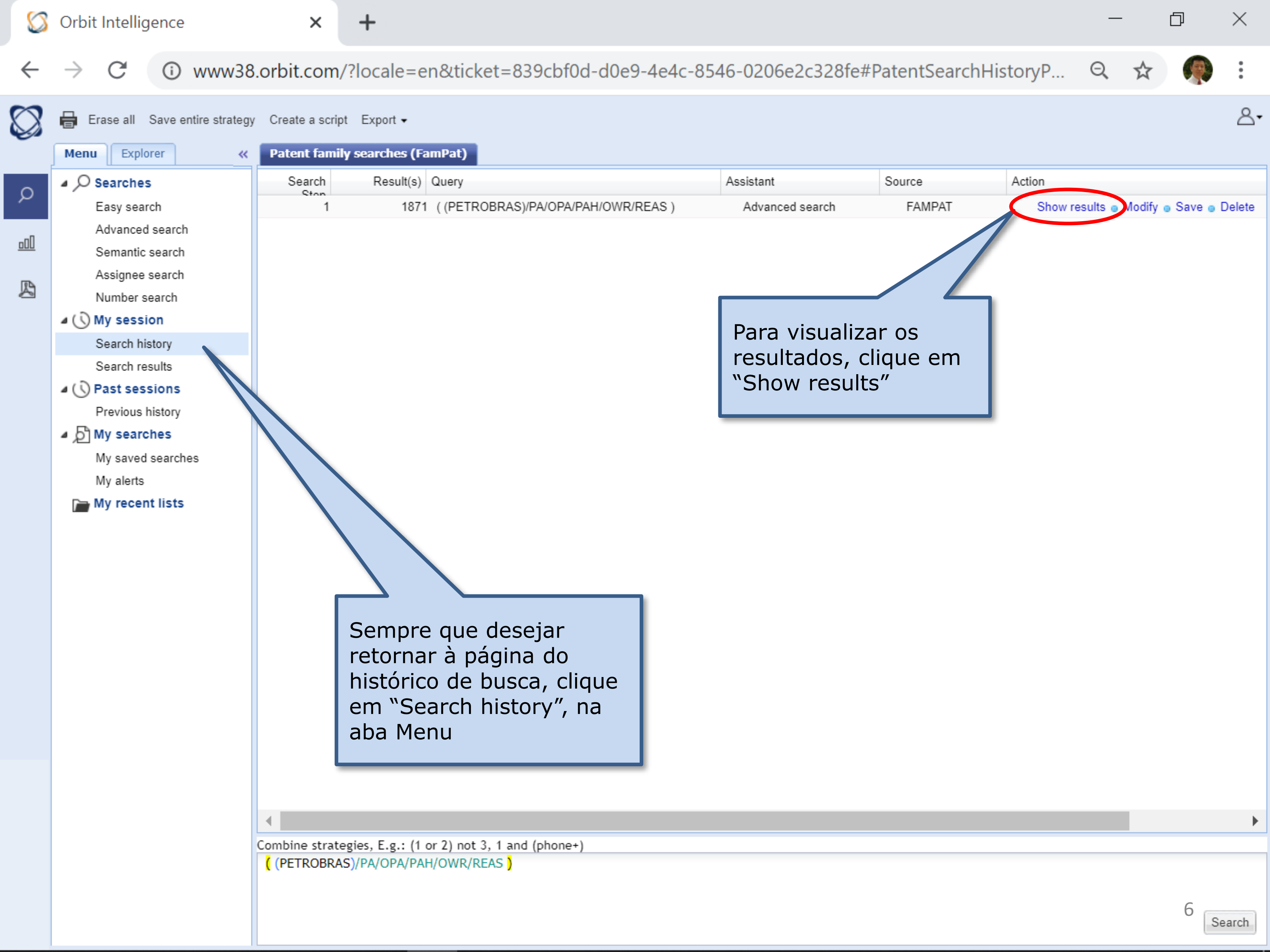


www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9

Title, Abstract, Object of invention, A

Assignee (original, intermediate, current): PETROBRAS

Orbit Intelligence
Easy search
Menu
Explorer
Searches
Easy search
Advanced search
Semantic search
Assignee search
Number search
My session
Search history
Search results
Past sessions
Previous history
My searches
My saved searches
My alerts
My recent lists
Advanced search
Keywords
E.g.: Telec
Classifications
Names
Assignee (original, intermediate, current)
Assignee (current - only latest)
Corporate Tree
Inventor:
E.g.: Fleming Alexander, Moyer Andrew
Representative:
E.g.: Baker Botts
Numbers, dates & country
Legal status
More fields
Collections
Search
Show cmd. line
Create script
Clear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Export
Menu
Explorer
Patent family searches (FamPat)
Searches
Easy search
Advanced search
Semantic search
Assignee search
Number search
My session
Search history
Search results
Past sessions
Previous history
My searches
My saved searches
My alerts
My recent lists
Search

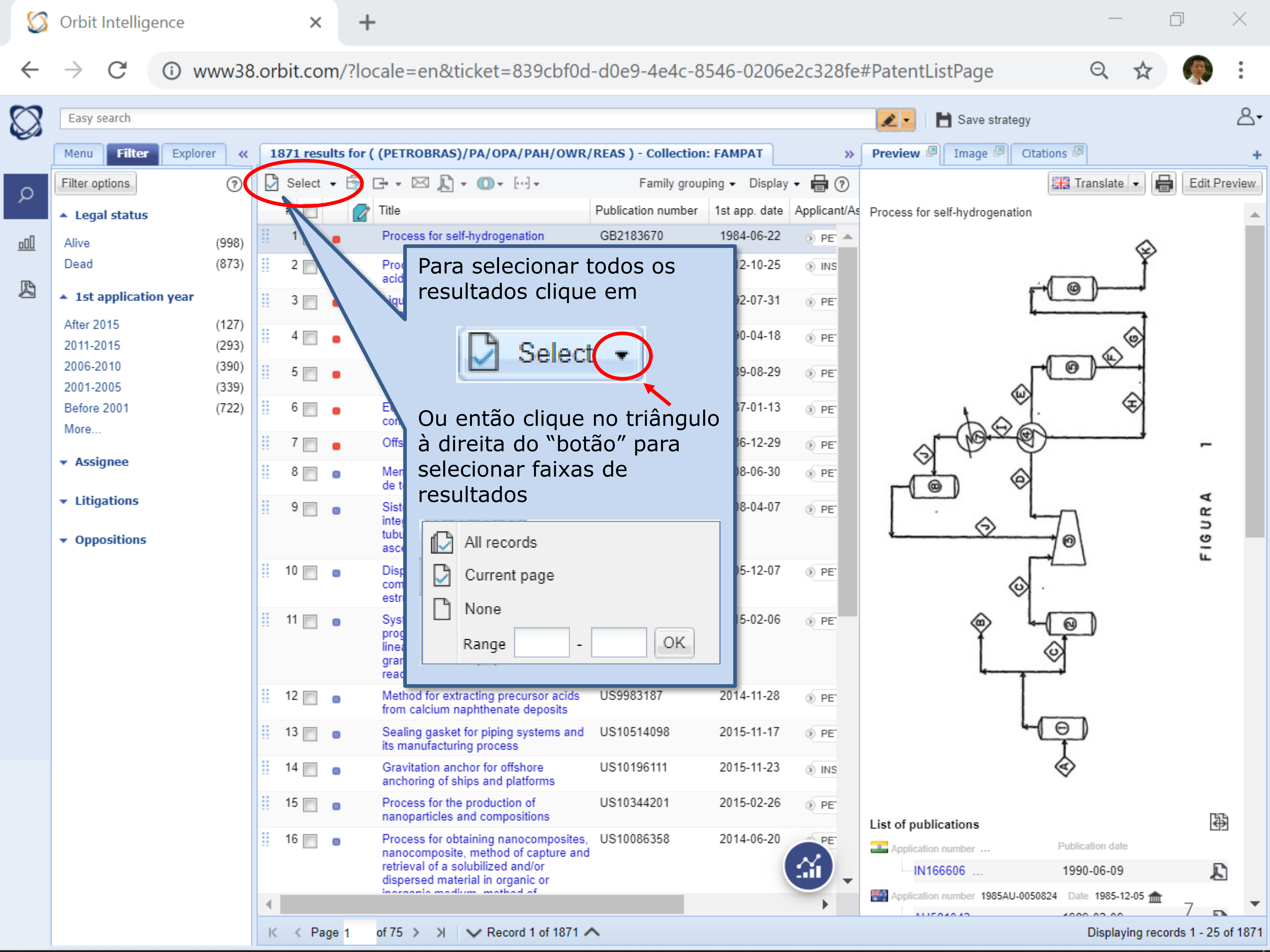
Search Step	Result(s)	Query	Assistant	Source	Action
1	1871	((PETROBRAS)/PA/OPA/PAH/OWR/REAS)	Advanced search	FAMPAT	Show results • Modify • Save • Delete

Combine strategies, E.g.: (1 or 2) not 3, 1 and (phone+)

((PETROBRAS)/PA/OPA/PAH/OWR/REAS)

Para visualizar os resultados, clique em “Show results”

Sempre que desejar retornar à página do histórico de busca, clique em “Search history”, na aba Menu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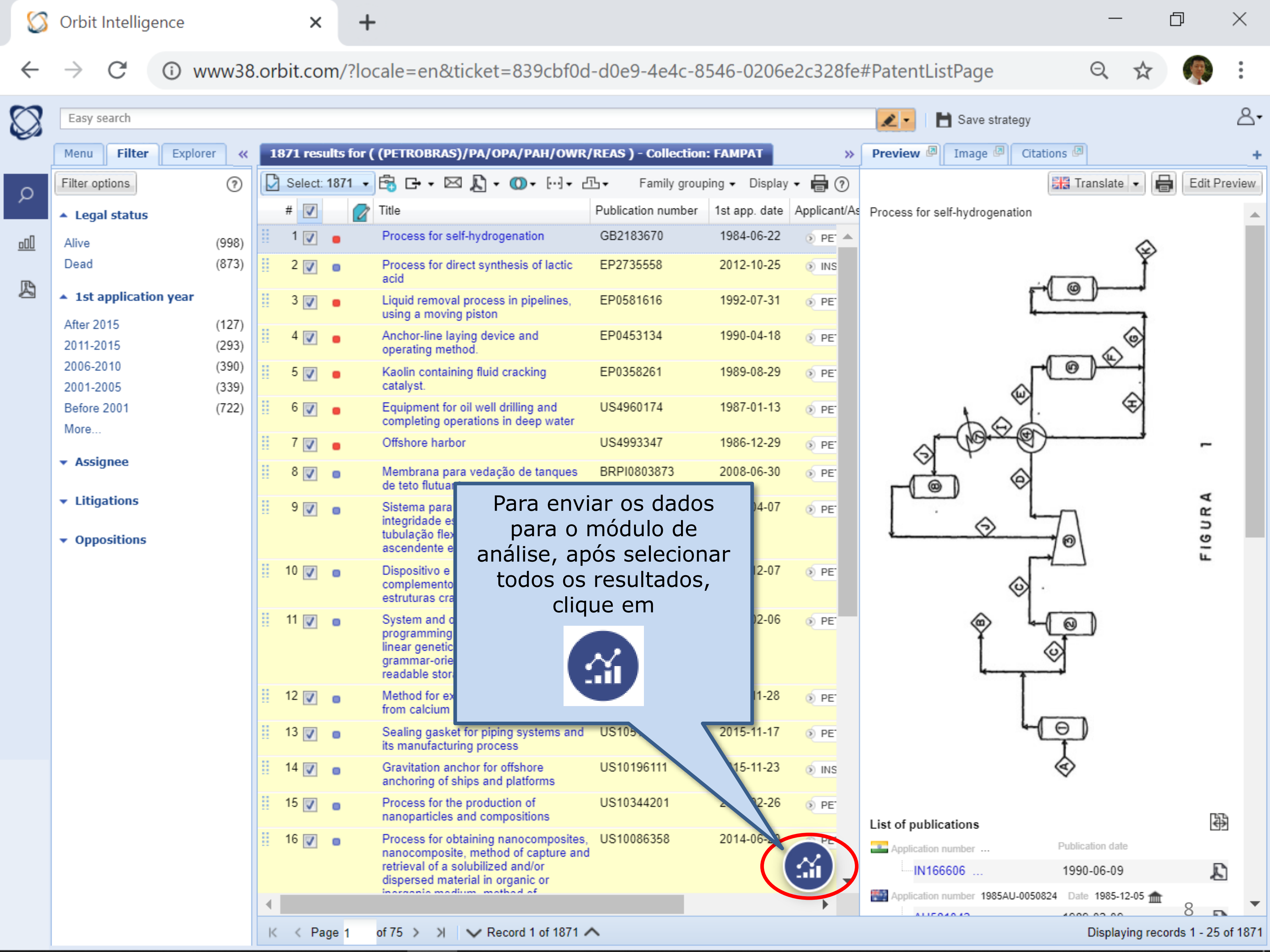
Easy search
Save strategy
Menu
Filter
Explorer
1871 results for ((PETROBRAS)/PA/OPA/PAH/OWR/REAS) - Collection: FAMPAT
Preview
Image
Citations
Filter options
Legal status
Alive (998)
Dead (873)
1st application year
After 2015 (127)
2011-2015 (293)
2006-2010 (390)
2001-2005 (339)
Before 2001 (722)
More...
Assignee
Litigations
Oppositions
Select
Family grouping
Display
Translate
Edit Preview
Title
Publication number
1st app. date
Applicant/As
Process for self-hydrogenation
GB2183670
1984-06-22
Method for extracting precursor acids from calcium naphthenate deposits
US9983187
2014-11-28
Sealing gasket for piping systems and its manufacturing process
US10514098
2015-11-17
Gravitation anchor for offshore anchoring of ships and platforms
US10196111
2015-11-23
Process for the production of nanoparticles and compositions
US10344201
2015-02-26
Process for obtaining nanocomposites, nanocomposite, method of capture and retrieval of a solubilized and/or dispersed material in organic or
US10086358
2014-06-20
FIGURA 1
List of publications
IN166606
1990-06-09
1985AU-0050824
1985-12-05
Page 1 of 75
Record 1 of 1871
Displaying records 1 - 25 of 1871

Para selecionar todos os resultados clique em

Select

Ou então clique no triângulo à direita do “botão” para selecionar faixas de resultados

All records
Current page
None
Range
-
OK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Easy search
Save strategy
Menu
Filter
Explorer
Preview
Image
Citations
Select: 1871
Family grouping
Display
Translate
Edit Preview
Filter options
FIGURA 1

1871 results for ((PETROBRAS)/PA/OPA/PAH/OWR/REAS) - Collection: FAMPAT

Legal status

Alive	(998)
Dead	(873)

1st application year

After 2015	(127)
2011-2015	(293)
2006-2010	(390)
2001-2005	(339)
Before 2001	(722)

More...

Assignee

Litigations

Oppositions

#	Title	Publication number	1st app. date	Applicant/As
1	Process for self-hydrogenation	GB2183670	1984-06-22	PE
2	Process for direct synthesis of lactic acid	EP2735558	2012-10-25	INS
3	Liquid removal process in pipelines, using a moving piston	EP0581616	1992-07-31	PE
4	Anchor-line laying device and operating method.	EP0453134	1990-04-18	PE
5	Kaolin containing fluid cracking catalyst.	EP0358261	1989-08-29	PE
6	Equipment for oil well drilling and completing operations in deep water	US4960174	1987-01-13	PE
7	Offshore harbor	US4993347	1986-12-29	PE
8	Membrana para vedação de tanques de teto flutua	BRPI0803873	2008-06-30	PE
9	Sistema para integridade e tubulação flex ascendente e		4-07	PE
10	Dispositivo e complemento estruturas cra		2-07	PE
11	System and programming linear genetic grammar-orie readable stor		2-06	PE
12	Method for ex from calcium		1-28	PE
13	Sealing gasket for piping systems and its manufacturing process	US105	2015-11-17	PE
14	Gravitation anchor for offshore anchoring of ships and platforms	US10196111	15-11-23	INS
15	Process for the production of nanoparticles and compositions	US10344201	2-26	PE
16	Process for obtaining nanocomposites, nanocomposite, method of capture and retrieval of a solubilized and/or dispersed material in organic or inorganic medium, method of	US10086358	2014-06-2	PE

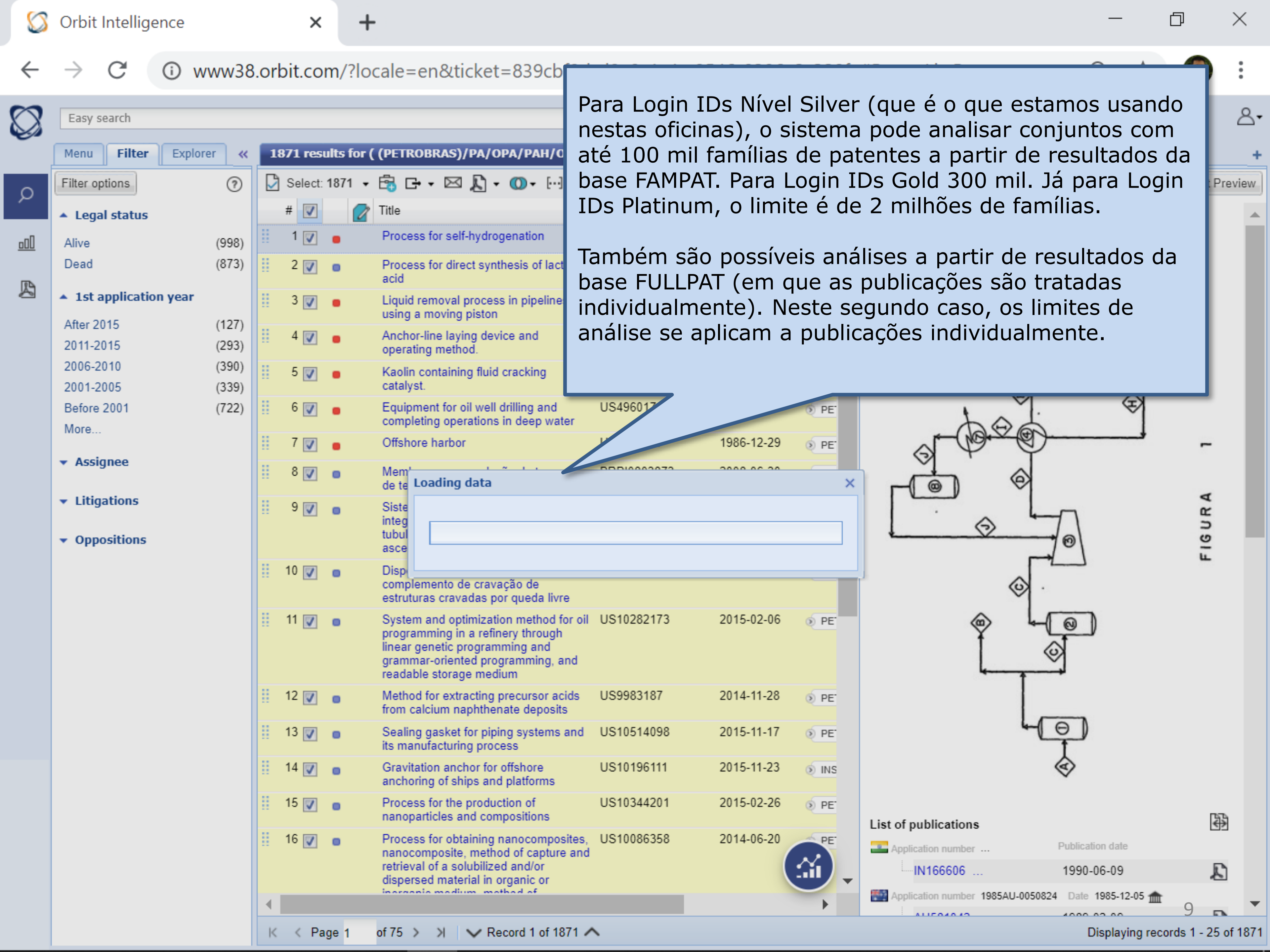
Page 1 of 75 | Record 1 of 1871 | Displaying records 1 - 25 of 1871

Process for self-hydrogenation

List of publications

Application number	Publication date
IN166606	1990-06-09
1985AU-0050824	1985-12-05

Para enviar os dados para o módulo de análise, após selecionar todos os resultados, clique em



Para Login IDs Nível Silver (que é o que estamos usando nestas oficinas), o sistema pode analisar conjuntos com até 100 mil famílias de patentes a partir de resultados da base FAMPAT. Para Login IDs Gold 300 mil. Já para Login IDs Platinum, o limite é de 2 milhões de famílias.

Também são possíveis análises a partir de resultados da base FULLPAT (em que as publicações são tratadas individualmente). Neste segundo caso, os limites de análise se aplicam a publicações individualmente.

1871 results for ((PETROBRAS)/PA/OPA/PAH/O

Legal status

Alive	(998)
Dead	(873)

1st application year

After 2015	(127)
2011-2015	(293)
2006-2010	(390)
2001-2005	(339)
Before 2001	(722)
More...	

Assignee

Litigations

Oppositions

#	Title			
1	Process for self-hydrogenation			
2	Process for direct synthesis of lact acid			
3	Liquid removal process in pipeline using a moving piston			
4	Anchor-line laying device and operating method.			
5	Kaolin containing fluid cracking catalyst.			
6	Equipment for oil well drilling and completing operations in deep water	US496017		PE
7	Offshore harbor		1986-12-29	PE
8	Mem de te			
9	Siste integ tubul asce			
10	Disp complemento de cravação de estruturas cravadas por queda livre			
11	System and optimization method for oil programming in a refinery through linear genetic programming and grammar-oriented programming, and readable storage medium	US10282173	2015-02-06	PE
12	Method for extracting precursor acids from calcium naphthenate deposits	US9983187	2014-11-28	PE
13	Sealing gasket for piping systems and its manufacturing process	US10514098	2015-11-17	PE
14	Gravitation anchor for offshore anchoring of ships and platforms	US10196111	2015-11-23	INS
15	Process for the production of nanoparticles and compositions	US10344201	2015-02-26	PE
16	Process for obtaining nanocomposites, nanocomposite, method of capture and retrieval of a solubilized and/or dispersed material in organic or	US10086358	2014-06-20	PE

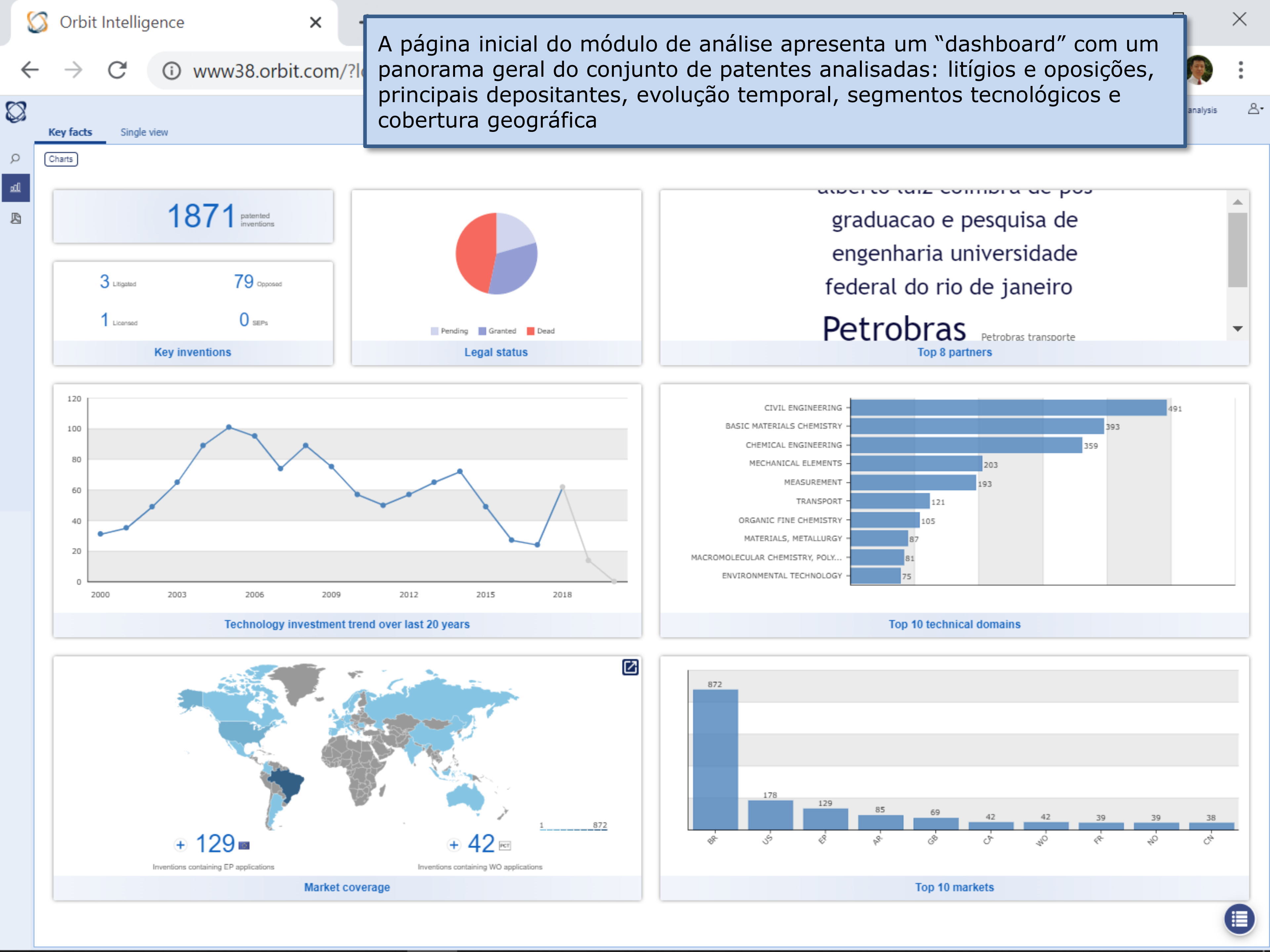
List of publications

Application number ...	Publication date
IN166606 ...	1990-06-09

Application number 1985AU-0050824 Date 1985-12-05

Page 1 of 75 Record 1 of 1871 Displaying records 1 - 25 of 1871

A página inicial do módulo de análise apresenta um "dashboard" com um panorama geral do conjunto de patentes analisadas: litígios e oposições, principais depositantes, evolução temporal, segmentos tecnológicos e cobertura geográfica



Orbit Intelligence
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analysis
Key facts
Single view
Charts
1871 patented inventions
3 Litigated
79 Opposed
1 Licensed
0 SEPs
Key inventions
Pending
Granted
Dead
Legal status
alberto luiz coimbra de pos
graduacao e pesquisa de
engenharia universidade
federal do rio de janeiro
Petrobras
Petrobras transporte
Top 8 partners
120
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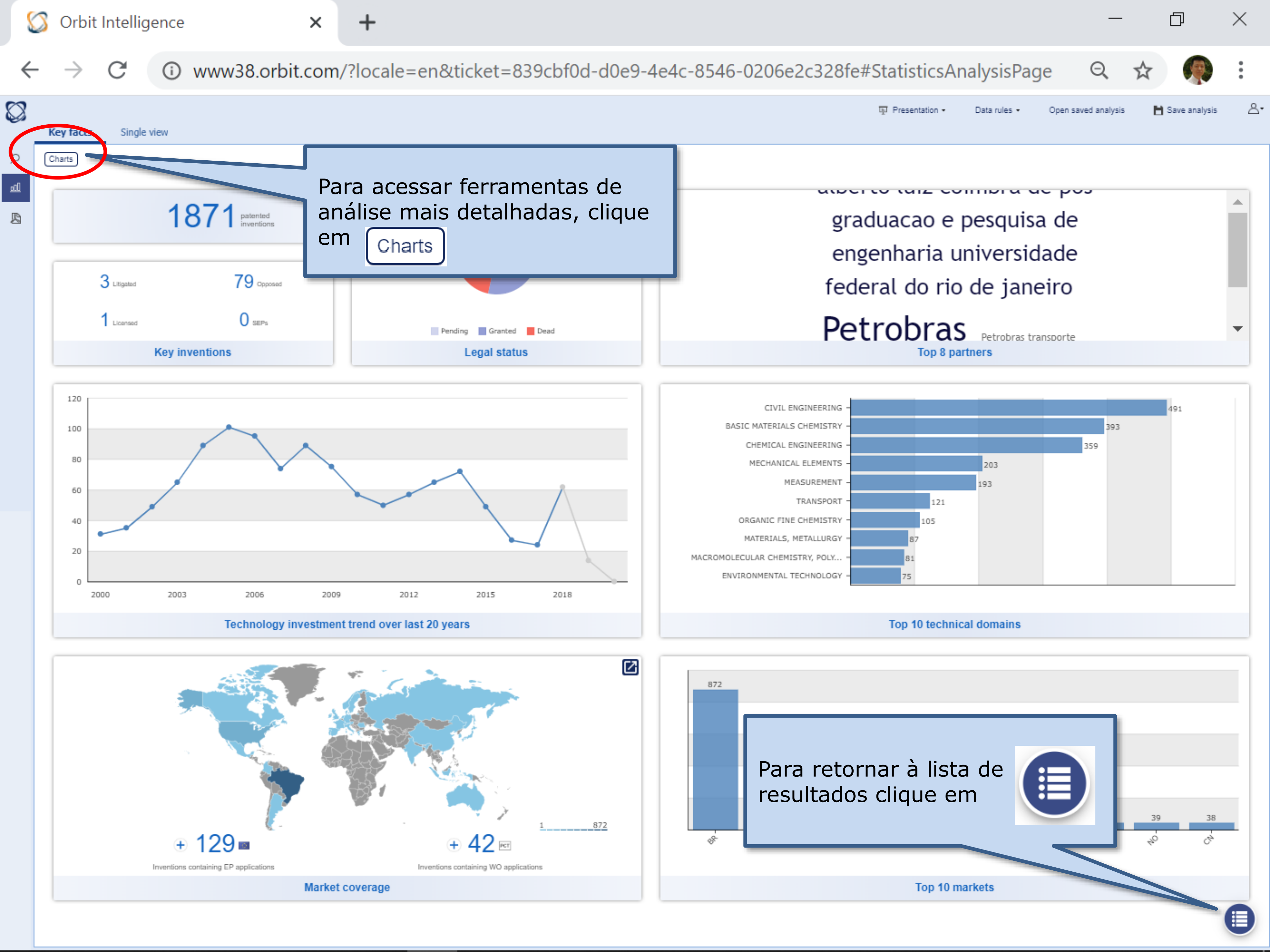
2006
2009
2012
2015
2018
Technology investment trend over last 20 years
CIVIL ENGINEERING 491
BASIC MATERIALS CHEMISTRY 393
CHEMICAL ENGINEERING 359
MECHANICAL ELEMENTS 203
MEASUREMENT 193
TRANSPORT 121
ORGANIC FINE CHEMISTRY 105
MATERIALS, METALLURGY 87
MACROMOLECULAR CHEMISTRY, POLY... 81
ENVIRONMENTAL TECHNOLOGY 75
Top 10 technical domains
1
872
+ 129
Inventions containing EP applications
+ 42
PCT
Inventions containing WO applications
Market coverage
BR 872
US 178
EP 129
AR 85
GB 69
CA 42
WO 42
FR 39
NO 39
CN 38
Top 10 markets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Open saved analysis
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Single view
Charts
1871 patented inventions
3 Litigated
79 Opposed
1 Licensed
0 SEPs
Key inventions
Pending
Granted
Dead
Legal status
alberto luiz coimbra de pos
graduacao e pesquisa de
engenharia universidade
federal do rio de janeiro
Petrobras
Petrobras transporte
Top 8 partners
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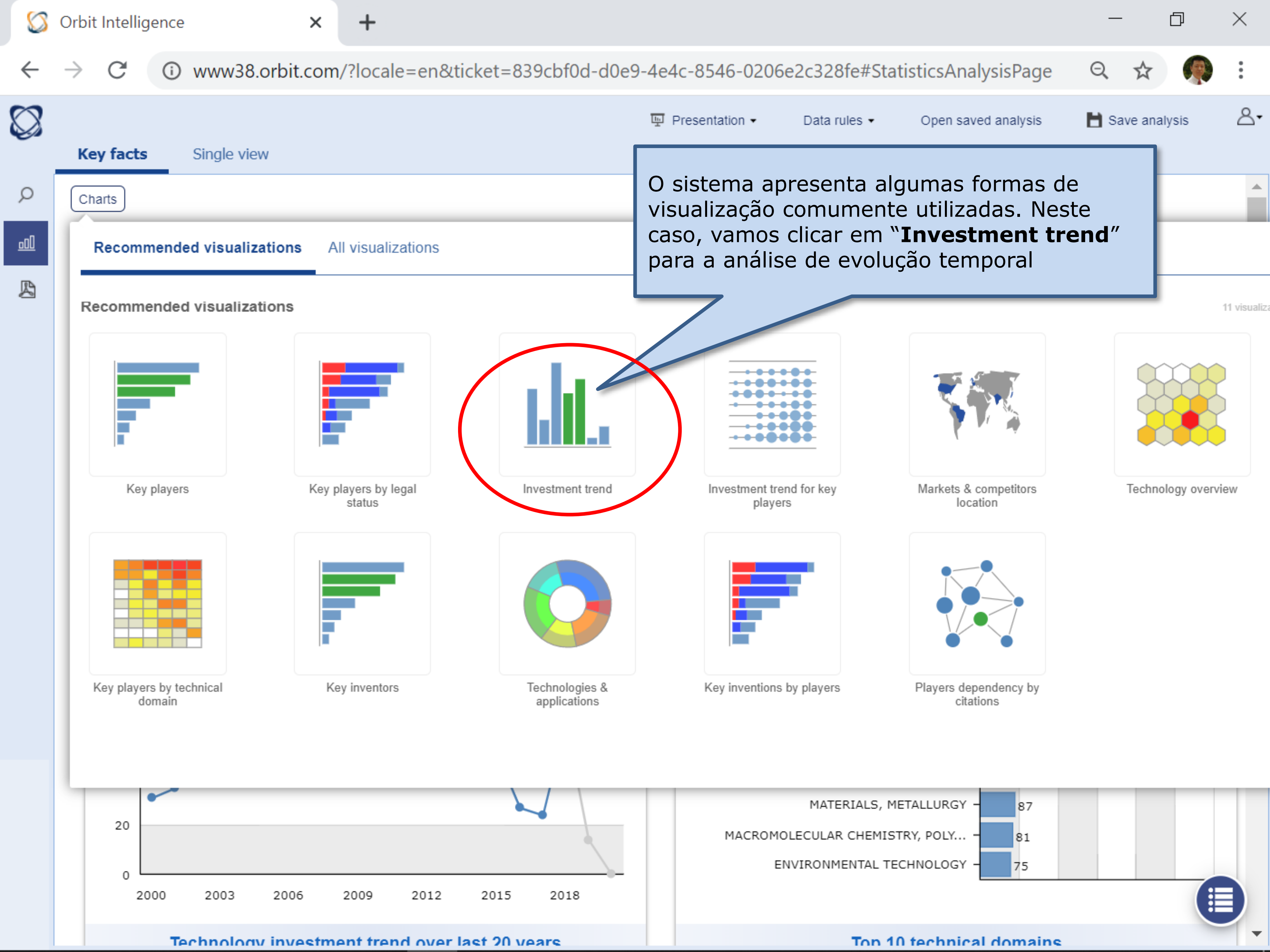
2018
Technology investment trend over last 20 years
CIVIL ENGINEERING 491
BASIC MATERIALS CHEMISTRY 393
CHEMICAL ENGINEERING 359
MECHANICAL ELEMENTS 203
MEASUREMENT 193
TRANSPORT 121
ORGANIC FINE CHEMISTRY 105
MATERIALS, METALLURGY 87
MACROMOLECULAR CHEMISTRY, POLY... 81
ENVIRONMENTAL TECHNOLOGY 75
Top 10 technical domains
1
872
+ 129
Inventions containing EP applications
+ 42 PCT
Inventions containing WO applications
Market coverage
872
BR
39
NO
38
CN
Top 10 markets

Para acessar ferramentas de análise mais detalhadas, clique em Charts

Para retornar à lista de resultados clique em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Key players
Key players by legal status
Investment trend
Investment trend for key players
Markets & competitors location
Technology overview
Key players by technical domain
Key inventors
Technologies & applications
Key inventions by players
Players dependency by citations
20
0
2000
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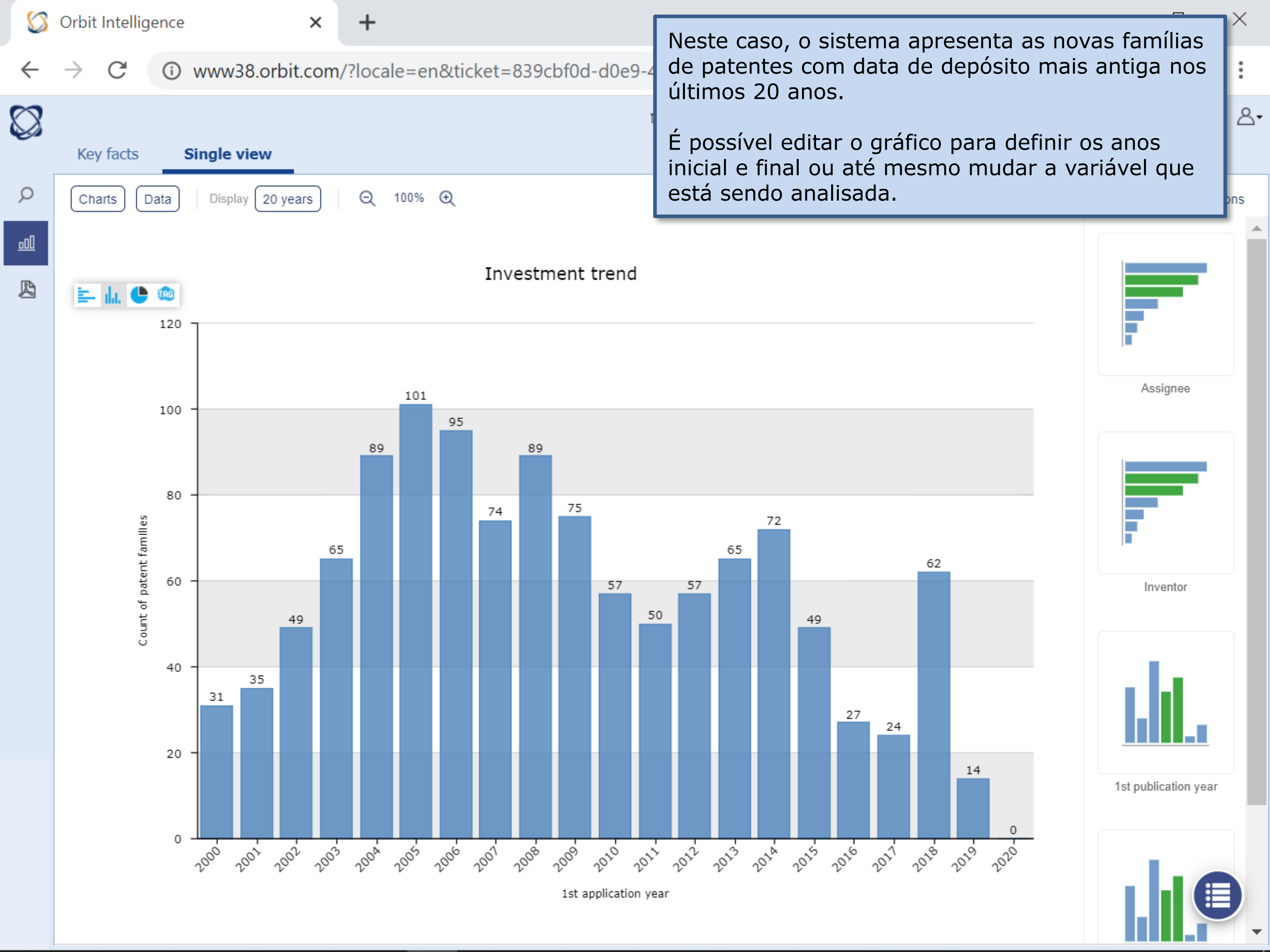
2018
MATERIALS, METALLURGY
87
MACROMOLECULAR CHEMISTRY, POLY...
81
ENVIRONMENTAL TECHNOLOGY
75
Technology investment trend over last 20 years
Top 10 technical domains

O sistema apresenta algumas formas de visualização comumente utilizadas. Neste caso, vamos clicar em "**Investment trend**" para a análise de evolução temporal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Key facts
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20 years
100%
Investment trend
Count of patent families
1st application year
120
100
80
60
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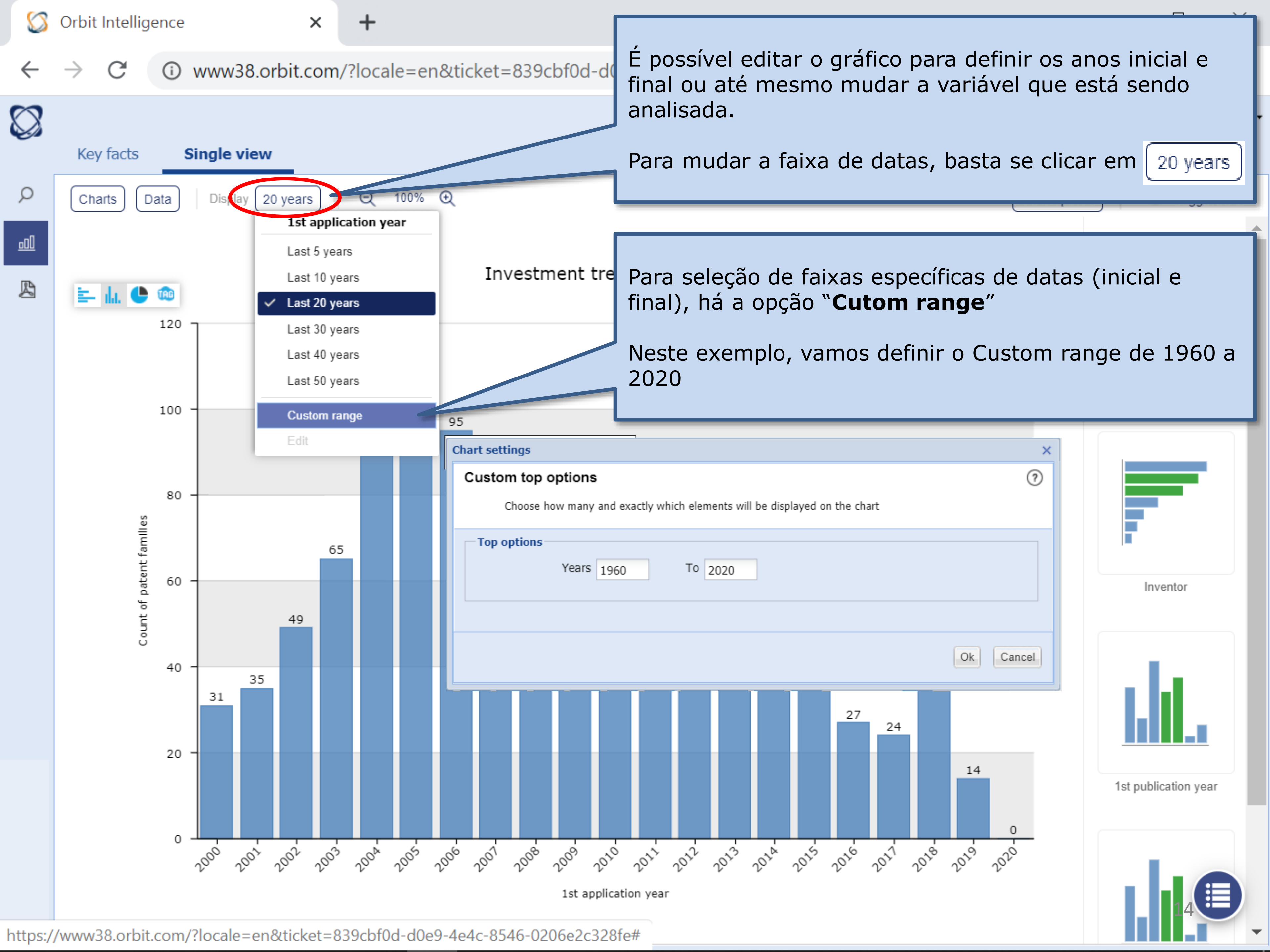
20
0
2000: 31
2001: 35
2002: 49
2003: 65
2004: 89
2005: 101
2006: 95
2007: 74
2008: 89
2009: 75
2010: 57
2011: 50
2012: 57
2013: 65
2014: 72
2015: 49
2016: 27
2017: 24
2018: 62
2019: 14
2020: 0
Assignee
Inventor
1st publication year

Neste caso, o sistema apresenta as novas famílias de patentes com data de depósito mais antiga nos últimos 20 anos.

É possível editar o gráfico para definir os anos inicial e final ou até mesmo mudar a variável que está sendo analisada.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Last 10 years
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Chart settings

Custom top options

Choose how many and exactly which elements will be displayed on the chart

Top options

Years 1960 To 2020

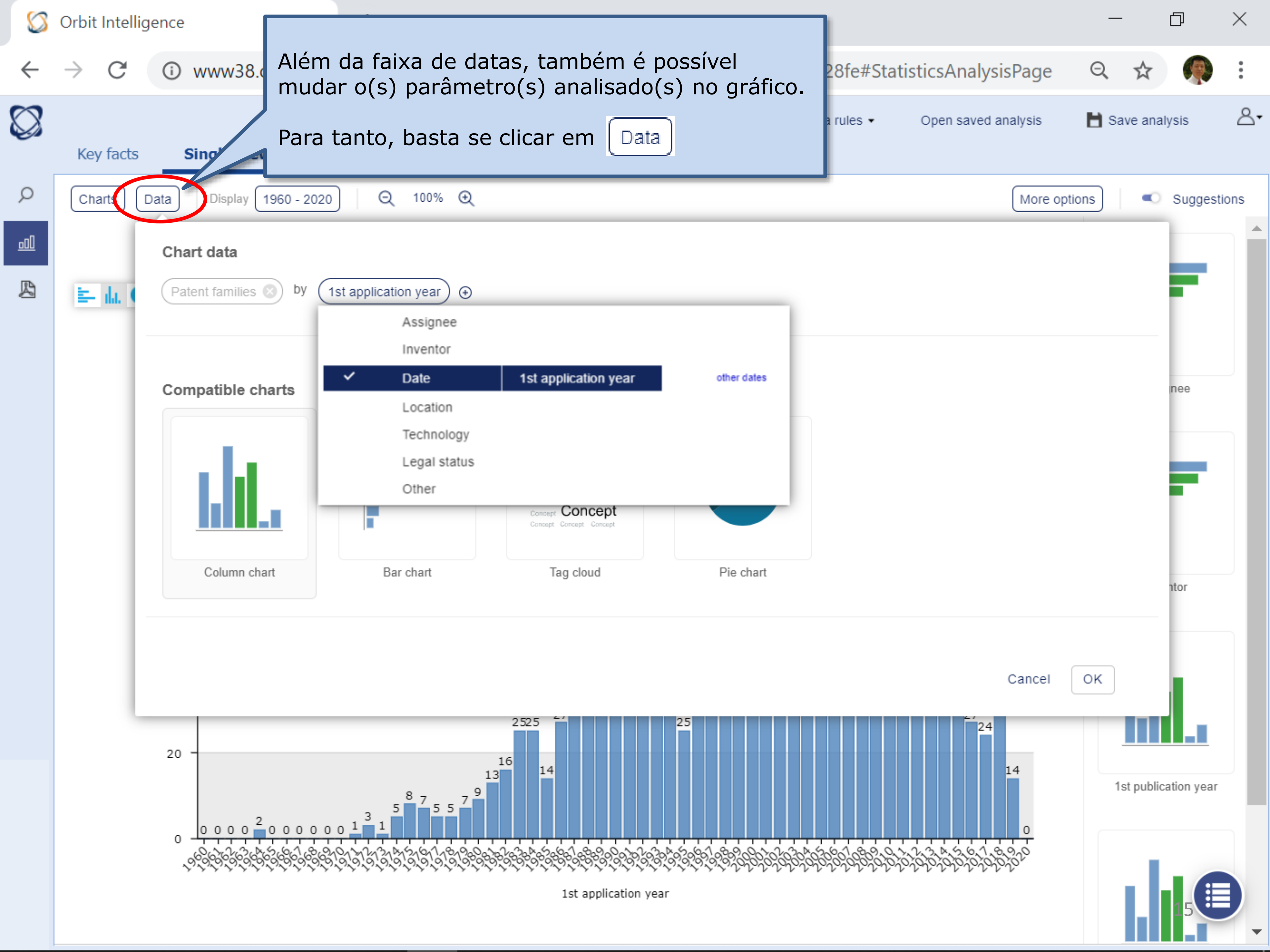
Ok
Cancel

É possível editar o gráfico para definir os anos inicial e final ou até mesmo mudar a variável que está sendo analisada.

Para mudar a faixa de datas, basta se clicar em 20 years

Para seleção de faixas específicas de datas (inicial e final), há a opção "**Cutom range**"

Neste exemplo, vamos definir o Custom range de 1960 a 2020



Além da faixa de datas, também é possível mudar o(s) parâmetro(s) analisado(s) no gráfico.

Para tanto, basta se clicar em Data

Chart data

Patent families by 1st application year

Date: 1st application year

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Inventor
Date
1st application year
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Location
Technology
Legal status
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Compatible charts
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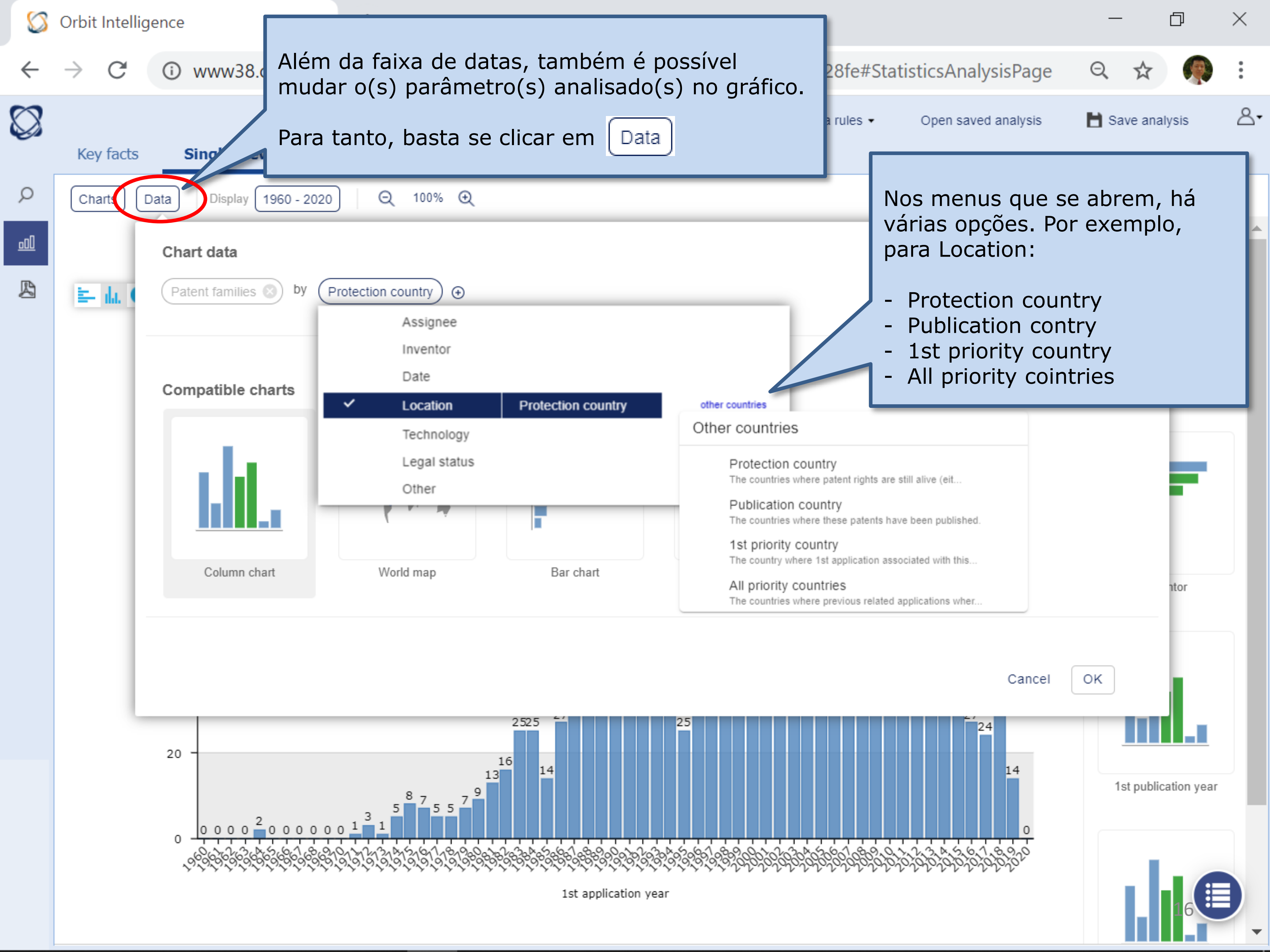
1st application year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Patent families
by
Protection country
Assignee
Inventor
Date
Location
Protection country
Technology
Legal status
Other
other countries
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Column chart
World map
Bar chart
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1st application year

Além da faixa de datas, também é possível mudar o(s) parâmetro(s) analisado(s) no gráfico.

Para tanto, basta se clicar em **Data**

Other countries

Protection country
The countries where patent rights are still alive (eit...

Publication country
The countries where these patents have been published.

1st priority country
The country where 1st application associated with this...

All priority countries
The countries where previous related applications wher...

Nos menus que se abrem, há várias opções. Por exemplo, para Location:

- Protection country
- Publication contry
- 1st priority country
- All priority cointries

Oficina 2B

Faça um rápido mapeamento da evolução geográfica e temporal das famílias de patentes da Petrobras, considerando a data de depósito mais antiga da família

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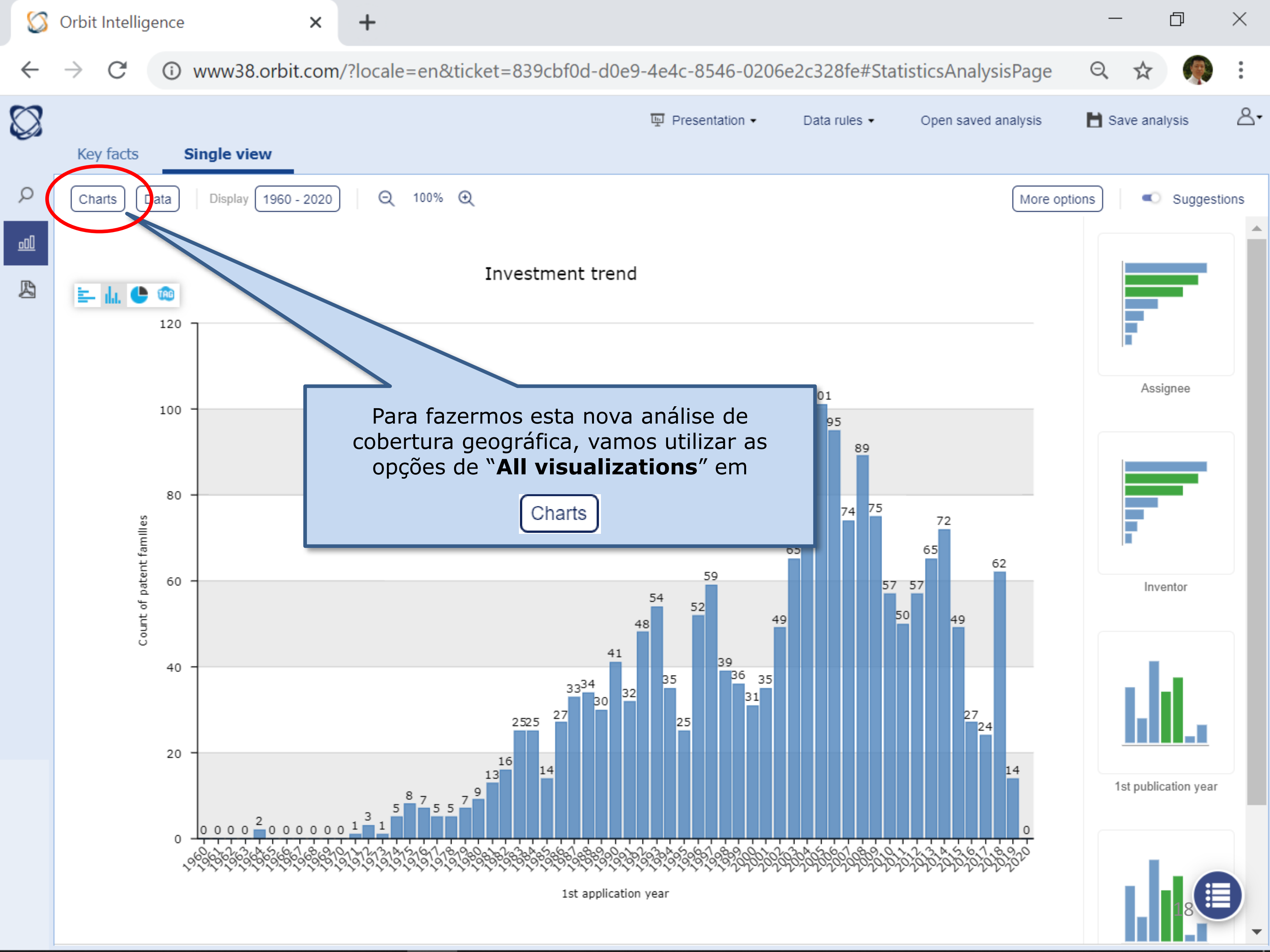
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Key facts
Single view
Charts
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1960 - 2020
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More options
Suggestions
Investment trend
Count of patent families
1st application year
120
100
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60
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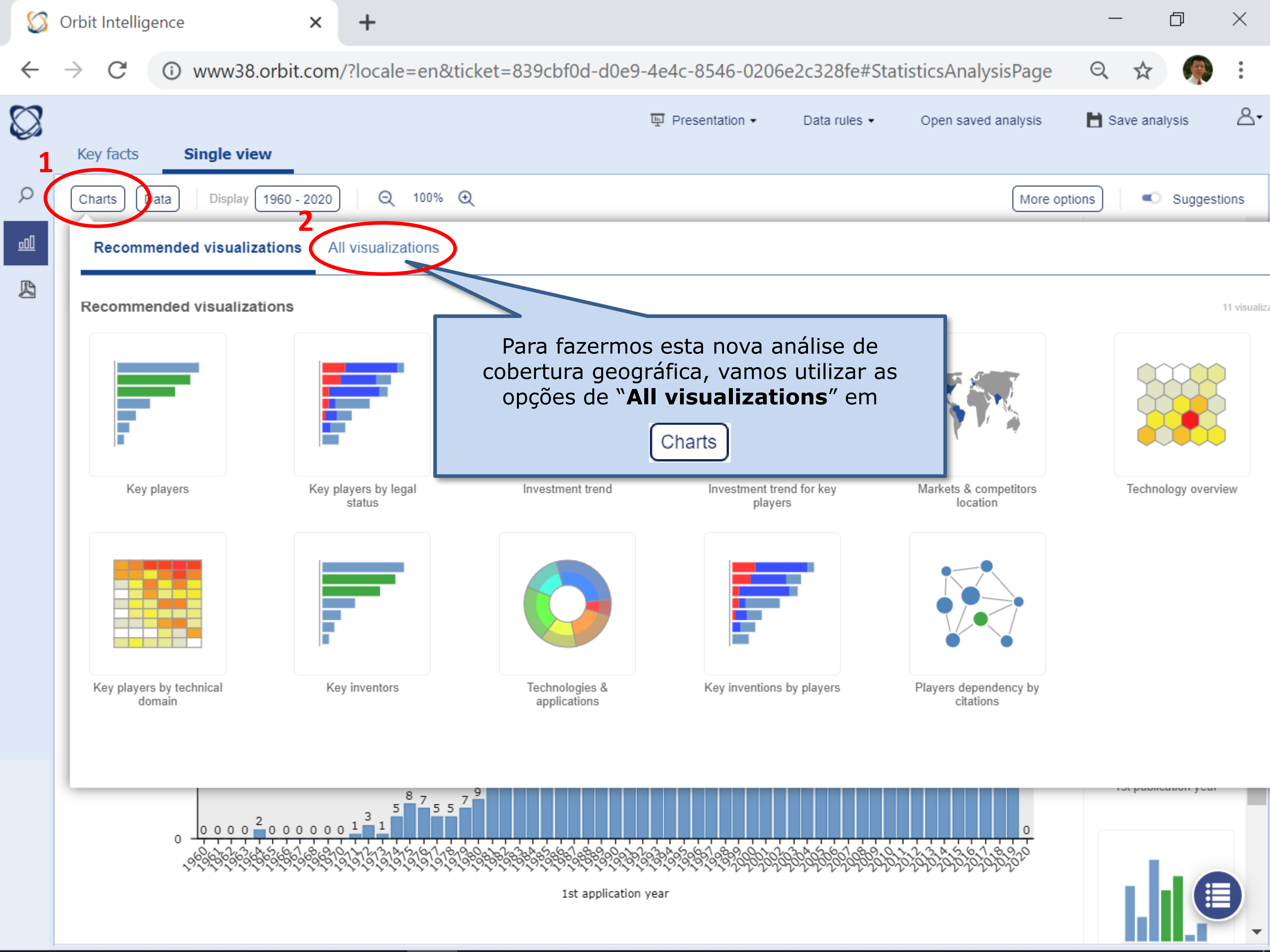
0 0 0 0 2 0 0 0 0 0 0 1 3 1 5 8 7 5 5 7 9 13 16 25 25 14 27 33 34 30 41 32 48 54 35 25 52 59 39 36 31 35 49 65 01 95 74 89 75 57 50 57 65 72 49 27 24 62 14 0
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020
Assignee
Inventor
1st publication year

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de “**All visualizations**” em

Charts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www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9-4e4c-8546-0206e2c328fe#StatisticsAnalysisPage
Presentation
Data rules
Open saved analysis
Save analysis
Key facts
Single view
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Charts
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Display
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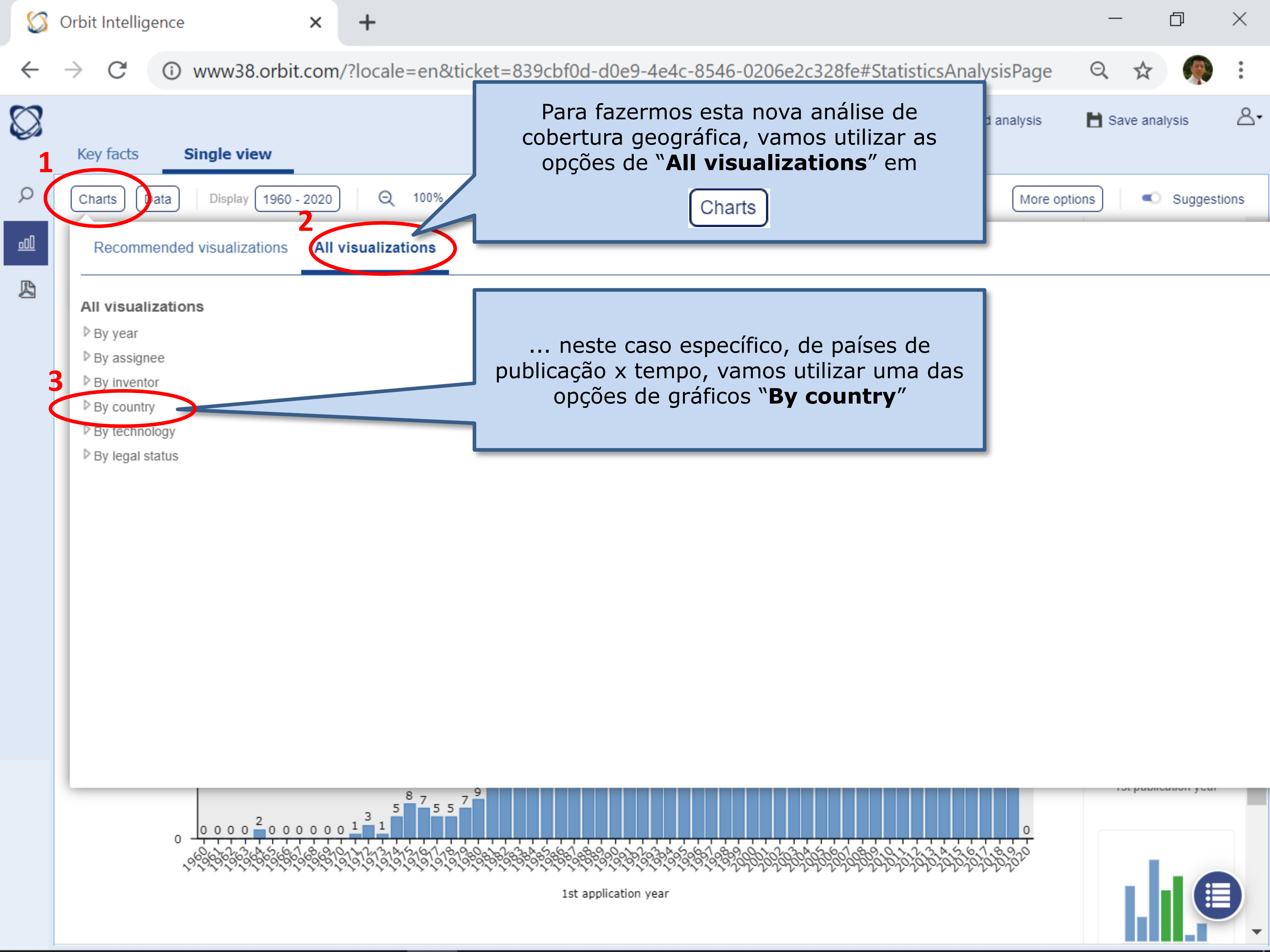
More options
Suggestions
2
Recommended visualizations
All visualizations
Recommended visualizations
11 visualiza
Key players
Key players by legal status
Investment trend
Investment trend for key players
Markets & competitors location
Technology overview
Key players by technical domain
Key inventors
Technologies & applications
Key inventions by players
Players dependency by citations
0
1st application year
1st publication year

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de “**All visualizations**” em

Charts


Orbit Intelligence
www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9-4e4c-8546-0206e2c328fe#StatisticsAnalysisPage
Save analysis
Key facts
Single view
Charts
Data
Display
1960 - 2020
100%
More options
Suggestions
Recommended visualizations
All visualizations
1
2
3
1st application year

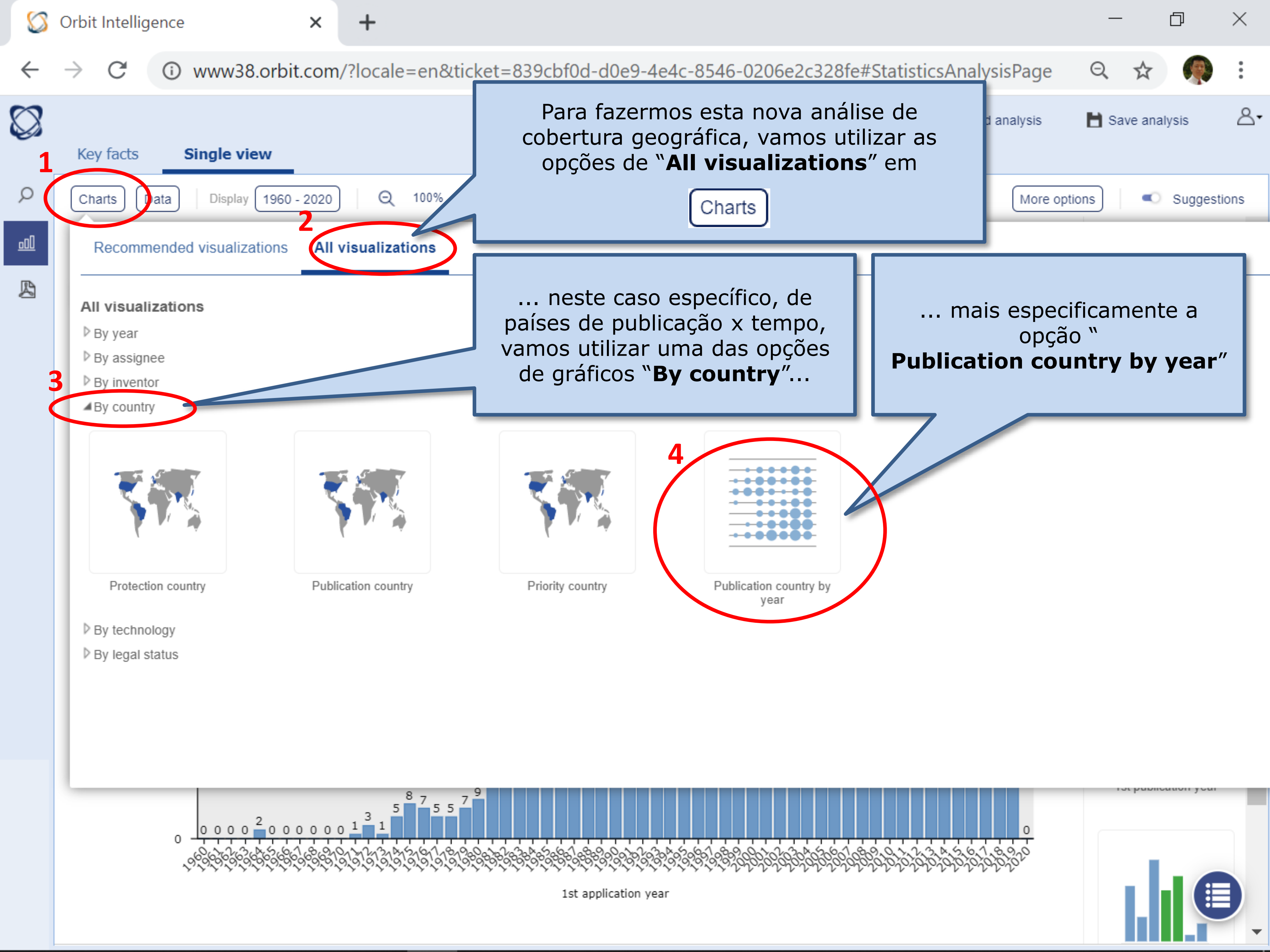
Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de "**All visualizations**" em

Charts

All visualizations

- By year
- By assignee
- By inventor
- By country
- By technology
- By legal status

... neste caso específico, de países de publicação x tempo, vamos utilizar uma das opções de gráficos "**By country**"



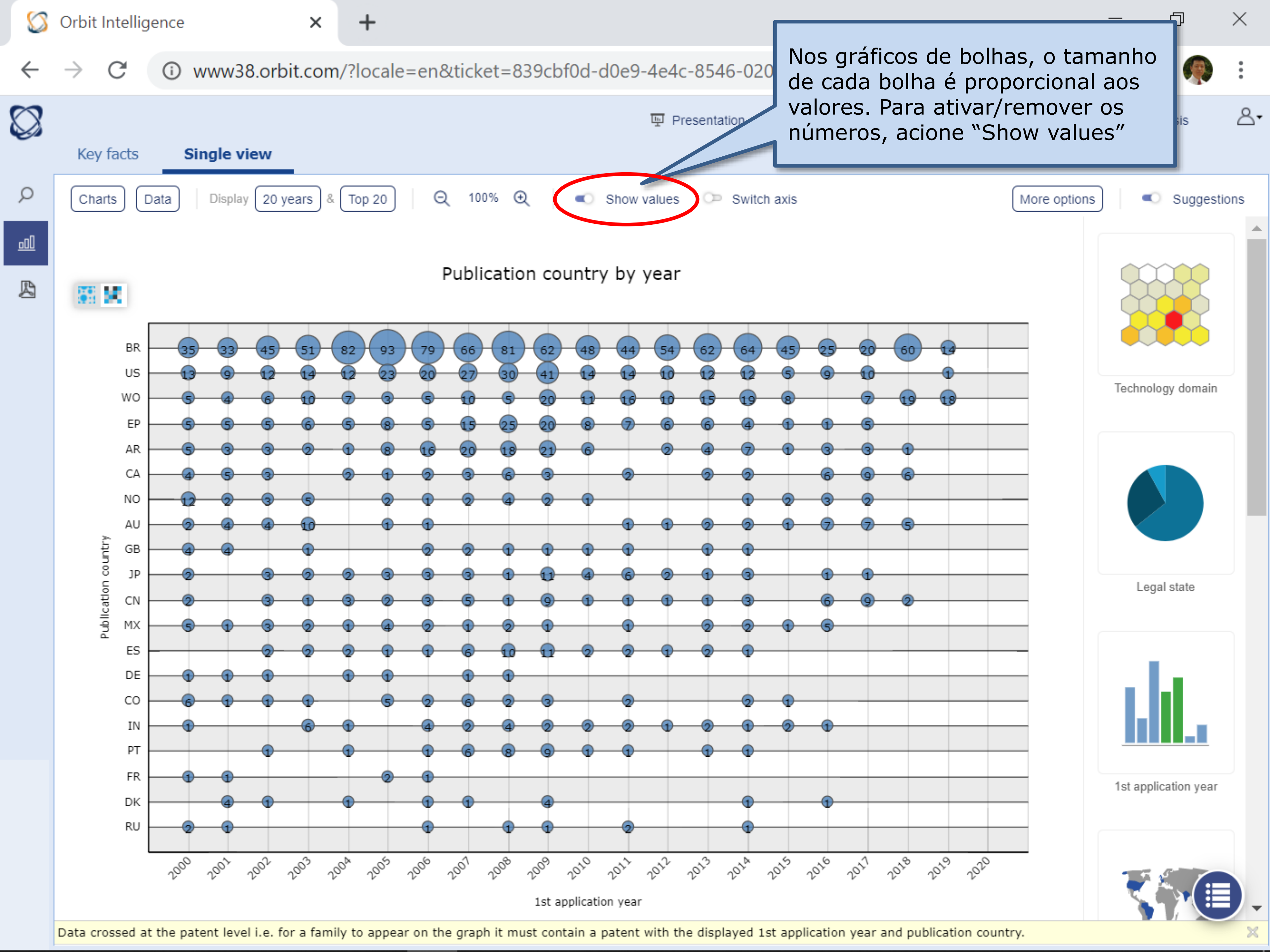
Orbit Intelligence
www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9-4e4c-8546-0206e2c328fe#StatisticsAnalysisPage
analysis
Save analysis
Key facts
Single view
Charts
Data
Display
1960 - 2020
100%
More options
Suggestions
Recommended visualizations
All visualizations
All visualizations
By year
By assignee
By inventor
By country
Protection country
Publication country
Priority country
Publication country by year
By technology
By legal status
1st application year
1
2
3
4

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de “**All visualizations**” em

Charts

... neste caso específico, de países de publicação x tempo, vamos utilizar uma das opções de gráficos “**By country**”...

... mais especificamente a opção “**Publication country by year**”



Orbit Intelligence
www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9-4e4c-8546-020
Presentation
Key facts
Single view
Charts
Data
Display
20 years
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Publication country by year
BR
US
WO
EP
AR
CA
NO
AU
GB
JP
CN
MX
ES
DE
CO
IN
PT
FR
DK
RU
Publication country
2000
2001
2002
2003
2004
2005
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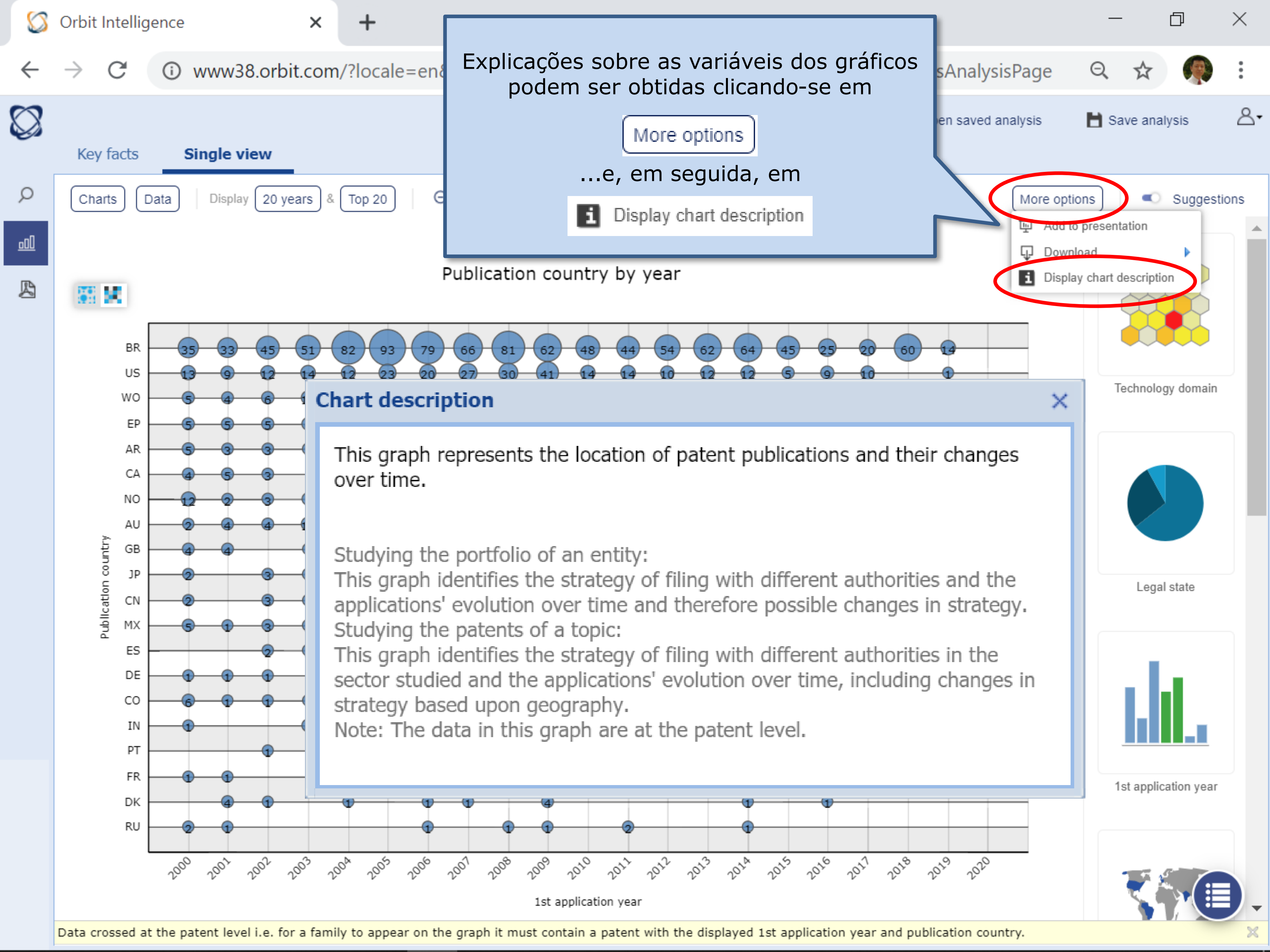
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
Technology domain
Legal state
1st application year

Nos gráficos de bolhas, o tamanho de cada bolha é proporcional aos valores. Para ativar/remover os números, acione "Show values"

Data crossed at the patent level i.e. for a family to appear on the graph it must contain a patent with the displayed 1st application year and publication country.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Save analysis
Key facts
Single view
Charts
Data
Display
20 years
&
Top 20
More options
Suggestions
Add to presentation
Download
Display chart description
Publication country by year
BR
US
WO
EP
AR
CA
NO
AU
GB
JP
CN
MX
ES
DE
CO
IN
PT
FR
DK
RU
Publication country
2000
2001
2002
2003
2004
2005
2006
2007
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2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
Technology domain
Legal state
1st application year

Explicações sobre as variáveis dos gráficos podem ser obtidas clicando-se em

More options

...e, em seguida, em

Display chart description

Chart description

This graph represents the location of patent publications and their changes over time.

Studying the portfolio of an entity:
This graph identifies the strategy of filing with different authorities and the applications' evolution over time and therefore possible changes in strategy.
Studying the patents of a topic:
This graph identifies the strategy of filing with different authorities in the sector studied and the applications' evolution over time, including changes in strategy based upon geography.
Note: The data in this graph are at the patent level.

Data crossed at the patent level i.e. for a family to appear on the graph it must contain a patent with the displayed 1st application year and publication country.

Oficina 2C

verifique a evolução temporal e, em seguida a cobertura geográfica das subclasses internacionais mais frequentes no portfólio de patentes da Petrobras.

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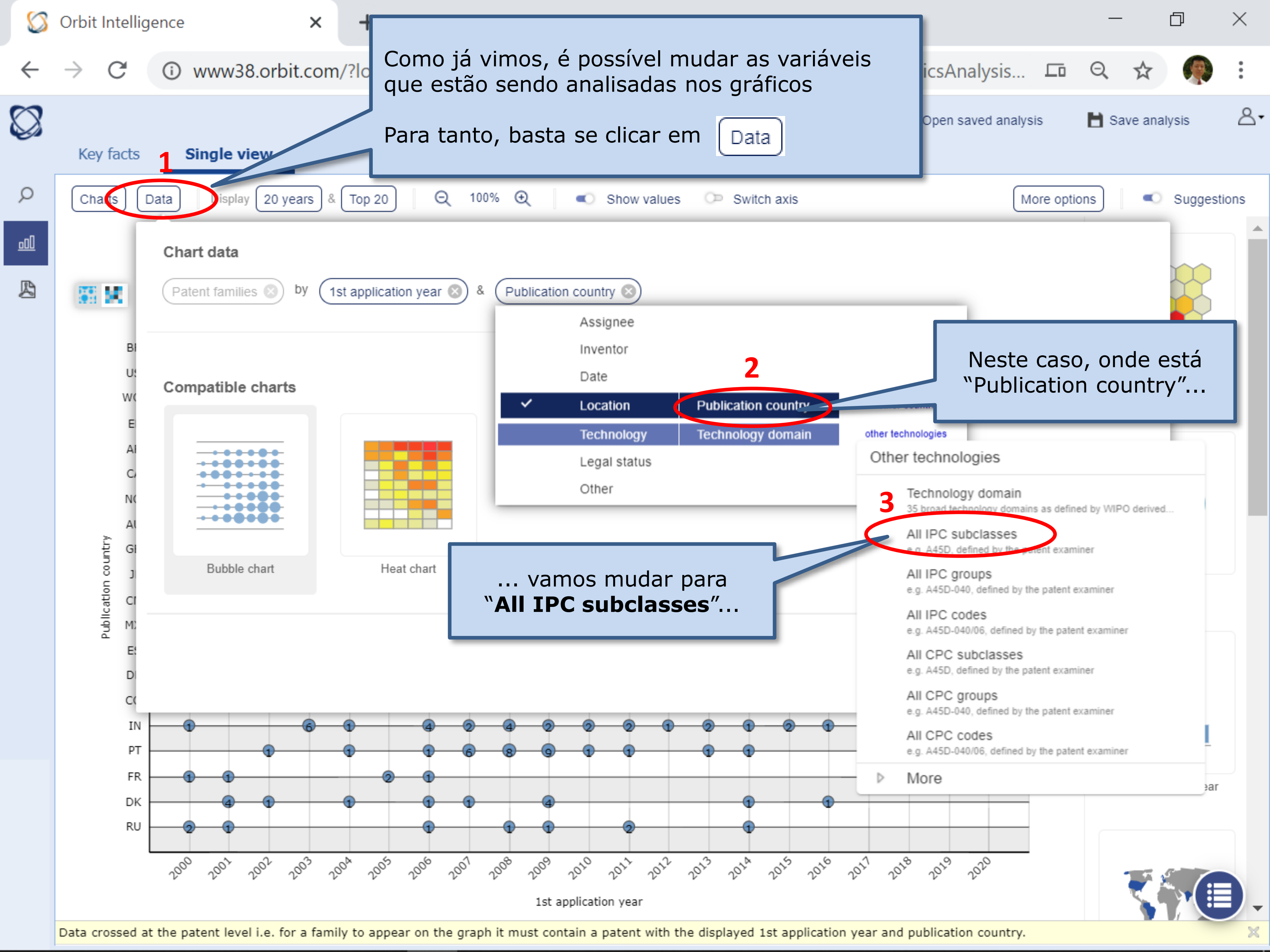
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Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
20 years
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Chart data
Patent families
by
1st application year
&
Publication country
Assignee
Inventor
Date
✓ Location
Publication country
Technology
Technology domain
Legal status
Other
other technologies
Other technologies
Technology domain
35 broad technology domains as defined by WIPO derived...
All IPC subclasses
e.g. A45D, defined by the patent examiner
All IPC groups
e.g. A45D-040, defined by the patent examiner
All IPC codes
e.g. A45D-040/06, defined by the patent examiner
All CPC subclasses
e.g. A45D, defined by the patent examiner
All CPC groups
e.g. A45D-040, defined by the patent examiner
All CPC codes
e.g. A45D-040/06, defined by the patent examiner
More
Compatible charts
Bubble chart
Heat chart
Publication country
IN
PT
FR
DK
RU
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
1
2
3

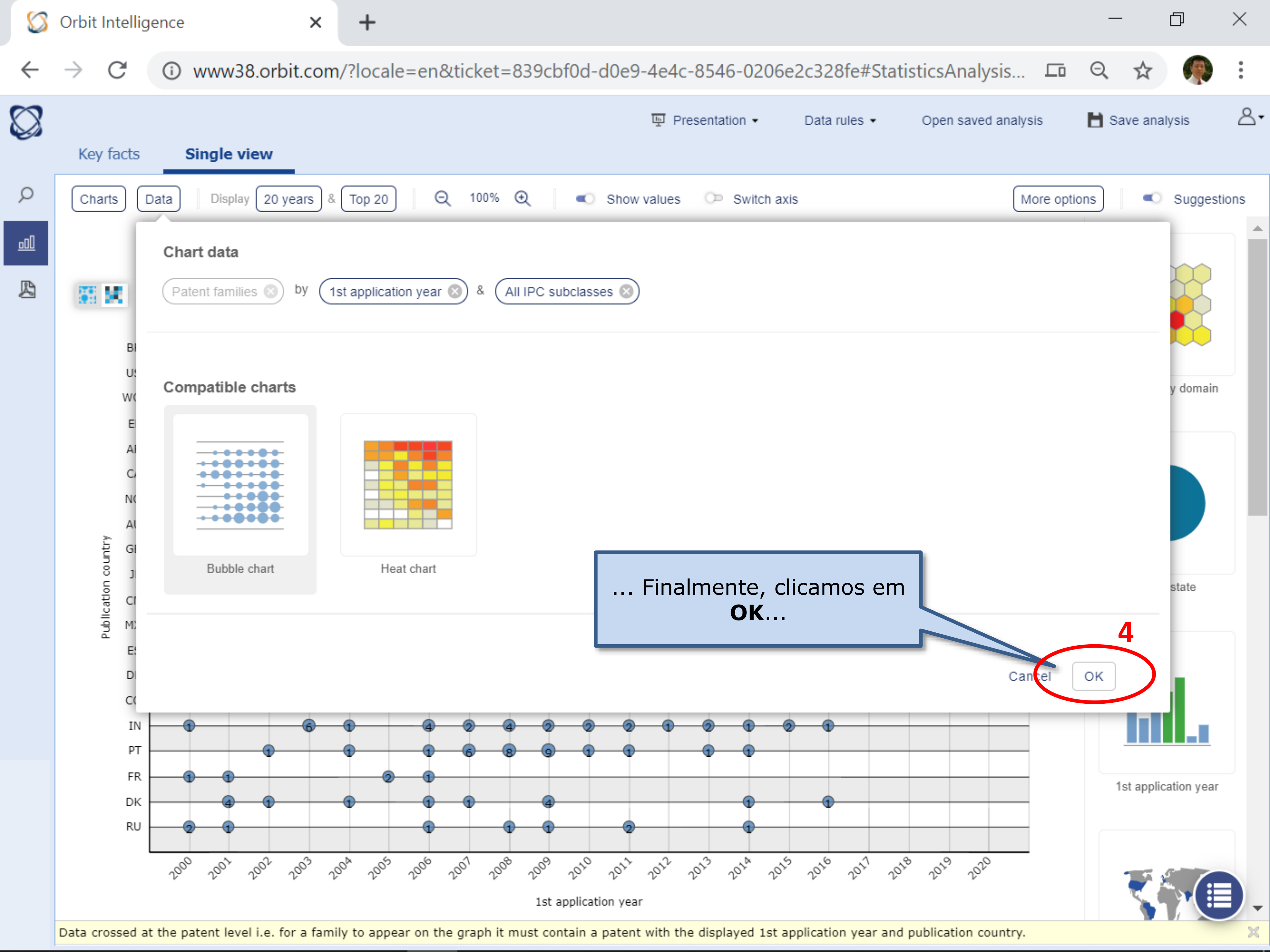
Como já vimos, é possível mudar as variáveis que estão sendo analisadas nos gráficos

Para tanto, basta se clicar em Data

Neste caso, onde está "Publication country"...

... vamos mudar para "**All IPC subclasses**"...

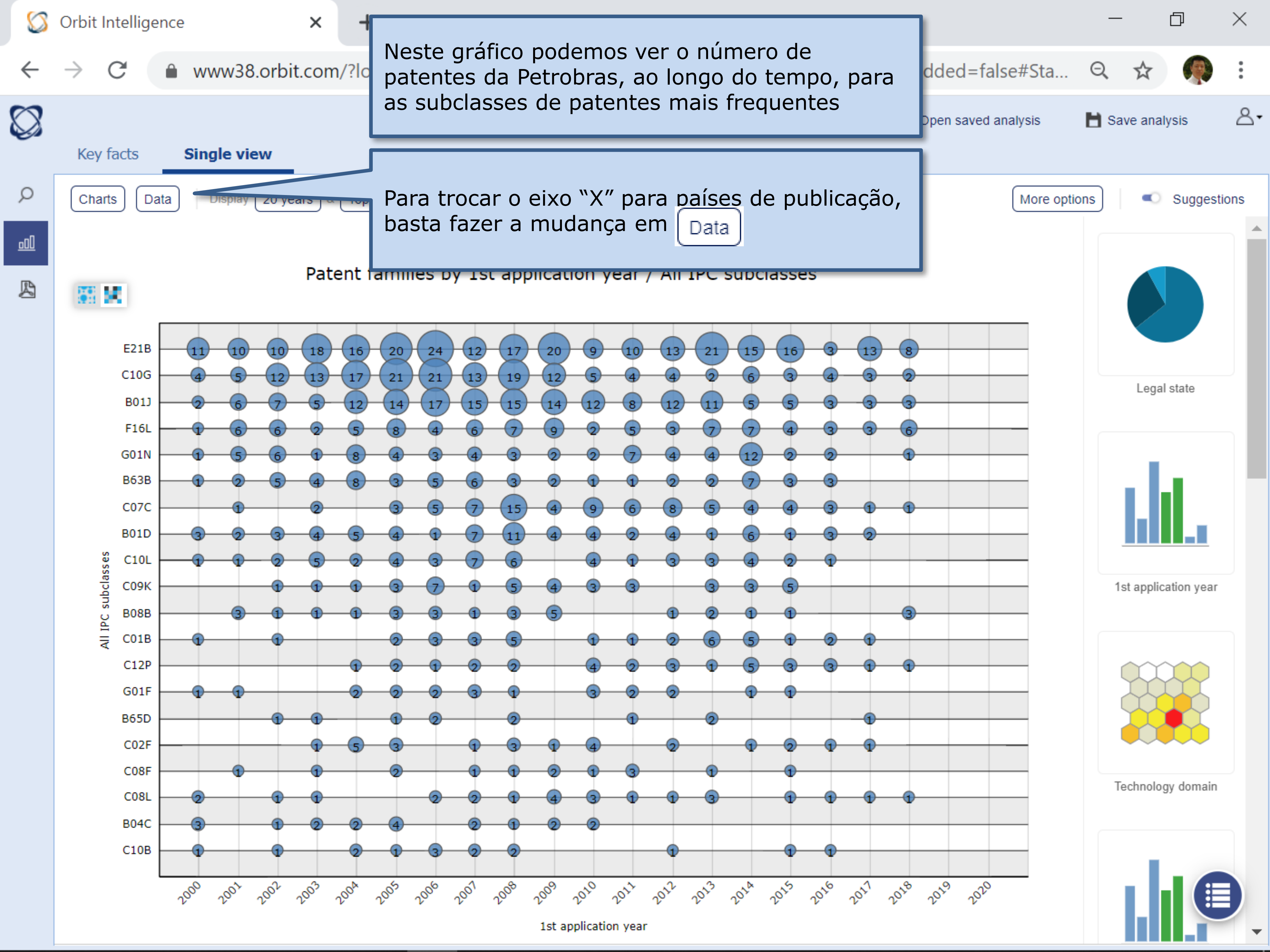
Data crossed at the patent level i.e. for a family to appear on the graph it must contain a patent with the displayed 1st application year and publication country.


Orbit Intelligence
www38.orbit.com/?locale=en&ticket=839cbf0d-d0e9-4e4c-8546-0206e2c328fe#StatisticsAnalysis...
Presentation
Data rules
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
20 years
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Chart data
Patent families
by
1st application year
&
All IPC subclasses
Compatible charts
Bubble chart
Heat chart
Cancel
OK
Publication country
IN
PT
FR
DK
RU
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
y domain
state
1st application year

... Finalmente, clicamos em **OK**...

4

Data crossed at the patent level i.e. for a family to appear on the graph it must contain a patent with the displayed 1st application year and publication country.


Orbit Intelligence
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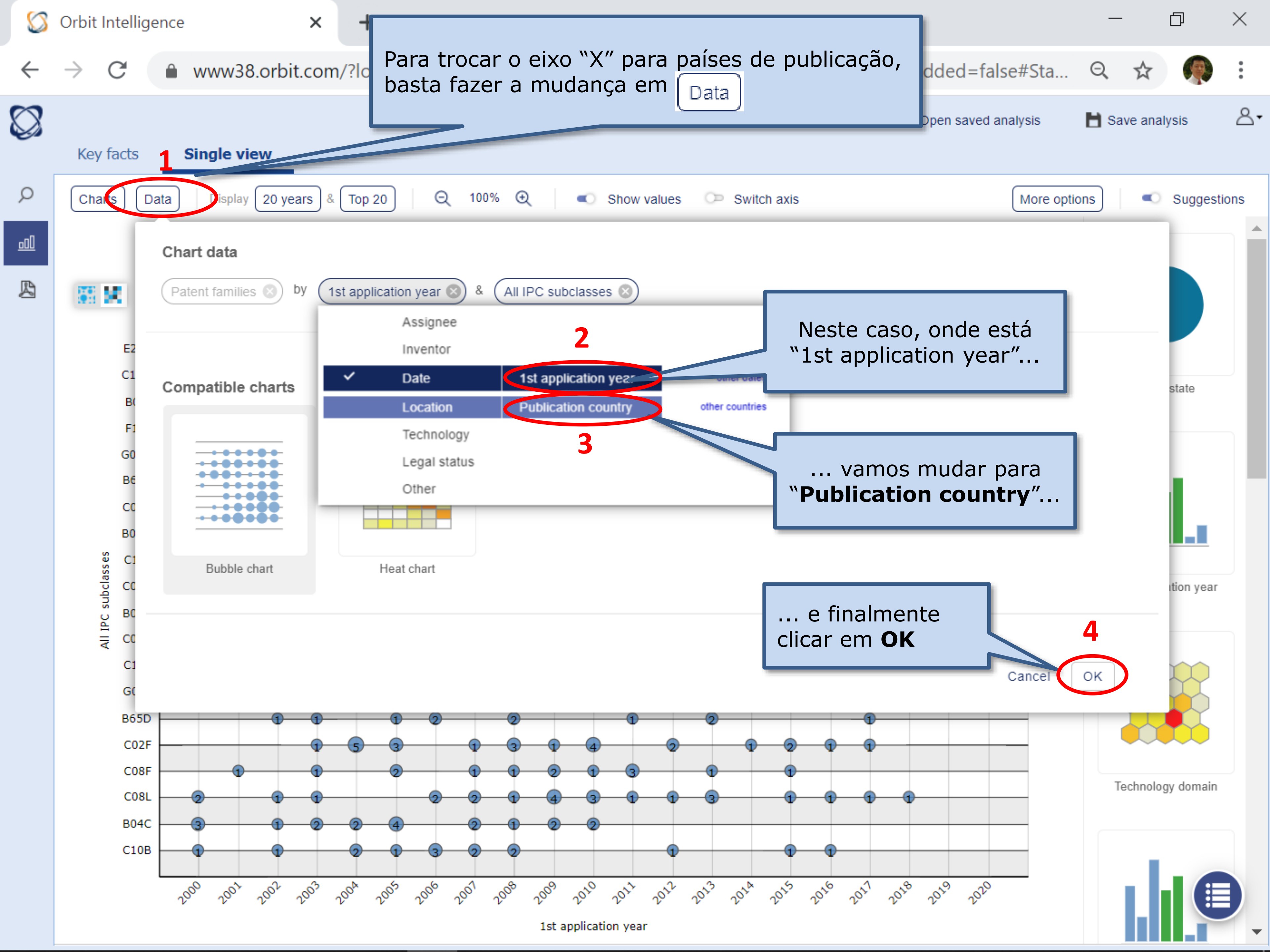
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
20 years
More options
Suggestions
Patent families by 1st application year / All IPC subclasses
All IPC subclasses
E21B
C10G
B01J
F16L
G01N
B63B
C07C
B01D
C10L
C09K
B08B
C01B
C12P
G01F
B65D
C02F
C08F
C08L
B04C
C10B
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
Legal state
1st application year
Technology domain

Neste gráfico podemos ver o número de patentes da Petrobras, ao longo do tempo, para as subclasses de patentes mais frequentes

Para trocar o eixo "X" para países de publicação, basta fazer a mudança em Data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dded=false#Sta...
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
20 years
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Assignee
Inventor
Date
1st application year
other dates
Location
Publication country
other countries
Technology
Legal status
Other
Compatible charts
Bubble chart
Heat chart
Cancel
OK
All IPC subclasses
B65D
C02F
C08F
C08L
B04C
C10B
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st application year
state
tion year
Technology domain
1
2
3
4

Chart data

Patent families by 1st application year & All IPC subclasses

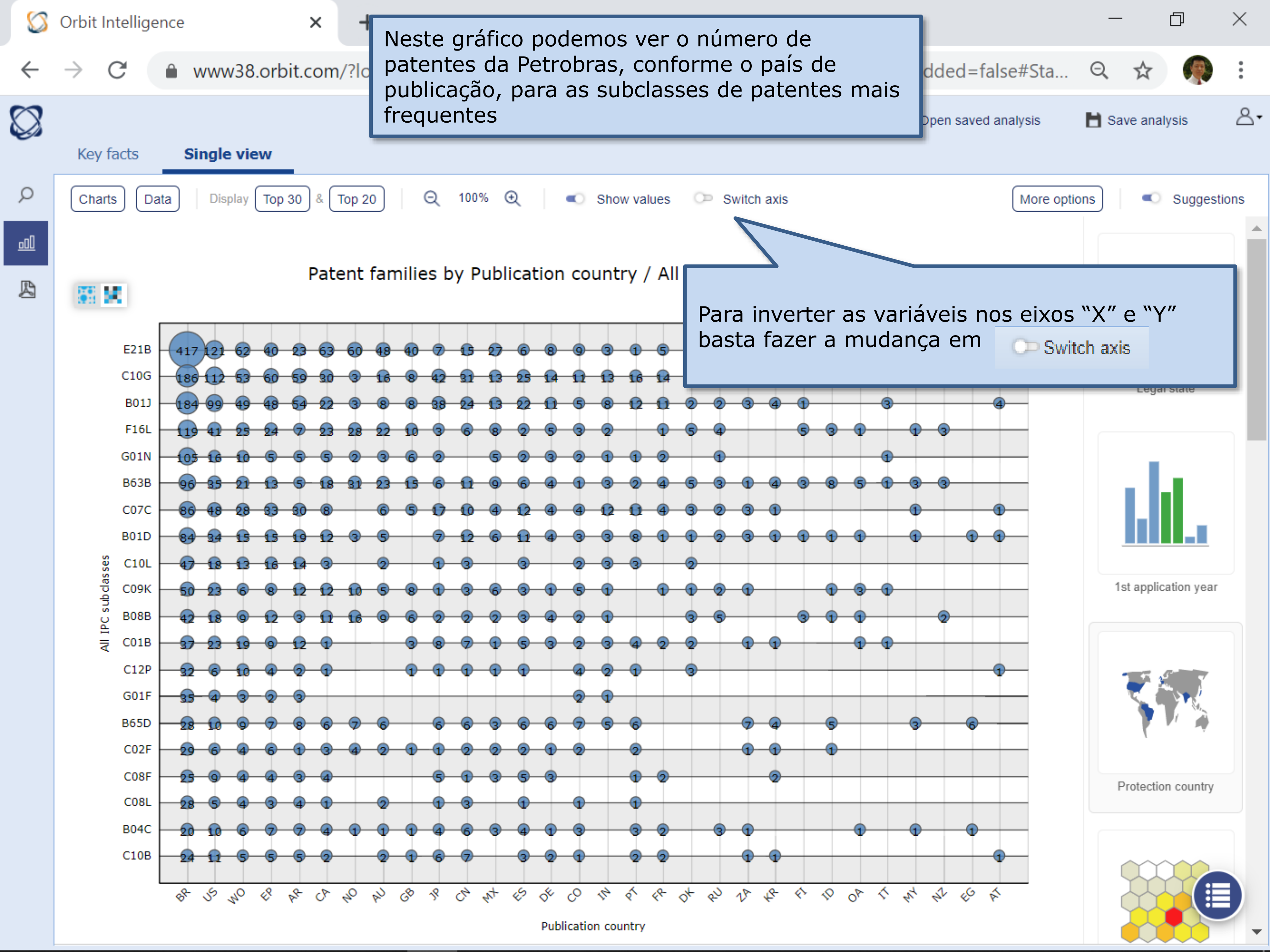
Para trocar o eixo “X” para países de publicação, basta fazer a mudança em Data

Neste caso, onde está “1st application year”...

... vamos mudar para “**Publication country**”...

... e finalmente clicar em **OK**

Neste gráfico podemos ver o número de patentes da Petrobras, conforme o país de publicação, para as subclasses de patentes mais frequentes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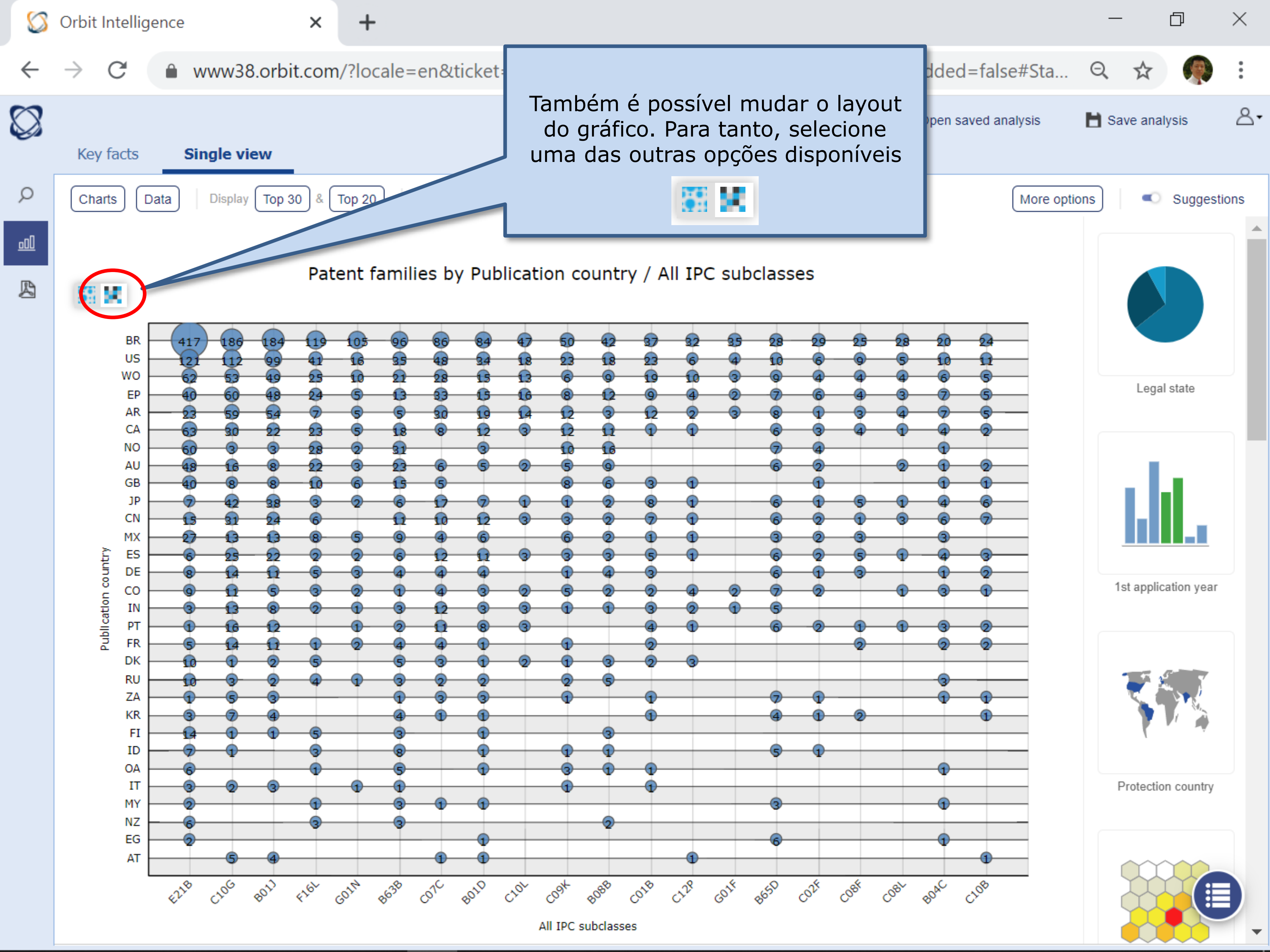
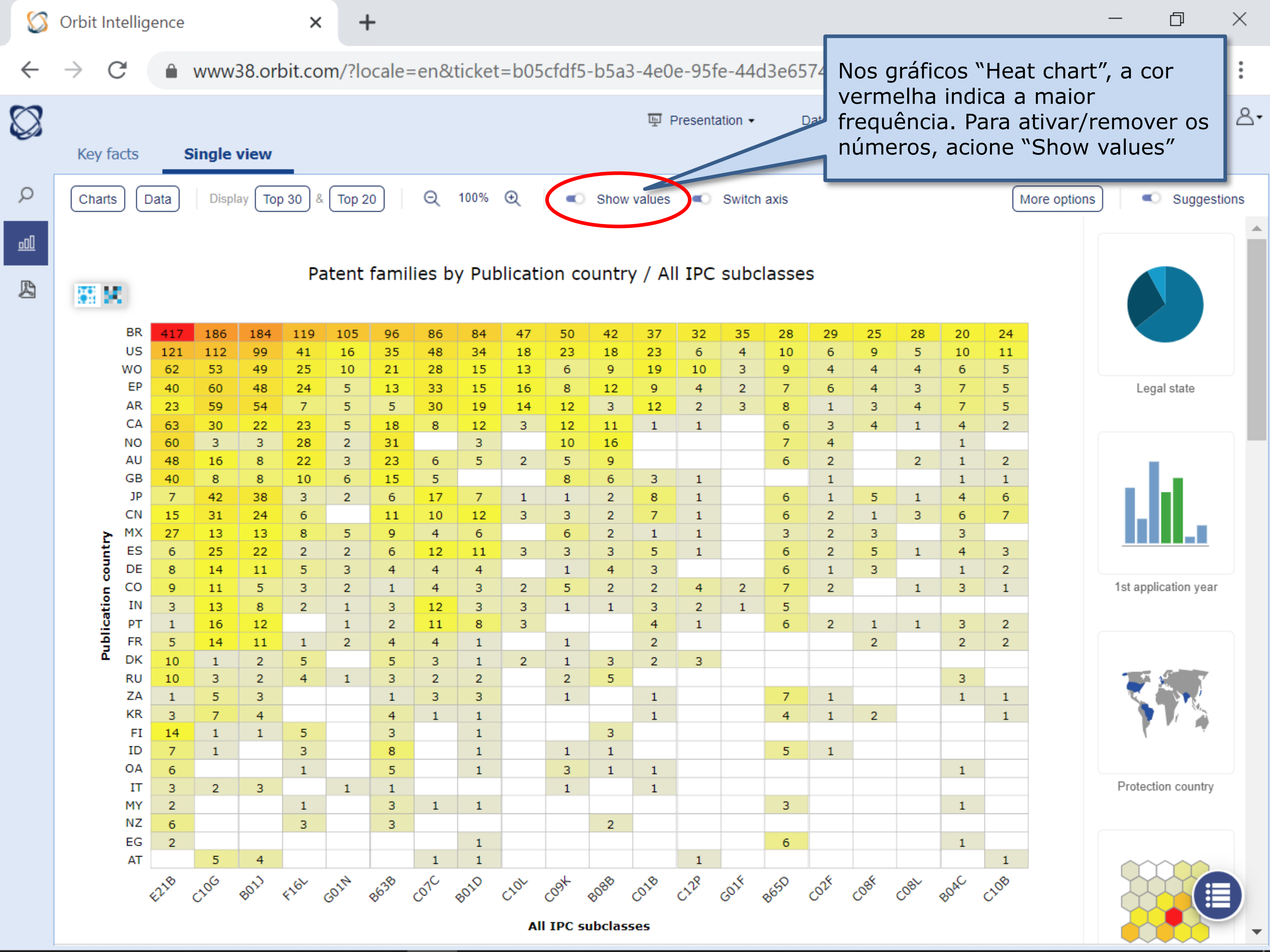
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Patent families by Publication country / All
All IPC subclasses
Publication country
BR US WO EP AR CA NO AU GB JP CN MX ES DE CO IN PT FR DK RU ZA KR FI ID OA IT MY NZ EG AT
E21B 417 121 62 40 23 63 60 48 40 7 15 27 6 8 9 3 1 5
C10G 186 112 53 60 59 30 3 16 8 42 31 13 25 14 11 13 16 14
B01J 184 99 49 48 54 22 3 8 8 38 24 13 22 11 5 8 12 11 2 2 3 4 1 3 4
F16L 119 41 25 24 7 23 28 22 10 3 6 8 2 5 3 2 1 5 4 5 3 1 1 3
G01N 105 16 10 5 5 5 2 3 6 2 5 2 3 2 1 1 2 1 1
B63B 96 35 21 13 5 18 31 23 15 6 11 9 6 4 1 3 2 4 5 3 1 4 3 8 5 1 3 3
C07C 86 48 28 33 30 8 6 5 17 10 4 12 4 4 12 11 4 3 2 3 1 1 1
B01D 84 34 15 15 19 12 3 5 7 12 6 11 4 3 3 8 1 1 2 3 1 1 1 1 1 1 1
C10L 47 18 13 16 14 3 2 1 3 3 2 3 3 2
C09K 50 23 6 8 12 12 10 5 8 1 3 6 3 1 5 1 1 1 2 1 1 3 1
B08B 42 18 9 12 3 11 16 9 6 2 2 2 3 4 2 1 3 5 3 1 1 2
C01B 37 23 19 9 12 1 3 8 7 1 5 3 2 3 4 2 2 1 1 1 1
C12P 32 6 10 4 2 1 1 1 1 1 1 4 2 1 3 1
G01F 35 4 3 2 3 2 1
B65D 28 10 9 7 8 6 7 6 6 6 3 6 6 7 5 6 7 4 5 3 6
C02F 29 6 4 6 1 3 4 2 1 1 2 2 2 1 2 2 1 1 1
C08F 25 9 4 4 3 4 5 1 3 5 3 1 2 2
C08L 28 5 4 3 4 1 2 1 3 1 1 1
B04C 20 10 6 7 7 4 1 1 1 4 6 3 4 1 3 3 2 3 1 1 1 1
C10B 24 11 5 5 5 2 2 1 6 7 3 2 1 2 2 1 1 1
Legal state
1st application year
Protection country

Para inverter as variáveis nos eixos "X" e "Y" basta fazer a mudança em Switch axis


Orbit Intelligence
www38.orbit.com/?locale=en&ticket= … dded=false#Sta…
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
&
Top 20
More options
Suggestions
Patent families by Publication country / All IPC subclasses
Publication country
BR
US
WO
EP
AR
CA
NO
AU
GB
JP
CN
MX
ES
DE
CO
IN
PT
FR
DK
RU
ZA
KR
FI
ID
OA
IT
MY
NZ
EG
AT
All IPC subclasses
E21B
C10G
B01J
F16L
G01N
B63B
C07C
B01D
C10L
C09K
B08B
C01B
C12P
G01F
B65D
C02F
C08F
C08L
B04C
C10B
Legal state
1st application year
Protection country

Também é possível mudar o layout do gráfico. Para tanto, selecione uma das outras opções disponíveis


Orbit Intelligence
www38.orbit.com/?locale=en&ticket=b05cfdf5-b5a3-4e0e-95fe-44d3e657
Presentation
Key facts
Single view
Charts
Data
Display
Top 30
&
Top 20
100%
Show values
Switch axis
More options
Suggestions
Legal state
1st application year
Protection country

Nos gráficos “Heat chart”, a cor vermelha indica a maior frequência. Para ativar/remover os números, acione “Show values”

Patent families by Publication country / All IPC subclasses

Publication country	E21B	C10G	B01J	F16L	G01N	B63B	C07C	B01D	C10L	C09K	B08B	C01B	C12P	G01F	B65D	C02F	C08F	C08L	B04C	C10B
BR	417	186	184	119	105	96	86	84	47	50	42	37	32	35	28	29	25	28	20	24
US	121	112	99	41	16	35	48	34	18	23	18	23	6	4	10	6	9	5	10	11
WO	62	53	49	25	10	21	28	15	13	6	9	19	10	3	9	4	4	4	6	5
EP	40	60	48	24	5	13	33	15	16	8	12	9	4	2	7	6	4	3	7	5
AR	23	59	54	7	5	5	30	19	14	12	3	12	2	3	8	1	3	4	7	5
CA	63	30	22	23	5	18	8	12	3	12	11	1	1		6	3	4	1	4	2
NO	60	3	3	28	2	31		3		10	16				7	4			1	
AU	48	16	8	22	3	23	6	5	2	5	9				6	2		2	1	2
GB	40	8	8	10	6	15	5			8	6	3	1			1			1	1
JP	7	42	38	3	2	6	17	7	1	1	2	8	1		6	1	5	1	4	6
CN	15	31	24	6		11	10	12	3	3	2	7	1		6	2	1	3	6	7
MX	27	13	13	8	5	9	4	6		6	2	1	1		3	2	3		3	
ES	6	25	22	2	2	6	12	11	3	3	3	5	1		6	2	5	1	4	3
DE	8	14	11	5	3	4	4	4		1	4	3			6	1	3		1	2
CO	9	11	5	3	2	1	4	3	2	5	2	2	4	2	7	2		1	3	1
IN	3	13	8	2	1	3	12	3	3	1	1	3	2	1	5					
PT	1	16	12		1	2	11	8	3			4	1		6	2	1	1	3	2
FR	5	14	11	1	2	4	4	1		1		2					2		2	2
DK	10	1	2	5		5	3	1	2	1	3	2	3							
RU	10	3	2	4	1	3	2	2		2	5								3	
ZA	1	5	3			1	3	3		1		1			7	1			1	1
KR	3	7	4			4	1	1				1			4	1	2			1
FI	14	1	1	5		3		1			3									
ID	7	1		3		8		1		1	1				5	1				
OA	6			1		5		1		3	1	1							1	
IT	3	2	3		1	1				1		1								
MY	2			1		3	1	1							3				1	
NZ	6			3		3					2									
EG	2							1							6				1	
AT		5	4				1	1					1							1

All IPC subclasses

Oficina 2D

Visualize rapidamente o perfil dos segmentos tecnológicos das patentes da Petrobras.

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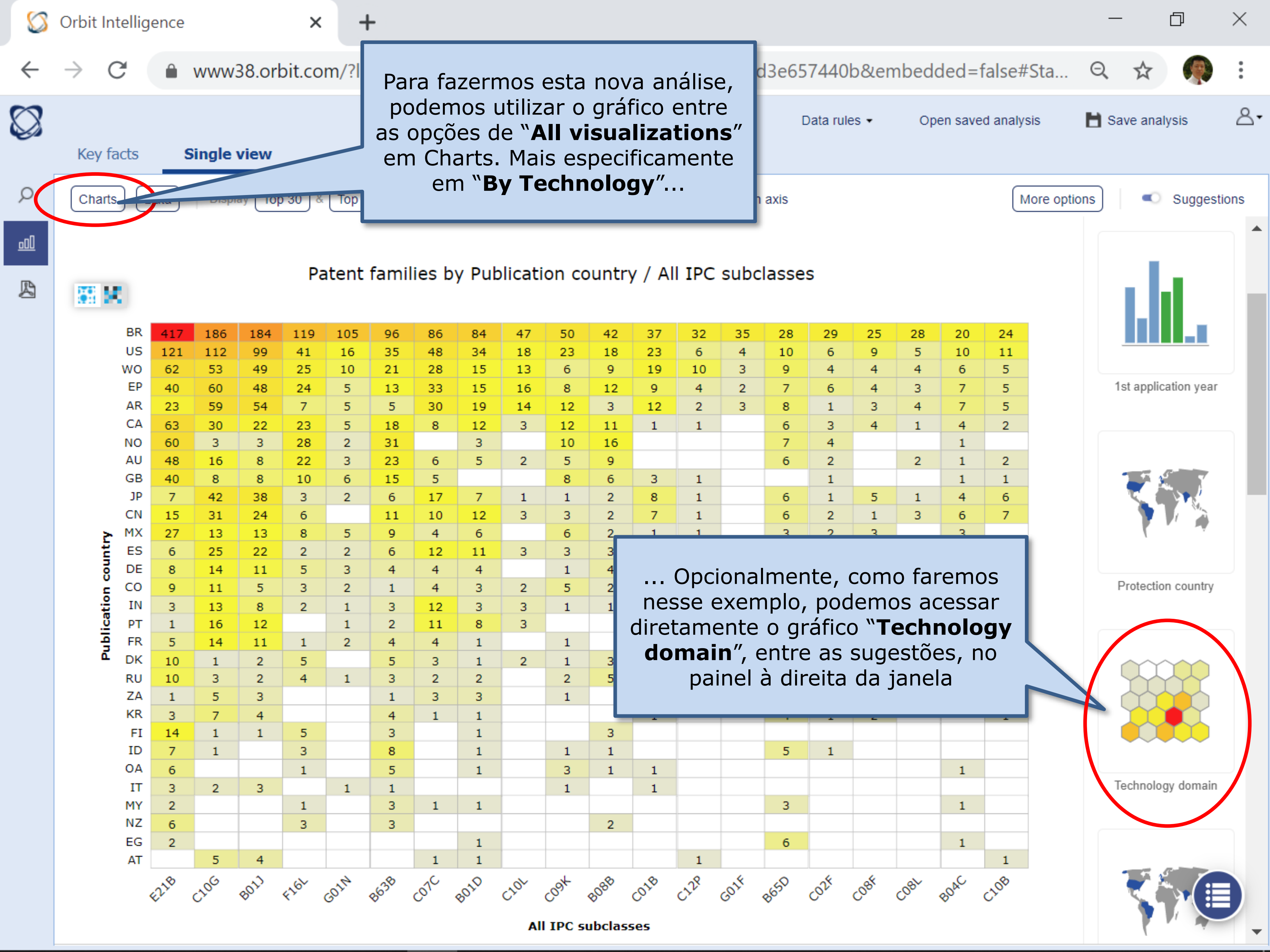
Para fazermos esta nova análise, podemos utilizar o gráfico entre as opções de "**All visualizations**" em Charts. Mais especificamente em "**By Technology**"...


Orbit Intelligence
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Data rules
Open saved analysis
Save analysis
Key facts
Single view
Charts
Display
Top 30
Top
axis
More options
Suggestions
1st application year
Protection country
Technology domain

Patent families by Publication country / All IPC subclasses

Publication country / All IPC subclasses

	E21B	C10G	B01J	F16L	G01N	B63B	C07C	B01D	C10L	C09K	B08B	C01B	C12P	G01F	B65D	C02F	C08F	C08L	B04C	C10B
BR	417	186	184	119	105	96	86	84	47	50	42	37	32	35	28	29	25	28	20	24
US	121	112	99	41	16	35	48	34	18	23	18	23	6	4	10	6	9	5	10	11
WO	62	53	49	25	10	21	28	15	13	6	9	19	10	3	9	4	4	4	6	5
EP	40	60	48	24	5	13	33	15	16	8	12	9	4	2	7	6	4	3	7	5
AR	23	59	54	7	5	5	30	19	14	12	3	12	2	3	8	1	3	4	7	5
CA	63	30	22	23	5	18	8	12	3	12	11	1	1		6	3	4	1	4	2
NO	60	3	3	28	2	31		3		10	16				7	4			1	
AU	48	16	8	22	3	23	6	5	2	5	9				6	2		2	1	2
GB	40	8	8	10	6	15	5			8	6	3	1			1			1	1
JP	7	42	38	3	2	6	17	7	1	1	2	8	1		6	1	5	1	4	6
CN	15	31	24	6		11	10	12	3	3	2	7	1		6	2	1	3	6	7
MX	27	13	13	8	5	9	4	6		6	2	1	1		3	2	3		3	
ES	6	25	22	2	2	6	12	11	3	3	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DE	8	14	11	5	3	4	4	4		1	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CO	9	11	5	3	2	1	4	3	2	5	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN	3	13	8	2	1	3	12	3	3	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PT	1	16	12		1	2	11	8	3			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FR	5	14	11	1	2	4	4	1		1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DK	10	1	2	5		5	3	1	2	1	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RU	10	3	2	4	1	3	2	2		2	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ZA	1	5	3			1	3	3		1		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KR	3	7	4			4	1	1				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FI	14	1	1	5		3		1			3									
ID	7	1		3		8		1		1	1				5	1				
OA	6			1		5		1		3	1	1							1	
IT	3	2	3		1	1				1		1								
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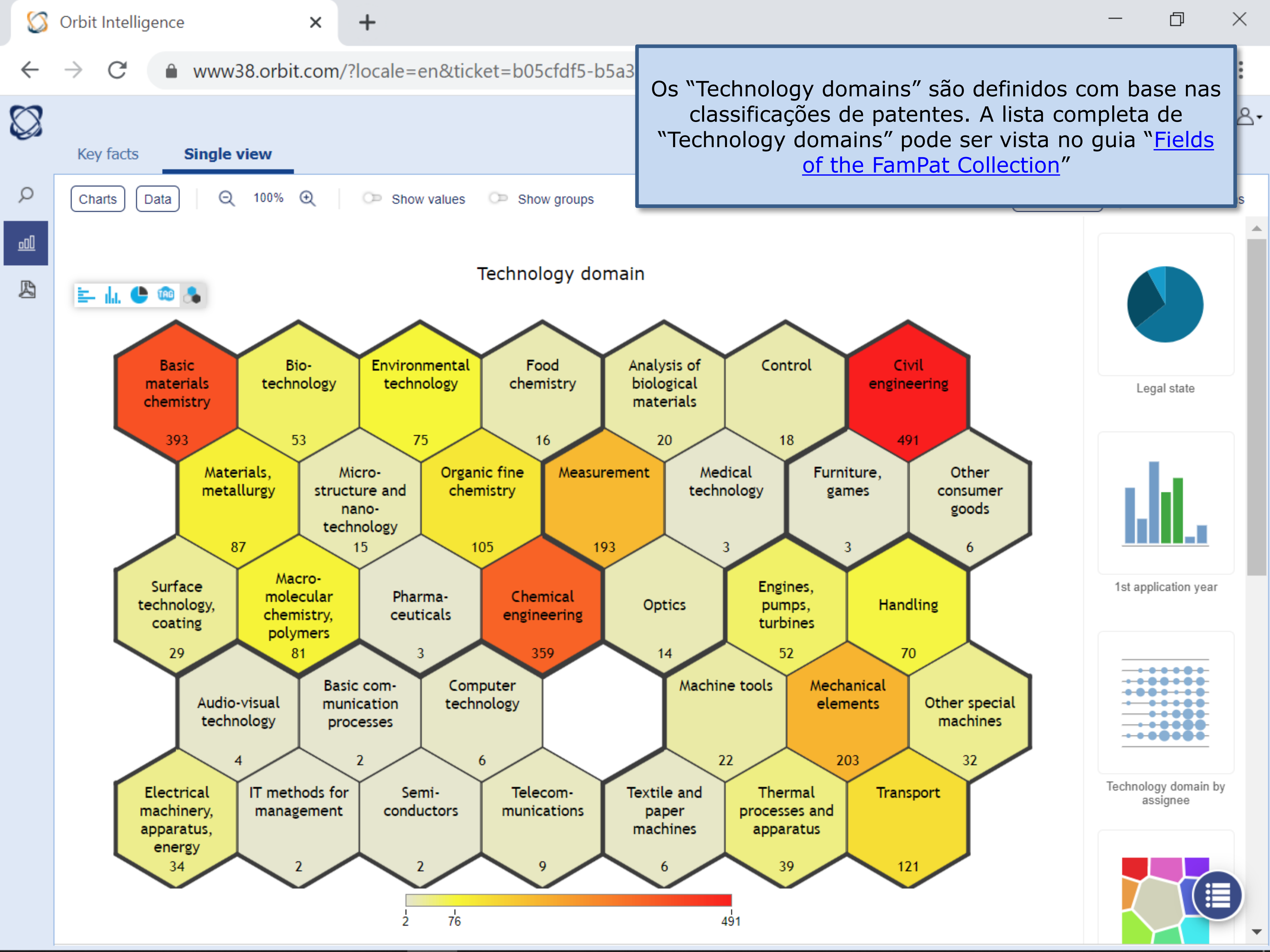
... Opcionalmente, como faremos nesse exemplo, podemos acessar diretamente o gráfico "**Technology domain**", entre as sugestões, no painel à direita da janela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Technology domain
Basic materials chemistry 393
Bio-technology 53
Environmental technology 75
Food chemistry 16
Analysis of biological materials 20
Control 18
Civil engineering 491
Materials, metallurgy 87
Micro-structure and nano-technology 15
Organic fine chemistry 105
Measurement 193
Medical technology 3
Furniture, games 3
Other consumer goods 6
Surface technology, coating 29
Macro-molecular chemistry, polymers 81
Pharma-ceuticals 3
Chemical engineering 359
Optics 14
Engines, pumps, turbines 52
Handling 70
Audio-visual technology 4
Basic com-munication processes 2
Computer technology 6
Machine tools 22
Mechanical elements 203
Other special machines 32
Electrical machinery, apparatus, energy 34
IT methods for management 2
Semi-conductors 2
Telecom-munications 9
Textile and paper machines 6
Thermal processes and apparatus 39
Transport 121
2
76
491
Legal state
1st application year
Technology domain by assignee

Os “Technology domains” são definidos com base nas classificações de patentes. A lista completa de “Technology domains” pode ser vista no guia “[Fields of the FamPat Collection](#)”

List of Technology Domains

Below is the list of 35 technology domains which can be used with the index /TECD.

Analysis of Biological Materials	Audio-Visual Technology
Basic Communication Processes	Basic Materials Chemistry
Biotechnology	Chemical Engineering
Civil Engineering	Computer Technology
Control	Digital Communication
Electrical Machinery, Apparatus, Energy	Engines, Pumps, Turbines
Environmental Technology	Food Chemistry
Furniture, Games	Handling
IT Methods for Management	Machine Tools
Macromolecular Chemistry, Polymers	Materials, Metallurgy
Measurement	Mechanical Elements
Medical Technology	Micro-Structure and Nano-Technology
Optics	Organic Fine Chemistry
Other Consumer Goods	Other Special Machines
Pharmaceuticals	Semiconductors
Surface Technology, Coating	Telecommunications
Textile and Paper Machines	Thermal Processes and Apparatus
Transport	

Oficina 2E

Identifique redes de coinventores

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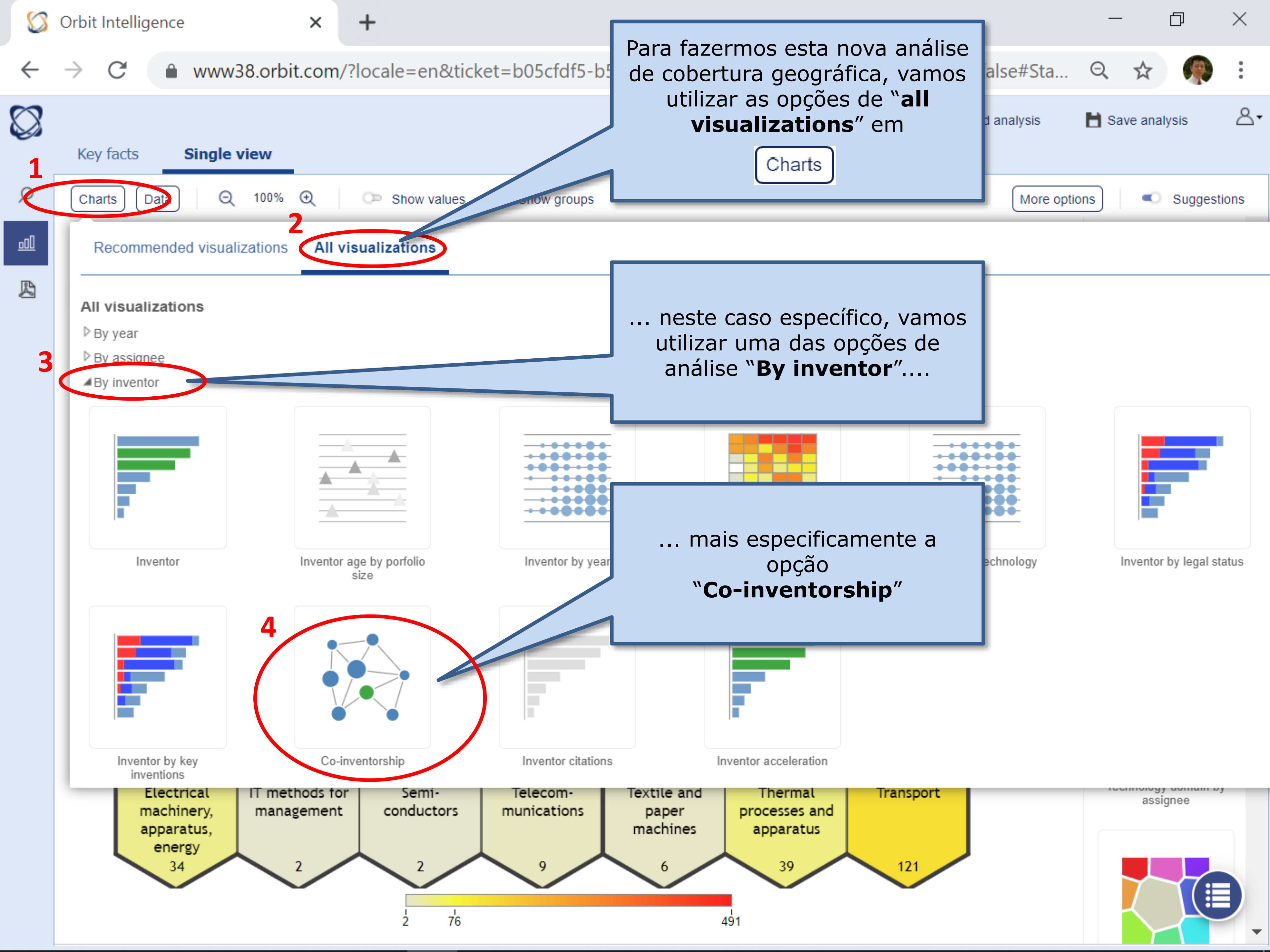
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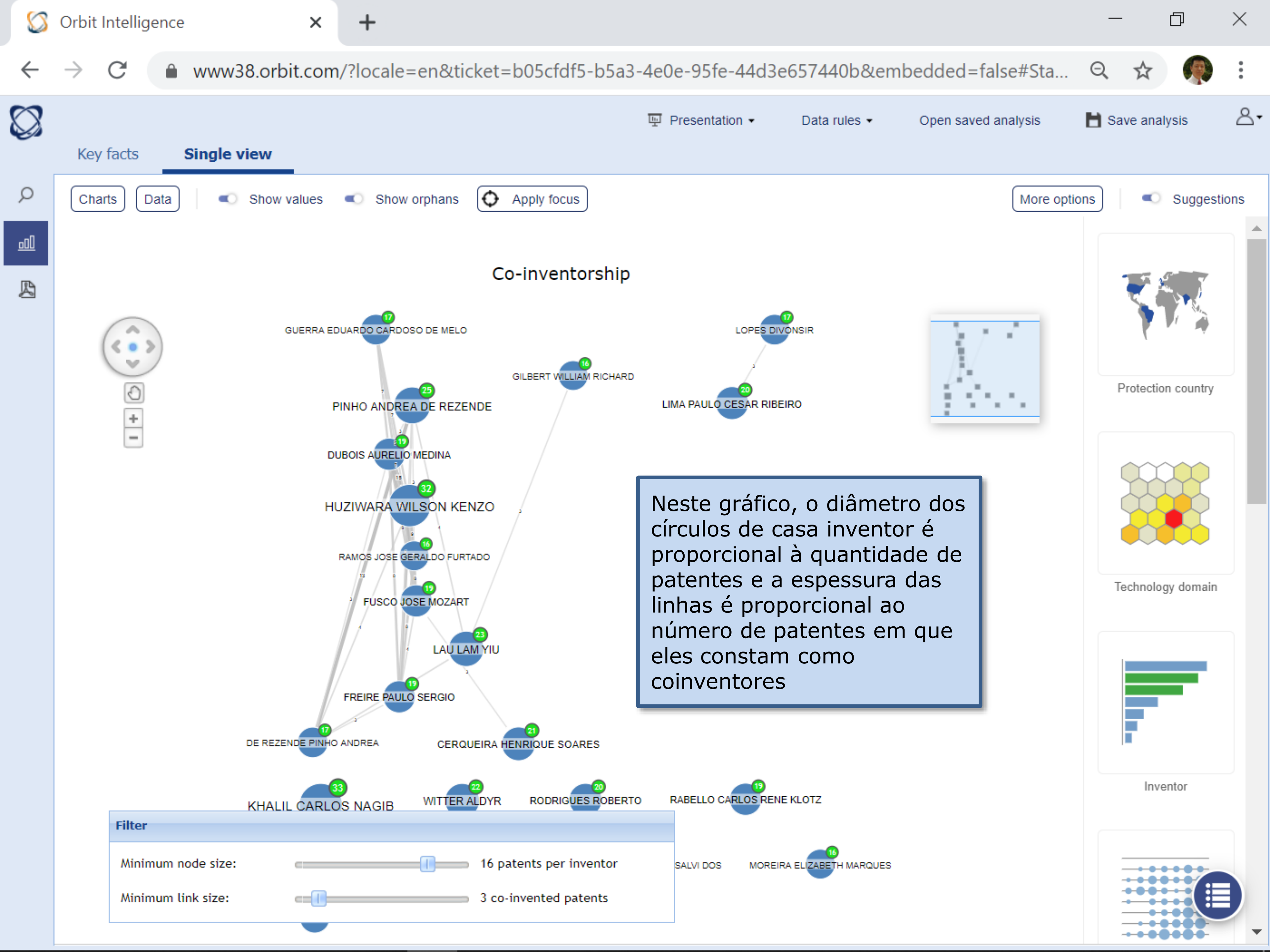
Recommended visualizations
All visualizations
All visualizations
By year
By assignee
3
By inventor
Inventor
Inventor age by porfolio size
Inventor by year
echnology
Inventor by legal status
4
Inventor by key inventions
Co-inventorship
Inventor citations
Inventor acceleration
Electrical machinery, apparatus, energy
34
IT methods for management
2
Semi-conductors
2
Telecom-munications
9
Textile and paper machines
6
Thermal processes and apparatus
39
Transport
121
2
76
491
technology domain by assignee

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de "**all visualizations**" em Charts

... neste caso específico, vamos utilizar uma das opções de análise "**By inventor**"....

... mais especificamente a opção "**Co-inventorship**"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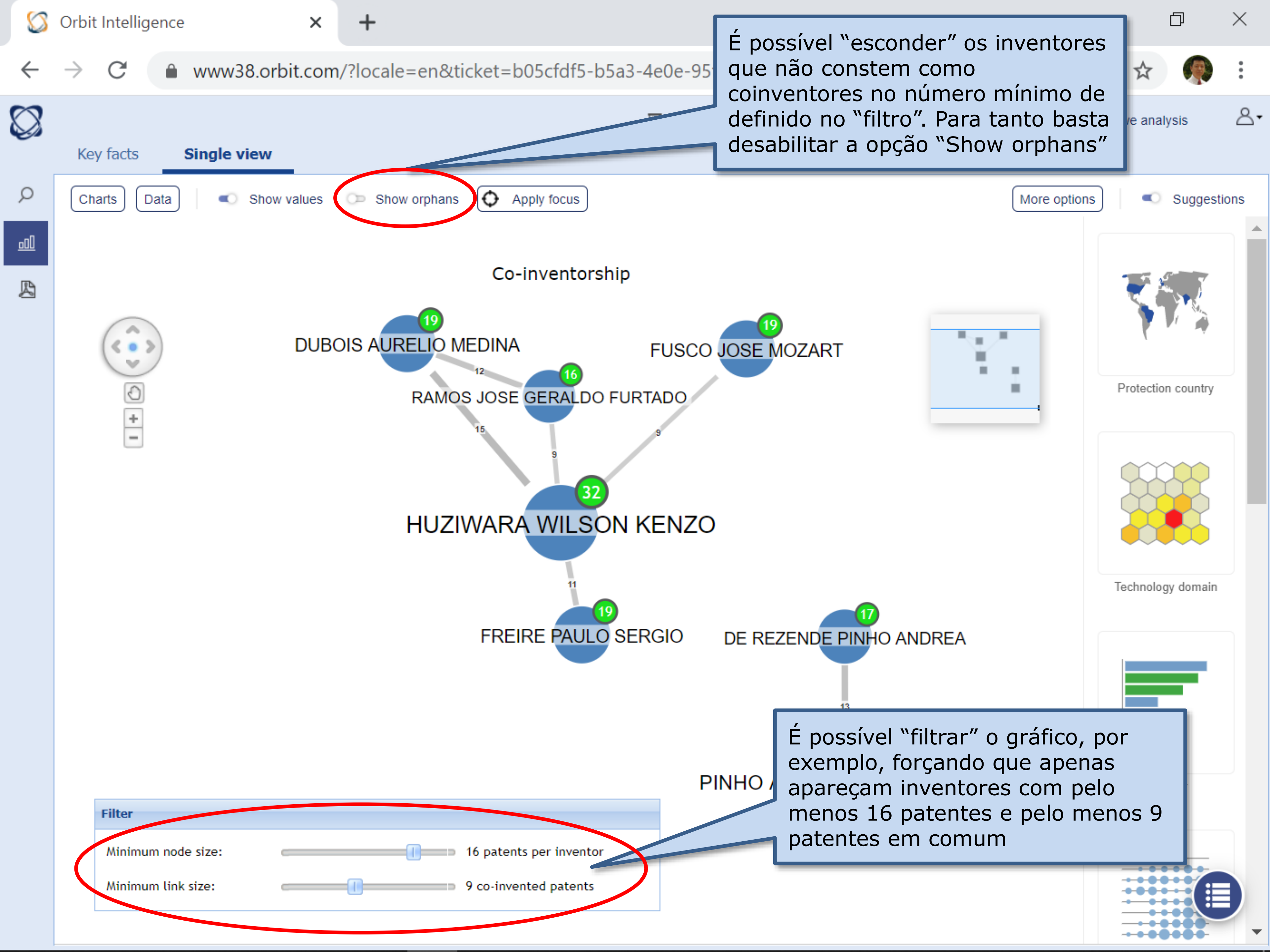
Co-inventorship
GUERRA EDUARDO CARDOSO DE MELO
LOPES DIVONSIR
GILBERT WILLIAM RICHARD
PINHO ANDREA DE REZENDE
LIMA PAULO CESAR RIBEIRO
DUBOIS AURELIO MEDINA
HUZIWARA WILSON KENZO
RAMOS JOSE GERALDO FURTADO
FUSCO JOSE MOZART
LAU LAM YIU
FREIRE PAULO SERGIO
DE REZENDE PINHO ANDREA
CERQUEIRA HENRIQUE SOARES
KHALIL CARLOS NAGIB
WITTER ALDYR
RODRIGUES ROBERTO
RABELLO CARLOS RENE KLOTZ
SALVI DOS
MOREIRA ELIZABETH MARQUES
Protection country
Technology domain
Inventor

Neste gráfico, o diâmetro dos círculos de casa inventor é proporcional à quantidade de patentes e a espessura das linhas é proporcional ao número de patentes em que eles constam como coinventores

Filter

Minimum node size: 16 patents per inventor

Minimum link size: 3 co-invented patents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Suggestions
Co-inventorship
DUBOIS AURELIO MEDINA
19
FUSCO JOSE MOZART
19
RAMOS JOSE GERALDO FURTADO
16
12
15
9
9
HUZIWARA WILSON KENZO
32
11
FREIRE PAULO SERGIO
19
DE REZENDE PINHO ANDREA
17
13
PINHO A
Protection country
Technology domain

É possível "esconder" os inventores que não constem como coinventores no número mínimo de definido no "filtro". Para tanto basta desabilitar a opção "Show orphans"

Filter

Minimum node size: 16 patents per inventor

Minimum link size: 9 co-invented patents

É possível "filtrar" o gráfico, por exemplo, forçando que apenas apareçam inventores com pelo menos 16 patentes e pelo menos 9 patentes em comum

Oficina 2F

Identifique as empresas com maior número de cotitularidades de patentes com a Petrobras

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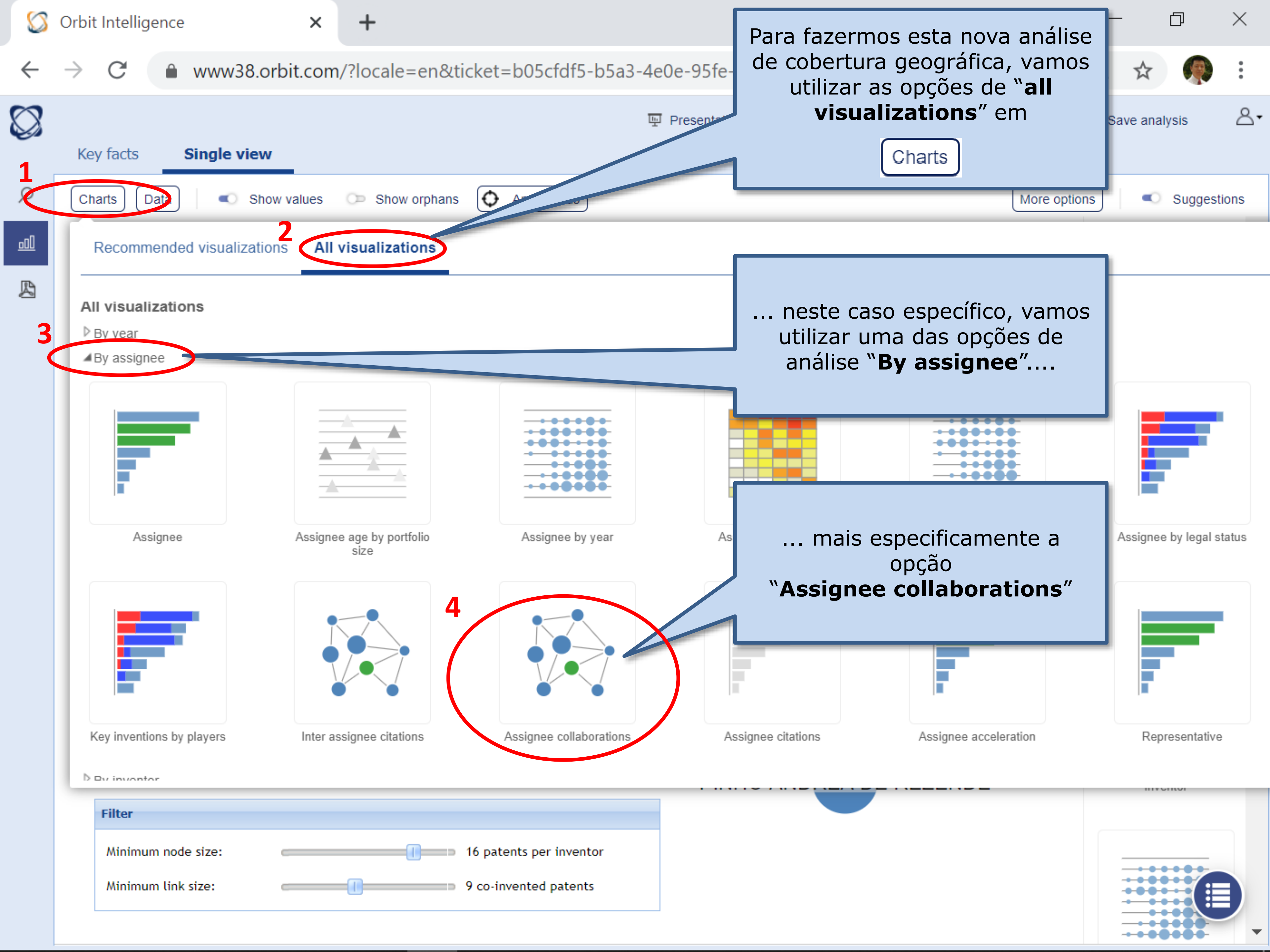
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More options
Suggestions
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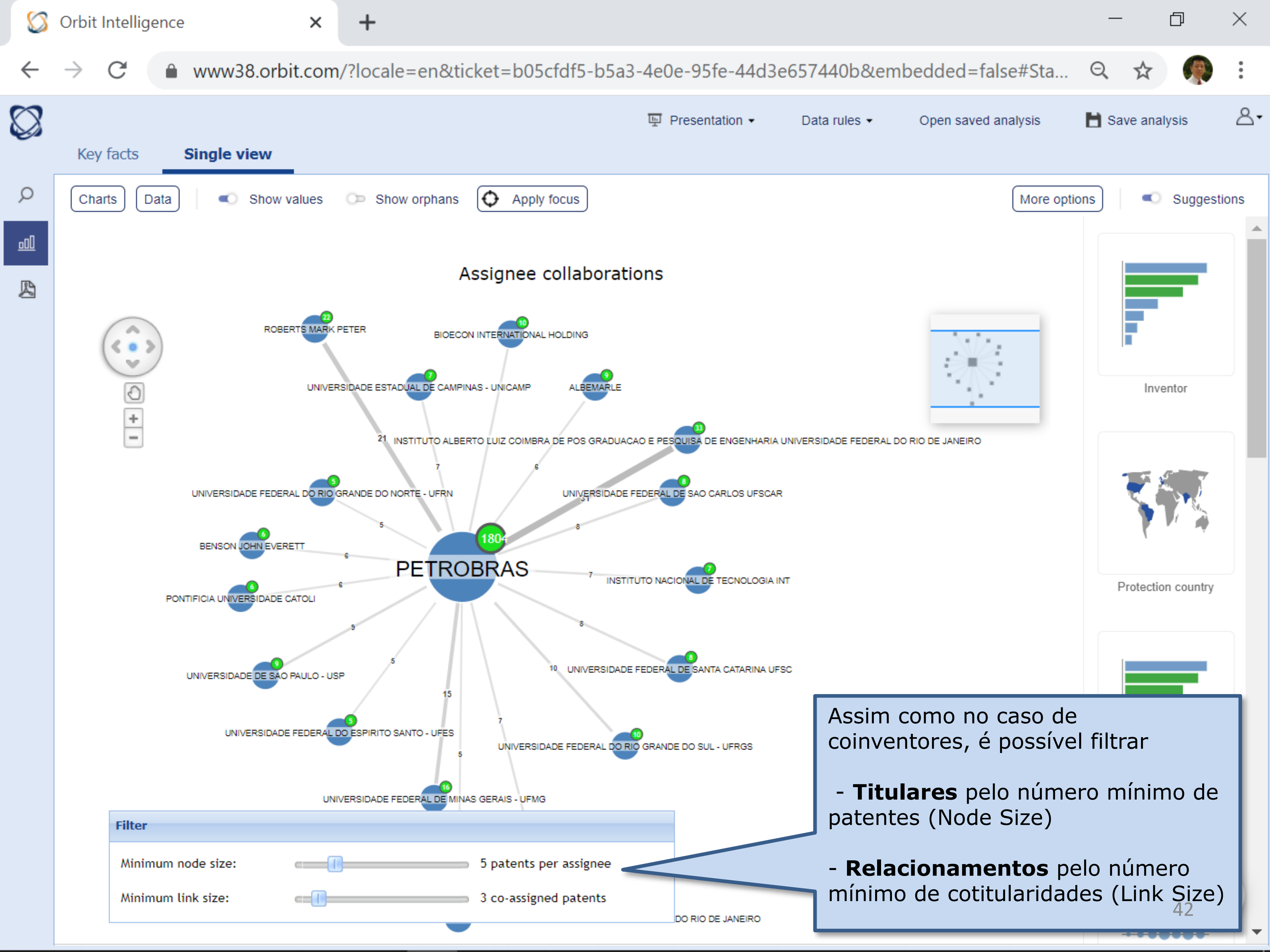
Recommended visualizations
All visualizations
All visualizations
3
By year
By assignee
Assignee
Assignee age by portfolio size
Assignee by year
Assignee by legal status
4
Key inventions by players
Inter assignee citations
Assignee collaborations
Assignee citations
Assignee acceleration
Representative
By inventor
Filter
Minimum node size:
16 patents per inventor
Minimum link size:
9 co-invented patents

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de "**all visualizations**" em

Charts

… neste caso específico, vamos utilizar uma das opções de análise "**By assignee**"….

… mais especificamente a opção "**Assignee collaborations**"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Assignee collaborations
ROBERTS MARK PETER
BIOECON INTERNATIONAL HOLDING
UNIVERSIDADE ESTADUAL DE CAMPINAS - UNICAMP
ALBEMARLE
INSTITUTO ALBERTO LUIZ COIMBRA DE POS GRADUACAO E PESQUISA DE ENGENHARIA UNIVERSIDADE FEDERAL DO RIO DE JANEIRO
UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE - UFRN
UNIVERSIDADE FEDERAL DE SAO CARLOS UFSCAR
BENSON JOHN EVERETT
PETROBRAS
1804
PONTIFICIA UNIVERSIDADE CATOLI
INSTITUTO NACIONAL DE TECNOLOGIA INT
UNIVERSIDADE DE SAO PAULO - USP
UNIVERSIDADE FEDERAL DE SANTA CATARINA UFSC
UNIVERSIDADE FEDERAL DO ESPIRITO SANTO - UFES
UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS
UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG
DO RIO DE JANEIRO
Inventor
Protection country

Filter

Minimum node size: 5 patents per assignee

Minimum link size: 3 co-assigned patents

Assim como no caso de coinventores, é possível filtrar

- **Titulares** pelo número mínimo de patentes (Node Size)

- **Relacionamentos** pelo número mínimo de cotitularidades (Link Size)

Oficina 2G

Refine o mapeamento, agrupando nomes de titulares (Data Rules).

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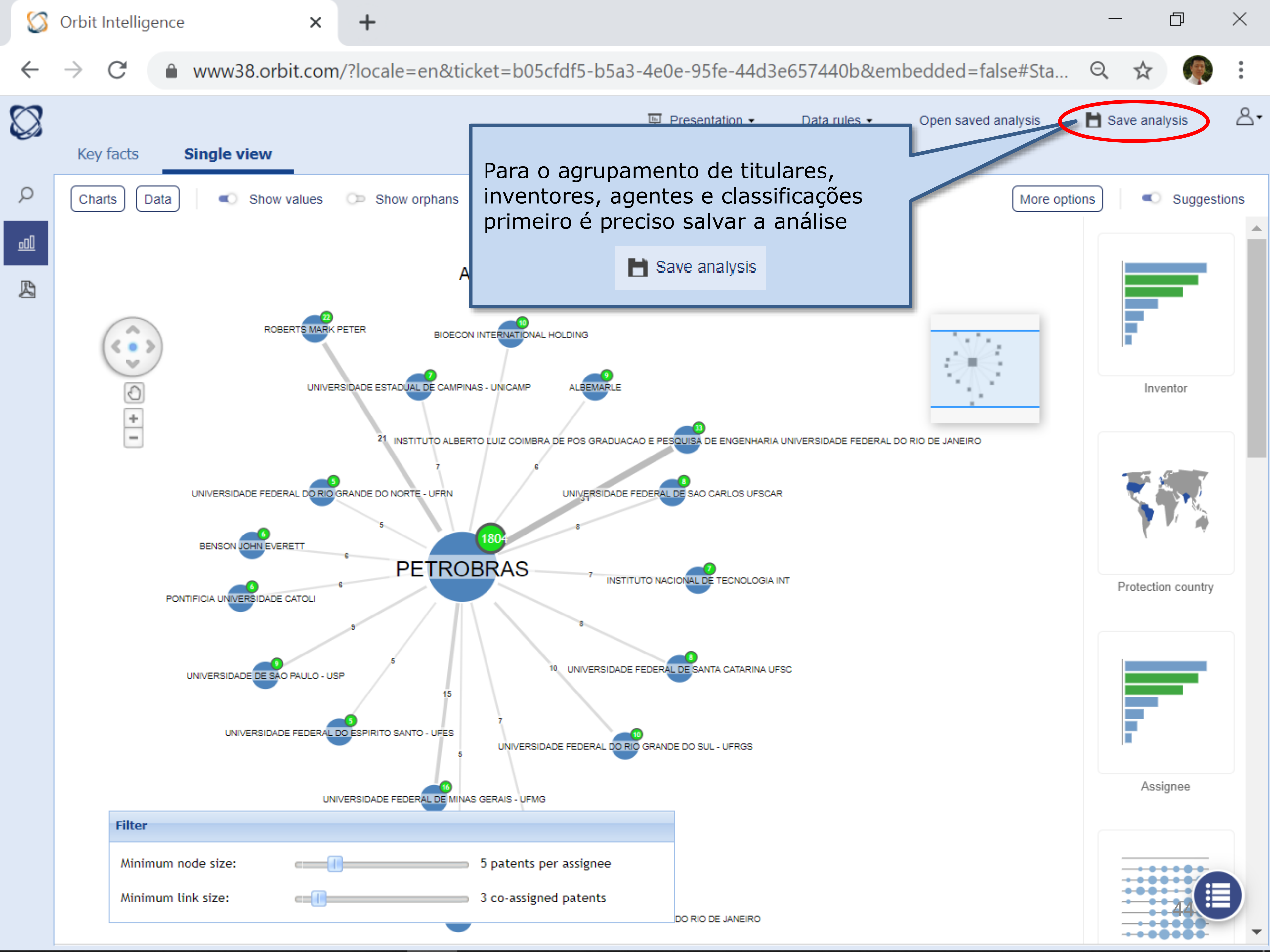

Para o agrupamento de titulares, inventores, agentes e classificações primeiro é preciso salvar a análise

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UNIVERSIDADE FEDERAL DE SAO CARLOS UFSCAR
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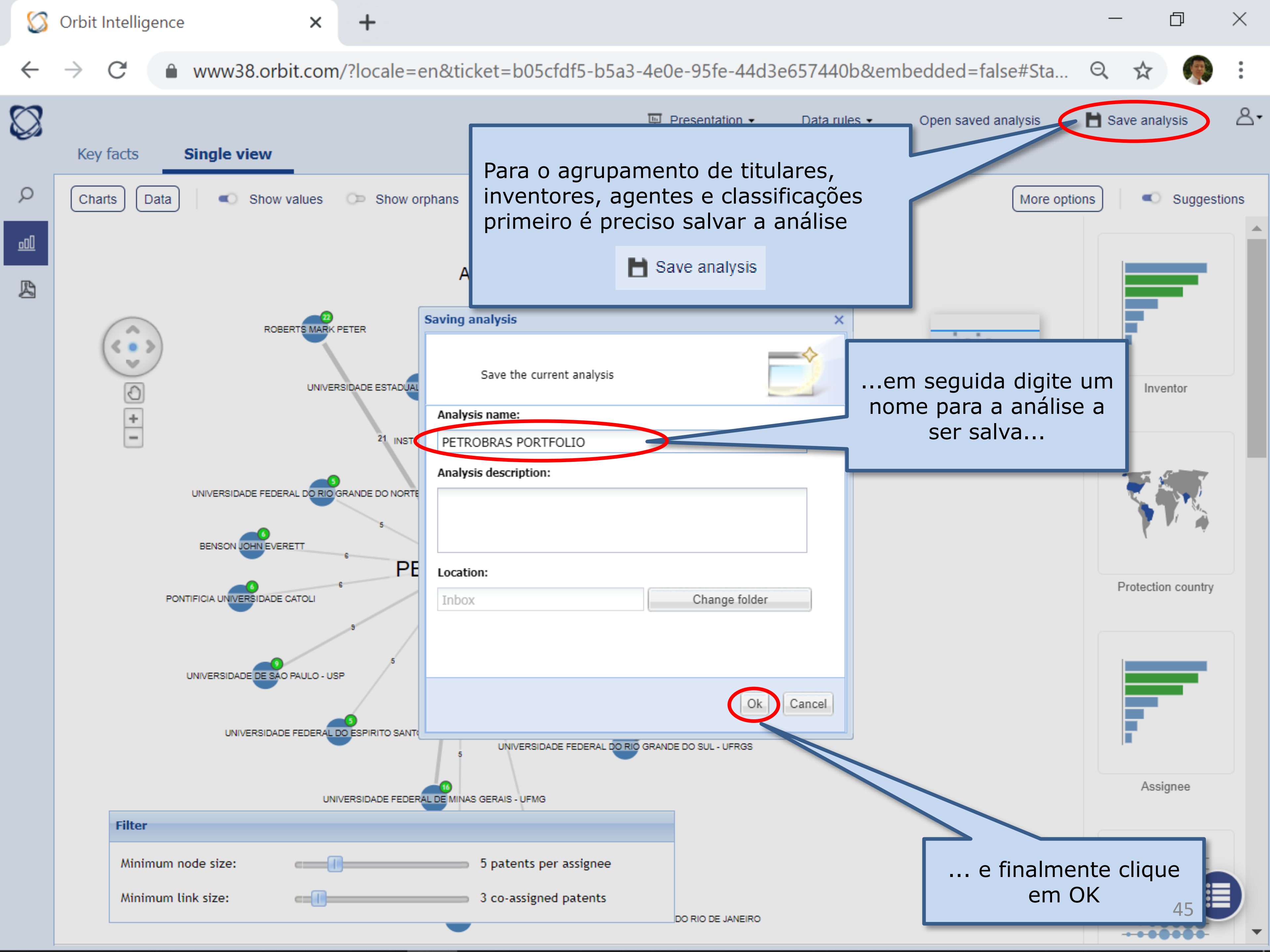
UNIVERSIDADE FEDERAL DO ESPIRITO SANTO - UFES
UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS
UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG
DO RIO DE JANEIRO
Inventor
Protection country
Assignee

Filter

Minimum node size: 5 patents per assignee

Minimum link size: 3 co-assigned patents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UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS
UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG
DO RIO DE JANEIRO
Inventor
Protection country
Assignee

Para o agrupamento de titulares, inventores, agentes e classificações primeiro é preciso salvar a análise

Save analysis

Saving analysis

Save the current analysis

Analysis name: PETROBRAS PORTFOLIO

Analysis description:

Location: Inbox

Change folder

Ok Cancel

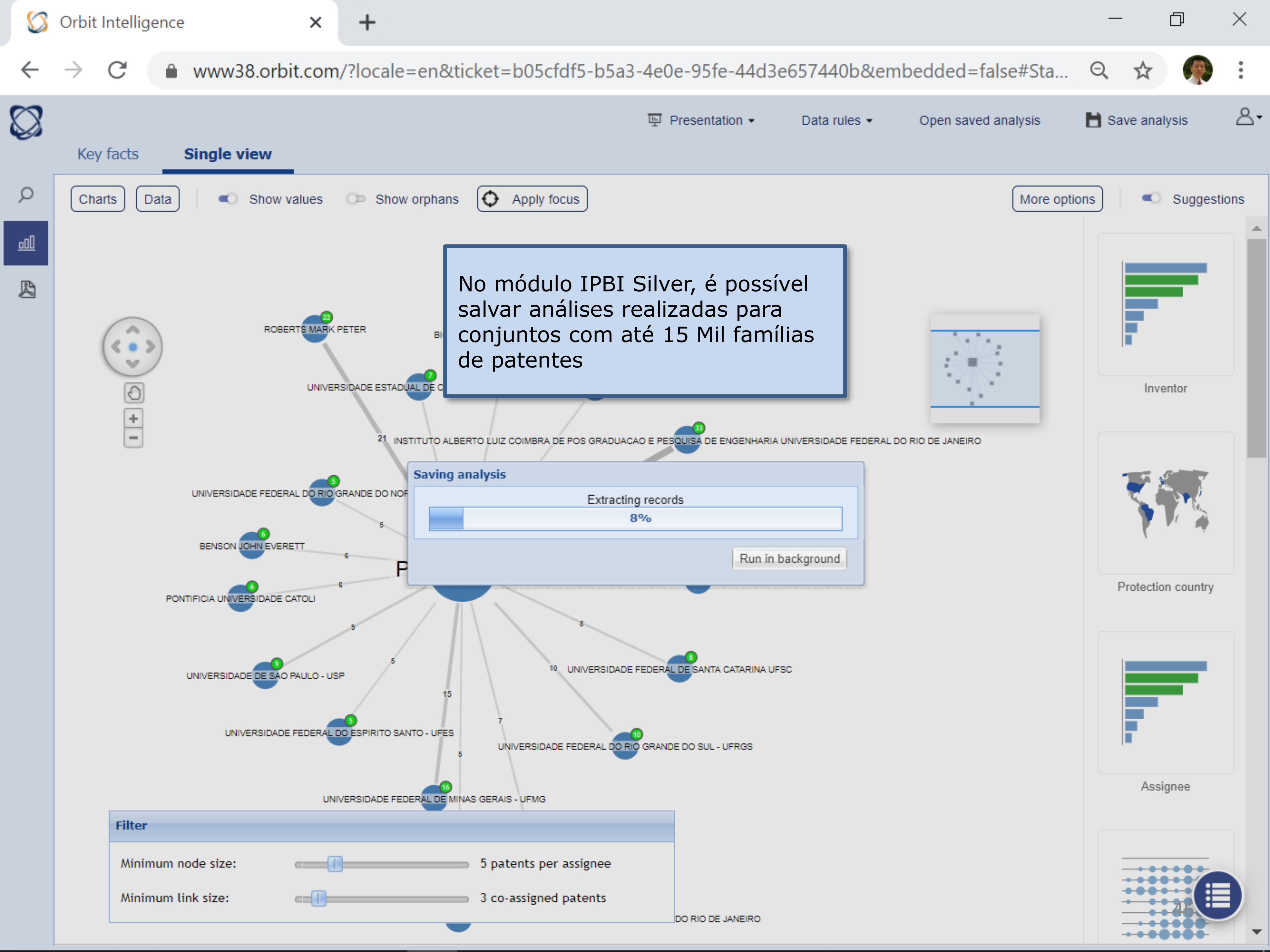
...em seguida digite um nome para a análise a ser salva...

... e finalmente clique em OK

Filter

Minimum node size: 5 patents per assignee

Minimum link size: 3 co-assigned patents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UNIVERSIDADE FEDERAL DO ESPIRITO SANTO - UFES
UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS
UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG
DO RIO DE JANEIRO
Inventor
Protection country
Assignee

No módulo IPBI Silver, é possível salvar análises realizadas para conjuntos com até 15 Mil famílias de patentes

Saving analysis

Extracting records

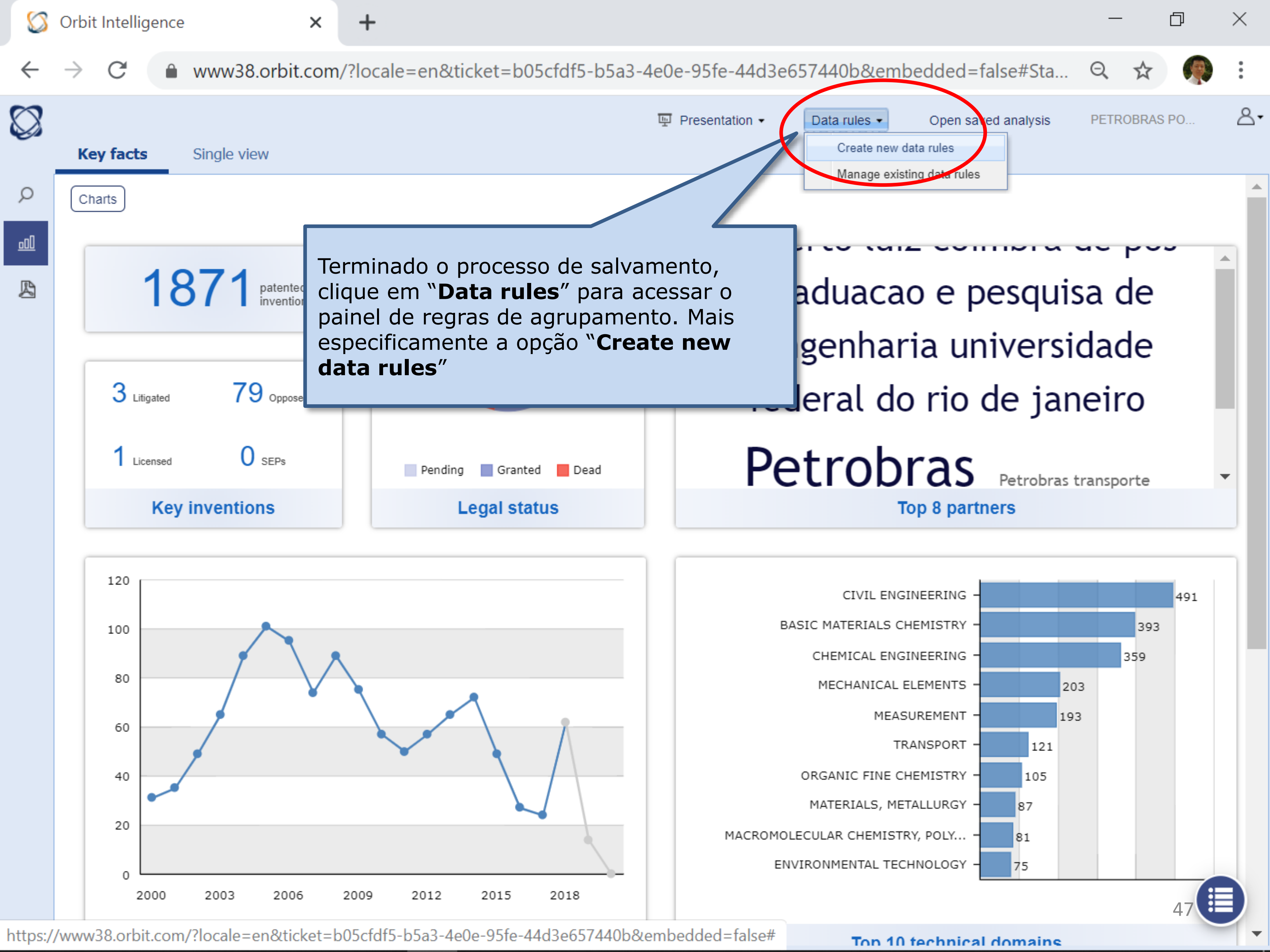
8%

Run in background

Filter

Minimum node size: 5 patents per assignee

Minimum link size: 3 co-assigned patents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Key facts
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1871 patented inventions
3 Litigated
79 Opposed
1 Licensed
0 SEPs
Key inventions
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Petrobras
Petrobras transporte
Top 8 partners
120
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2012
2015
2018
CIVIL ENGINEERING 491
BASIC MATERIALS CHEMISTRY 393
CHEMICAL ENGINEERING 359
MECHANICAL ELEMENTS 203
MEASUREMENT 193
TRANSPORT 121
ORGANIC FINE CHEMISTRY 105
MATERIALS, METALLURGY 87
MACROMOLECULAR CHEMISTRY, POLY... 81
ENVIRONMENTAL TECHNOLOGY 75
Top 10 technical domains
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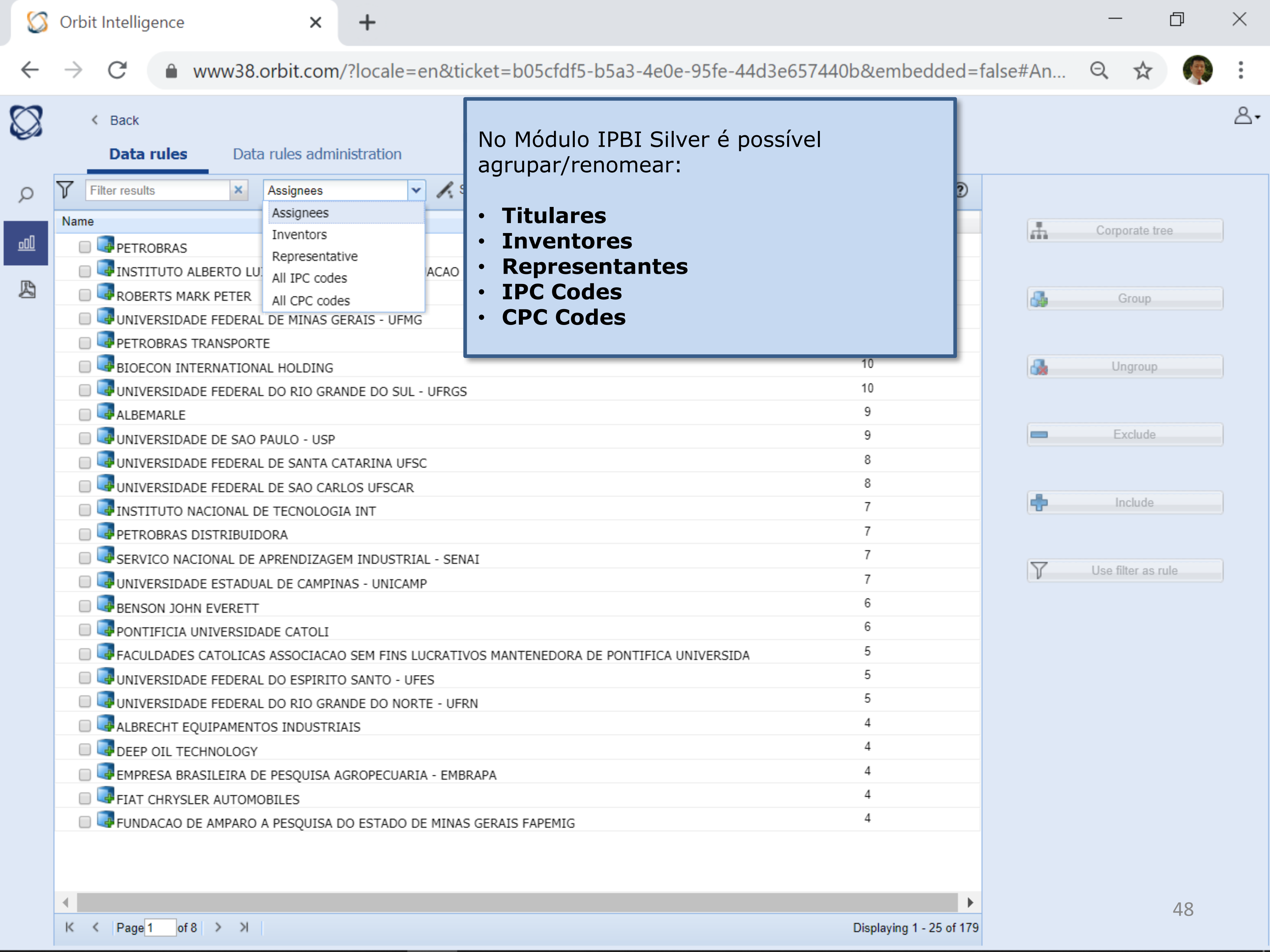
Terminado o processo de salvamento, clique em “**Data rules**” para acessar o painel de regras de agrupamento. Mais especificamente a opção “**Create new data rules**”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Data rules
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Assignees
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Inventors
Representative
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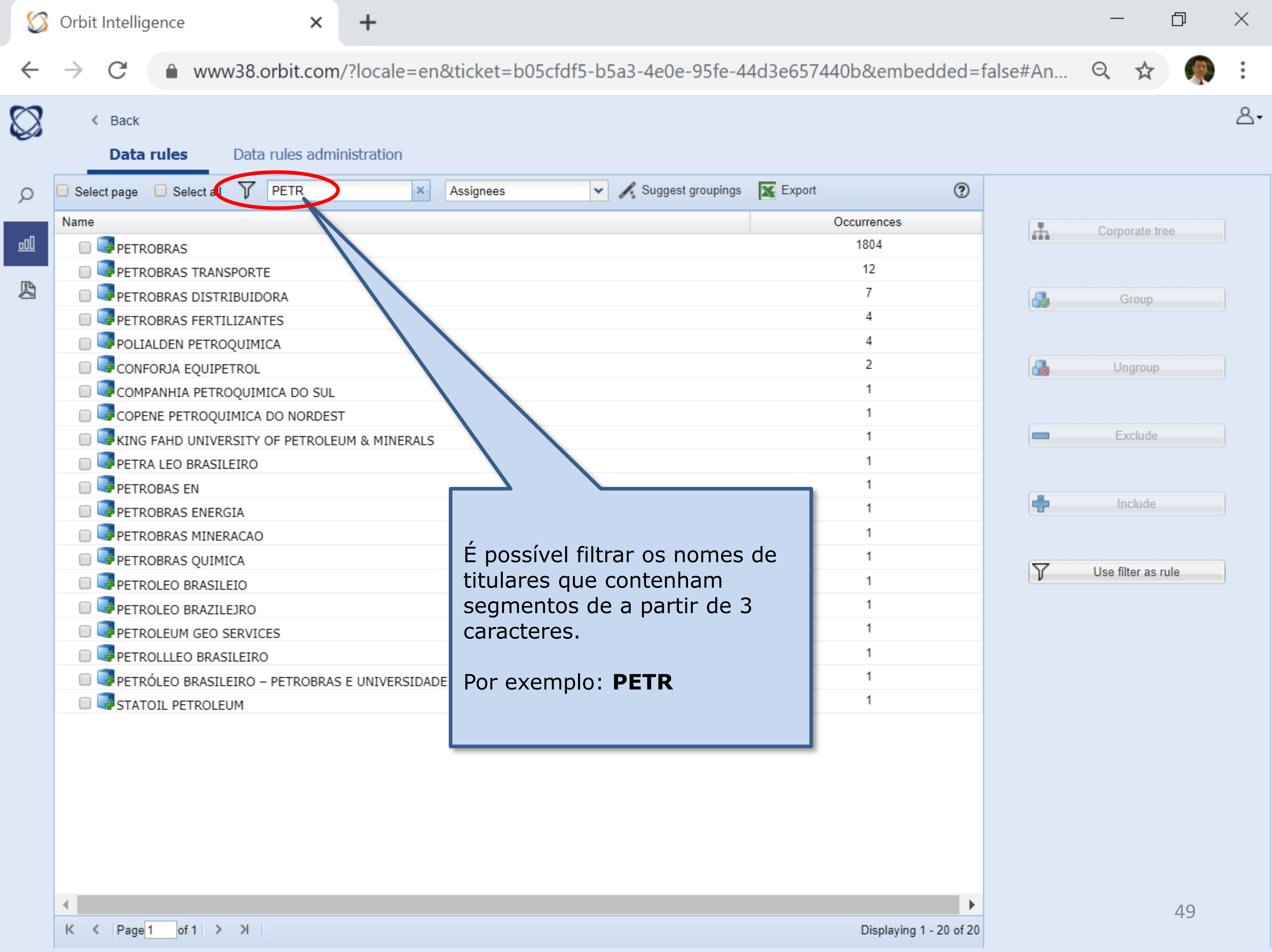
Ungroup
Exclude
Include
Use filter as rule
Page 1 of 8
Displaying 1 - 25 of 179

No Módulo IPBI Silver é possível agrupar/renomear:

- **Titulares**
- **Inventores**
- **Representantes**
- **IPC Codes**
- **CPC Codes**

Name	
☐ PETROBRAS	
☐ INSTITUTO ALBERTO LU ACAO	
☐ ROBERTS MARK PETER	
☐ UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG	
☐ PETROBRAS TRANSPORTE	
☐ BIOECON INTERNATIONAL HOLDING	10
☐ UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS	10
☐ ALBEMARLE	9
☐ UNIVERSIDADE DE SAO PAULO - USP	9
☐ UNIVERSIDADE FEDERAL DE SANTA CATARINA UFSC	8
☐ UNIVERSIDADE FEDERAL DE SAO CARLOS UFSCAR	8
☐ INSTITUTO NACIONAL DE TECNOLOGIA INT	7
☐ PETROBRAS DISTRIBUIDORA	7
☐ SERVICO NACIONAL DE APRENDIZAGEM INDUSTRIAL - SENAI	7
☐ UNIVERSIDADE ESTADUAL DE CAMPINAS - UNICAMP	7
☐ BENSON JOHN EVERETT	6
☐ PONTIFICIA UNIVERSIDADE CATOLI	6
☐ FACULDADES CATOLICAS ASSOCIACAO SEM FINS LUCRATIVOS MANTENEDORA DE PONTIFICA UNIVERSIDA	5
☐ UNIVERSIDADE FEDERAL DO ESPIRITO SANTO - UFES	5
☐ UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE - UFRN	5
☐ ALBRECHT EQUIPAMENTOS INDUSTRIAIS	4
☐ DEEP OIL TECHNOLOGY	4
☐ EMPRESA BRASILEIRA DE PESQUISA AGROPECUARIA - EMBRAPA	4
☐ FIAT CHRYSLER AUTOMOBILES	4
☐ FUNDACAO DE AMPARO A PESQUISA DO ESTADO DE MINAS GERAIS FAPEMIG	4



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Filter: PETR

Assignees

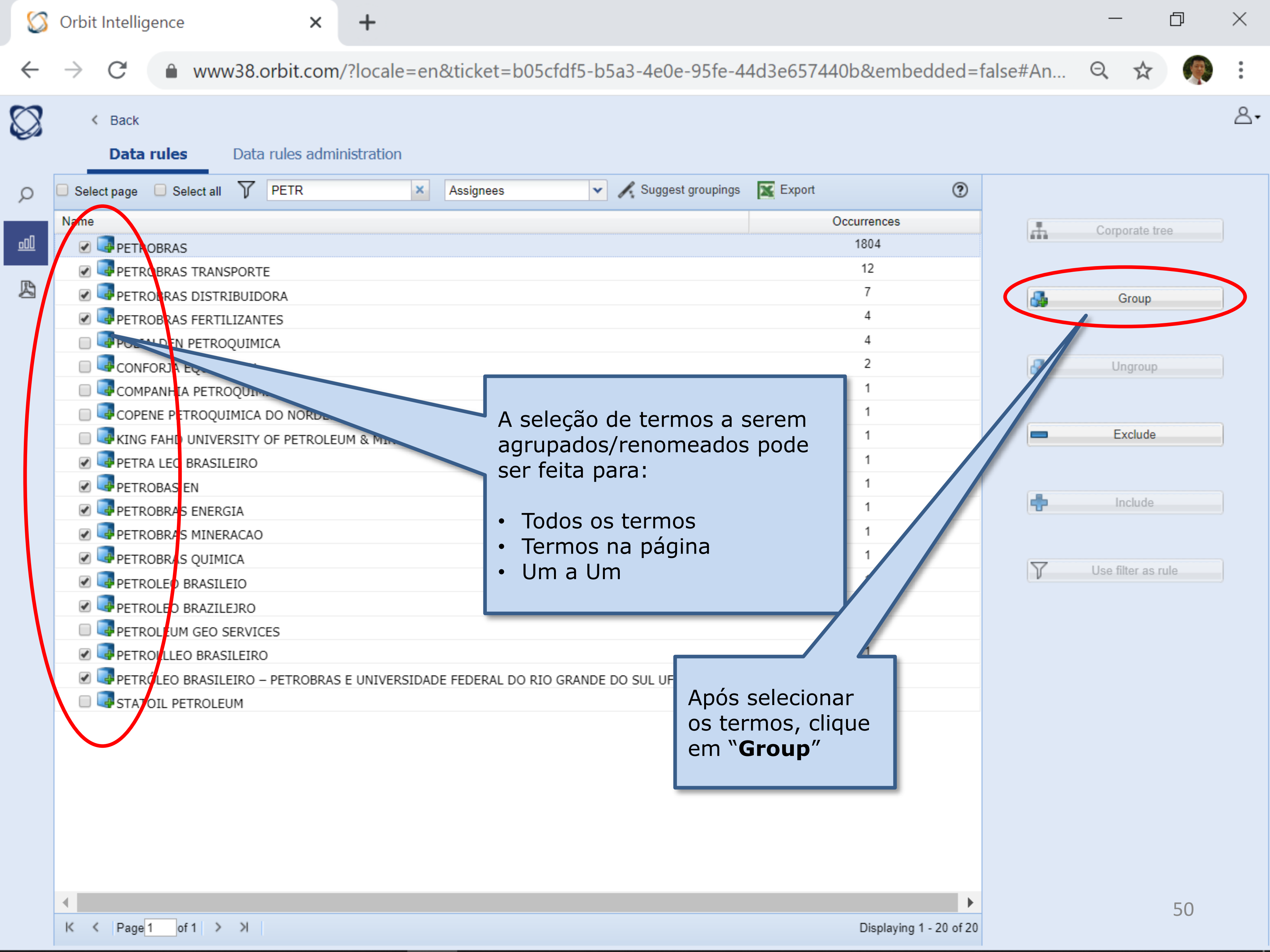
Name	Occurrences
☐ PETROBRAS	1804
☐ PETROBRAS TRANSPORTE	12
☐ PETROBRAS DISTRIBUIDORA	7
☐ PETROBRAS FERTILIZANTES	4
☐ POLIALDEN PETROQUIMICA	4
☐ CONFORJA EQUIPETROL	2
☐ COMPANHIA PETROQUIMICA DO SUL	1
☐ COPENE PETROQUIMICA DO NORDEST	1
☐ KING FAHD UNIVERSITY OF PETROLEUM & MINERALS	1
☐ PETRA LEO BRASILEIRO	1
☐ PETROBAS EN	1
☐ PETROBRAS ENERGIA	1
☐ PETROBRAS MINERACAO	1
☐ PETROBRAS QUIMICA	1
☐ PETROLEO BRASILEIO	1
☐ PETROLEO BRAZILEJRO	1
☐ PETROLEUM GEO SERVICES	1
☐ PETROLLLEO BRASILEIRO	1
☐ PETRÓLEO BRASILEIRO – PETROBRAS E UNIVERSIDADE	1
☐ STATOIL PETROLEUM	1

Page 1 of 1

Displaying 1 - 20 of 20

É possível filtrar os nomes de titulares que contenham segmentos de a partir de 3 caracteres.

Por exemplo: **PETR**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Page 1 of 1
Displaying 1 - 20 of 20

	Name	Occurrences
☑	PETROBRAS	1804
☑	PETROBRAS TRANSPORTE	12
☑	PETROBRAS DISTRIBUIDORA	7
☑	PETROBRAS FERTILIZANTES	4
☐	PO[illegible]EN PETROQUIMICA	4
☐	CONFORJA EQ[illegible]	2
☐	COMPANHIA PETROQUI[illegible]	1
☐	COPENE PETROQUIMICA DO NORDE[illegible]	1
☐	KING FAHD UNIVERSITY OF PETROLEUM & MI[illegible]	1
☑	PETRA LEO BRASILEIRO	1
☑	PETROBAS EN	1
☑	PETROBRAS ENERGIA	1
☑	PETROBRAS MINERACAO	1
☑	PETROBRAS QUIMICA	1
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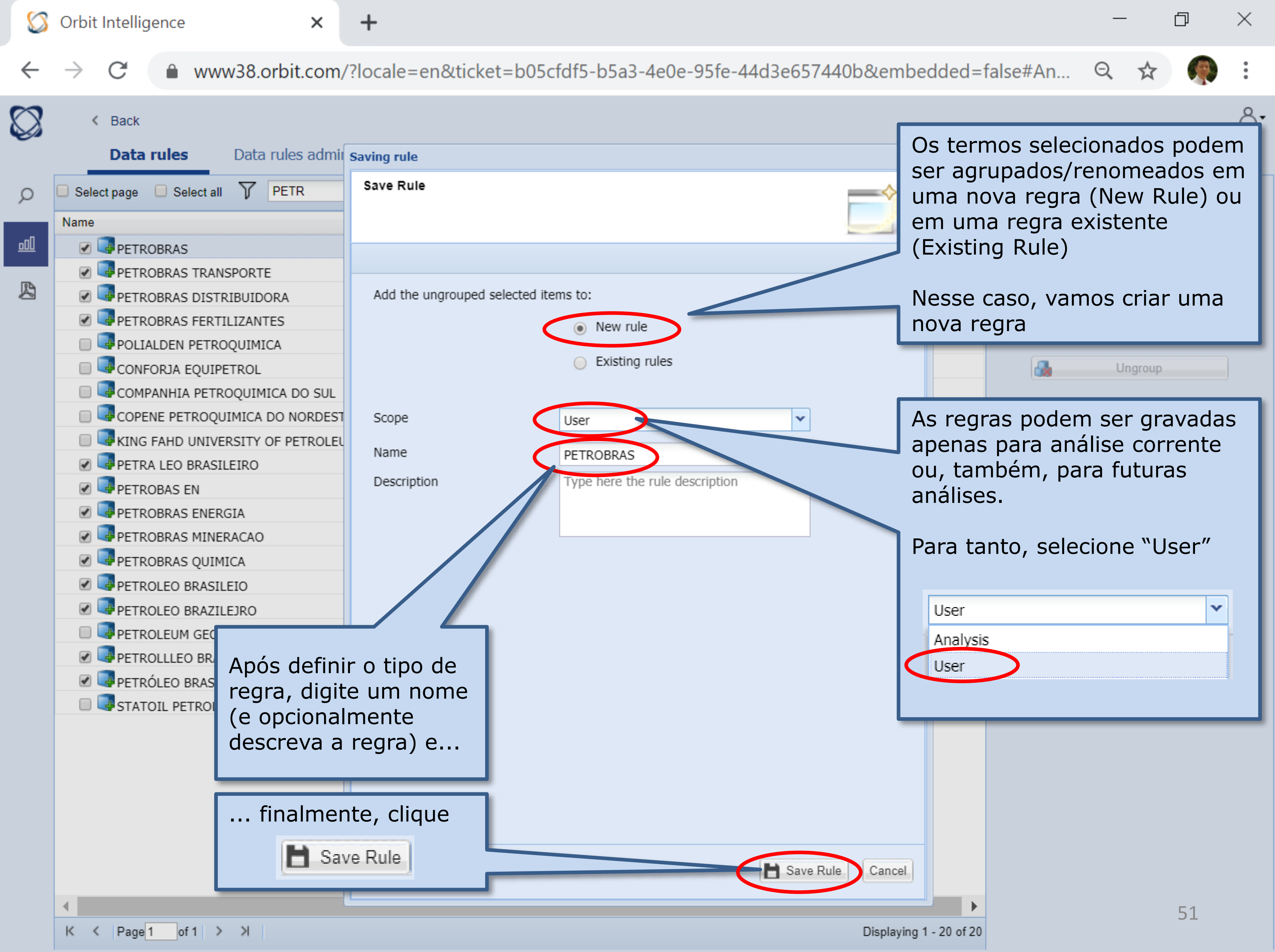
☑	PETROLEO BRAZILEJRO	
☐	PETROLEUM GEO SERVICES	
☑	PETROLLEO BRASILEIRO	1
☑	PETRÓLEO BRASILEIRO – PETROBRAS E UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL UF	
☐	STATOIL PETROLEUM	

A seleção de termos a serem agrupados/renomeados pode ser feita para:

- Todos os termos
- Termos na página
- Um a Um

Após selecionar os termos, clique em "**Group**"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PETR
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Page 1 of 1
Displaying 1 - 20 of 20

- ☑ PETROBRAS
- ☑ PETROBRAS TRANSPORTE
- ☑ PETROBRAS DISTRIBUIDORA
- ☑ PETROBRAS FERTILIZANTES
- ☐ POLIALDEN PETROQUIMICA
- ☐ CONFORJA EQUIPETROL
- ☐ COMPANHIA PETROQUIMICA DO SUL
- ☐ COPENE PETROQUIMICA DO NORDEST
- ☐ KING FAHD UNIVERSITY OF PETROLEU
- ☑ PETRA LEO BRASILEIRO
- ☑ PETROBAS EN
- ☑ PETROBRAS ENERGIA
- ☑ PETROBRAS MINERACAO
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- ☑ PETROLEO BRAZILEJRO
- ☐ PETROLEUM GEC
- ☑ PETROLLLEO BR
- ☑ PETRÓLEO BRAS
- ☐ STATOIL PETRO

Saving rule

Save Rule

Add the ungrouped selected items to:

● New rule

○ Existing rules

Scope: User

Name: PETROBRAS

Description: Type here the rule description

Save Rule
Cancel

Os termos selecionados podem ser agrupados/renomeados em uma nova regra (New Rule) ou em uma regra existente (Existing Rule)

Nesse caso, vamos criar uma nova regra

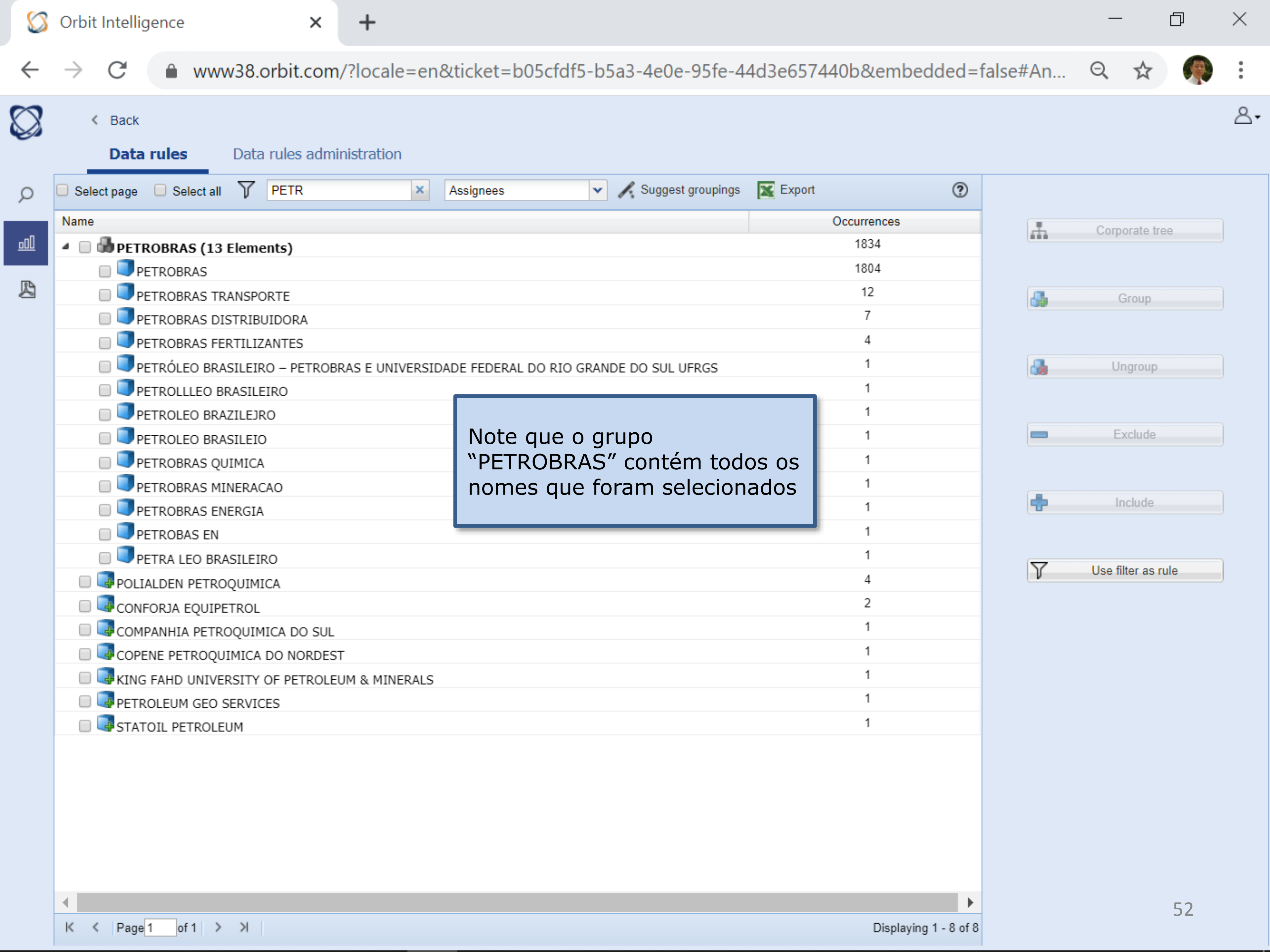
As regras podem ser gravadas apenas para análise corrente ou, também, para futuras análises.

Para tanto, selecione "User"

User
Analysis
User

Após definir o tipo de regra, digite um nome (e opcionalmente descreva a regra) e...

... finalmente, clique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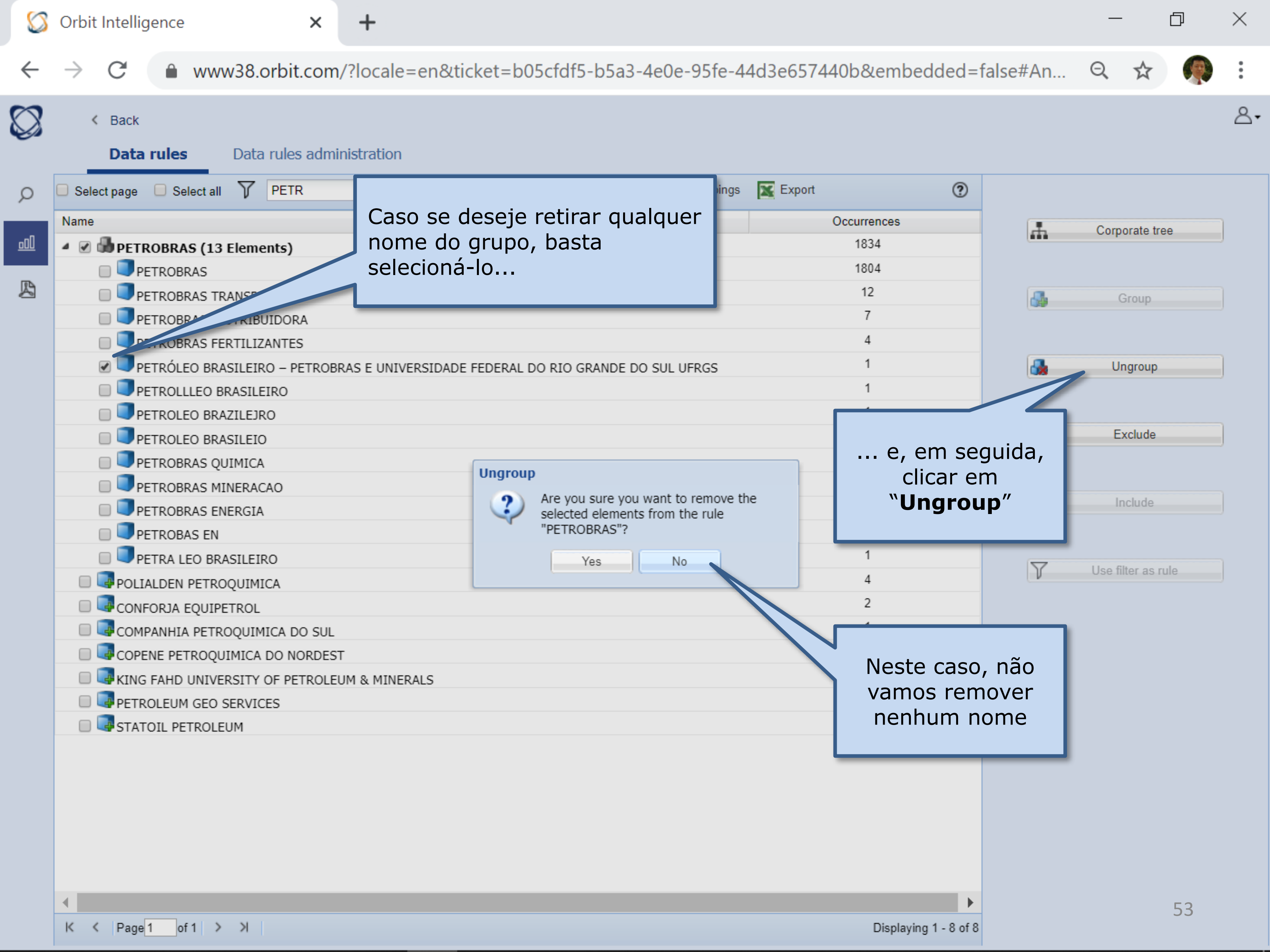
Data rules
Data rules administration
☐ Select page
☐ Select all
PETR
Assignees
Suggest groupings
Export
Corporate tree
Group
Ungroup
Exclude
Include
Use filter as rule
Page 1 of 1
Displaying 1 - 8 of 8

Name	Occurrences
☐ **PETROBRAS (13 Elements)**	1834
☐ PETROBRAS	1804
☐ PETROBRAS TRANSPORTE	12
☐ PETROBRAS DISTRIBUIDORA	7
☐ PETROBRAS FERTILIZANTES	4
☐ PETRÓLEO BRASILEIRO – PETROBRAS E UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL UFRGS	1
☐ PETROLLLEO BRASILEIRO	1
☐ PETROLEO BRAZILEJRO	1
☐ PETROLEO BRASILEIO	1
☐ PETROBRAS QUIMICA	1
☐ PETROBRAS MINERACAO	1
☐ PETROBRAS ENERGIA	1
☐ PETROBAS EN	1
☐ PETRA LEO BRASILEIRO	1
☐ POLIALDEN PETROQUIMICA	4
☐ CONFORJA EQUIPETROL	2
☐ COMPANHIA PETROQUIMICA DO SUL	1
☐ COPENE PETROQUIMICA DO NORDEST	1
☐ KING FAHD UNIVERSITY OF PETROLEUM & MINERALS	1
☐ PETROLEUM GEO SERVICES	1
☐ STATOIL PETROLEUM	1

Note que o grupo "PETROBRAS" contém todos os nomes que foram selecionados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Name	Occurrences
☑ PETROBRAS (13 Elements)	1834
☐ PETROBRAS	1804
☐ PETROBRAS TRANS	12
☐ PETROBRA TRIBUIDORA	7
☐ ROBRAS FERTILIZANTES	4
☑ PETRÓLEO BRASILEIRO – PETROBRAS E UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL UFRGS	1
☐ PETROLLLEO BRASILEIRO	1
☐ PETROLEO BRAZILEJRO	
☐ PETROLEO BRASILEIO	
☐ PETROBRAS QUIMICA	
☐ PETROBRAS MINERACAO	
☐ PETROBRAS ENERGIA	
☐ PETROBAS EN	
☐ PETRA LEO BRASILEIRO	1
☐ POLIALDEN PETROQUIMICA	4
☐ CONFORJA EQUIPETROL	2
☐ COMPANHIA PETROQUIMICA DO SUL	
☐ COPENE PETROQUIMICA DO NORDEST	
☐ KING FAHD UNIVERSITY OF PETROLEUM & MINERALS	
☐ PETROLEUM GEO SERVICES	
☐ STATOIL PETROLEUM	

Ungroup

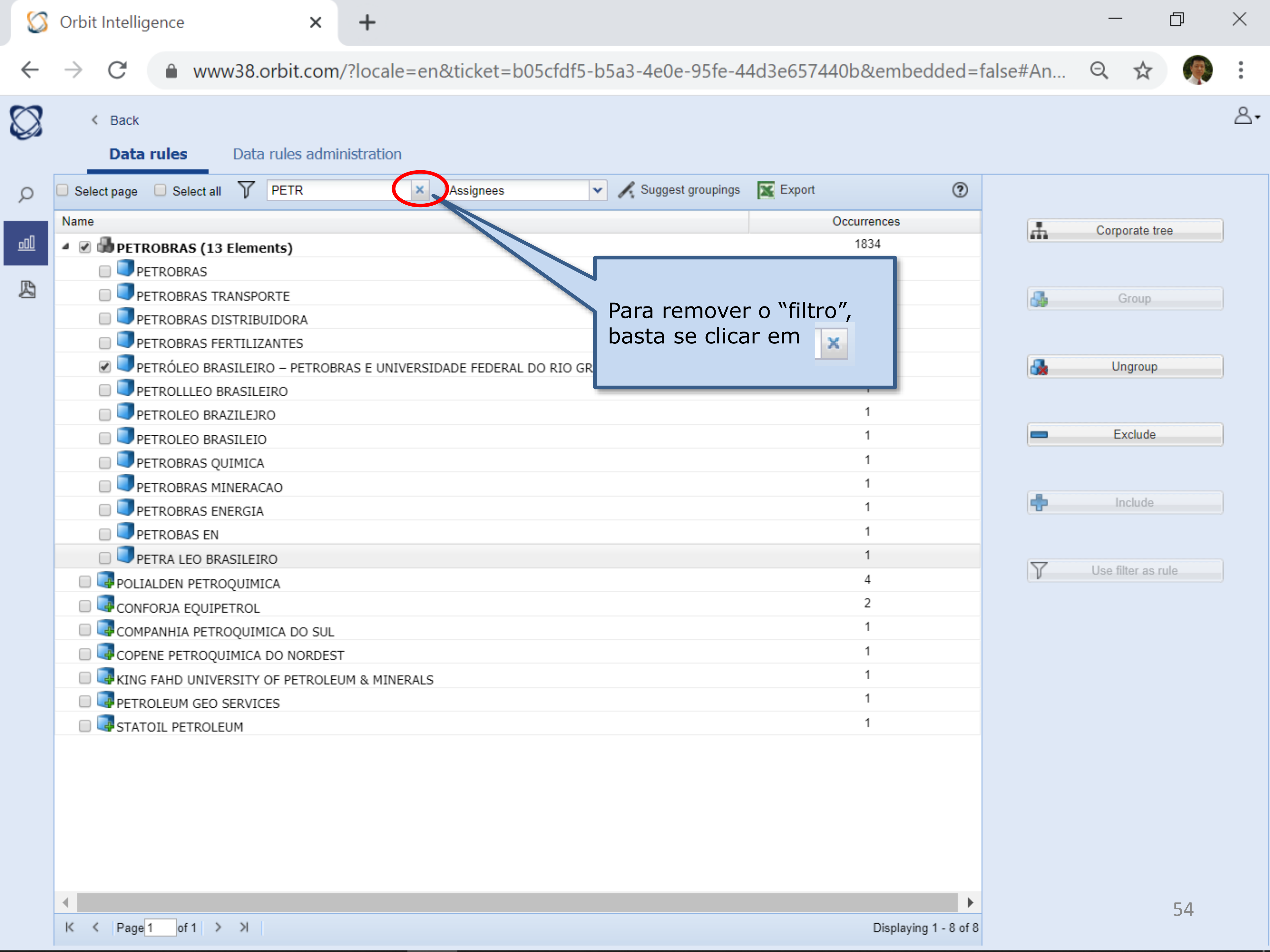
Are you sure you want to remove the selected elements from the rule "PETROBRAS"?

Yes | No

Caso se deseje retirar qualquer nome do grupo, basta selecioná-lo…

… e, em seguida, clicar em "**Ungroup**"

Neste caso, não vamos remover nenhum nome



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☐ Select all
PETR
Assignees
Suggest groupings
Export
Corporate tree
Group
Ungroup
Exclude
Include
Use filter as rule

Name	Occurrences
☑ **PETROBRAS (13 Elements)**	1834
☐ PETROBRAS	
☐ PETROBRAS TRANSPORTE	
☐ PETROBRAS DISTRIBUIDORA	
☐ PETROBRAS FERTILIZANTES	
☑ PETRÓLEO BRASILEIRO – PETROBRAS E UNIVERSIDADE FEDERAL DO RIO GR	
☐ PETROLLLEO BRASILEIRO	1
☐ PETROLEO BRAZILEJRO	1
☐ PETROLEO BRASILEIO	1
☐ PETROBRAS QUIMICA	1
☐ PETROBRAS MINERACAO	1
☐ PETROBRAS ENERGIA	1
☐ PETROBAS EN	1
☐ PETRA LEO BRASILEIRO	1
☐ POLIALDEN PETROQUIMICA	4
☐ CONFORJA EQUIPETROL	2
☐ COMPANHIA PETROQUIMICA DO SUL	1
☐ COPENE PETROQUIMICA DO NORDEST	1
☐ KING FAHD UNIVERSITY OF PETROLEUM & MINERALS	1
☐ PETROLEUM GEO SERVICES	1
☐ STATOIL PETROLEUM	1

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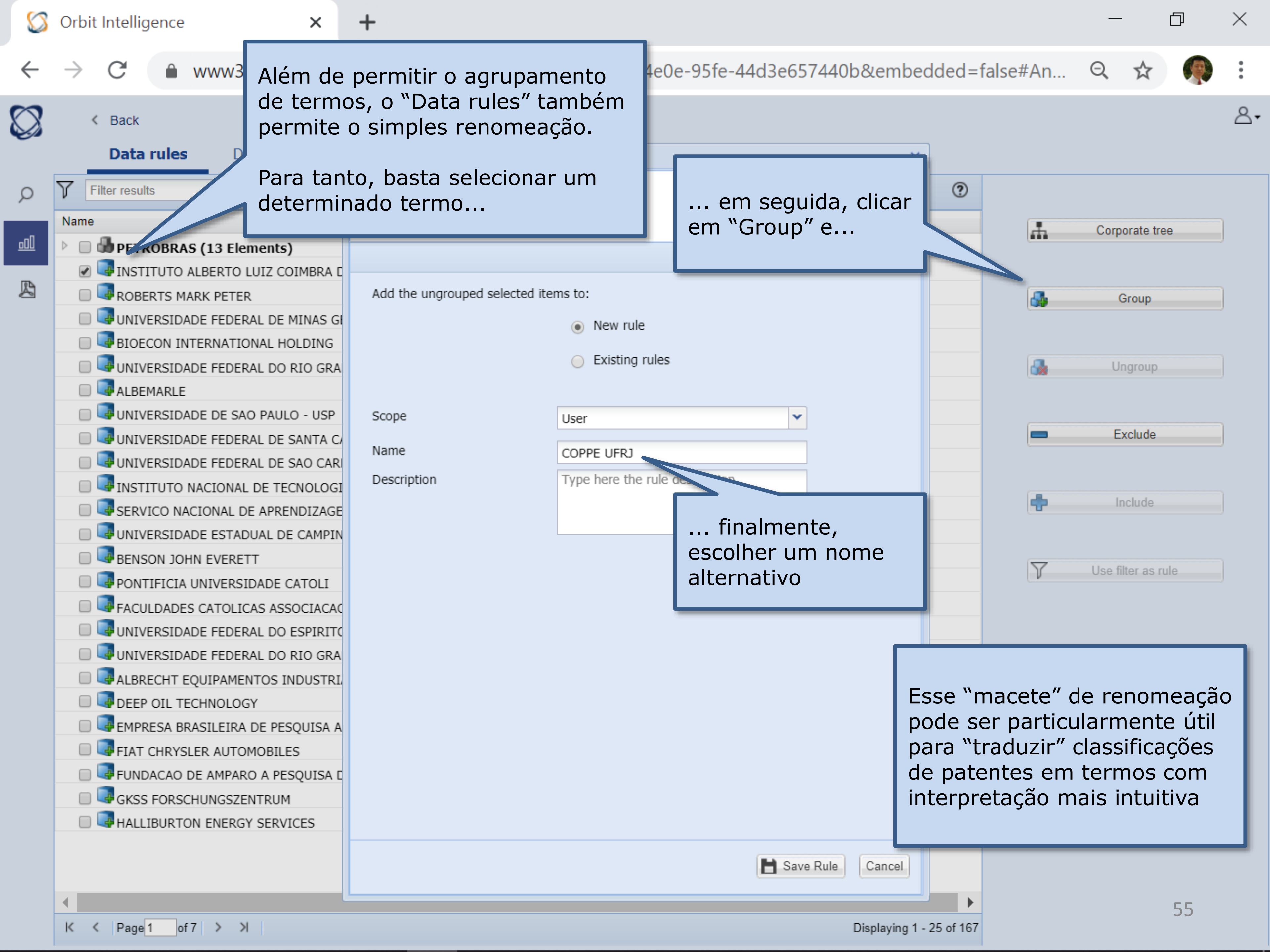
Para remover o “filtro”, basta se clicar em ×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Data rules
Filter results
Corporate tree
Group
Ungroup
Exclude
Include
Use filter as rule
Save Rule
Cancel
Page 1 of 7
Displaying 1 - 25 of 167

Além de permitir o agrupamento de termos, o "Data rules" também permite o simples renomeação.

Para tanto, basta selecionar um determinado termo...

... em seguida, clicar em "Group" e...

... finalmente, escolher um nome alternativo

Esse "macete" de renomeação pode ser particularmente útil para "traduzir" classificações de patentes em termos com interpretação mais intuitiva

Name

- ☐ PETROBRAS (13 Elements)
- ☑ INSTITUTO ALBERTO LUIZ COIMBRA D
- ☐ ROBERTS MARK PETER
- ☐ UNIVERSIDADE FEDERAL DE MINAS GI
- ☐ BIOECON INTERNATIONAL HOLDING
- ☐ UNIVERSIDADE FEDERAL DO RIO GRA
- ☐ ALBEMARLE
- ☐ UNIVERSIDADE DE SAO PAULO - USP
- ☐ UNIVERSIDADE FEDERAL DE SANTA CA
- ☐ UNIVERSIDADE FEDERAL DE SAO CARI
- ☐ INSTITUTO NACIONAL DE TECNOLOGI
- ☐ SERVICO NACIONAL DE APRENDIZAGE
- ☐ UNIVERSIDADE ESTADUAL DE CAMPIN
- ☐ BENSON JOHN EVERETT
- ☐ PONTIFICIA UNIVERSIDADE CATOLI
- ☐ FACULDADES CATOLICAS ASSOCIACAO
- ☐ UNIVERSIDADE FEDERAL DO ESPIRITO
- ☐ UNIVERSIDADE FEDERAL DO RIO GRA
- ☐ ALBRECHT EQUIPAMENTOS INDUSTRIA
- ☐ DEEP OIL TECHNOLOGY
- ☐ EMPRESA BRASILEIRA DE PESQUISA A
- ☐ FIAT CHRYSLER AUTOMOBILES
- ☐ FUNDACAO DE AMPARO A PESQUISA D
- ☐ GKSS FORSCHUNGSZENTRUM
- ☐ HALLIBURTON ENERGY SERVICES

Add the ungrouped selected items to:

● New rule

○ Existing rules

Scope: User

Name: COPPE UFRJ

Description: Type here the rule description

Oficina 2H

Faça uma análise preliminar sobre empresas titulares de patentes, que mais citam patentes da Petrobras

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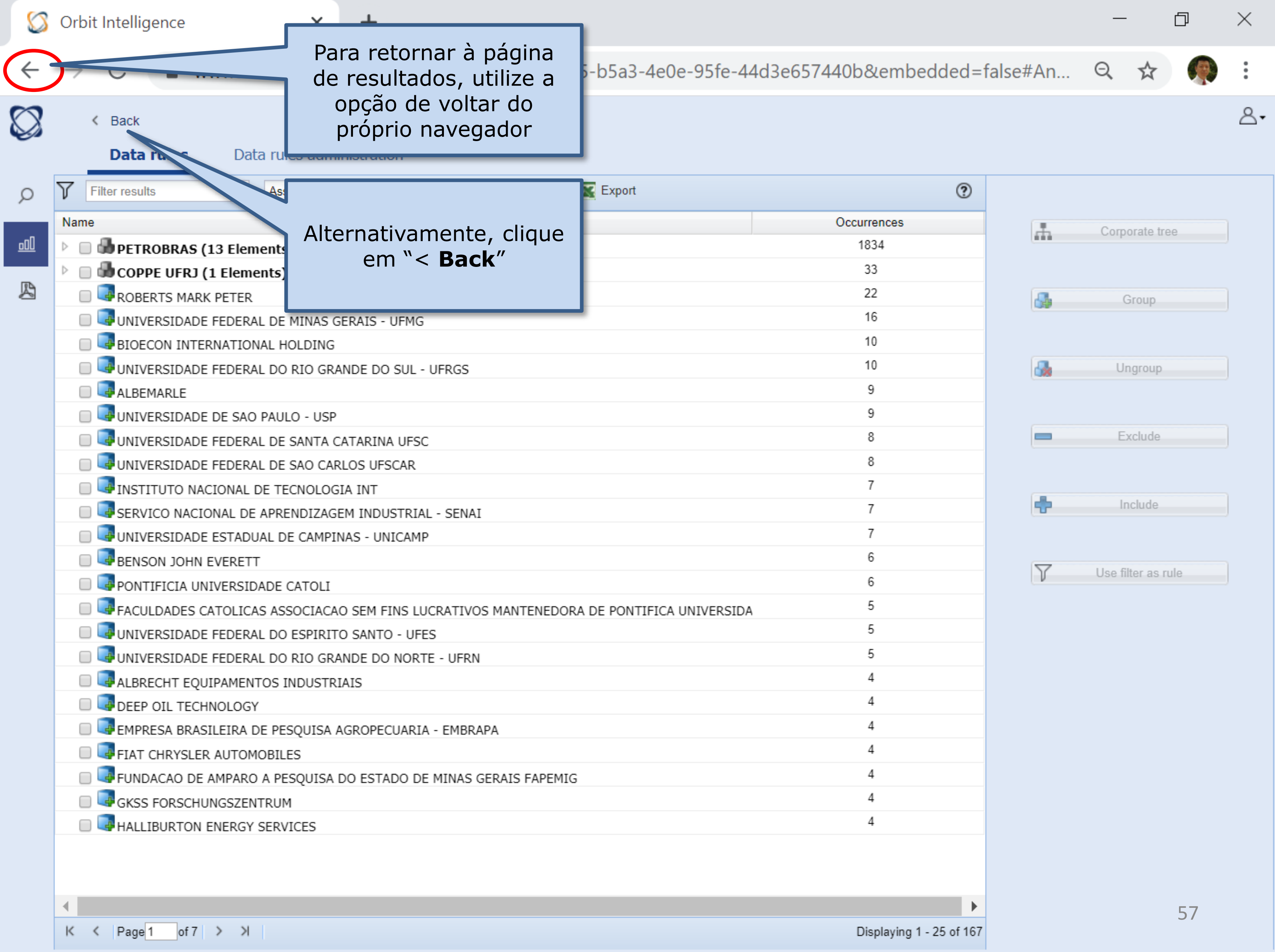
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Data rules
Data rules administration
Filter results
Export
Corporate tree
Group
Ungroup
Exclude
Include
Use filter as rule

Para retornar à página de resultados, utilize a opção de voltar do próprio navegador

Alternativamente, clique em “< **Back**”

Name	Occurrences
PETROBRAS (13 Elements	1834
COPPE UFRJ (1 Elements)	33
ROBERTS MARK PETER	22
UNIVERSIDADE FEDERAL DE MINAS GERAIS - UFMG	16
BIOECON INTERNATIONAL HOLDING	10
UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL - UFRGS	10
ALBEMARLE	9
UNIVERSIDADE DE SAO PAULO - USP	9
UNIVERSIDADE FEDERAL DE SANTA CATARINA UFSC	8
UNIVERSIDADE FEDERAL DE SAO CARLOS UFSCAR	8
INSTITUTO NACIONAL DE TECNOLOGIA INT	7
SERVICO NACIONAL DE APRENDIZAGEM INDUSTRIAL - SENAI	7
UNIVERSIDADE ESTADUAL DE CAMPINAS - UNICAMP	7
BENSON JOHN EVERETT	6
PONTIFICIA UNIVERSIDADE CATOLI	6
FACULDADES CATOLICAS ASSOCIACAO SEM FINS LUCRATIVOS MANTENEDORA DE PONTIFICA UNIVERSIDA	5
UNIVERSIDADE FEDERAL DO ESPIRITO SANTO - UFES	5
UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE - UFRN	5
ALBRECHT EQUIPAMENTOS INDUSTRIAIS	4
DEEP OIL TECHNOLOGY	4
EMPRESA BRASILEIRA DE PESQUISA AGROPECUARIA - EMBRAPA	4
FIAT CHRYSLER AUTOMOBILES	4
FUNDACAO DE AMPARO A PESQUISA DO ESTADO DE MINAS GERAIS FAPEMIG	4
GKSS FORSCHUNGSZENTRUM	4
HALLIBURTON ENERGY SERVICES	4

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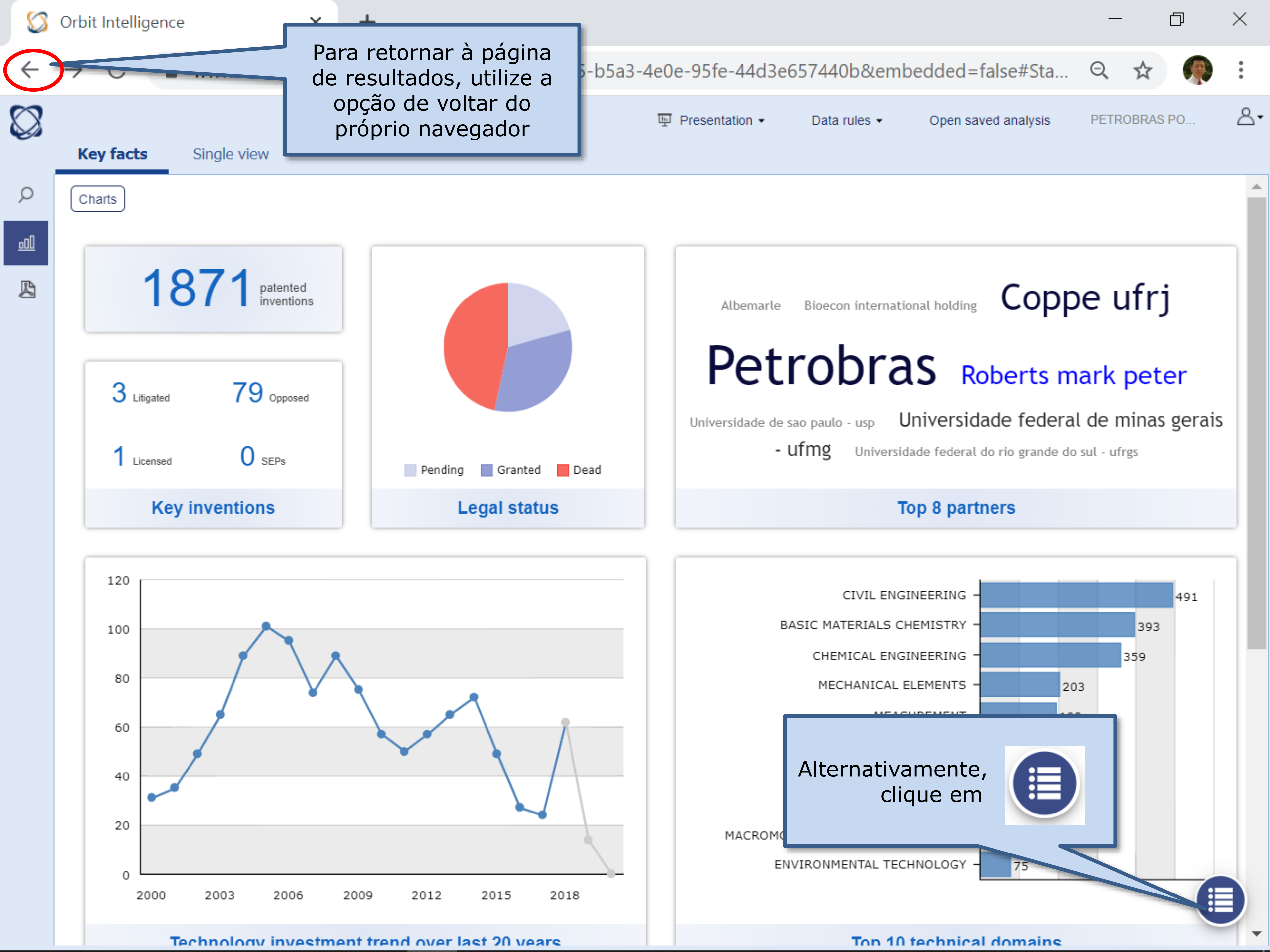
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PETROBRAS PO...
Key facts
Single view
Charts
1871 patented inventions
3 Litigated
79 Opposed
1 Licensed
0 SEPs
Key inventions
Pending
Granted
Dead
Legal status
Albemarle
Bioecon international holding
Coppe ufrj
Petrobras
Roberts mark peter
Universidade de sao paulo - usp
Universidade federal de minas gerais - ufmg
Universidade federal do rio grande do sul - ufrgs
Top 8 partners
120
100
80
60
40
20
0
2000
2003
2006
2009
2012
2015
2018
Technology investment trend over last 20 years
CIVIL ENGINEERING
491
BASIC MATERIALS CHEMISTRY
393
CHEMICAL ENGINEERING
359
MECHANICAL ELEMENTS
203
MACROMO
ENVIRONMENTAL TECHNOLOGY
75
Top 10 technical domains

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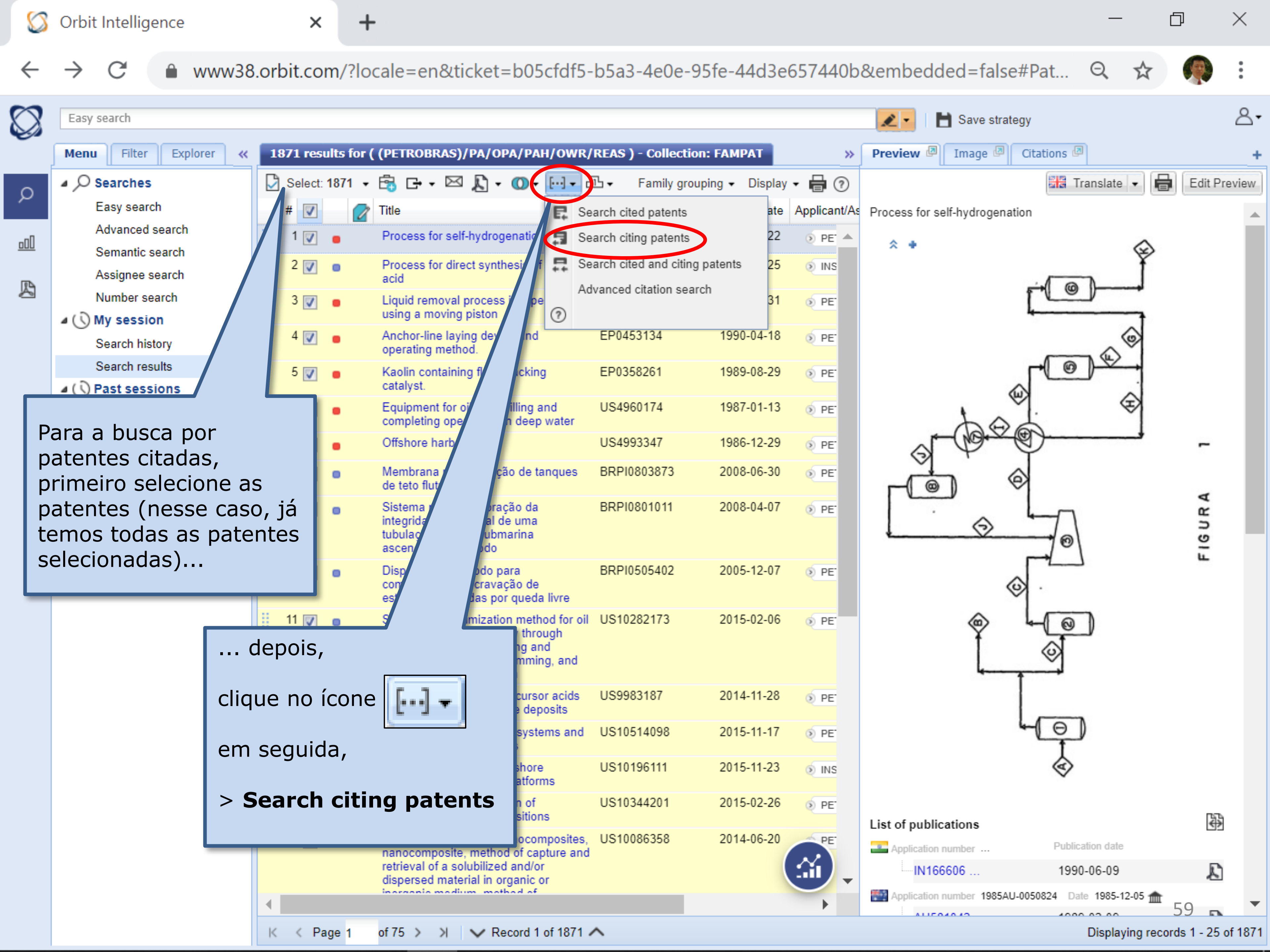
Alternativamente, clique em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Past sessions
1871 results for ((PETROBRAS)/PA/OPA/PAH/OWR/REAS) - Collection: FAMPAT
Select: 1871
Family grouping
Display
Search cited patents
Search citing patents
Search cited and citing patents
Advanced citation search
Preview
Image
Citations
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Edit Preview
Process for self-hydrogenation
FIGURA 1
List of publications
Application number
Publication date
IN166606
1990-06-09
Application number 1985AU-0050824 Date 1985-12-05
Page 1 of 75
Record 1 of 1871
Displaying records 1 - 25 of 1871

#	Title		Date	Applicant/As
1	Process for self-hydrogenati		22	PE
2	Process for direct synthesi acid		25	INS
3	Liquid removal process using a moving piston		31	PE
4	Anchor-line laying de nd operating method.	EP0453134	1990-04-18	PE
5	Kaolin containing fl cking catalyst.	EP0358261	1989-08-29	PE
	Equipment for oi illing and completing ope n deep water	US4960174	1987-01-13	PE
	Offshore harb	US4993347	1986-12-29	PE
	Membrana ção de tanques de teto flut	BRPI0803873	2008-06-30	PE
	Sistema ração da integrida al de uma tubulaç ubmarina ascen do	BRPI0801011	2008-04-07	PE
	Disp odo para con cravação de es das por queda livre	BRPI0505402	2005-12-07	PE
11	S mization method for oil through g and mming, and	US10282173	2015-02-06	PE
	cursor acids deposits	US9983187	2014-11-28	PE
	systems and	US10514098	2015-11-17	PE
	hore atforms	US10196111	2015-11-23	INS
	n of sitions	US10344201	2015-02-26	PE
	ocomposites, nanocomposite, method of capture and retrieval of a solubilized and/or dispersed material in organic or	US10086358	2014-06-20	PE

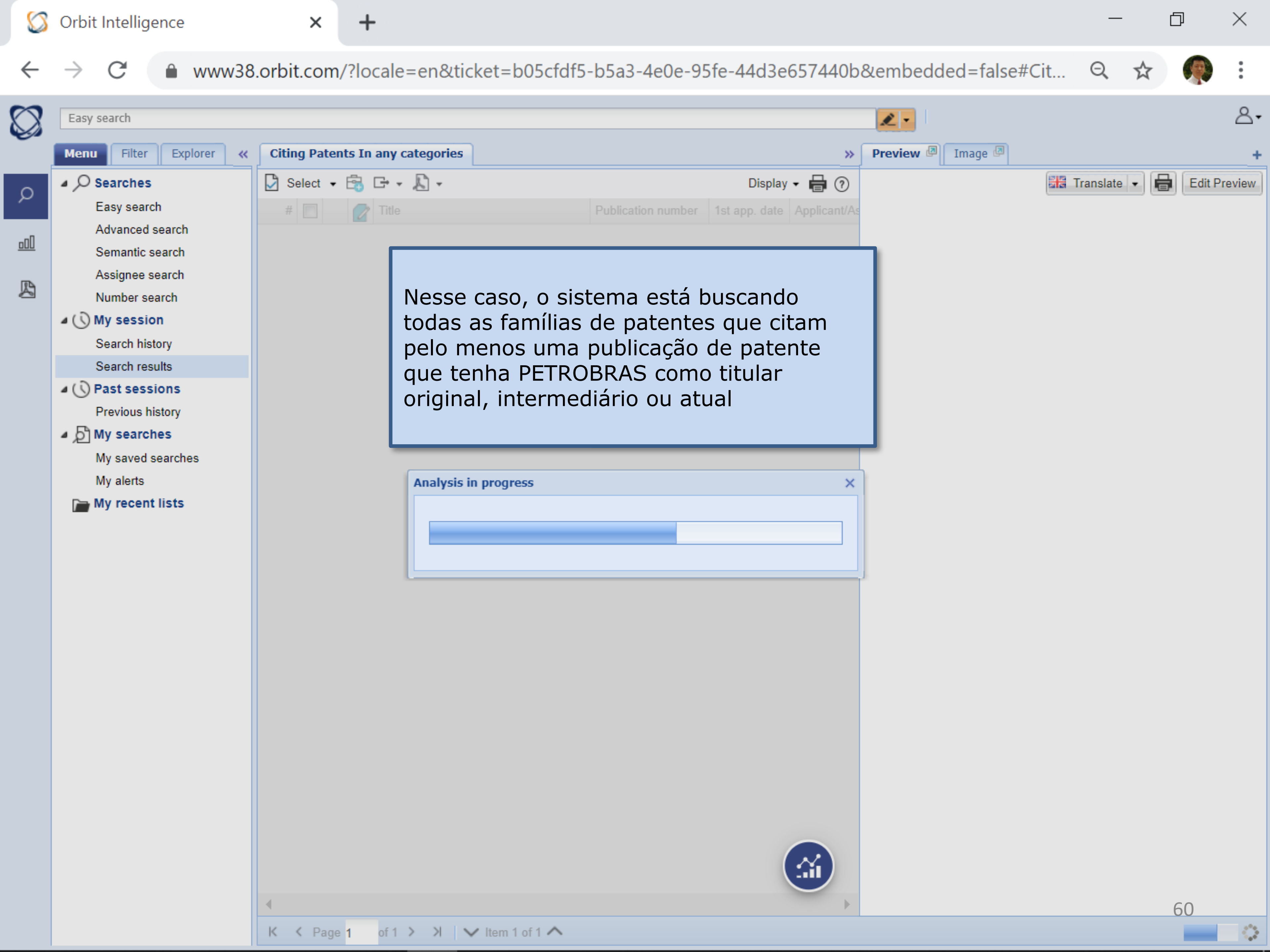
Para a busca por patentes citadas, primeiro selecione as patentes (nesse caso, já temos todas as patentes selecionadas)...

... depois,

clique no ícone [··] ▾

em seguida,

> **Search citing patents**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Past sessions
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My saved searches
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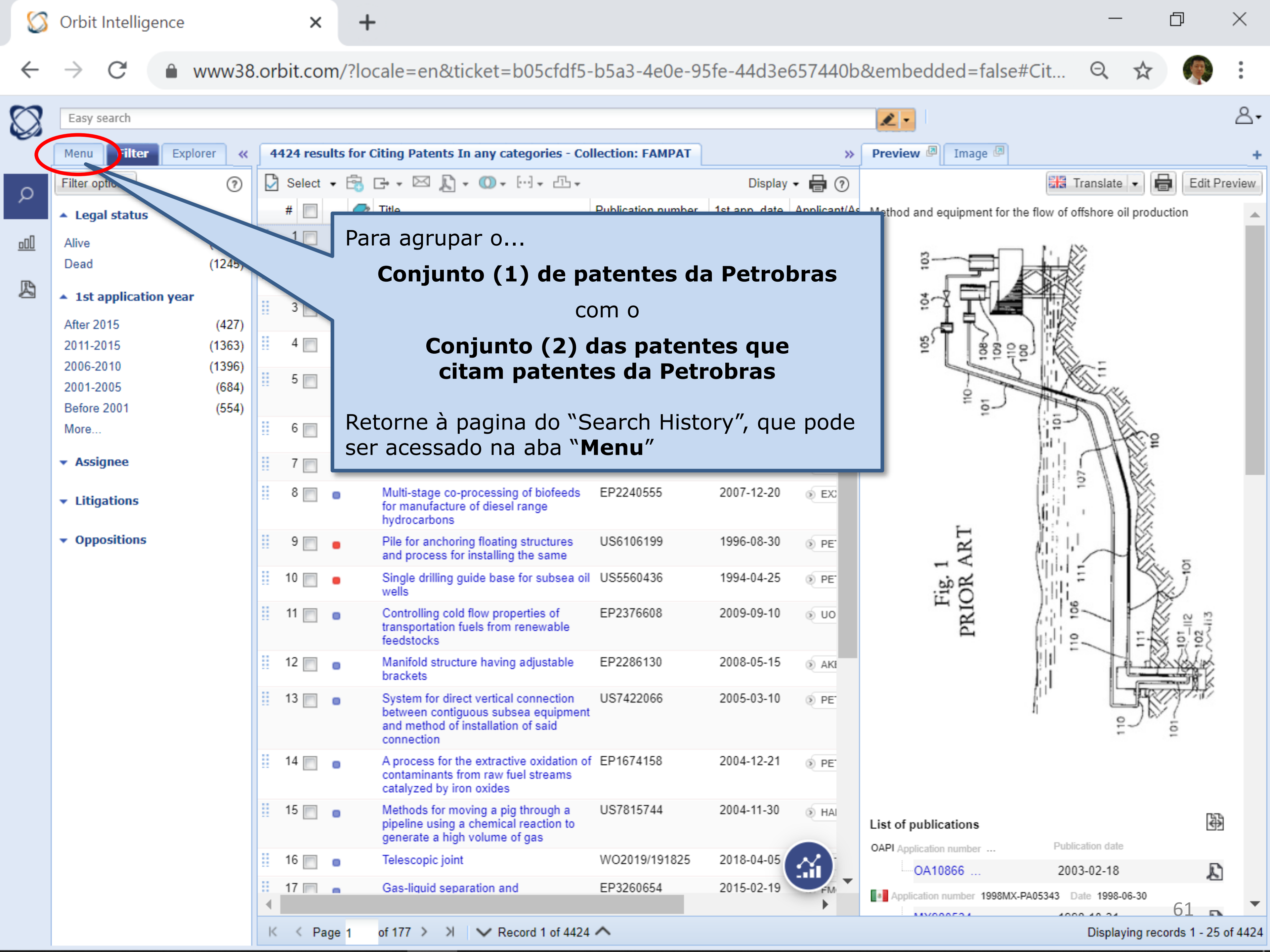
My recent lists
Select
Display
Translate
Edit Preview
#
Title
Publication number
1st app. date
Applicant/As
Page 1 of 1
Item 1 of 1

Nesse caso, o sistema está buscando todas as famílias de patentes que citam pelo menos uma publicação de patente que tenha PETROBRAS como titular original, intermediário ou atual

Analysis in progress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Para agrupar o...

Conjunto (1) de patentes da Petrobras

com o

Conjunto (2) das patentes que citam patentes da Petrobras

Retorne à pagina do "Search History", que pode ser acessado na aba "**Menu**"

4424 results for Citing Patents In any categories - Collection: FAMPAT

Legal status

Alive	
Dead	(1245)

1st application year

After 2015	(427)
2011-2015	(1363)
2006-2010	(1396)
2001-2005	(684)
Before 2001	(554)
More...	

Assignee

Litigations

Oppositions

#	Title	Publication number	1st app. date	Applicant/As
8	Multi-stage co-processing of biofeeds for manufacture of diesel range hydrocarbons	EP2240555	2007-12-20	EX
9	Pile for anchoring floating structures and process for installing the same	US6106199	1996-08-30	PE
10	Single drilling guide base for subsea oil wells	US5560436	1994-04-25	PE
11	Controlling cold flow properties of transportation fuels from renewable feedstocks	EP2376608	2009-09-10	UO
12	Manifold structure having adjustable brackets	EP2286130	2008-05-15	AKI
13	System for direct vertical connection between contiguous subsea equipment and method of installation of said connection	US7422066	2005-03-10	PE
14	A process for the extractive oxidation of contaminants from raw fuel streams catalyzed by iron oxides	EP1674158	2004-12-21	PE
15	Methods for moving a pig through a pipeline using a chemical reaction to generate a high volume of gas	US7815744	2004-11-30	HAI
16	Telescopic joint	WO2019/191825	2018-04-05	
17	Gas-liquid separation and	EP3260654	2015-02-19	FM

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Method and equipment for the flow of offshore oil production

Fig. 1
PRIOR ART
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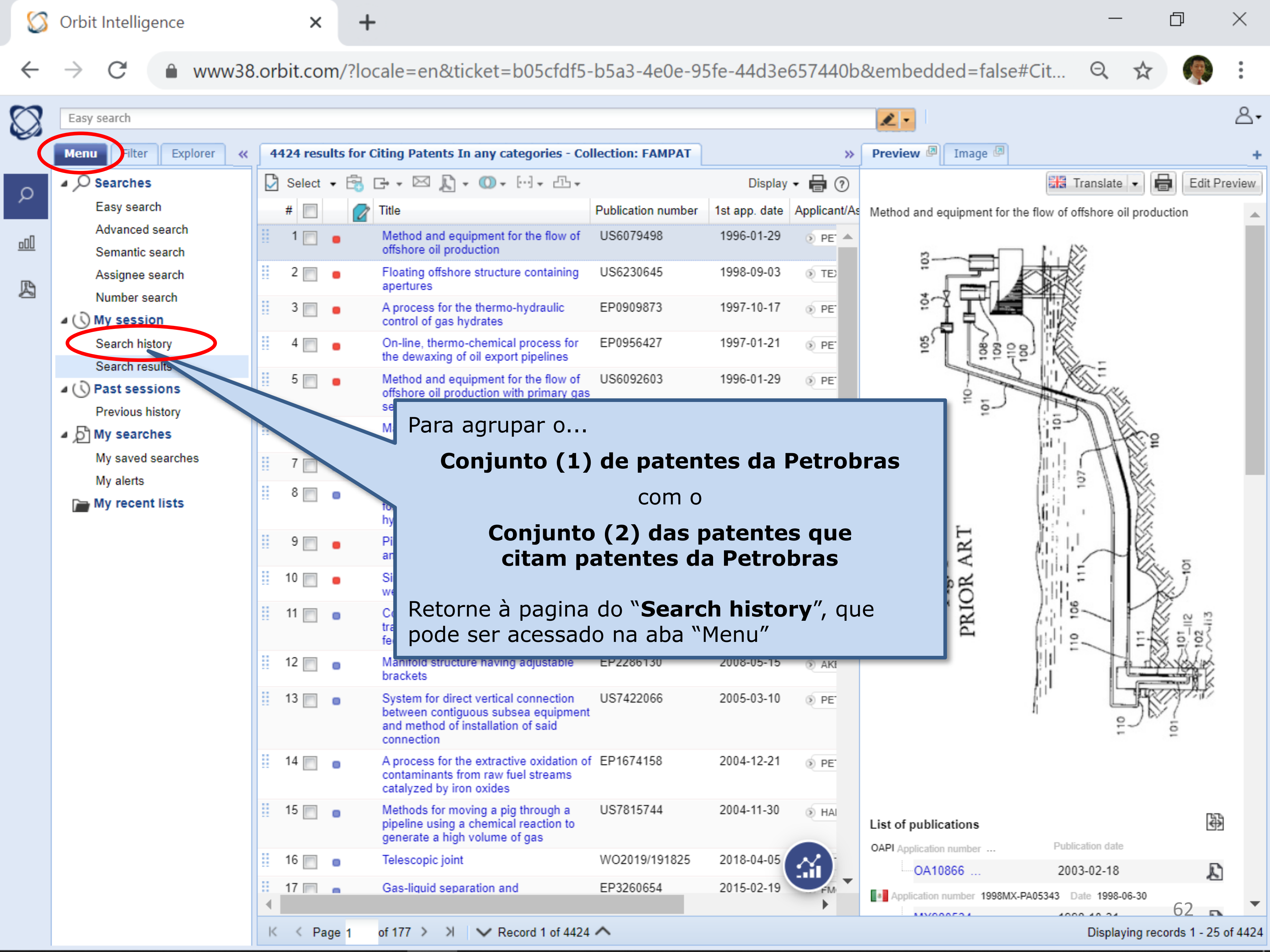
112
102
113

List of publications

OAPI Application number ... — Publication date

OA10866 ... — 2003-02-18

Application number 1998MX-PA05343 — Date 1998-06-30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PRIOR ART
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113
List of publications

4424 results for Citing Patents In any categories - Collection: FAMPAT

#	Title	Publication number	1st app. date	Applicant/As
1	Method and equipment for the flow of offshore oil production	US6079498	1996-01-29	PE
2	Floating offshore structure containing apertures	US6230645	1998-09-03	TE
3	A process for the thermo-hydraulic control of gas hydrates	EP0909873	1997-10-17	PE
4	On-line, thermo-chemical process for the dewaxing of oil export pipelines	EP0956427	1997-01-21	PE
5	Method and equipment for the flow of offshore oil production with primary gas se	US6092603	1996-01-29	PE
	M			
7				
8	fo hy			
9	Pi ar			
10	Si we			
11	C tra fe			
12	Manifold structure having adjustable brackets	EP2286130	2008-05-15	AKI
13	System for direct vertical connection between contiguous subsea equipment and method of installation of said connection	US7422066	2005-03-10	PE
14	A process for the extractive oxidation of contaminants from raw fuel streams catalyzed by iron oxides	EP1674158	2004-12-21	PE
15	Methods for moving a pig through a pipeline using a chemical reaction to generate a high volume of gas	US7815744	2004-11-30	HAI
16	Telescopic joint	WO2019/191825	2018-04-05	
17	Gas-liquid separation and	EP3260654	2015-02-19	FM

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Method and equipment for the flow of offshore oil production

OAPI Application number ... Publication date
OA10866 ... 2003-02-18
Application number 1998MX-PA05343 Date 1998-06-30

Para agrupar o...

Conjunto (1) de patentes da Petrobras

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Conjunto (2) das patentes que citam patentes da Petrobras

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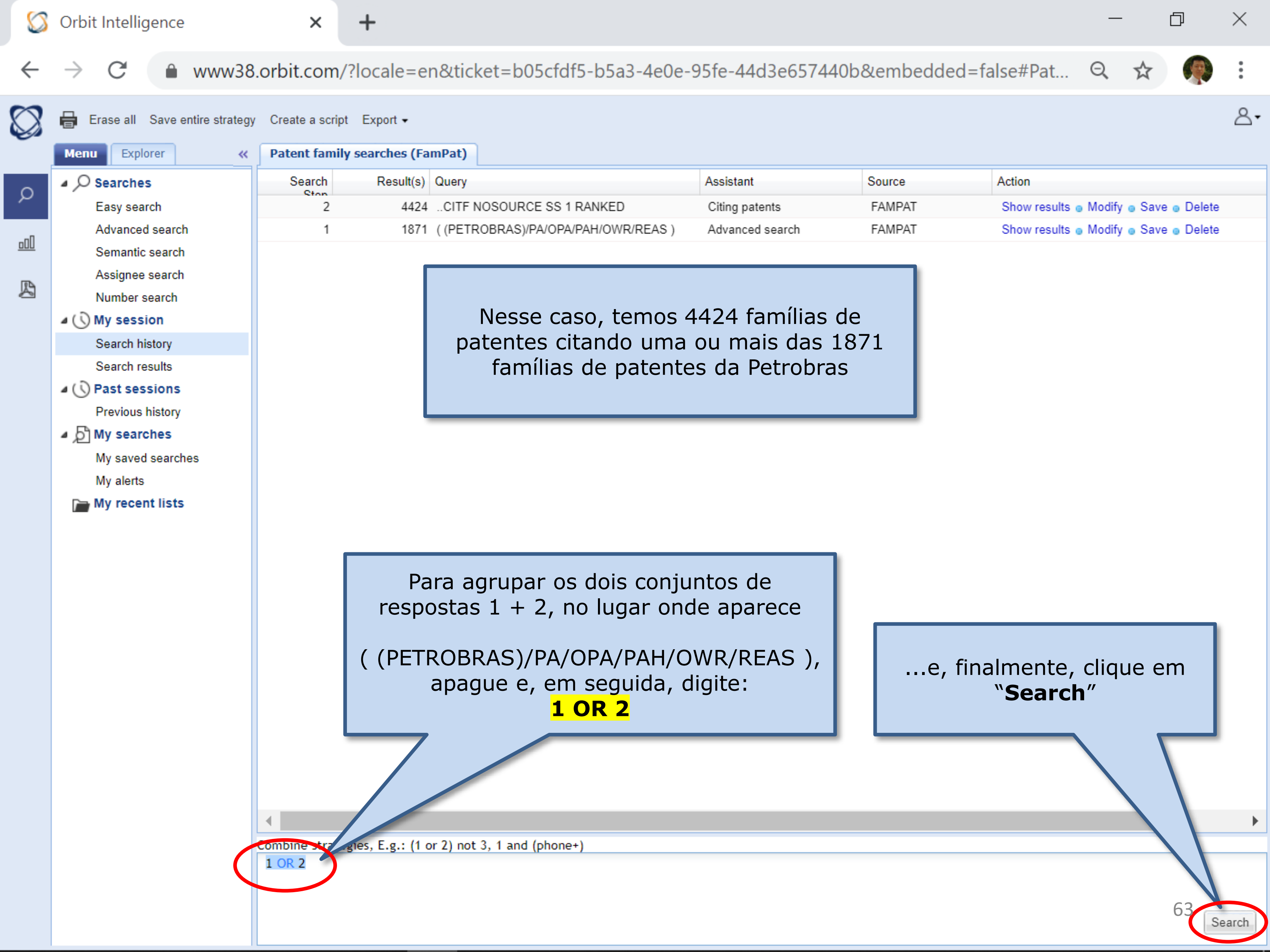
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Past sessions
Previous history
My searches
My saved searches
My alerts
My recent lists
Search

Search Step	Result(s)	Query	Assistant	Source	Action
2	4424	..CITF NOSOURCE SS 1 RANKED	Citing patents	FAMPAT	Show results • Modify • Save • Delete
1	1871	((PETROBRAS)/PA/OPA/PAH/OWR/REAS)	Advanced search	FAMPAT	Show results • Modify • Save • Delete

Combine strategies, E.g.: (1 or 2) not 3, 1 and (phone+)

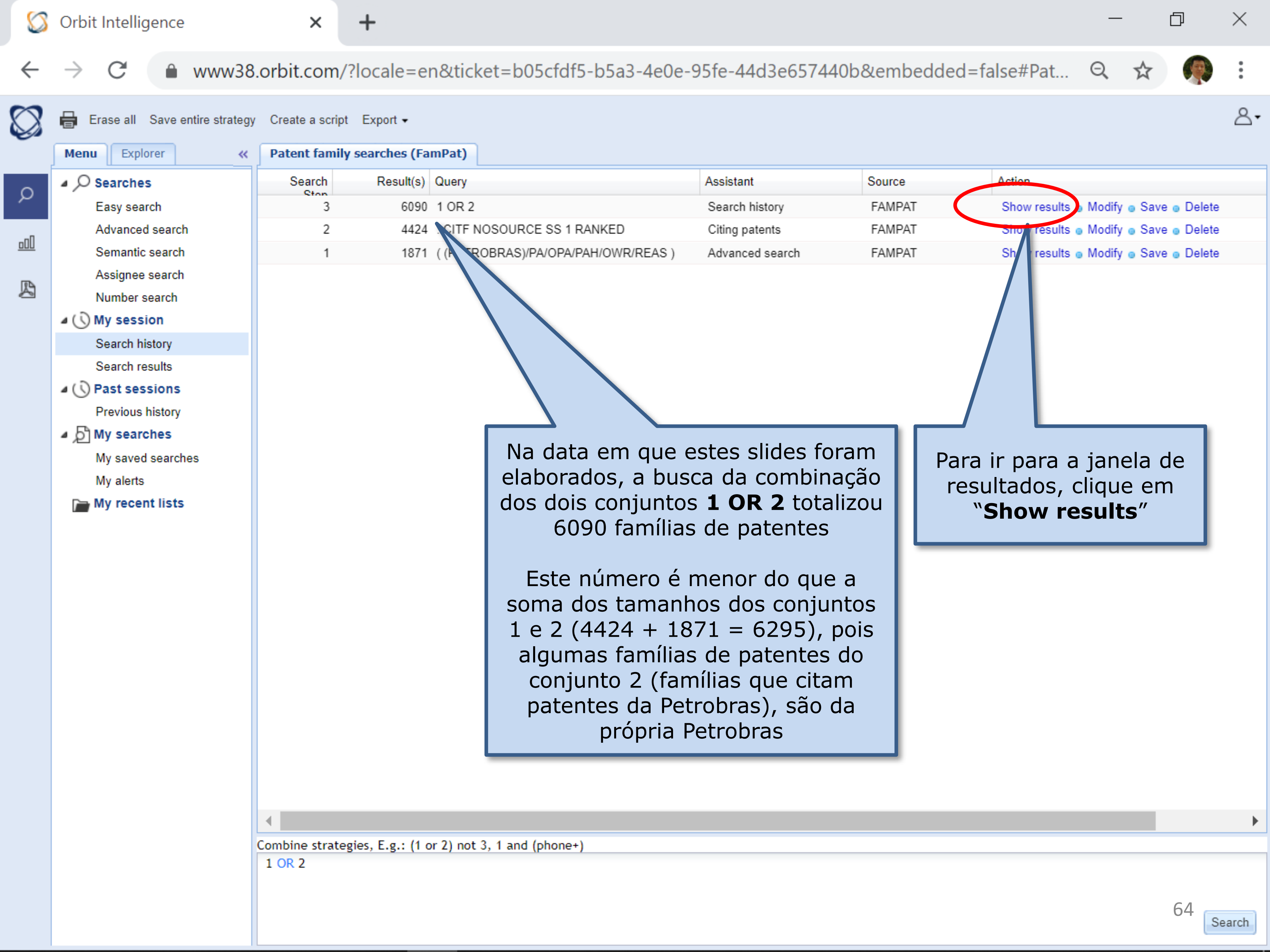
1 OR 2

Nesse caso, temos 4424 famílias de patentes citando uma ou mais das 1871 famílias de patentes da Petrobras

Para agrupar os dois conjuntos de respostas 1 + 2, no lugar onde aparece

((PETROBRAS)/PA/OPA/PAH/OWR/REAS), apague e, em seguida, digite:
1 OR 2

...e, finalmente, clique em "**Search**"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Save entire strategy
Create a script
Export
Menu
Explorer
Patent family searches (FamPat)
Searches
Easy search
Advanced search
Semantic search
Assignee search
Number search
My session
Search history
Search results
Past sessions
Previous history
My searches
My saved searches
My alerts
My recent lists
Search

Search Step	Result(s)	Query	Assistant	Source	Action
3	6090	1 OR 2	Search history	FAMPAT	Show results • Modify • Save • Delete
2	4424	CITF NOSOURCE SS 1 RANKED	Citing patents	FAMPAT	results • Modify • Save • Delete
1	1871	((ROBRAS)/PA/OPA/PAH/OWR/REAS)	Advanced search	FAMPAT	results • Modify • Save • Delete

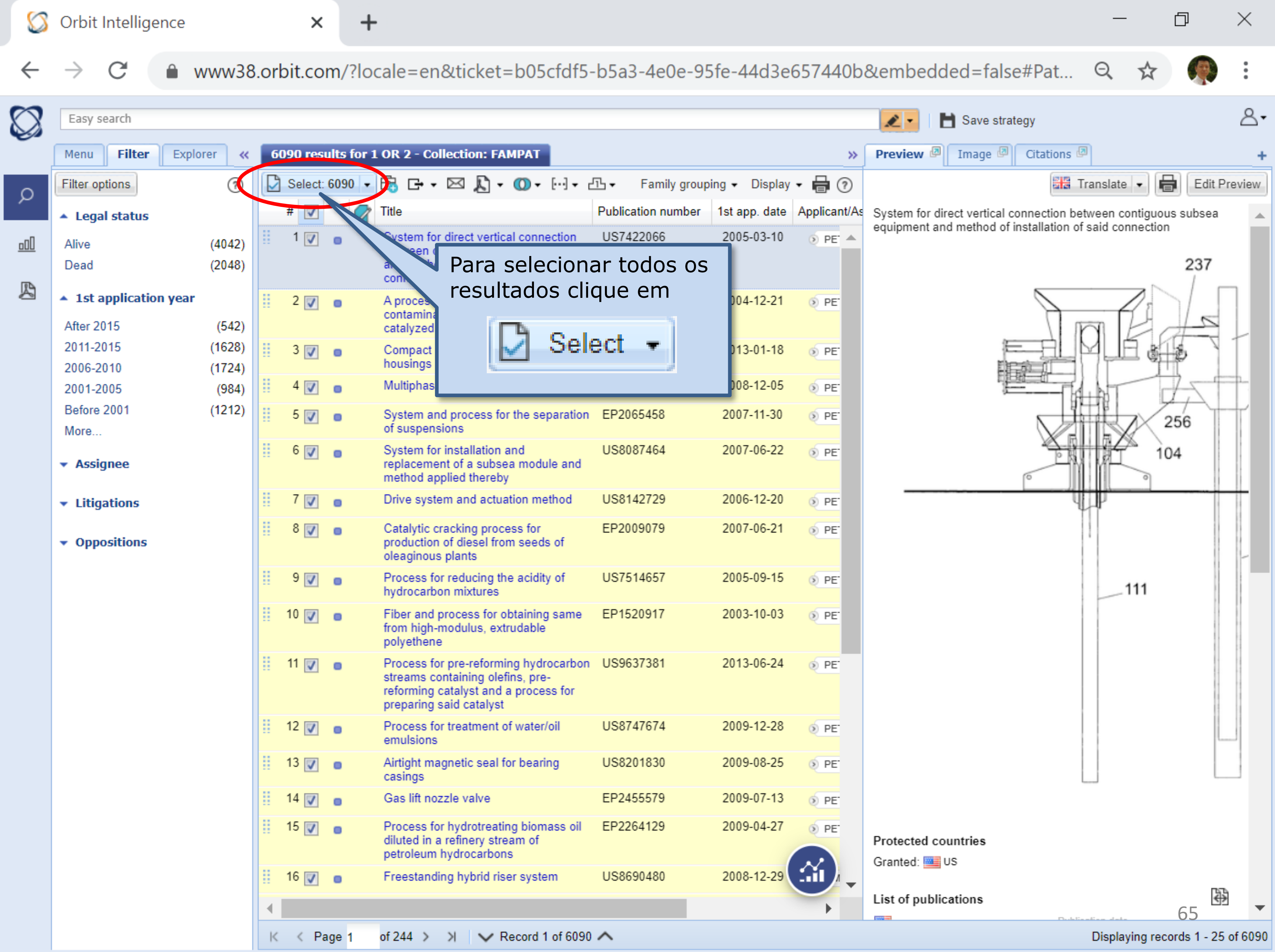
Combine strategies, E.g.: (1 or 2) not 3, 1 and (phone+)

1 OR 2

Na data em que estes slides foram elaborados, a busca da combinação dos dois conjuntos **1 OR 2** totalizou 6090 famílias de patentes

Este número é menor do que a soma dos tamanhos dos conjuntos 1 e 2 (4424 + 1871 = 6295), pois algumas famílias de patentes do conjunto 2 (famílias que citam patentes da Petrobras), são da própria Petrobras

Para ir para a janela de resultados, clique em "**Show results**"



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Para selecionar todos os resultados clique em

Select

6090 results for 1 OR 2 - Collection: FAMPAT

Legal status

Alive	(4042)
Dead	(2048)

1st application year

After 2015	(542)
2011-2015	(1628)
2006-2010	(1724)
2001-2005	(984)
Before 2001	(1212)
More...	

Assignee

Litigations

Oppositions

#	Title	Publication number	1st app. date	Applicant/As
1	System for direct vertical connection ...een c... a... con...	US7422066	2005-03-10	PE
2	A proce... contamina... catalyzed...		...04-12-21	PE
3	Compact... housings		...13-01-18	PE
4	Multiphas...		...08-12-05	PE
5	System and process for the separation of suspensions	EP2065458	2007-11-30	PE
6	System for installation and replacement of a subsea module and method applied thereby	US8087464	2007-06-22	PE
7	Drive system and actuation method	US8142729	2006-12-20	PE
8	Catalytic cracking process for production of diesel from seeds of oleaginous plants	EP2009079	2007-06-21	PE
9	Process for reducing the acidity of hydrocarbon mixtures	US7514657	2005-09-15	PE
10	Fiber and process for obtaining same from high-modulus, extrudable polyethene	EP1520917	2003-10-03	PE
11	Process for pre-reforming hydrocarbon streams containing olefins, pre-reforming catalyst and a process for preparing said catalyst	US9637381	2013-06-24	PE
12	Process for treatment of water/oil emulsions	US8747674	2009-12-28	PE
13	Airtight magnetic seal for bearing casings	US8201830	2009-08-25	PE
14	Gas lift nozzle valve	EP2455579	2009-07-13	PE
15	Process for hydrotreating biomass oil diluted in a refinery stream of petroleum hydrocarbons	EP2264129	2009-04-27	PE
16	Freestanding hybrid riser system	US8690480	2008-12-29	

System for direct vertical connection between contiguous subsea equipment and method of installation of said connection

237
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104
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Protected countries

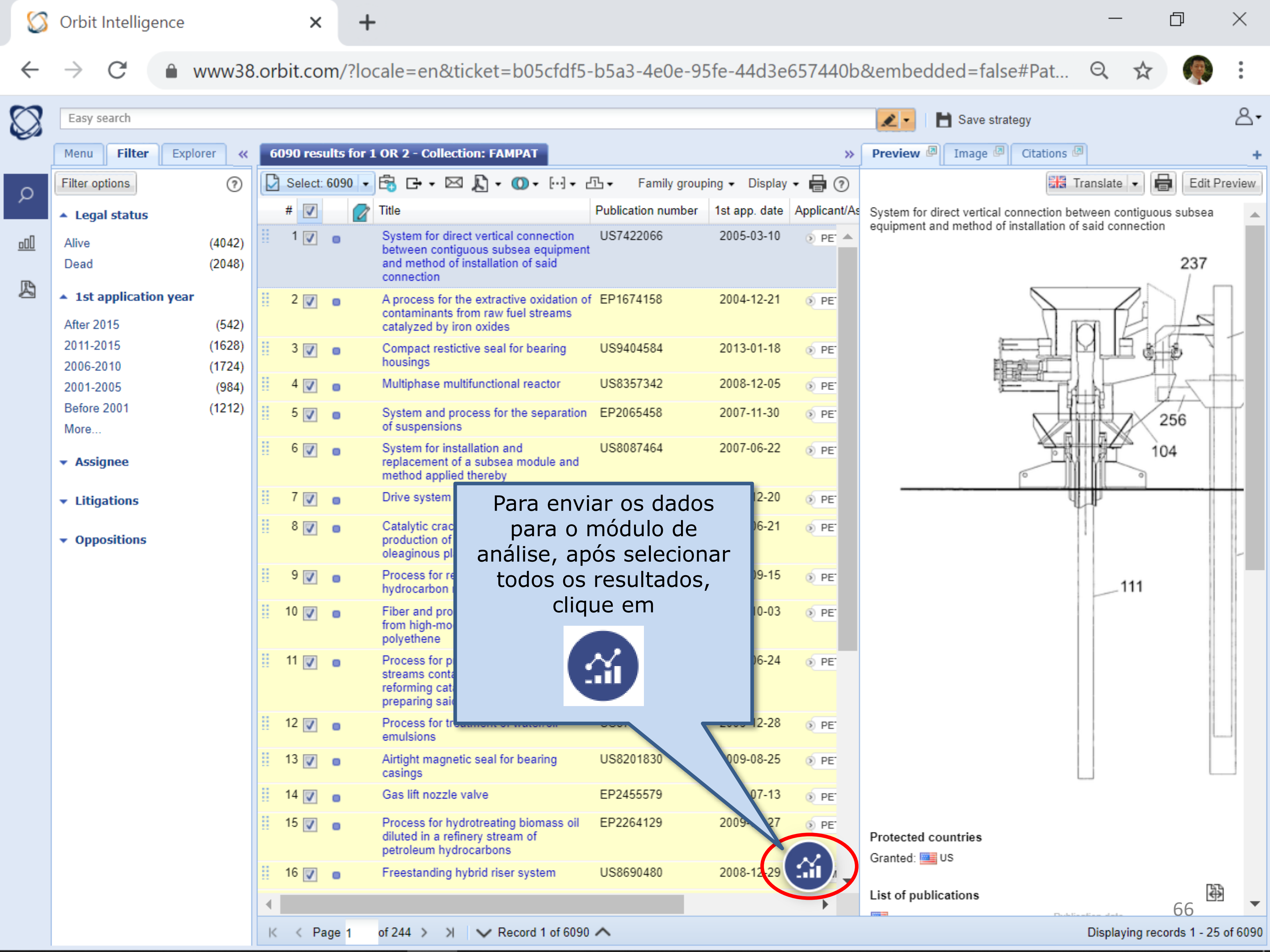
Granted: US

List of publications

Page 1 of 244

Record 1 of 6090

Displaying records 1 - 25 of 6090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Page 1 of 244
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237
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Legal status

Alive	(4042)
Dead	(2048)

1st application year

After 2015	(542)
2011-2015	(1628)
2006-2010	(1724)
2001-2005	(984)
Before 2001	(1212)
More...	

Assignee

Litigations

Oppositions

#	Title	Publication number	1st app. date	Applicant/As
1	System for direct vertical connection between contiguous subsea equipment and method of installation of said connection	US7422066	2005-03-10	PE
2	A process for the extractive oxidation of contaminants from raw fuel streams catalyzed by iron oxides	EP1674158	2004-12-21	PE
3	Compact restictive seal for bearing housings	US9404584	2013-01-18	PE
4	Multiphase multifunctional reactor	US8357342	2008-12-05	PE
5	System and process for the separation of suspensions	EP2065458	2007-11-30	PE
6	System for installation and replacement of a subsea module and method applied thereby	US8087464	2007-06-22	PE
7	Drive system		2-20	PE
8	Catalytic crac production of oleaginous pl		06-21	PE
9	Process for re hydrocarbon		09-15	PE
10	Fiber and pro from high-mo polyethene		10-03	PE
11	Process for p streams conta reforming cat preparing sai		06-24	PE
12	Process for tr emulsions		12-28	PE
13	Airtight magnetic seal for bearing casings	US8201830	009-08-25	PE
14	Gas lift nozzle valve	EP2455579	07-13	PE
15	Process for hydrotreating biomass oil diluted in a refinery stream of petroleum hydrocarbons	EP2264129	2009 27	PE
16	Freestanding hybrid riser system	US8690480	2008-12-29	

System for direct vertical connection between contiguous subsea equipment and method of installation of said connection

Protected countries

Granted: US

List of publications

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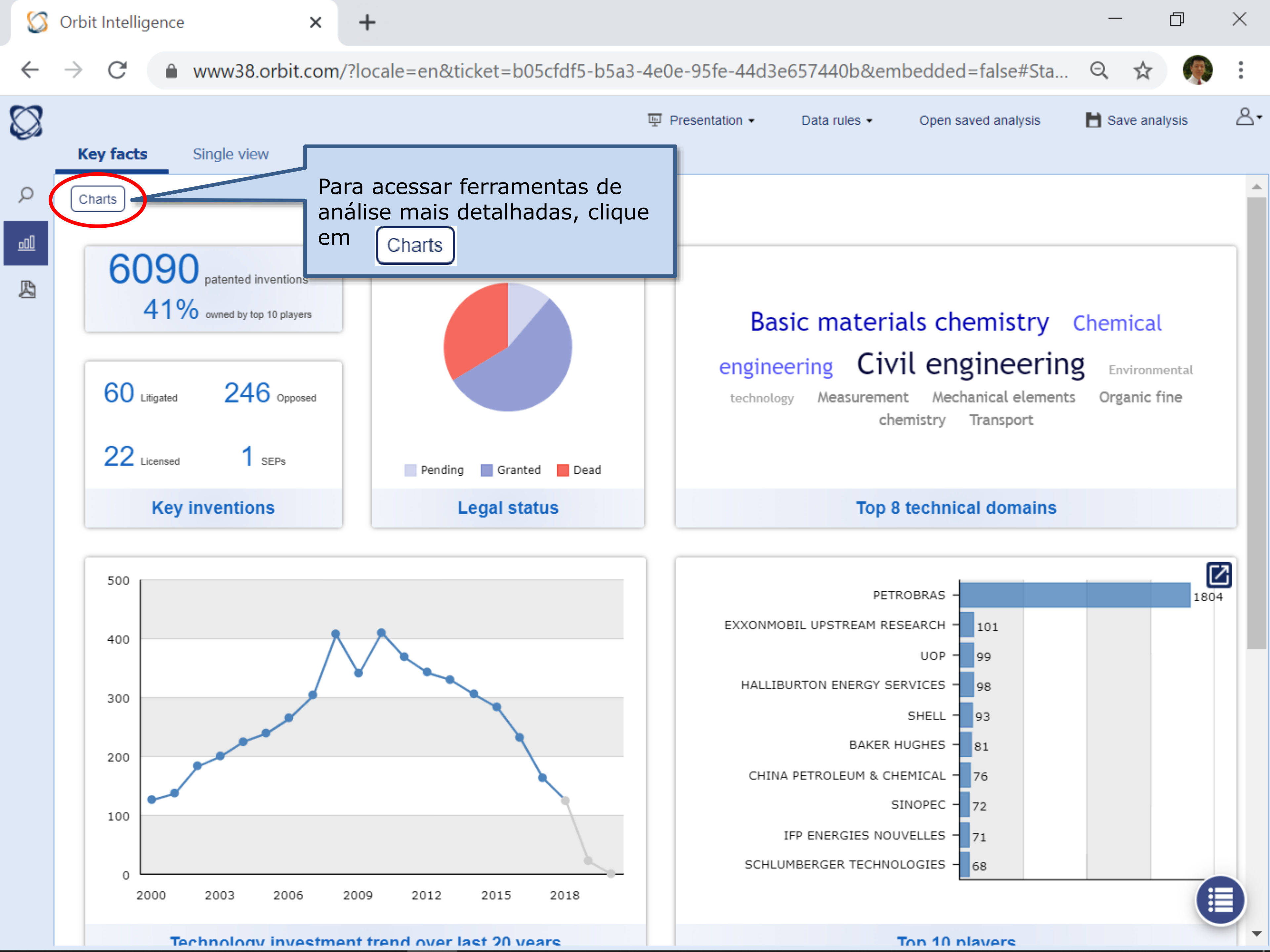
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6090 patented inventions
41% owned by top 10 players
60 Litigated
246 Opposed
22 Licensed
1 SEPs
Key inventions
Pending
Granted
Dead
Legal status
Basic materials chemistry
Chemical engineering
Civil engineering
Environmental technology
Measurement
Mechanical elements
Organic fine chemistry
Transport
Top 8 technical domains
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Technology investment trend over last 20 years
PETROBRAS 1804
EXXONMOBIL UPSTREAM RESEARCH 101
UOP 99
HALLIBURTON ENERGY SERVICES 98
SHELL 93
BAKER HUGHES 81
CHINA PETROLEUM & CHEMICAL 76
SINOPEC 72
IFP ENERGIES NOUVELLES 71
SCHLUMBERGER TECHNOLOGIES 68
Top 10 players

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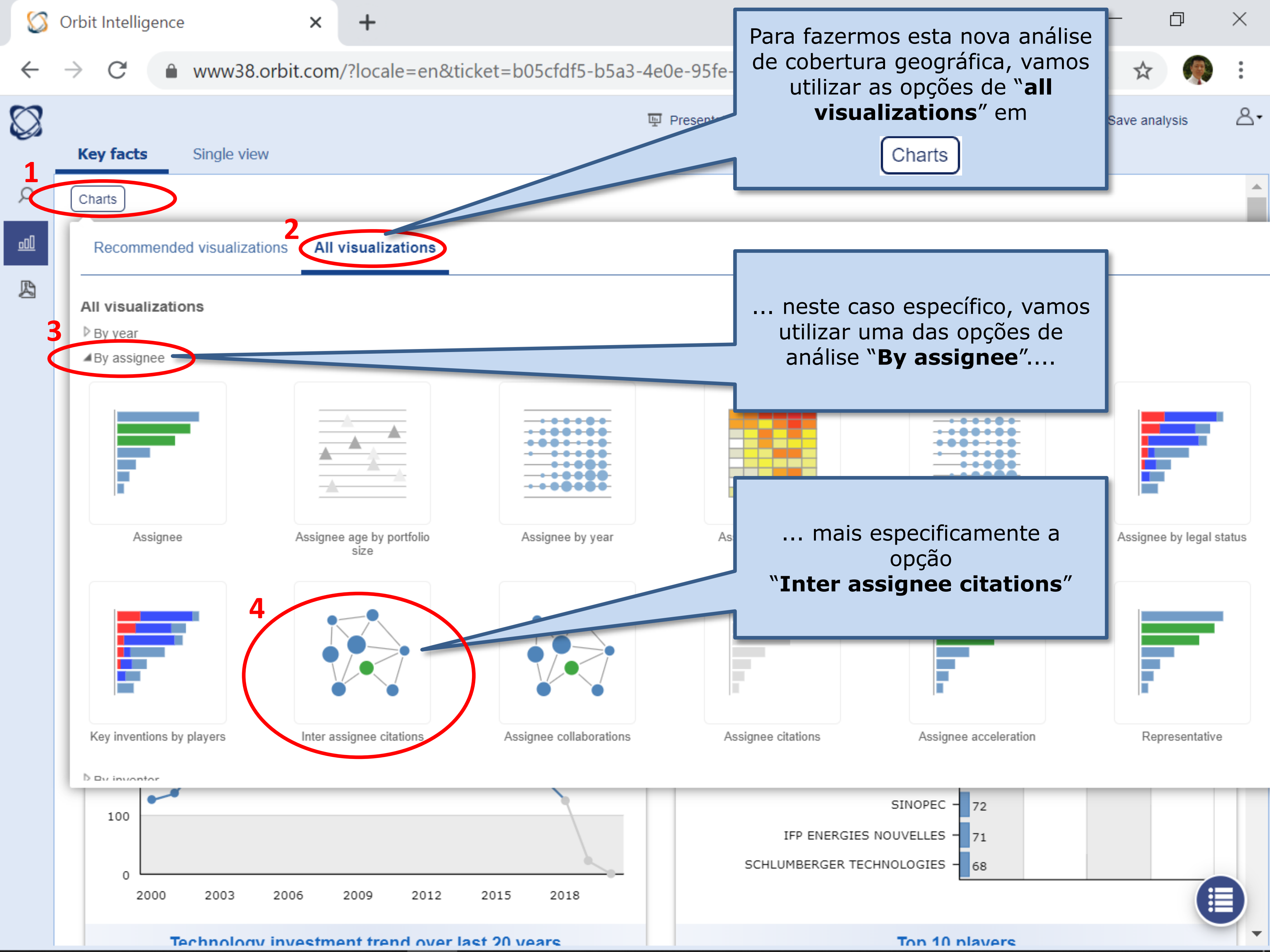
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Inter assignee citations
Assignee collaborations
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IFP ENERGIES NOUVELLES
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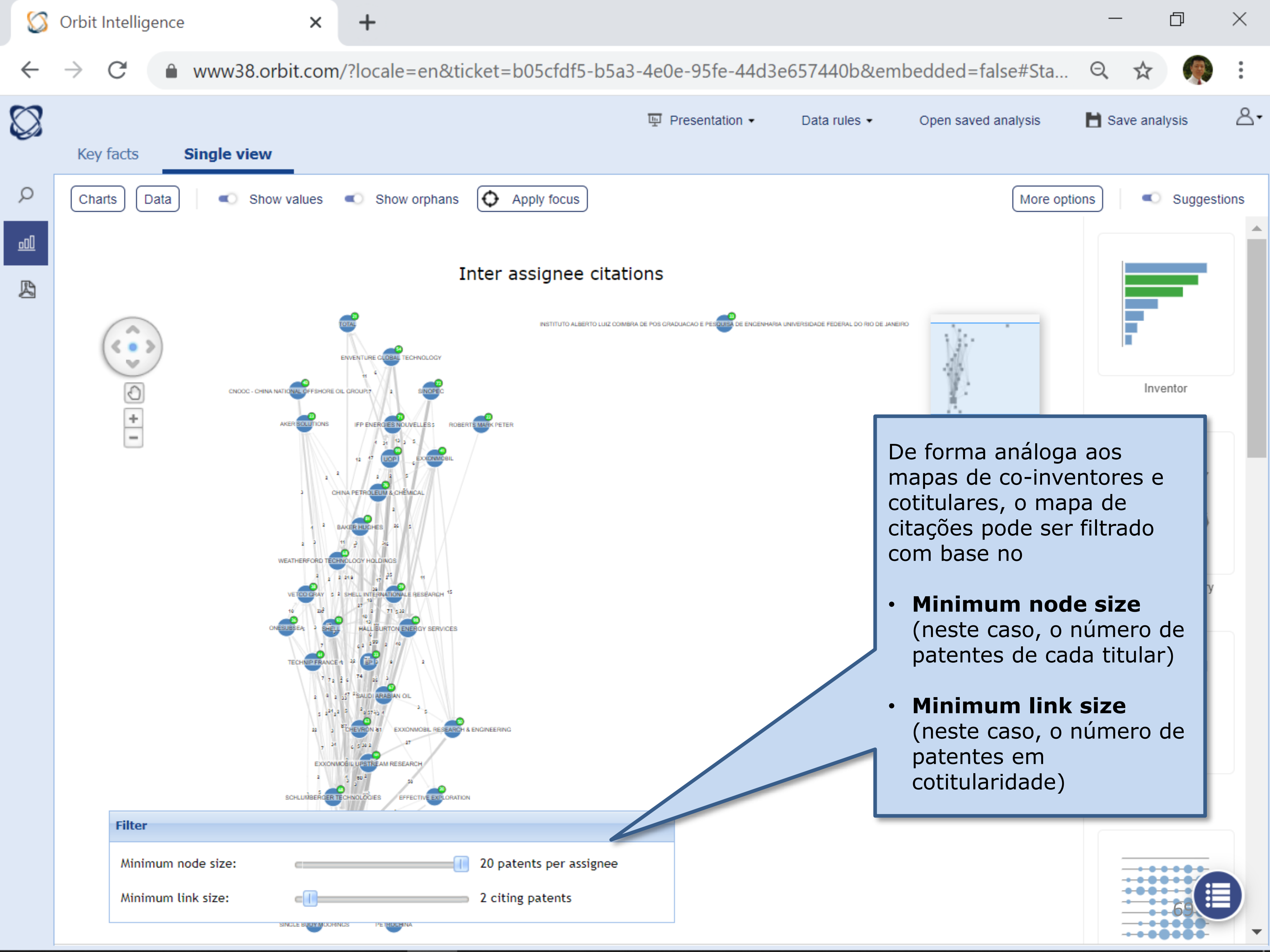
SCHLUMBERGER TECHNOLOGIES
68
Technology investment trend over last 20 years
Top 10 players

Para fazermos esta nova análise de cobertura geográfica, vamos utilizar as opções de “**all visualizations**” em

Charts

... neste caso específico, vamos utilizar uma das opções de análise “**By assignee**”....

... mais especificamente a opção “**Inter assignee citations**”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EXXONMOBIL UPSTREAM RESEARCH
SCHLUMBERGER TECHNOLOGIES
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SINGLE BUOY MOORINGS
PETROCHINA
INSTITUTO ALBERTO LUIZ COIMBRA DE POS GRADUACAO E PESQUISA DE ENGENHARIA UNIVERSIDADE FEDERAL DO RIO DE JANEIRO
Inventor

Inter assignee citations

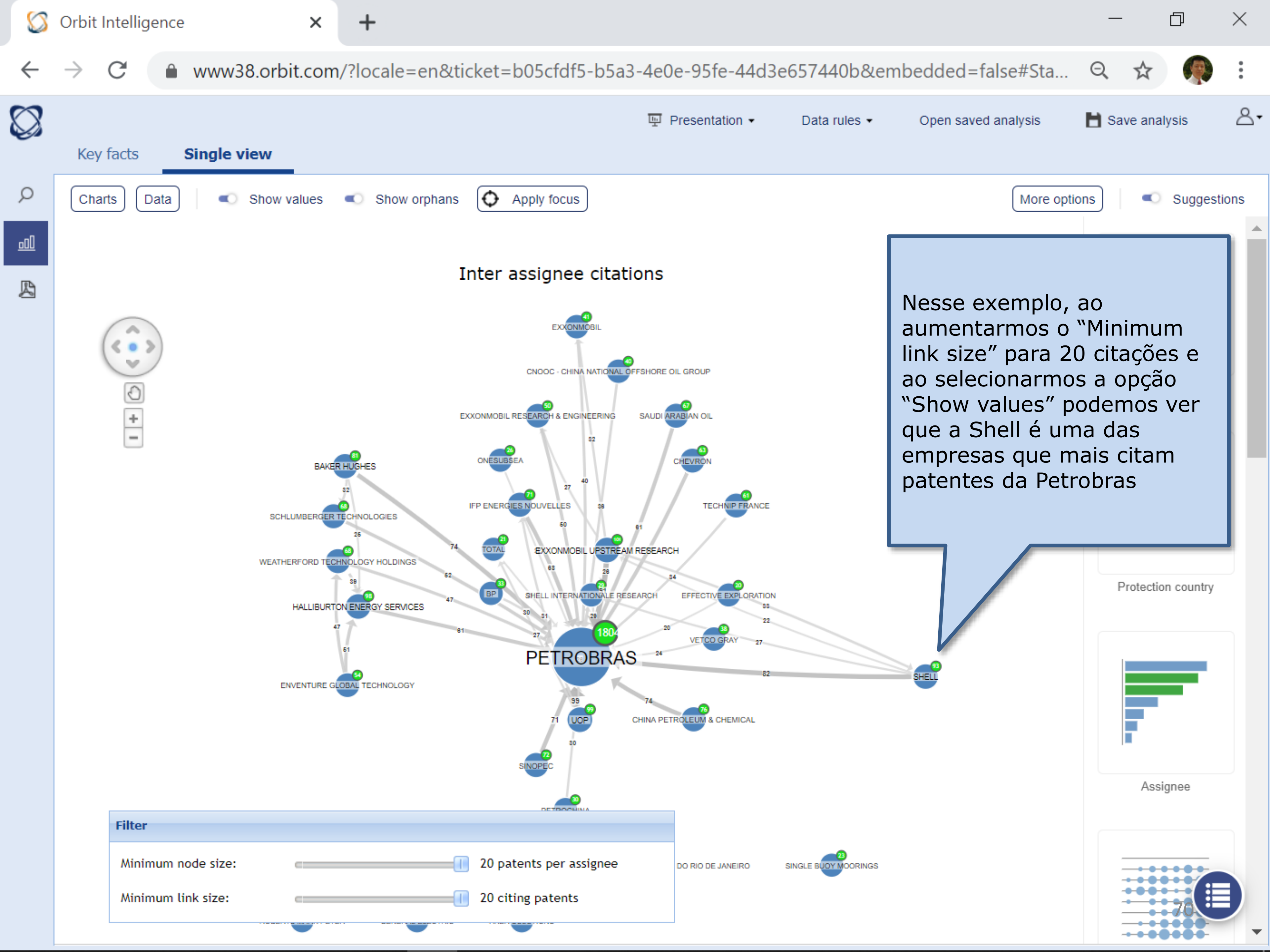
Filter

Minimum node size: 20 patents per assignee

Minimum link size: 2 citing patents

De forma análoga aos mapas de co-inventores e cotitulares, o mapa de citações pode ser filtrado com base no

- **Minimum node size** (neste caso, o número de patentes de cada titular)
- **Minimum link size** (neste caso, o número de patentes em cotitularidade)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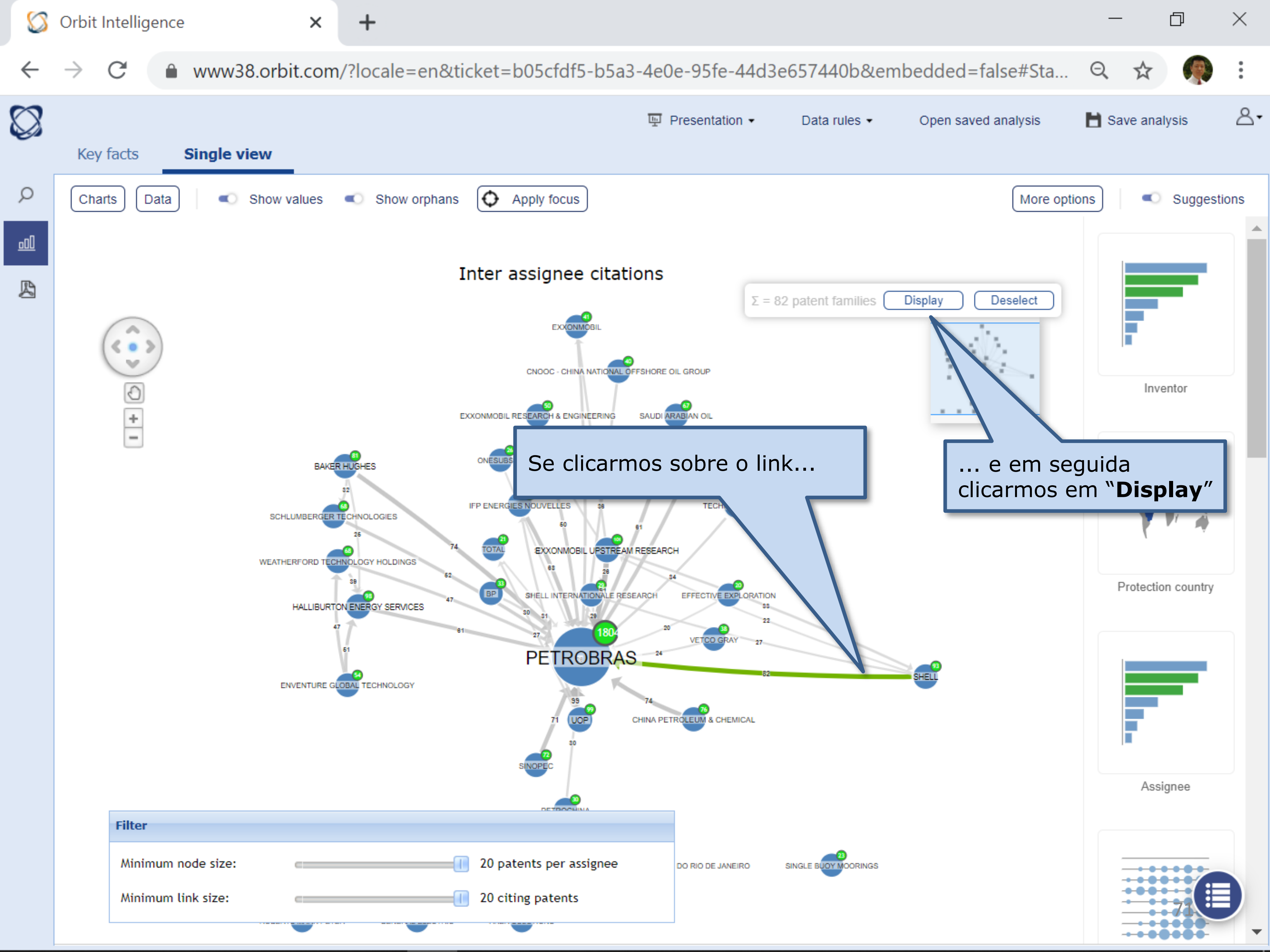
CHINA PETROLEUM & CHEMICAL
SINOPEC
DO RIO DE JANEIRO
SINGLE BUOY MOORINGS
Protection country
Assignee
Filter

Minimum node size: 20 patents per assignee

Minimum link size: 20 citing patents

Nesse exemplo, ao aumentarmos o “Minimum link size” para 20 citações e ao selecionarmos a opção “Show values” podemos ver que a Shell é uma das empresas que mais citam patentes da Petrobras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SINOPEC
PETROCHINA
DO RIO DE JANEIRO
SINGLE BUOY MOORINGS
Inventor
Protection country
Assignee

Σ = 82 patent families

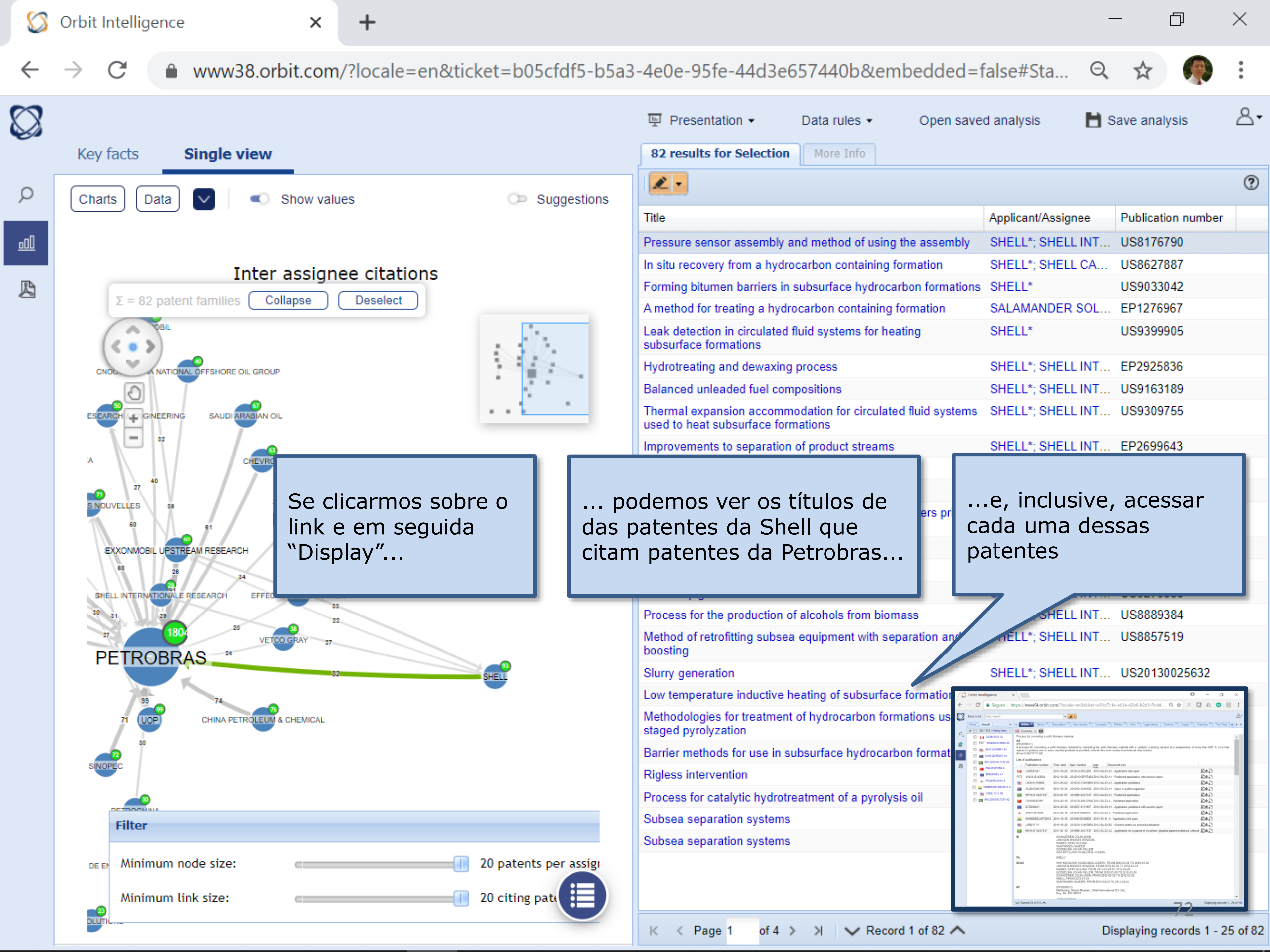
Filter

Minimum node size: 20 patents per assignee

Minimum link size: 20 citing patents

Se clicarmos sobre o link...

... e em seguida clicarmos em "**Display**"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82 results for Selection
More Info

Title	Applicant/Assignee	Publication number
Pressure sensor assembly and method of using the assembly	SHELL*; SHELL INT...	US8176790
In situ recovery from a hydrocarbon containing formation	SHELL*; SHELL CA...	US8627887
Forming bitumen barriers in subsurface hydrocarbon formations	SHELL*	US9033042
A method for treating a hydrocarbon containing formation	SALAMANDER SOL...	EP1276967
Leak detection in circulated fluid systems for heating subsurface formations	SHELL*	US9399905
Hydrotreating and dewaxing process	SHELL*; SHELL INT...	EP2925836
Balanced unleaded fuel compositions	SHELL*; SHELL INT...	US9163189
Thermal expansion accommodation for circulated fluid systems used to heat subsurface formations	SHELL*; SHELL INT...	US9309755
Improvements to separation of product streams	SHELL*; SHELL INT...	EP2699643
Process for the production of alcohols from biomass	SHELL INT...	US8889384
Method of retrofitting subsea equipment with separation and boosting	ELL*; SHELL INT...	US8857519
Slurry generation	SHELL*; SHELL INT...	US20130025632
Low temperature inductive heating of subsurface formatio		
Methodologies for treatment of hydrocarbon formations us staged pyrolyzation		
Barrier methods for use in subsurface hydrocarbon format		
Rigless intervention		
Process for catalytic hydrotreatment of a pyrolysis oil		
Subsea separation systems		
Subsea separation systems		

Page 1 of 4 · Record 1 of 82 · Displaying records 1 - 25 of 82

Se clicarmos sobre o link e em seguida “Display”...

... podemos ver os títulos de das patentes da Shell que citam patentes da Petrobras...

...e, inclusive, acessar cada uma dessas patentes

Apêndice 1

Recursos Adicionais do Módulo de Análise Silver Level

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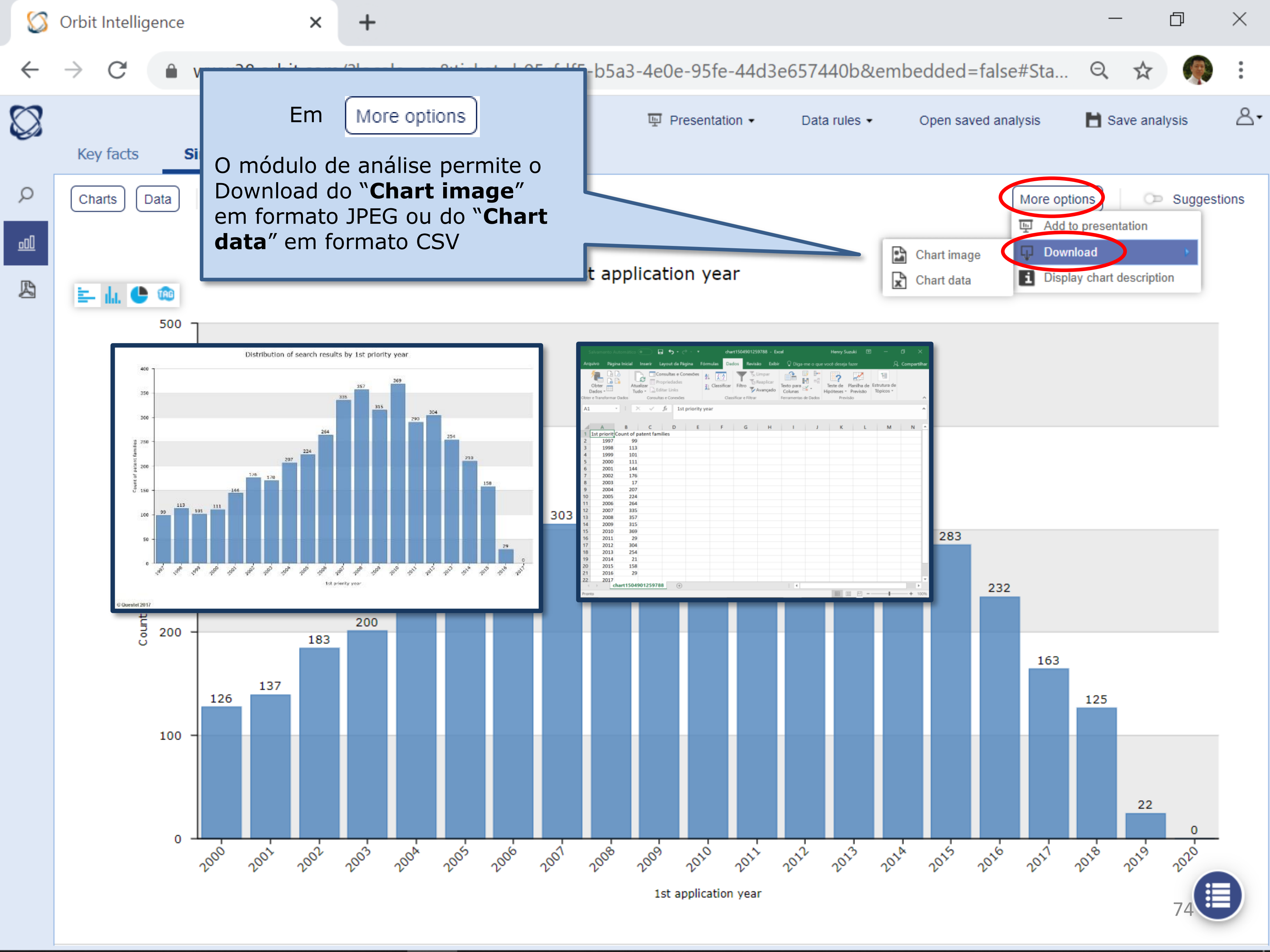
Em More options

O módulo de análise permite o Download do “**Chart image**” em formato JPEG ou do “**Chart data**” em formato CSV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1st application year
Distribution of search results by 1st priority year
Count of patent families
99
113
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1997	99
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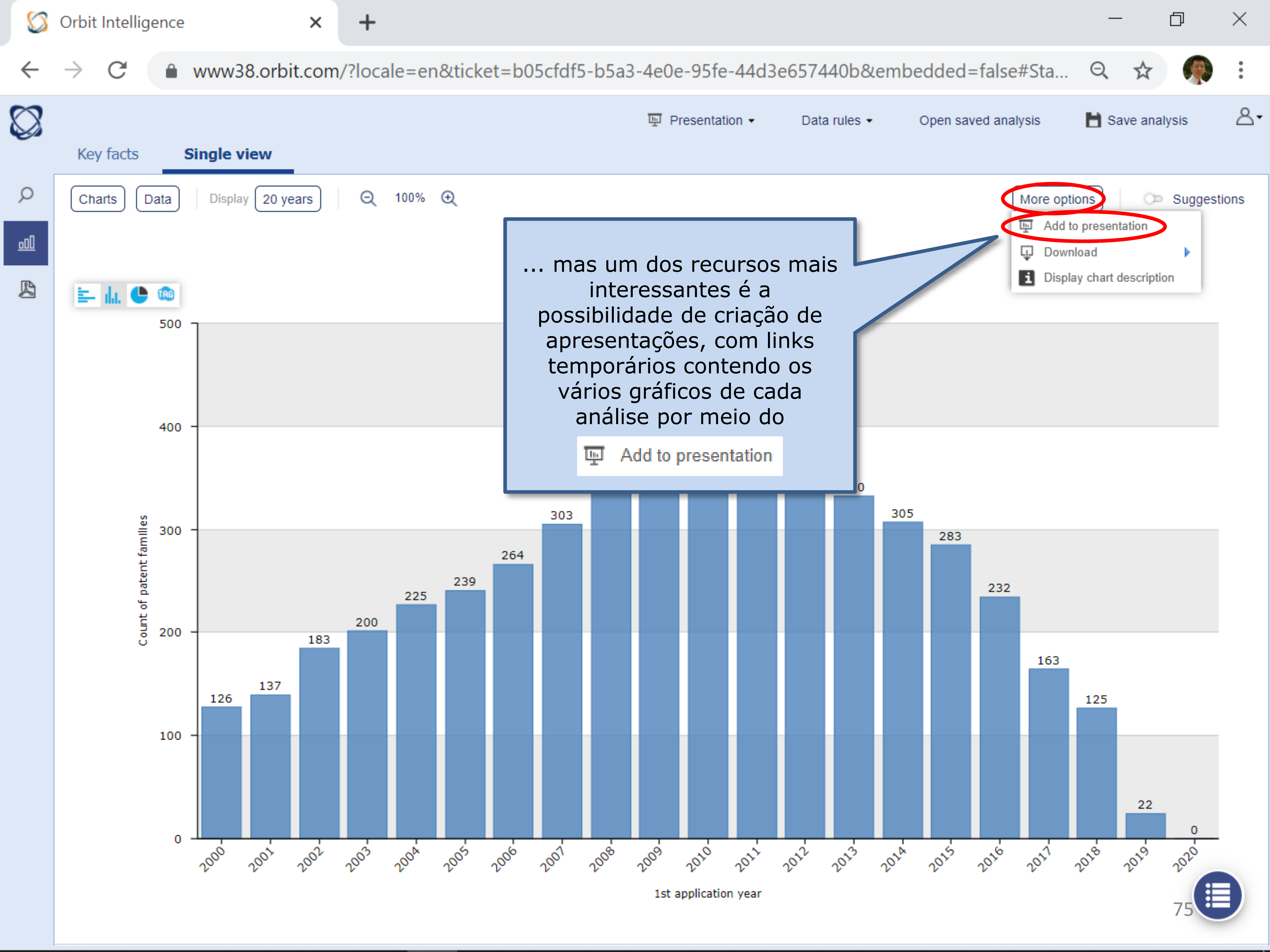
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... mas um dos recursos mais interessantes é a possibilidade de criação de apresentações, com links temporários contendo os vários gráficos de cada análise por meio do

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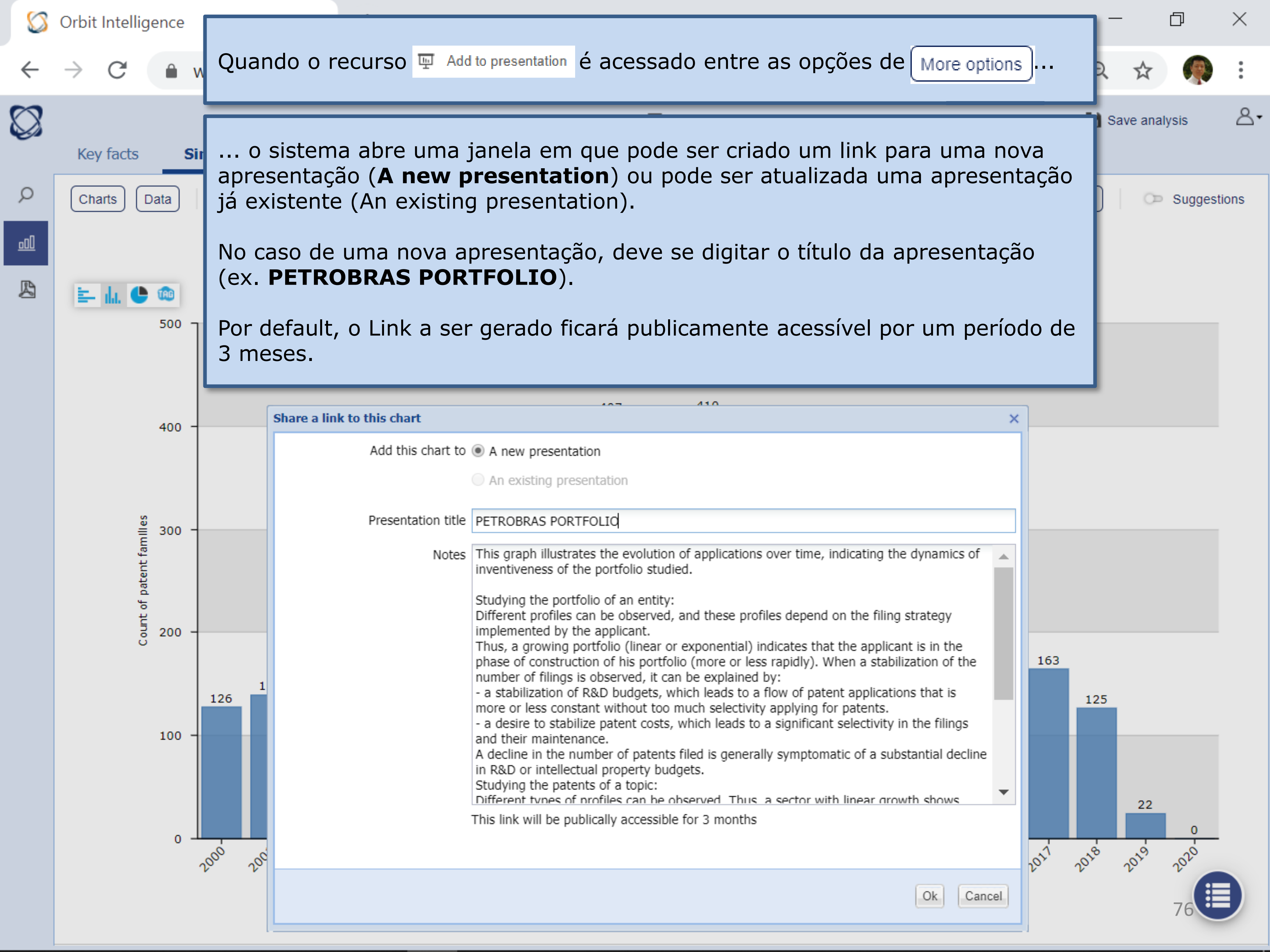

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Presentation title: PETROBRAS PORTFOLIO

Notes: This graph illustrates the evolution of applications over time, indicating the dynamics of inventiveness of the portfolio studied.

Studying the portfolio of an entity:
Different profiles can be observed, and these profiles depend on the filing strategy implemented by the applicant.
Thus, a growing portfolio (linear or exponential) indicates that the applicant is in the phase of construction of his portfolio (more or less rapidly). When a stabilization of the number of filings is observed, it can be explained by:
- a stabilization of R&D budgets, which leads to a flow of patent applications that is more or less constant without too much selectivity applying for patents.
- a desire to stabilize patent costs, which leads to a significant selectivity in the filings and their maintenance.
A decline in the number of patents filed is generally symptomatic of a substantial decline in R&D or intellectual property budgets.
Studying the patents of a topic:
Different types of profiles can be observed. Thus, a sector with linear growth shows

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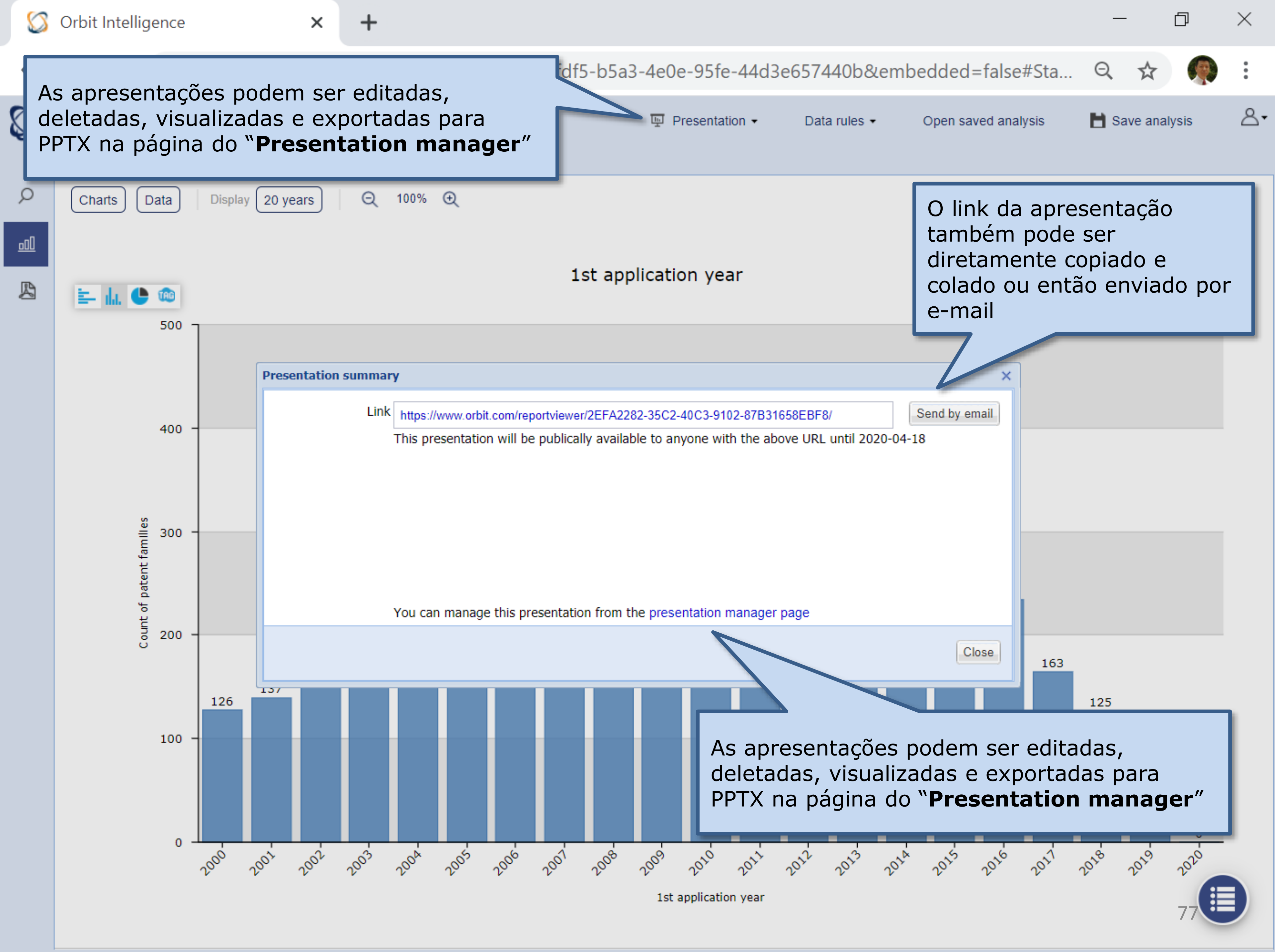
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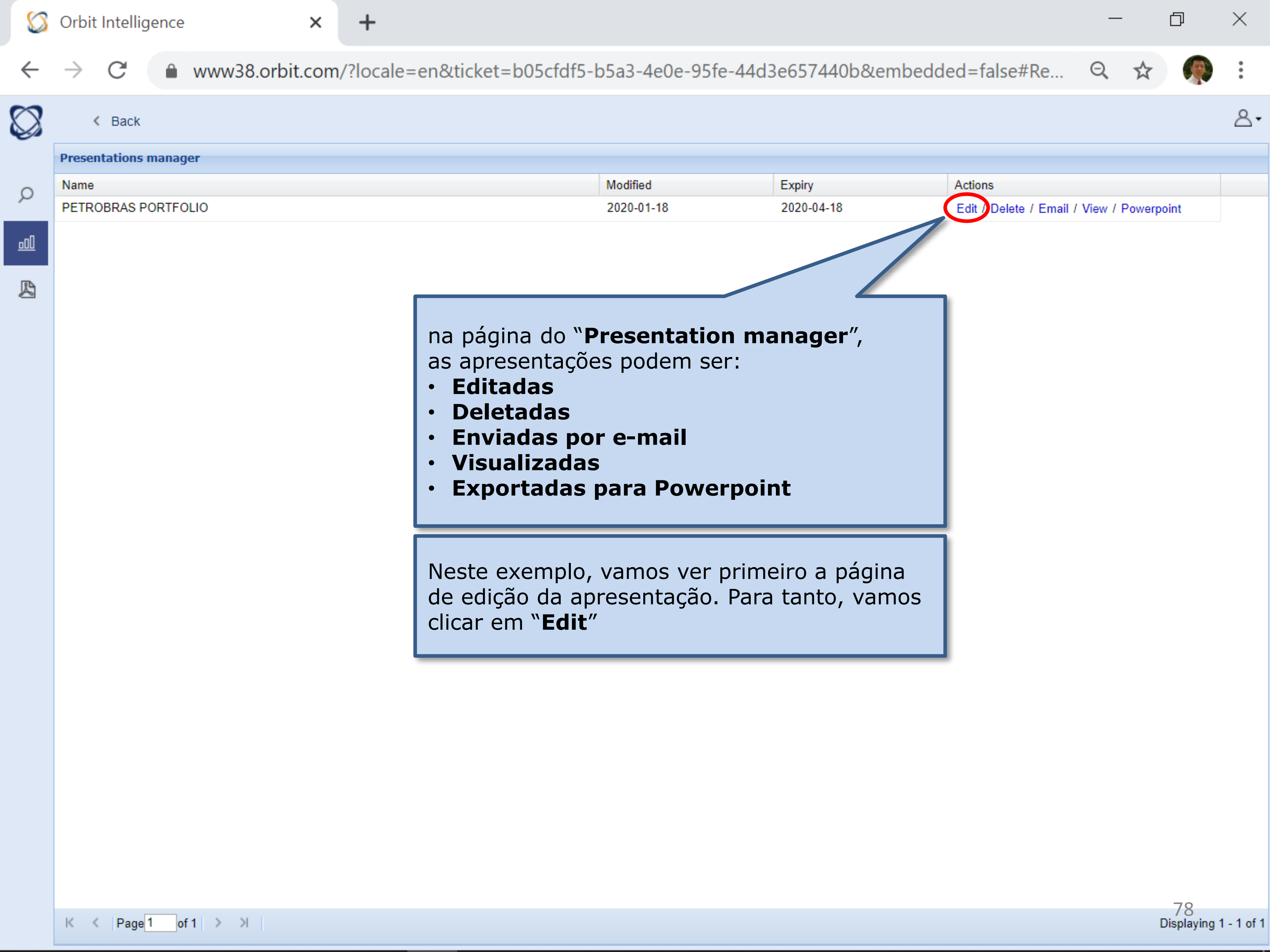
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Name	Modified	Expiry	Actions
PETROBRAS PORTFOLIO	2020-01-18	2020-04-18	Edit / Delete / Email / View / Powerpoint

Page 1 of 1
Displaying 1 - 1 of 1

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- **Deletadas**
- **Enviadas por e-mail**
- **Visualizadas**
- **Exportadas para Powerpoint**

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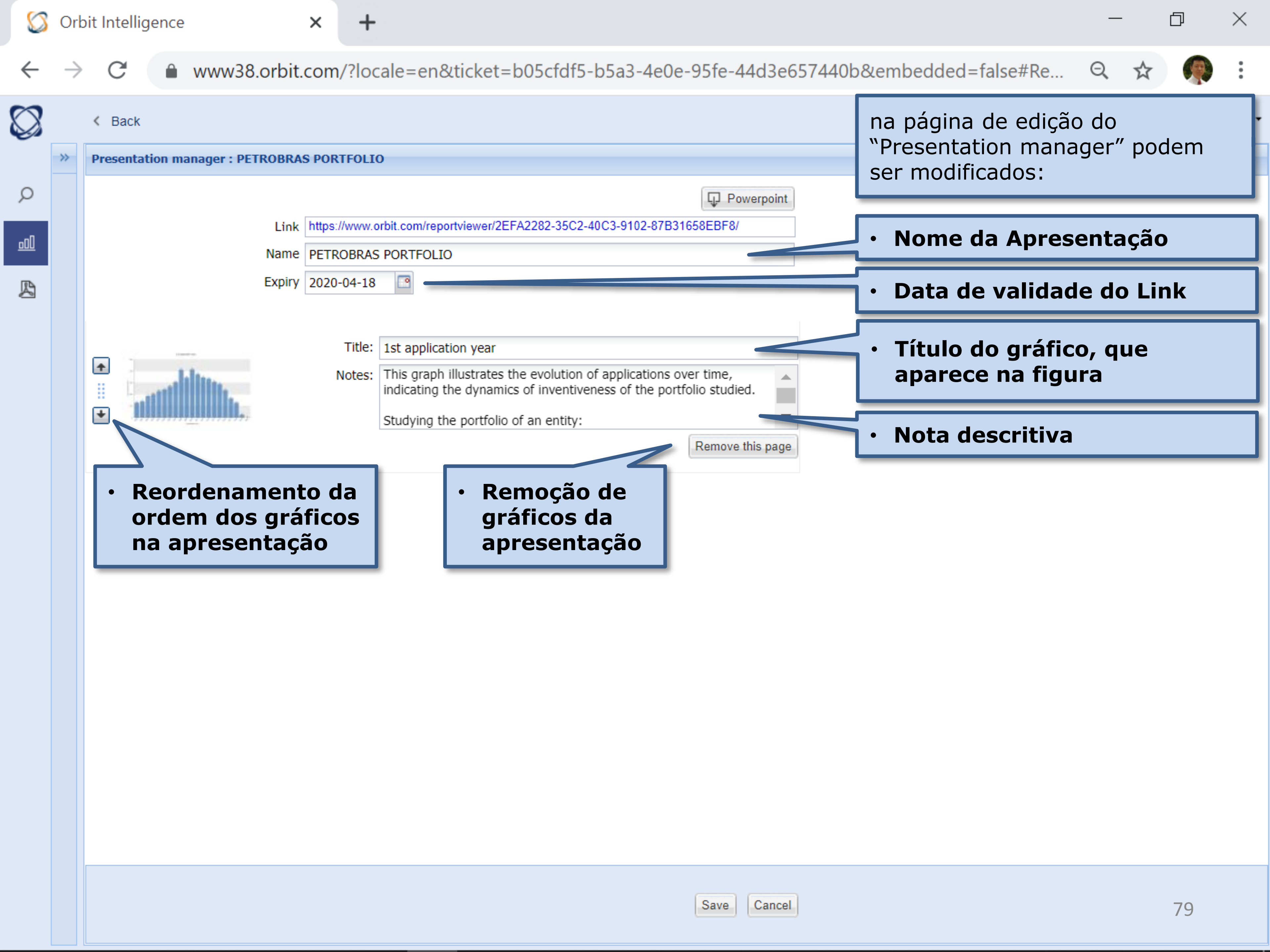
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Name PETROBRAS PORTFOLIO

Expiry 2020-04-18

Title: 1st application year

Notes: This graph illustrates the evolution of applications over time, indicating the dynamics of inventiveness of the portfolio studied.

Studying the portfolio of an entity:

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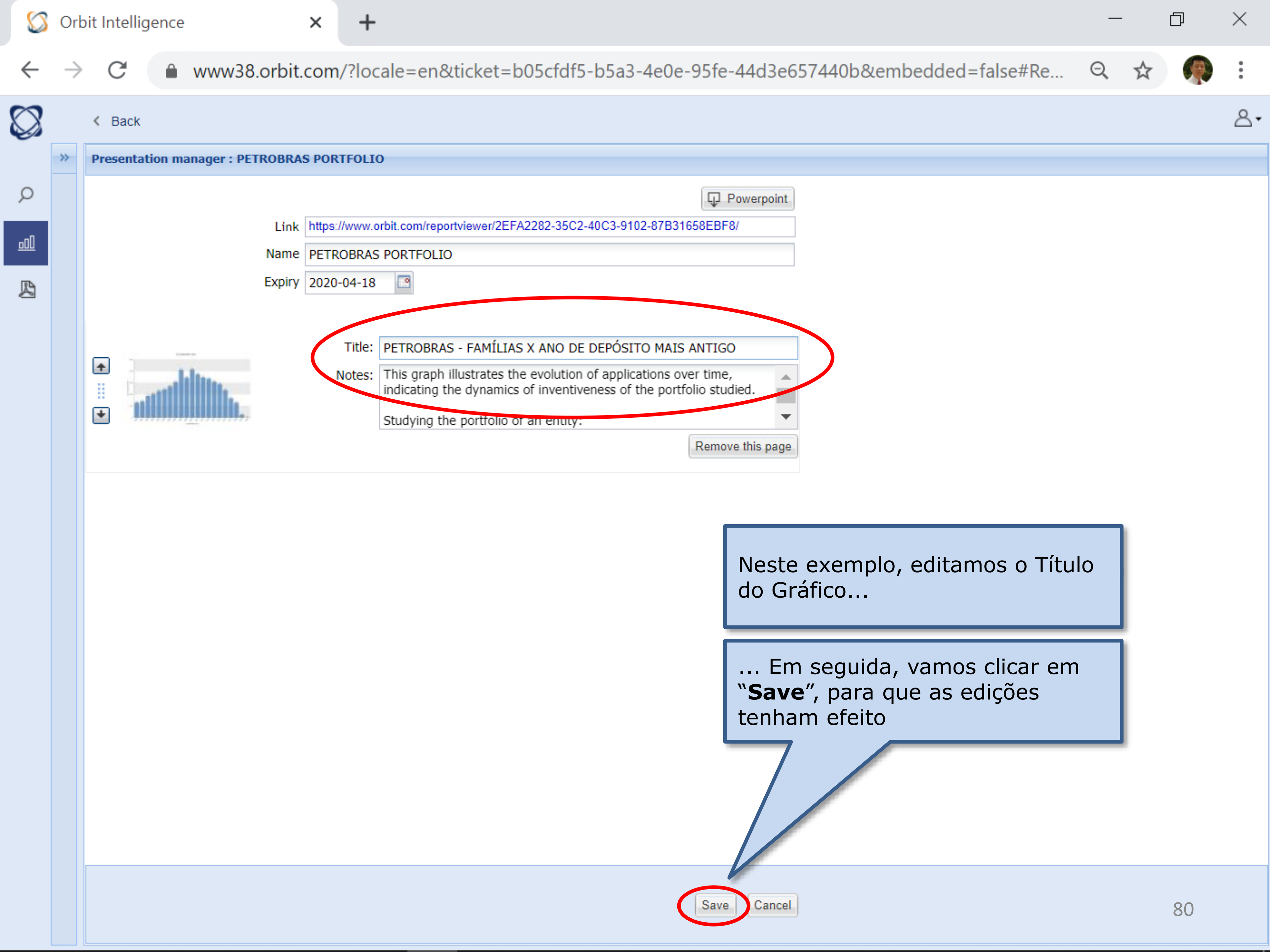
- **Nome da Apresentação**
- **Data de validade do Link**
- **Título do gráfico, que aparece na figura**
- **Nota descritiva**
- **Reordenamento da ordem dos gráficos na apresentação**
- **Remoção de gráficos da apresentação**



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Presentation manager : PETROBRAS PORTFOLIO
Powerpoint
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Link: https://www.orbit.com/reportviewer/2EFA2282-35C2-40C3-9102-87B31658EBF8/

Name: PETROBRAS PORTFOLIO

Expiry: 2020-04-18

Title: PETROBRAS - FAMÍLIAS X ANO DE DEPÓSITO MAIS ANTIGO

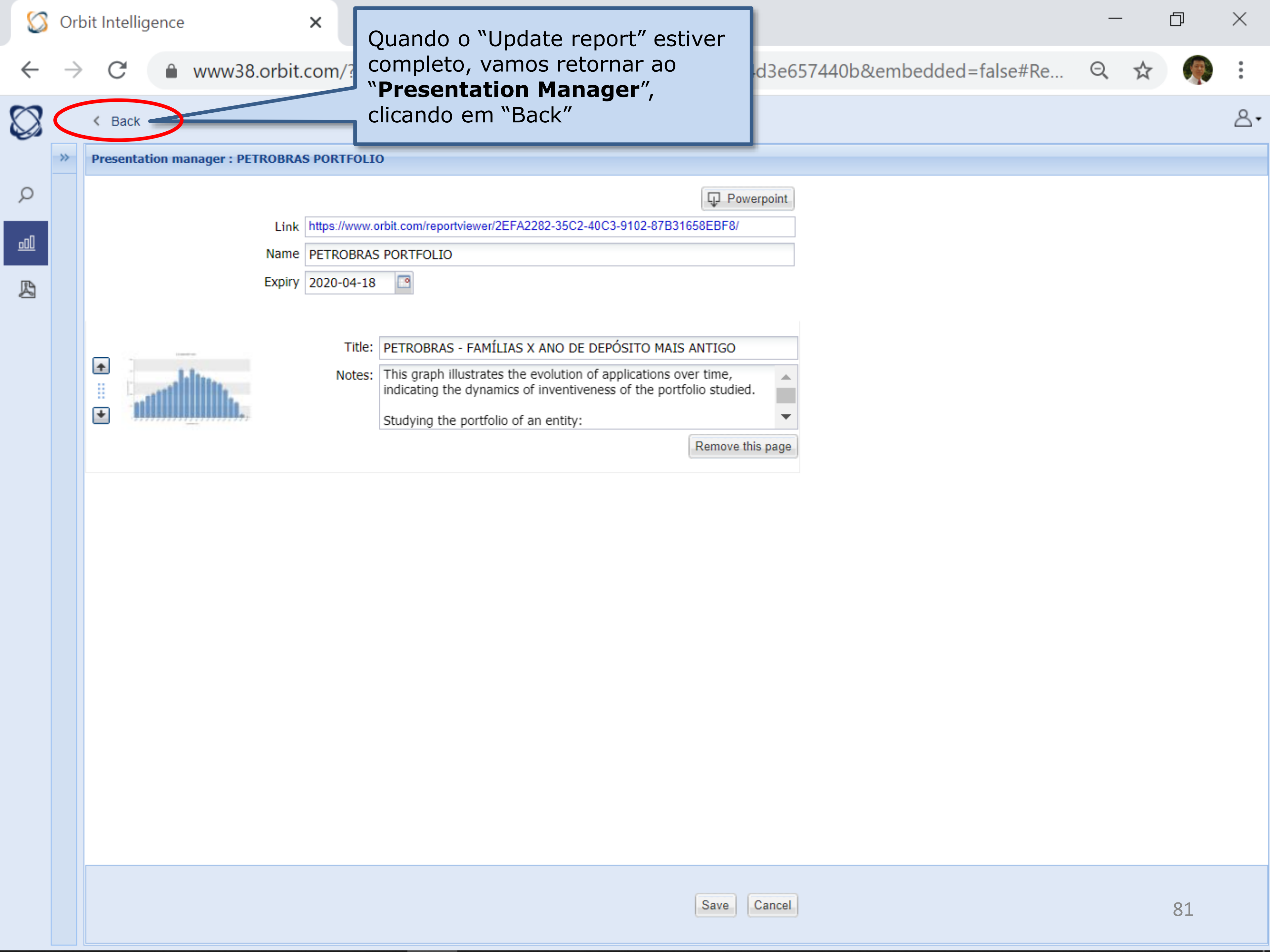
Notes: This graph illustrates the evolution of applications over time, indicating the dynamics of inventiveness of the portfolio studied.

Studying the portfolio of an entity:

Neste exemplo, editamos o Título do Gráfico...

... Em seguida, vamos clicar em "**Save**", para que as edições tenham efeito

Quando o “Update report” estiver completo, vamos retornar ao “**Presentation Manager**”, clicando em “Back”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Presentation manager : PETROBRAS PORTFOLIO

Link: https://www.orbit.com/reportviewer/2EFA2282-35C2-40C3-9102-87B31658EBF8/

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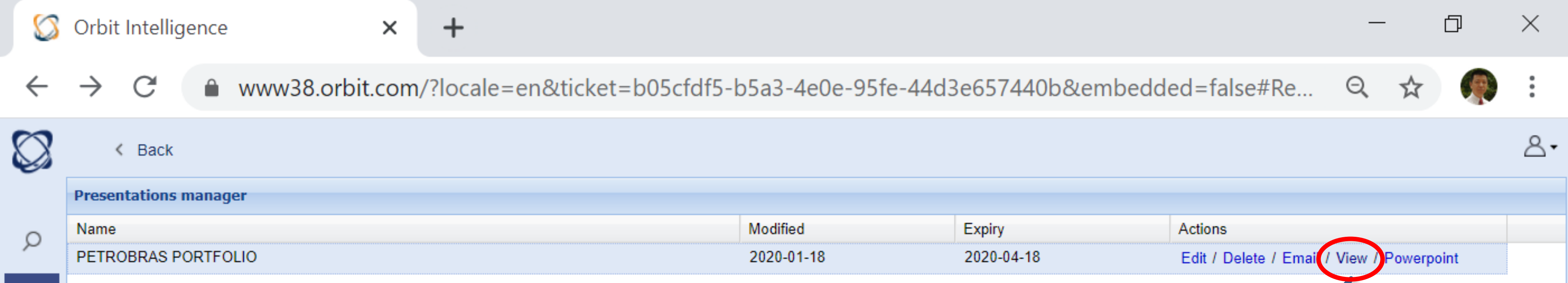
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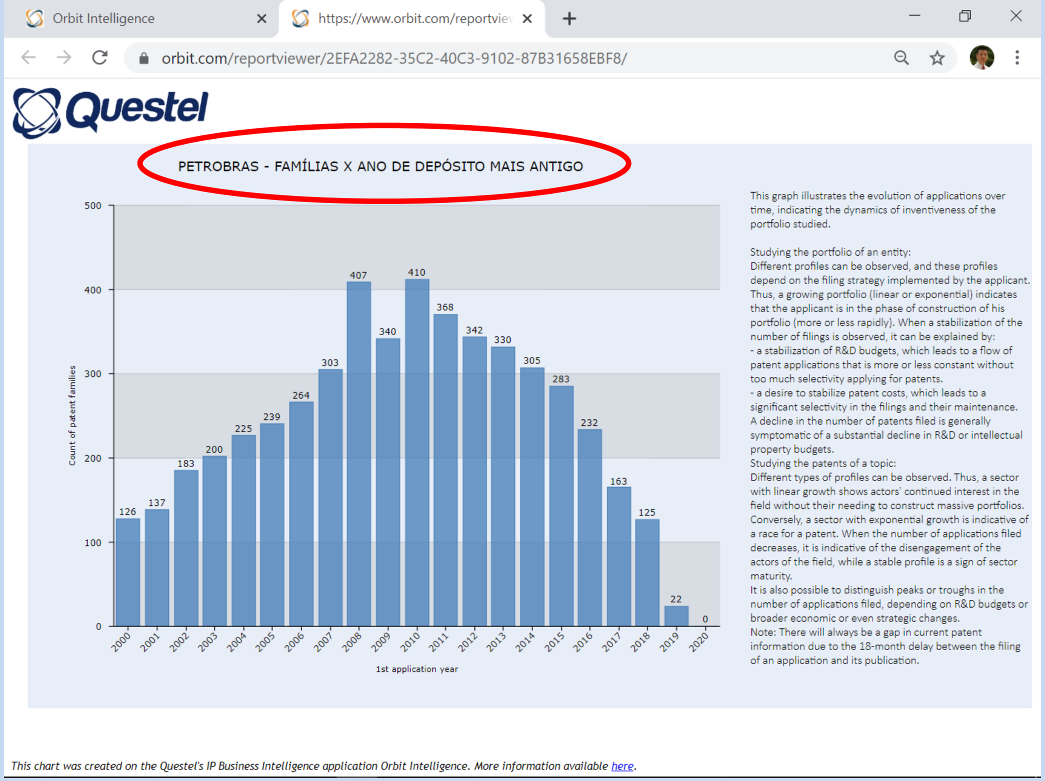
Presentations manager

Name	Modified	Expiry	Actions
PETROBRAS PORTFOLIO	2020-01-18	2020-04-18	Edit / Delete / Email / View / Powerpoint

Repare que as edições no título e nas notas do gráfico se refletem na visualização online do relatório: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Questel
PETROBRAS - FAMÍLIAS X ANO DE DEPÓSITO MAIS ANTIGO
500
400
300
200
100
0
Count of patent families
126
137
183
200
225
239
264
303
407
340
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163
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2002
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2013
2014
2015
2016
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2018
2019
2020
1st application year

This graph illustrates the evolution of applications over time, indicating the dynamics of inventiveness of the portfolio studied.

Studying the portfolio of an entity:
Different profiles can be observed, and these profiles depend on the filing strategy implemented by the applicant. Thus, a growing portfolio (linear or exponential) indicates that the applicant is in the phase of construction of his portfolio (more or less rapidly). When a stabilization of the number of filings is observed, it can be explained by:
- a stabilization of R&D budgets, which leads to a flow of patent applications that is more or less constant without too much selectivity applying for patents.
- a desire to stabilize patent costs, which leads to a significant selectivity in the filings and their maintenance.

A decline in the number of patents filed is generally symptomatic of a substantial decline in R&D or intellectual property budgets.
Studying the patents of a topic:
Different types of profiles can be observed. Thus, a sector with linear growth shows actors' continued interest in the field without their needing to construct massive portfolios. Conversely, a sector with exponential growth is indicative of a race for a patent. When the number of applications filed decreases, it is indicative of the disengagement of the actors of the field, while a stable profile is a sign of sector maturity.
It is also possible to distinguish peaks or troughs in the number of applications filed, depending on R&D budgets or broader economic or even strategic changes.
Note: There will always be a gap in current patent information due to the 18-month delay between the filing of an application and its publication.

This chart was created on the Questel's IP Business Intelligence application Orbit Intelligence. More information available here.

Page 1 of 1

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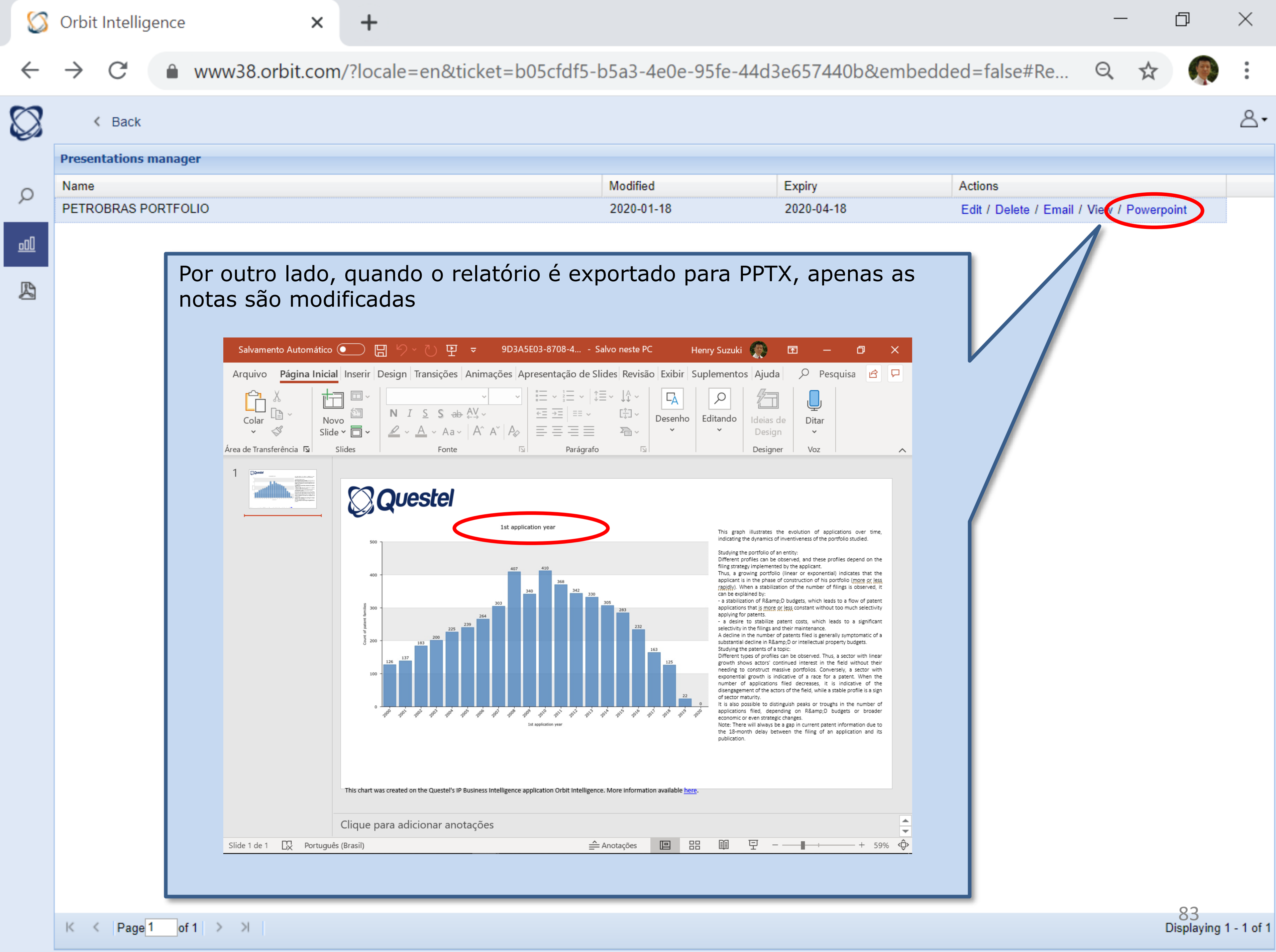
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Presentations manager

Name	Modified	Expiry	Actions
PETROBRAS PORTFOLIO	2020-01-18	2020-04-18	Edit / Delete / Email / View / Powerpoint

Por outro lado, quando o relatório é exportado para PPTX, apenas as notas são modificadas

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Henry Suzuki
Arquivo
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Transições
Animações
Apresentação de Slides
Revisão
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Suplementos
Ajuda
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Colar
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Desenho
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Ideias de Design
Ditar
Área de Transferência
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Designer
Voz
Questel
1st application year
Count of patent families
500
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Note: There will always be a gap in current patent information due to the 18-month delay between the filing of an application and its publication.

This chart was created on the Questel's IP Business Intelligence application Orbit Intelligence. More information available here.

Clique para adicionar anotações

Slide 1 de 1
Português (Brasil)
Anotações
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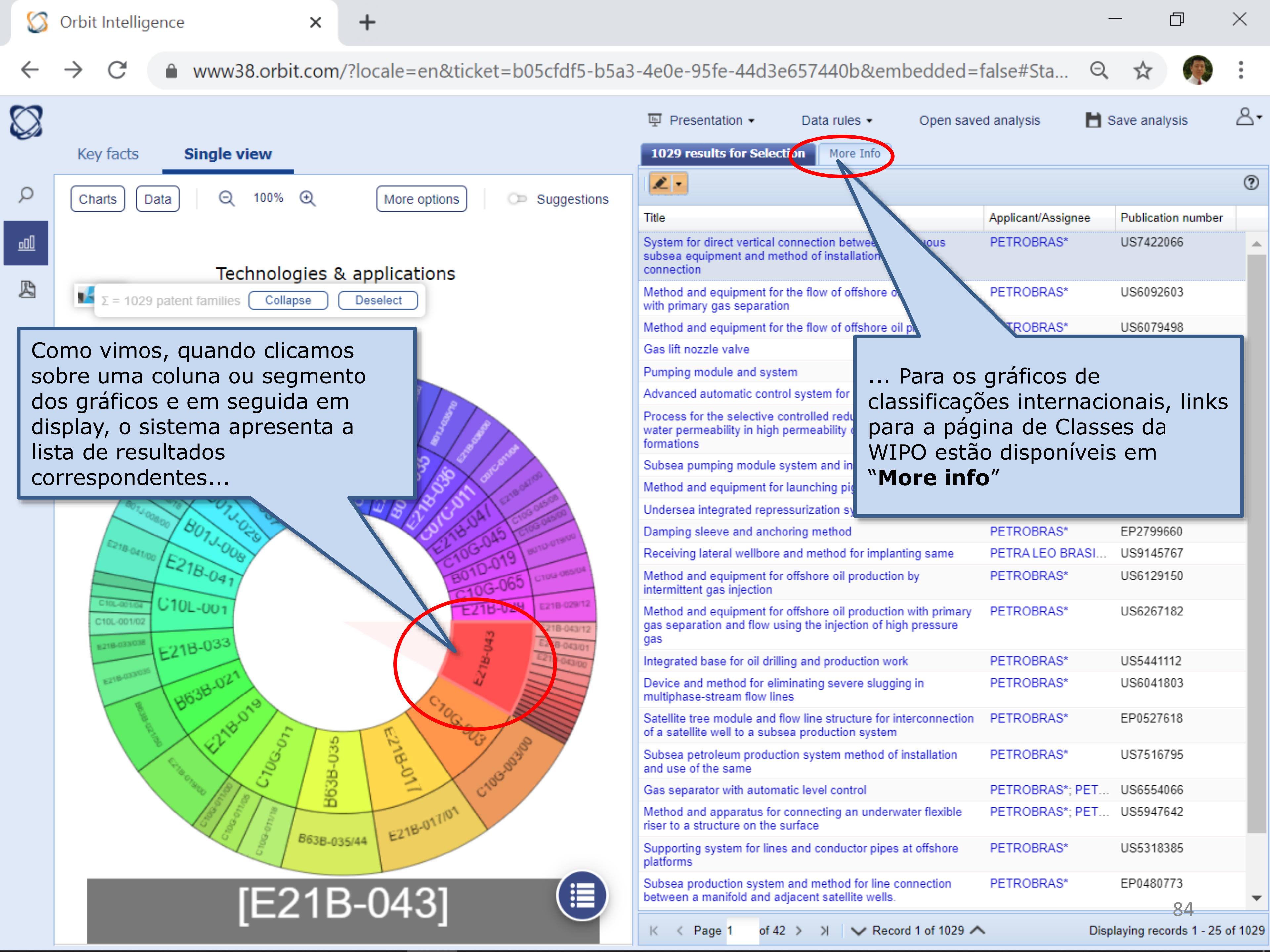
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Technologies & applications
Σ = 1029 patent families
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C10G-003/00
E21B-017
E21B-017/01
B63B-035
B63B-035/44
C10G-011
E21B-019
B63B-021
E21B-033
C10L-001
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E21B-036
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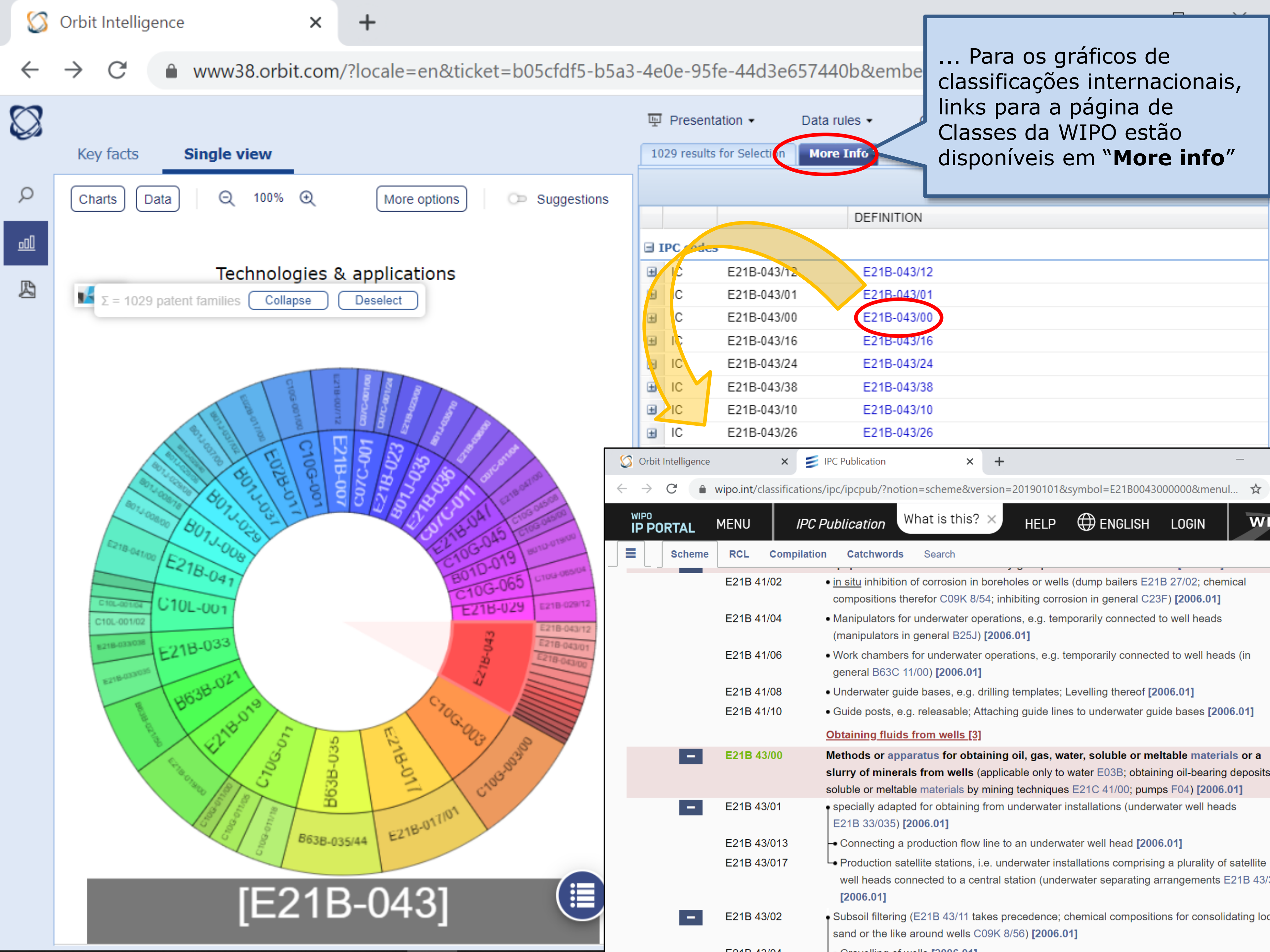
E21B-047
C10G-045
B01D-019
C10G-065
[E21B-043]
1029 results for Selection
More Info
Page 1
of 42
Record 1 of 1029
Displaying records 1 - 25 of 1029

Como vimos, quando clicamos sobre uma coluna ou segmento dos gráficos e em seguida em display, o sistema apresenta a lista de resultados correspondentes...

... Para os gráficos de classificações internacionais, links para a página de Classes da WIPO estão disponíveis em "**More info**"

Title	Applicant/Assignee	Publication number
System for direct vertical connection betwee ous subsea equipment and method of installation connection	PETROBRAS*	US7422066
Method and equipment for the flow of offshore o with primary gas separation	PETROBRAS*	US6092603
Method and equipment for the flow of offshore oil p	TROBRAS*	US6079498
Gas lift nozzle valve		
Pumping module and system		
Advanced automatic control system for		
Process for the selective controlled redu water permeability in high permeability formations		
Subsea pumping module system and in		
Method and equipment for launching pi		
Undersea integrated repressurization sy		
Damping sleeve and anchoring method	PETROBRAS*	EP2799660
Receiving lateral wellbore and method for implanting same	PETRA LEO BRASI...	US9145767
Method and equipment for offshore oil production by intermittent gas injection	PETROBRAS*	US6129150
Method and equipment for offshore oil production with primary gas separation and flow using the injection of high pressure gas	PETROBRAS*	US6267182
Integrated base for oil drilling and production work	PETROBRAS*	US5441112
Device and method for eliminating severe slugging in multiphase-stream flow lines	PETROBRAS*	US6041803
Satellite tree module and flow line structure for interconnection of a satellite well to a subsea production system	PETROBRAS*	EP0527618
Subsea petroleum production system method of installation and use of the same	PETROBRAS*	US7516795
Gas separator with automatic level control	PETROBRAS*; PET...	US6554066
Method and apparatus for connecting an underwater flexible riser to a structure on the surface	PETROBRAS*; PET...	US5947642
Supporting system for lines and conductor pipes at offshore platforms	PETROBRAS*	US5318385
Subsea production system and method for line connection between a manifold and adjacent satellite wells.	PETROBRAS*	EP0480773

… Para os gráficos de classificações internacionais, links para a página de Classes da WIPO estão disponíveis em "**More info**"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Technologies & applications
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E21B-017
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C10L-001
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B01J-008
B01J-029
B01J-037
E02B-017
C10G-001
E21B-007
C07C-001
E21B-023
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E21B-036
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E21B-029
[E21B-043]

DEFINITION

IPC codes

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IC	E21B-043/01	E21B-043/01
IC	E21B-043/00	E21B-043/00
IC	E21B-043/16	E21B-043/16
IC	E21B-043/24	E21B-043/24
IC	E21B-043/38	E21B-043/38
IC	E21B-043/10	E21B-043/10
IC	E21B-043/26	E21B-043/26

Orbit Intelligence
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WIPO IP PORTAL
MENU
IPC Publication
What is this?
HELP
ENGLISH
LOGIN
Scheme
RCL
Compilation
Catchwords
Search

E21B 41/02	• in situ inhibition of corrosion in boreholes or wells (dump bailers E21B 27/02; chemical compositions therefor C09K 8/54; inhibiting corrosion in general C23F) [2006.01]
E21B 41/04	• Manipulators for underwater operations, e.g. temporarily connected to well heads (manipulators in general B25J) [2006.01]
E21B 41/06	• Work chambers for underwater operations, e.g. temporarily connected to well heads (in general B63C 11/00) [2006.01]
E21B 41/08	• Underwater guide bases, e.g. drilling templates; Levelling thereof [2006.01]
E21B 41/10	• Guide posts, e.g. releasable; Attaching guide lines to underwater guide bases [2006.01]

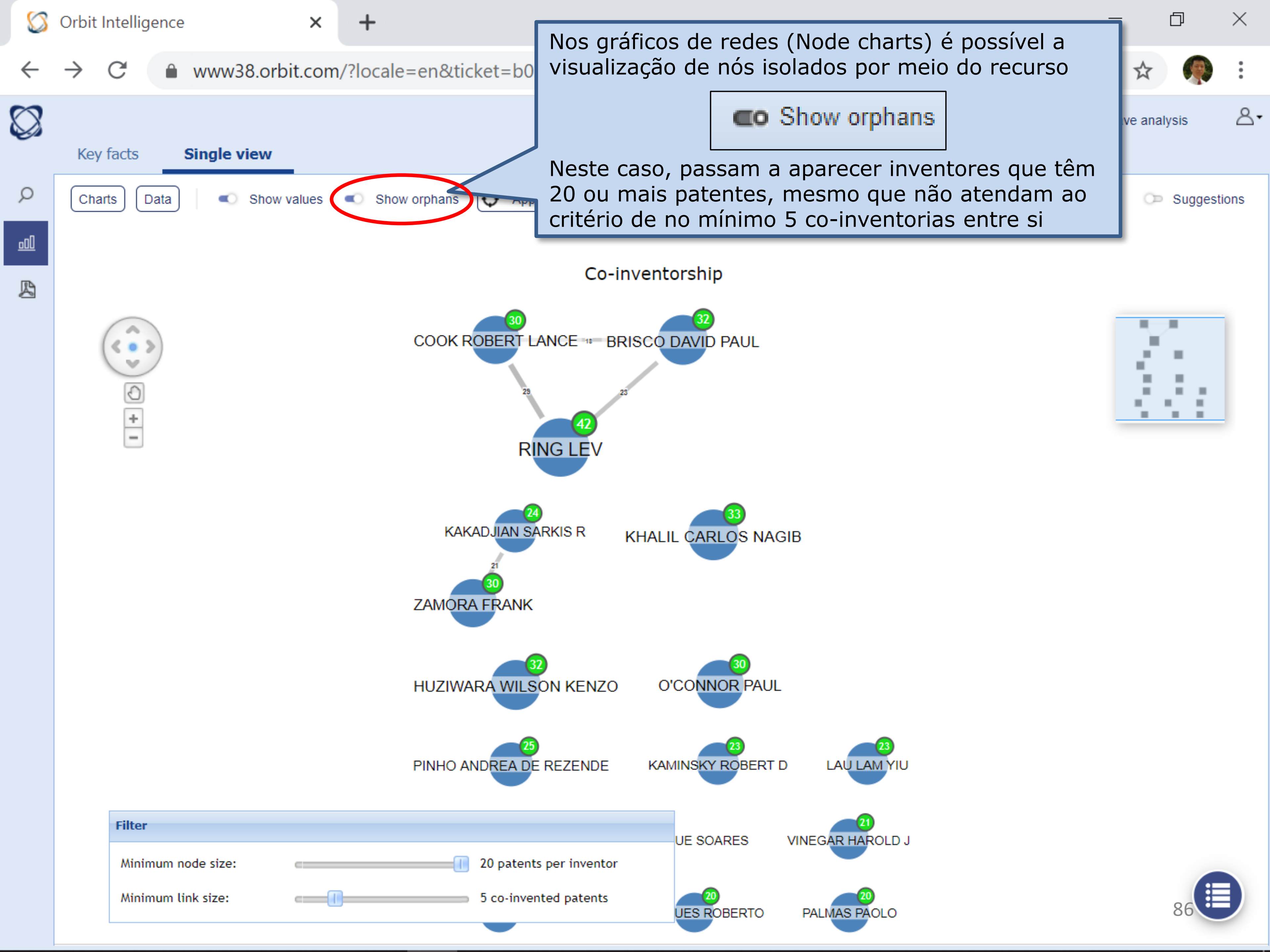
Obtaining fluids from wells [3]

E21B 43/00	**Methods or apparatus for obtaining oil, gas, water, soluble or meltable materials or a slurry of minerals from wells** (applicable only to water E03B; obtaining oil-bearing deposits soluble or meltable materials by mining techniques E21C 41/00; pumps F04) [2006.01]
E21B 43/01	• specially adapted for obtaining from underwater installations (underwater well heads E21B 33/035) [2006.01]
E21B 43/013	•• Connecting a production flow line to an underwater well head [2006.01]
E21B 43/017	•• Production satellite stations, i.e. underwater installations comprising a plurality of satellite well heads connected to a central station (underwater separating arrangements E21B 43/ [2006.01]
E21B 43/02	• Subsoil filtering (E21B 43/11 takes precedence; chemical compositions for consolidating loo sand or the like around wells C09K 8/56) [2006.01]
E21B 43/04	•• Gravelling of wells [2006.01]

Nos gráficos de redes (Node charts) é possível a visualização de nós isolados por meio do recurso

Show orphans

Neste caso, passam a aparecer inventores que têm 20 ou mais patentes, mesmo que não atendam ao critério de no mínimo 5 co-inventorias entre si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Co-inventorship
COOK ROBERT LANCE
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BRISCO DAVID PAUL
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29
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RING LEV
42
KAKADJIAN SARKIS R
24
21
ZAMORA FRANK
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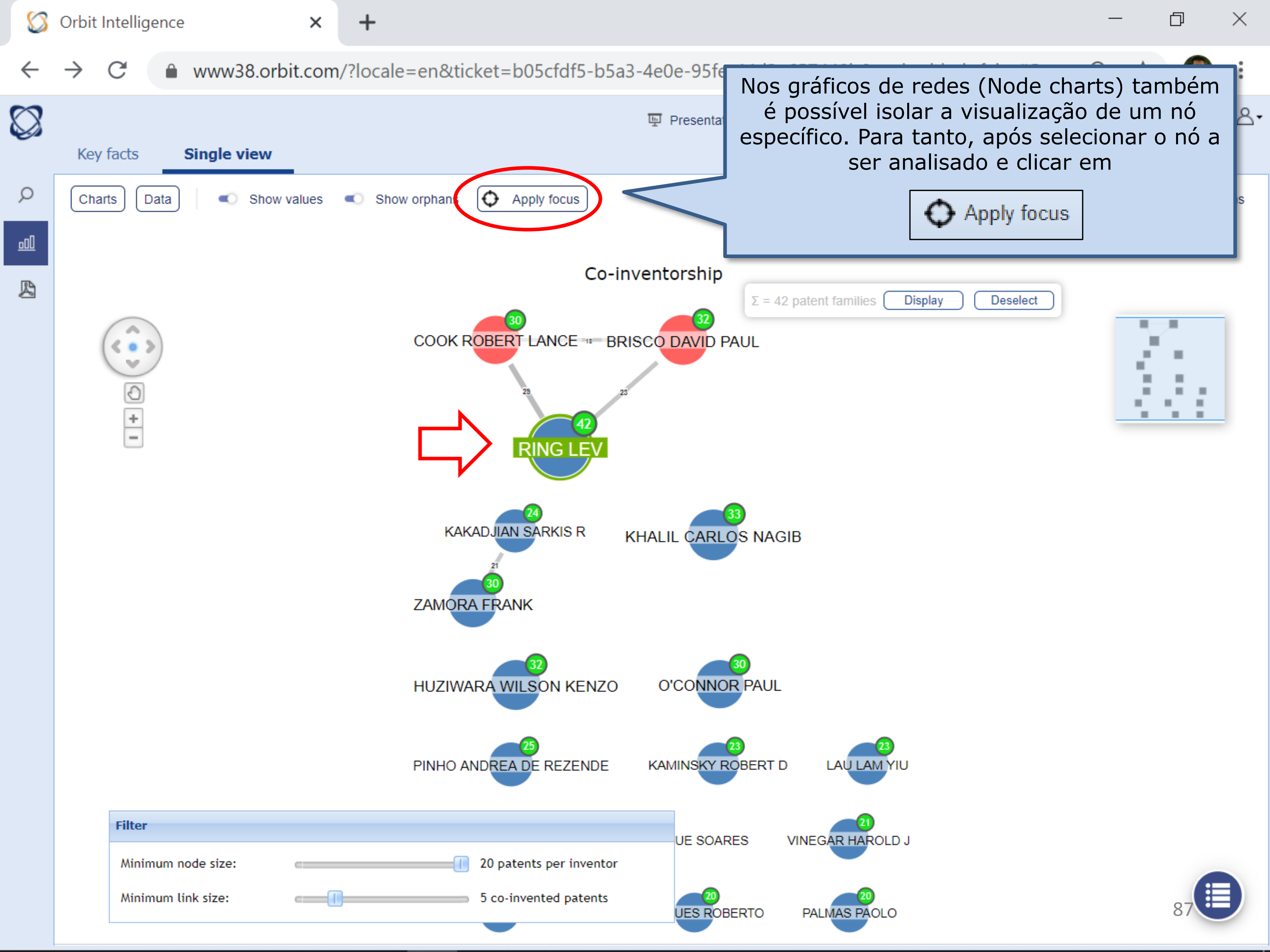
KHALIL CARLOS NAGIB
33
HUZIWARA WILSON KENZO
32
O'CONNOR PAUL
30
PINHO ANDREA DE REZENDE
25
KAMINSKY ROBERT D
23
LAU LAM YIU
23
UE SOARES
VINEGAR HAROLD J
21
UES ROBERTO
20
PALMAS PAOLO
20
Filter

Minimum node size: 20 patents per inventor

Minimum link size: 5 co-invented patents

Nos gráficos de redes (Node charts) também é possível isolar a visualização de um nó específico. Para tanto, após selecionar o nó a ser analisado e clicar em

Apply focus



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Apply focus
Co-inventorship
Σ = 42 patent families
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COOK ROBERT LANCE
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BRISCO DAVID PAUL
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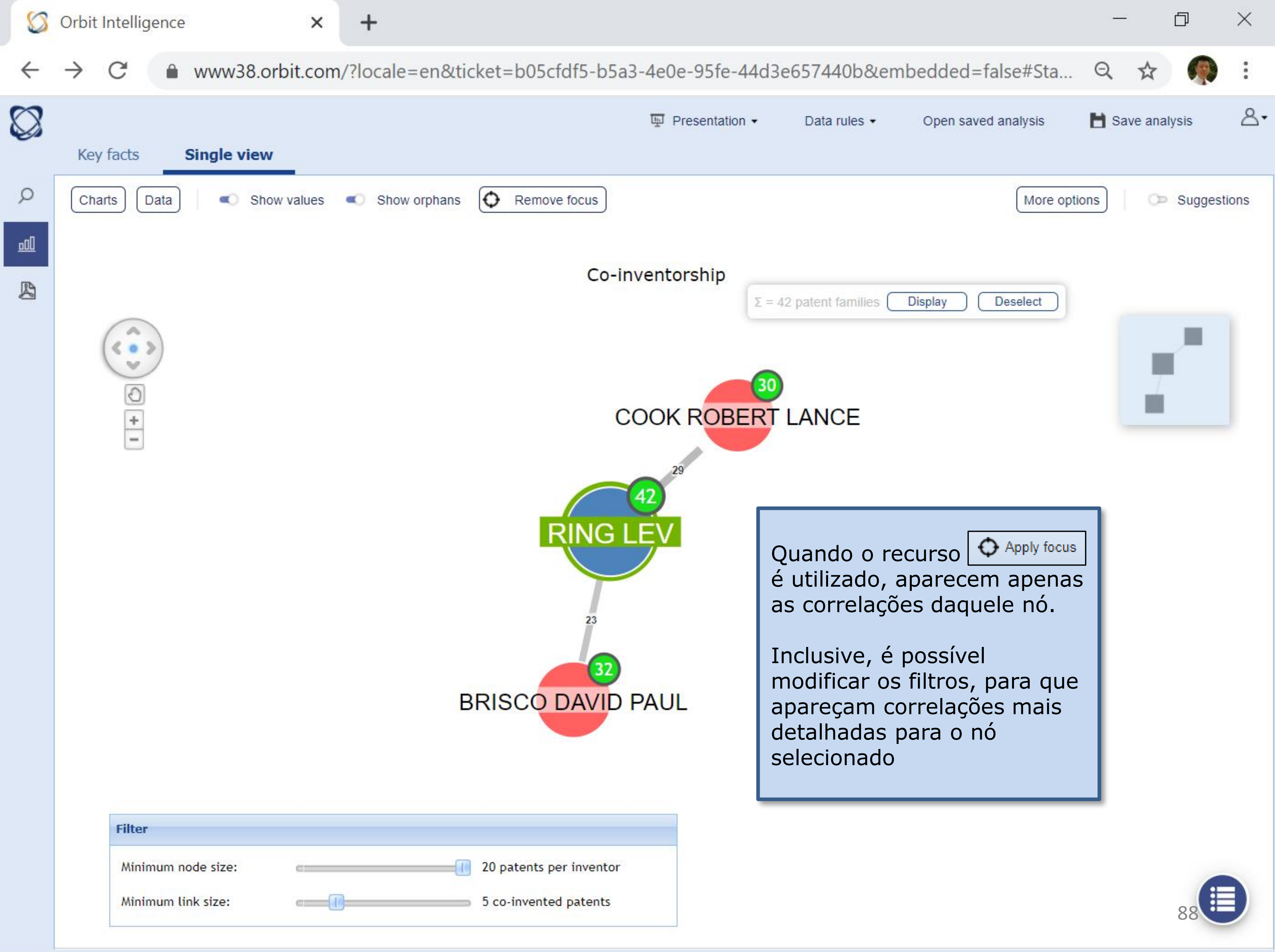
Minimum node size: 20 patents per inventor

Minimum link size: 5 co-invented patents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Co-inventorship
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COOK ROBERT LANCE
30
29
RING LEV
42
23
BRISCO DAVID PAUL
32
Filter

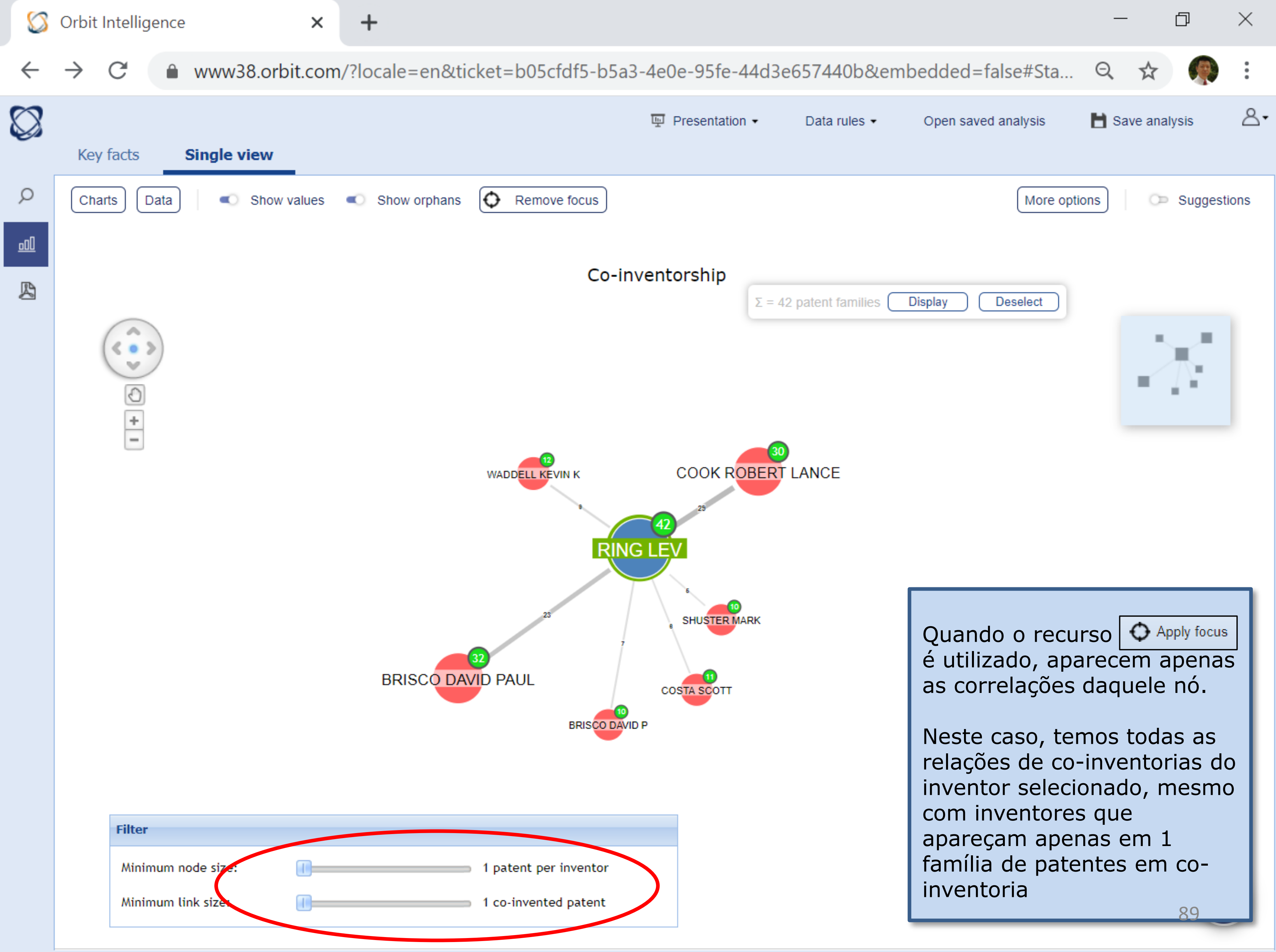
Σ = 42 patent families

Minimum node size: 20 patents per inventor

Minimum link size: 5 co-invented patents

Quando o recurso ⌖ Apply focus é utilizado, aparecem apenas as correlações daquele nó.

Inclusive, é possível modificar os filtros, para que apareçam correlações mais detalhadas para o nó selecionado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WADDELL KEVIN K
12
COOK ROBERT LANCE
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RING LEV
42
SHUSTER MARK
10
BRISCO DAVID PAUL
32
COSTA SCOTT
11
BRISCO DAVID P
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6

Co-inventorship

Σ = 42 patent families

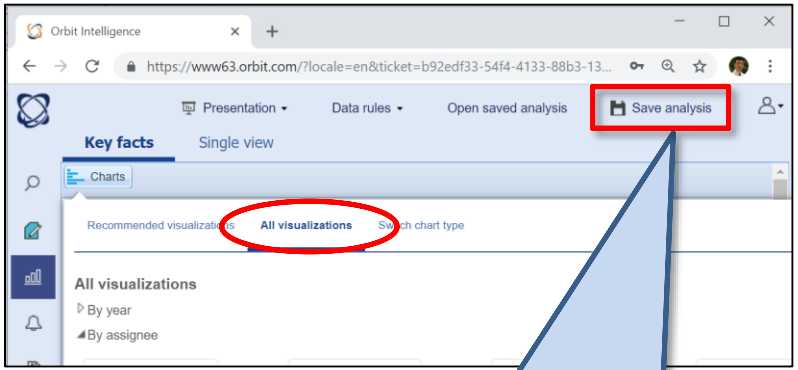
Filter

Minimum node size: 1 patent per inventor

Minimum link size: 1 co-invented patent

Quando o recurso ⌖ Apply focus é utilizado, aparecem apenas as correlações daquele nó.

Neste caso, temos todas as relações de co-inventorias do inventor selecionado, mesmo com inventores que apareçam apenas em 1 família de patentes em co-inventoria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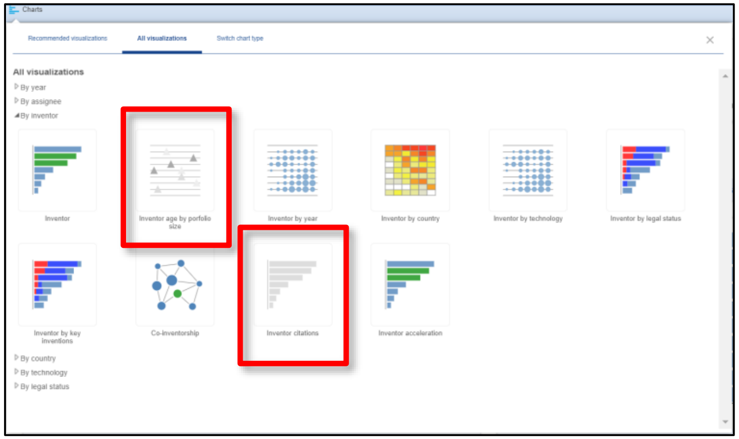
Charts
Recommended visualizations
All visualizations
Switch chart type
All visualizations
By year
By assignee

No nível de análise silver, alguns tipos de gráficos adicionais são disponibilizados para **análises salvas**. Save analysis

Em "**By assignee**" e "**By inventor**", é possível fazer análise de idade média e tamanho do portfolio, bem como identificar os titulares e inventores mais citados por outras patentes que compõem o conjunto salvo

Já para "**By Technology**", além da identificação de classificações, conceitos com maior número de citações por outras patentes que compõem o conjunto salvo, é possível identificar as famílias de patentes com maior número de citações por outras patentes que compõem o conjunto salvo.

Além disso, ainda para "**By Technology**", em conjuntos salvos é possível a interessante análise por "Sub technical domains"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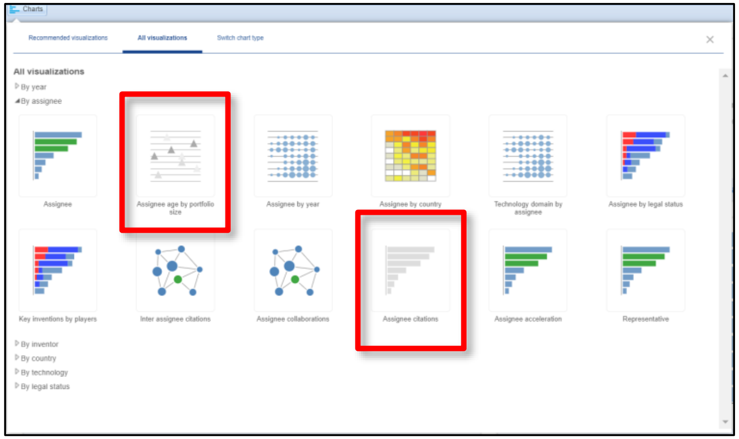
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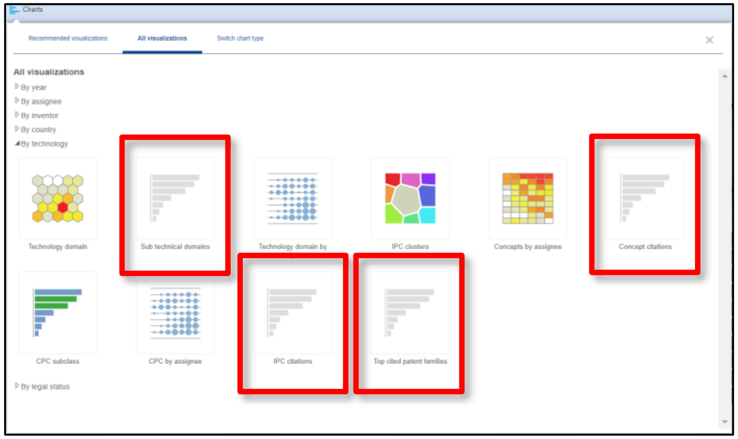
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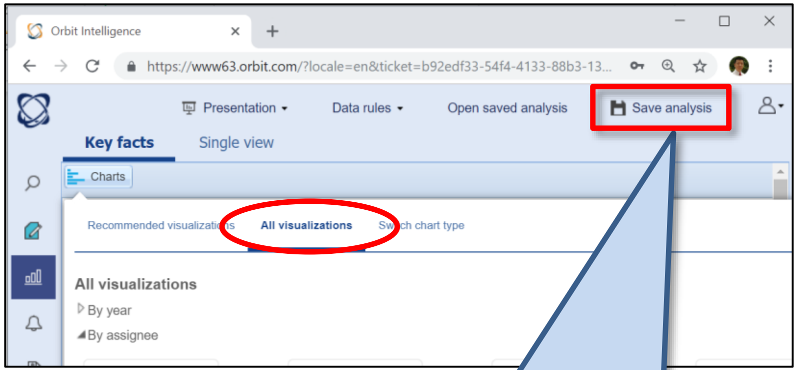
By legal status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All visualizations
By year
By assignee

No nível de análise silver, alguns tipos de gráficos adicionais são disponibilizados para **análises salvas**. Save analysis

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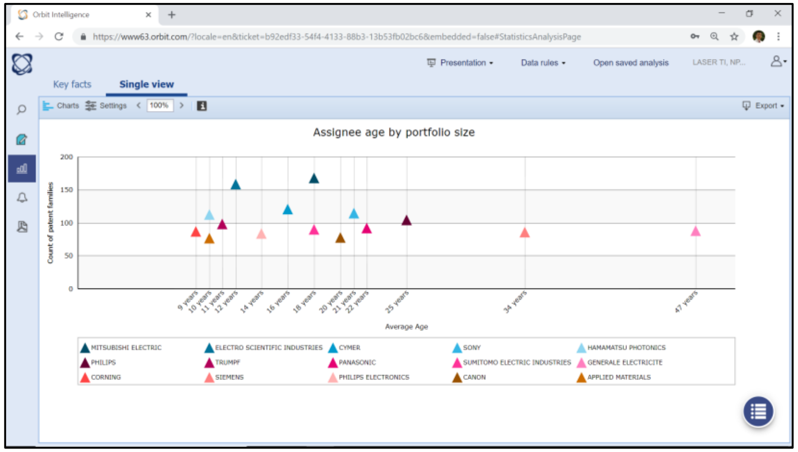
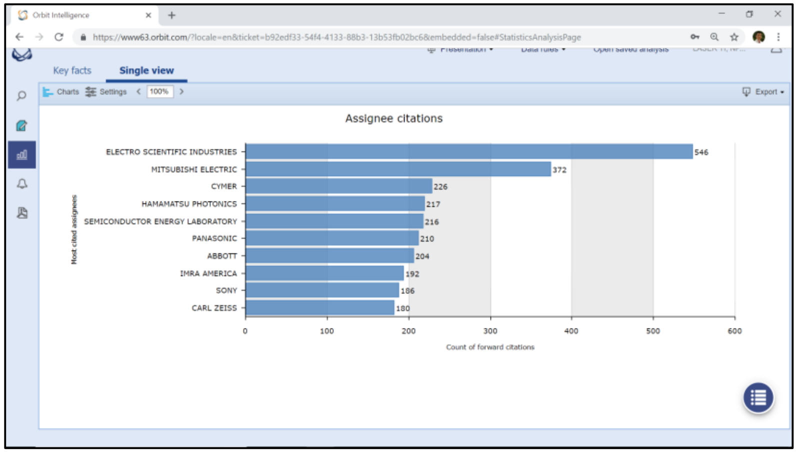
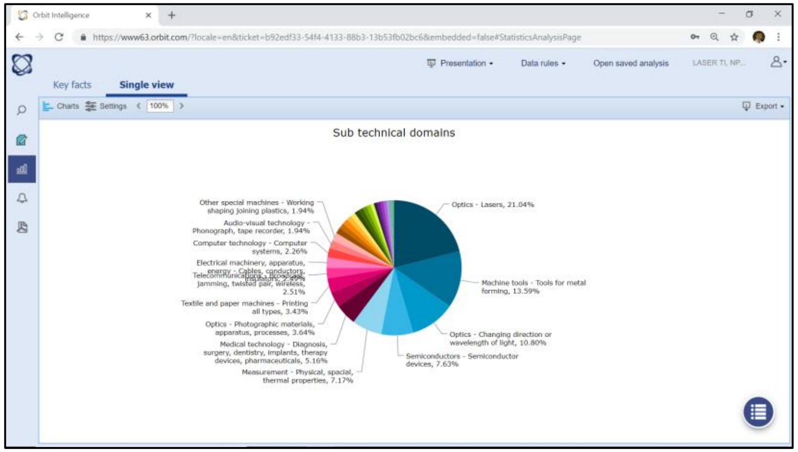
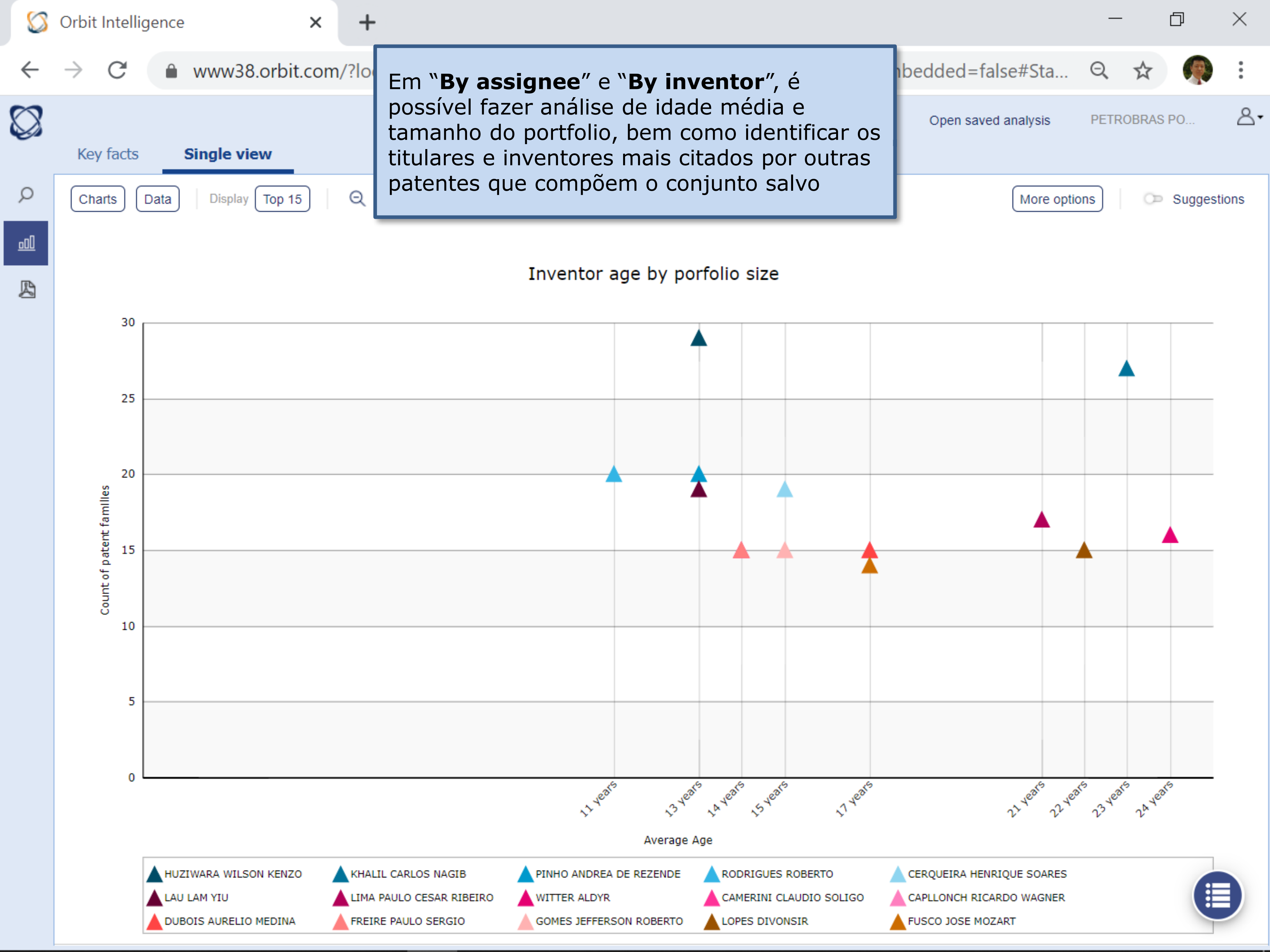
Além disso, ainda para "**By Technology**", em conjuntos salvos é possível a interessante análise por "Sub technical domains"








Orbit Intelligence
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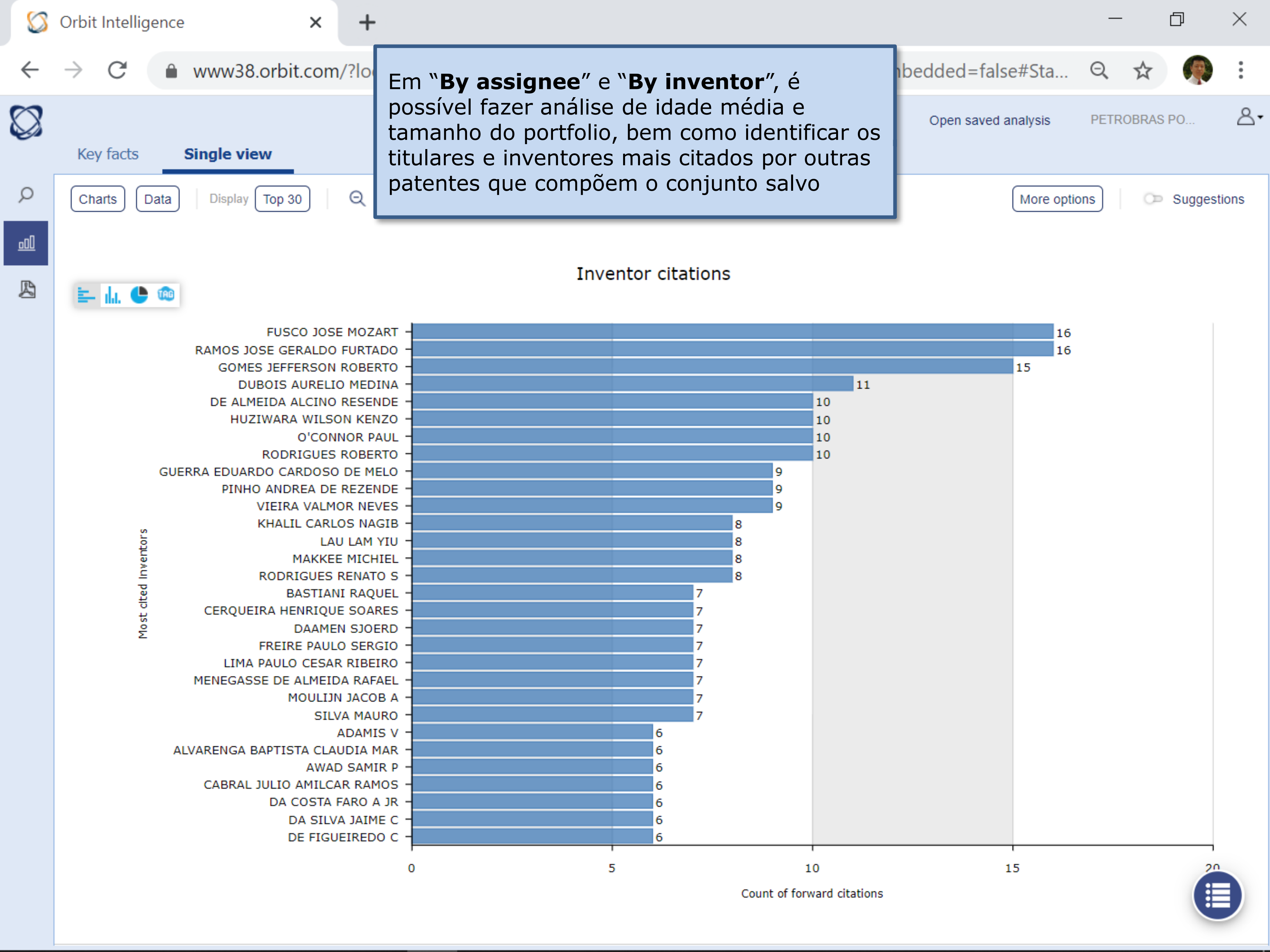
bedded=false#Sta...
Open saved analysis
PETROBRAS PO...
Key facts
Single view
Charts
Data
Display
Top 15
More options
Suggestions
Inventor age by porfolio size
Count of patent families
30
25
20
15
10
5
0
11 years
13 years
14 years
15 years
17 years
21 years
22 years
23 years
24 years
Average Age
HUZIWARA WILSON KENZO
KHALIL CARLOS NAGIB
PINHO ANDREA DE REZENDE
RODRIGUES ROBERTO
CERQUEIRA HENRIQUE SOARES
LAU LAM YIU
LIMA PAULO CESAR RIBEIRO
WITTER ALDYR
CAMERINI CLAUDIO SOLIGO
CAPLLONCH RICARDO WAGNER
DUBOIS AURELIO MEDINA
FREIRE PAULO SERGIO
GOMES JEFFERSON ROBERTO
LOPES DIVONSIR
FUSCO JOSE MOZART

Em “**By assignee**” e “**By inventor**”, é possível fazer análise de idade média e tamanho do portfolio, bem como identificar os titulares e inventores mais citados por outras patentes que compõem o conjunto salvo

Em “**By assignee**” e “**By inventor**”, é possível fazer análise de idade média e tamanho do portfolio, bem como identificar os titulares e inventores mais citados por outras patentes que compõem o conjunto salvo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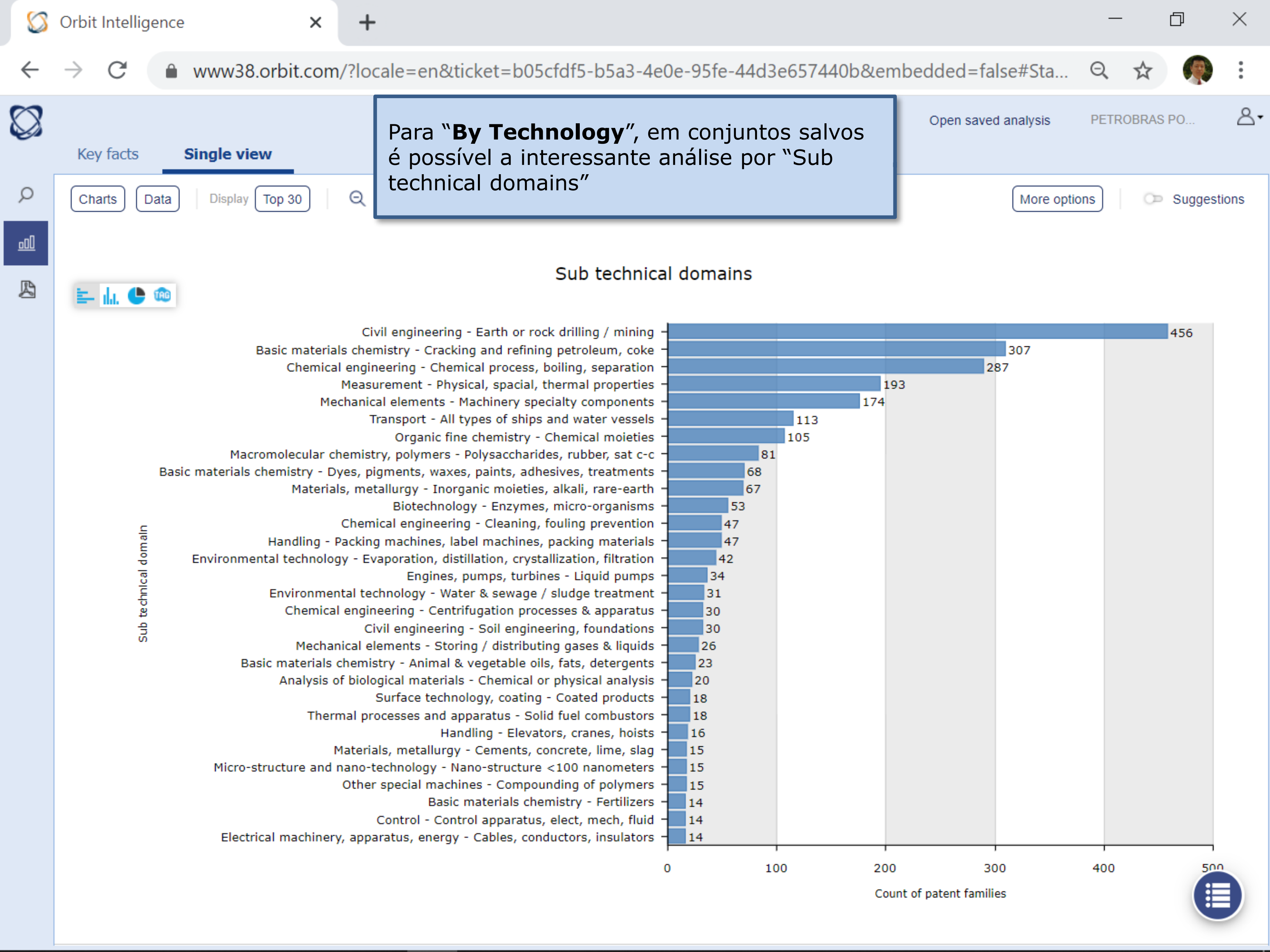
PETROBRAS PO...
Key facts
Single view
Charts
Data
Display
Top 30
More options
Suggestions
Inventor citations
Most cited Inventors
FUSCO JOSE MOZART 16
RAMOS JOSE GERALDO FURTADO 16
GOMES JEFFERSON ROBERTO 15
DUBOIS AURELIO MEDINA 11
DE ALMEIDA ALCINO RESENDE 10
HUZIWARA WILSON KENZO 10
O'CONNOR PAUL 10
RODRIGUES ROBERTO 10
GUERRA EDUARDO CARDOSO DE MELO 9
PINHO ANDREA DE REZENDE 9
VIEIRA VALMOR NEVES 9
KHALIL CARLOS NAGIB 8
LAU LAM YIU 8
MAKKEE MICHIEL 8
RODRIGUES RENATO S 8
BASTIANI RAQUEL 7
CERQUEIRA HENRIQUE SOARES 7
DAAMEN SJOERD 7
FREIRE PAULO SERGIO 7
LIMA PAULO CESAR RIBEIRO 7
MENEGASSE DE ALMEIDA RAFAEL 7
MOULIJN JACOB A 7
SILVA MAURO 7
ADAMIS V 6
ALVARENGA BAPTISTA CLAUDIA MAR 6
AWAD SAMIR P 6
CABRAL JULIO AMILCAR RAMOS 6
DA COSTA FARO A JR 6
DA SILVA JAIME C 6
DE FIGUEIREDO C 6
0
5
10
15
20
Count of forward citations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Open saved analysis
PETROBRAS PO...
Key facts
Single view
Charts
Data
Display
Top 30
More options
Suggestions
Sub technical domains
Sub technical domain
Civil engineering - Earth or rock drilling / mining 456
Basic materials chemistry - Cracking and refining petroleum, coke 307
Chemical engineering - Chemical process, boiling, separation 287
Measurement - Physical, spacial, thermal properties 193
Mechanical elements - Machinery specialty components 174
Transport - All types of ships and water vessels 113
Organic fine chemistry - Chemical moieties 105
Macromolecular chemistry, polymers - Polysaccharides, rubber, sat c-c 81
Basic materials chemistry - Dyes, pigments, waxes, paints, adhesives, treatments 68
Materials, metallurgy - Inorganic moieties, alkali, rare-earth 67
Biotechnology - Enzymes, micro-organisms 53
Chemical engineering - Cleaning, fouling prevention 47
Handling - Packing machines, label machines, packing materials 47
Environmental technology - Evaporation, distillation, crystallization, filtration 42
Engines, pumps, turbines - Liquid pumps 34
Environmental technology - Water & sewage / sludge treatment 31
Chemical engineering - Centrifugation processes & apparatus 30
Civil engineering - Soil engineering, foundations 30
Mechanical elements - Storing / distributing gases & liquids 26
Basic materials chemistry - Animal & vegetable oils, fats, detergents 23
Analysis of biological materials - Chemical or physical analysis 20
Surface technology, coating - Coated products 18
Thermal processes and apparatus - Solid fuel combustors 18
Handling - Elevators, cranes, hoists 16
Materials, metallurgy - Cements, concrete, lime, slag 15
Micro-structure and nano-technology - Nano-structure <100 nanometers 15
Other special machines - Compounding of polymers 15
Basic materials chemistry - Fertilizers 14
Control - Control apparatus, elect, mech, fluid 14
Electrical machinery, apparatus, energy - Cables, conductors, insulators 14
0
100
200
300
400
500
Count of patent families

Para “**By Technology**”, em conjuntos salvos é possível a interessante análise por “Sub technical domains”

Apêndice 2

Recursos Adicionais dos Módulos "Avançados" Gold e Platinum Level

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Principais diferenças entre os níveis de análise Silver, Gold e Platinum	Silver	Gold	Platinum
1. Número máximo de respostas em conjuntos que podem ser diretamente analisados	100,000	300,000	2,000,000
2. Número máximo de respostas em conjuntos de análise a serem salvos (e que podem ser objeto de “data rules”)	15,000	20,000	30,000
3. Ferramenta “Filter” (para refinar as análises, usando palavras chaves dentro do próprio módulo de análise)	-	Sim	Sim
4. Ferramenta “Browse selected documents” (para seguir navegando diretamente a partir de seleções de células nos gráficos)	-	Sim	Sim
5. Ferramenta “Drill down” (gráficos para células selecionadas nos próprios gráficos)	-	Sim	Sim
6. Seleção de múltiplas células dos gráficos	-	Sim	Sim
7. “My charts” (salvamento de tipos e configurações de gráficos de análise)	-	Sim	Sim
8. Gráficos do tipo “Cloud Chart” (“tag clouds”)	-	Sim	Sim
9. Análise de “Concepts” (termos extraídos e harmonizados por análise semântica)	-	Sim	Sim
10. Ferramenta “Color” (para segmentar gráficos com diferentes cores, conforme parâmetros tais como nomes, tecnologia,listas, workfiles, etc.)	-	Sim	Sim
11. Gráficos do tipo “Concept Map” (gráficos “topográficos” de ilhas e mares)	-	-	Sim
12. Gráficos por “Custom Fields” (para realização de análises “avançadas”, baseadas em estratégias de busca, Listas e Workfiles manualmente construídos)	-	-	Sim
13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Assignee/Inventor impact/indicators, etc.)	-	-	Sim
14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)	-	-	Sim

1. Número máximo de respostas em conjuntos que podem ser diretamente analisados
    - Silver: 100.000
    - Gold: 300.000
    - Platinum: 2.000.000

2. Número máximo de respostas em conjuntos de análise a serem salvos (e que podem ser objeto de “data rules” e alguns tipos adicionais de análises)
    - Silver: 15.000
    - Gold: 20.000
    - Platinum: 30.000

A tabela abaixo resume os parâmetros que podem ser analisados no Orbit Silver Level

Também estão apontados parâmetros disponíveis apenas para Gold e Platinum ("Concepts") ou apenas para Platinum ("Custom Fields")

Assignee

- Assignees (Current Assignees /FPAN)
- Representatives (/RPHN)

Inventor

- Inventors (/INN.FLD)

Date

- Priority years (1st priority year (EPRD=), Last priority year (LPRD=), All priority years (PRD=))
- Application years (1st application year (EAPD=), Last application year (LAPD=), All application years (APD=))
- Publication years (1st publication year (EPD=), Last publication year (LPD=), All publication years (PD=))
- Grant years (1st grant year (EPDG=), Last grant year (LPDG=), All grant years (PDG=))

Location

- Protection country (CC/PTCC=)
- Priority countries (1st priority country (/EPRC), All priority countries (/PR))
- Publication country (/PN)

Technology

- Technology domains (/TECT)
- Sub technical domain (for saved searches)
- IPC subclass, groups, codes (Main (most recent /FMIC), All (/IC))
- CPC subclass, groups, codes (Main (most recent /FCPC), All (/CPC))
- US PCL subclass, classes, codes (Main /PCLM))
- JP FI codes (/FI)
- Concepts (/KEYC only for Gold and Platinum level)

Legal Status

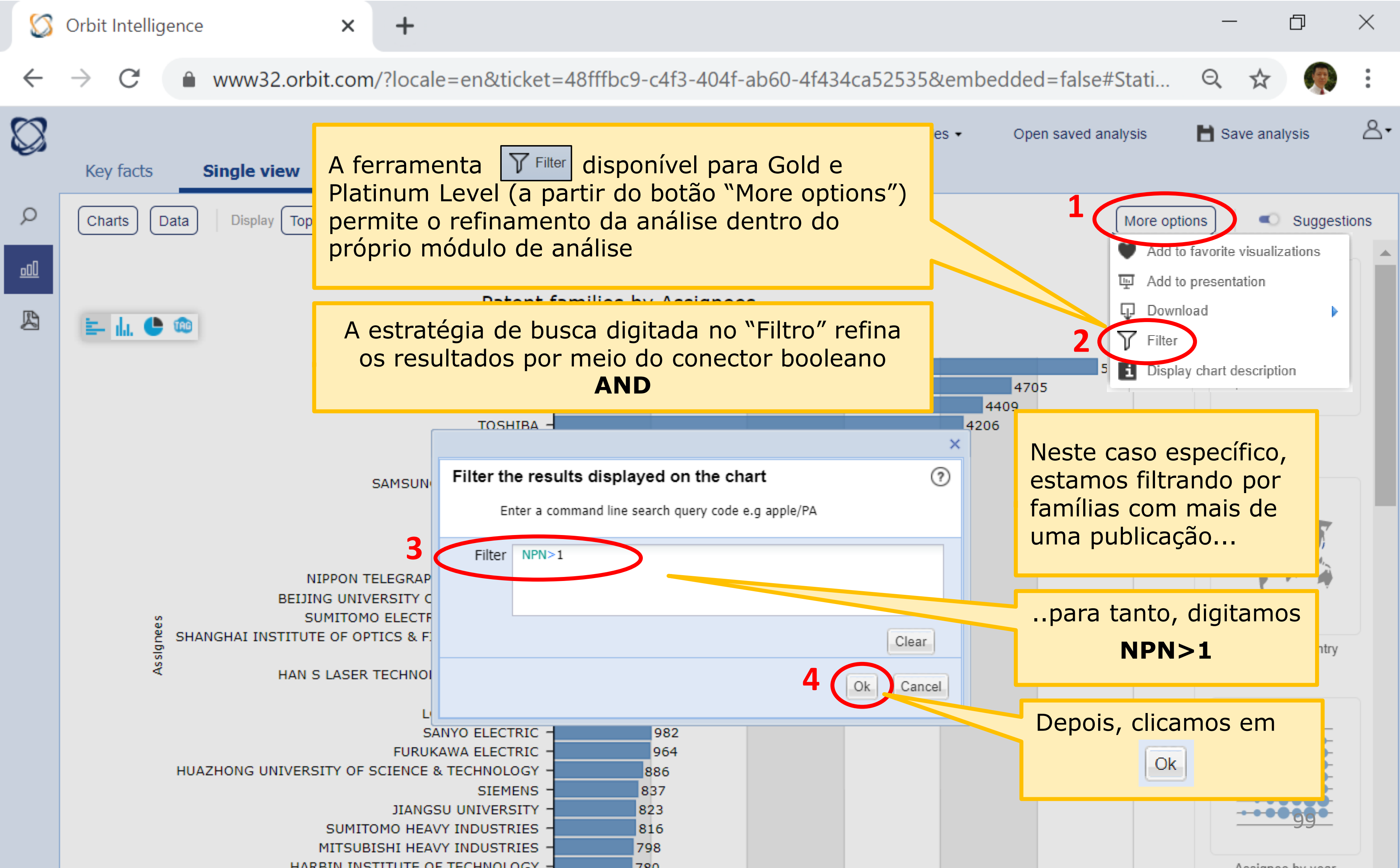
- Legal state (STATE/ACT=)
- Legal status (STATUS/ACT=) * Grated > Pending > Revoked > Expired > Lapsed
- Kind codes (/PN)

Other

- Litigations (CIDI=YES)
- Litigation countries (CC/CIDI=)
- Oppositions (/OPPI=YES OR EG/ACT=OPP)
- Opposition countries (CC/OPPI=)
- Licensing event (/LID=YES)
- Standards (/STDN=YES)

Custom Axis (only for Platinum level)

3. Ferramenta “Filter” (para refinar as análises, usando palavras chaves dentro do próprio módulo de análise)


Orbit Intelligence
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Key facts
Single view
Charts
Data
Display
Top
Open saved analysis
Save analysis
More options
Suggestions
Add to favorite visualizations
Add to presentation
Download
Filter
Display chart description
Patent families by Assignees
4705
4409
TOSHIBA
4206
SAMSUN
NIPPON TELEGRAP
BEIJING UNIVERSITY C
SUMITOMO ELECTR
SHANGHAI INSTITUTE OF OPTICS & FI
HAN S LASER TECHNO
Assignees
SANYO ELECTRIC
982
FURUKAWA ELECTRIC
964
HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY
886
SIEMENS
837
JIANGSU UNIVERSITY
823
SUMITOMO HEAVY INDUSTRIES
816
MITSUBISHI HEAVY INDUSTRIES
798
HARBIN INSTITUTE OF TECHNOLOGY
780
Clear
Ok
Cancel
1
2
3
4

Filter the results displayed on the chart

Enter a command line search query code e.g apple/PA

Filter: NPN>1

A ferramenta Filter disponível para Gold e Platinum Level (a partir do botão “More options”) permite o refinamento da análise dentro do próprio módulo de análise

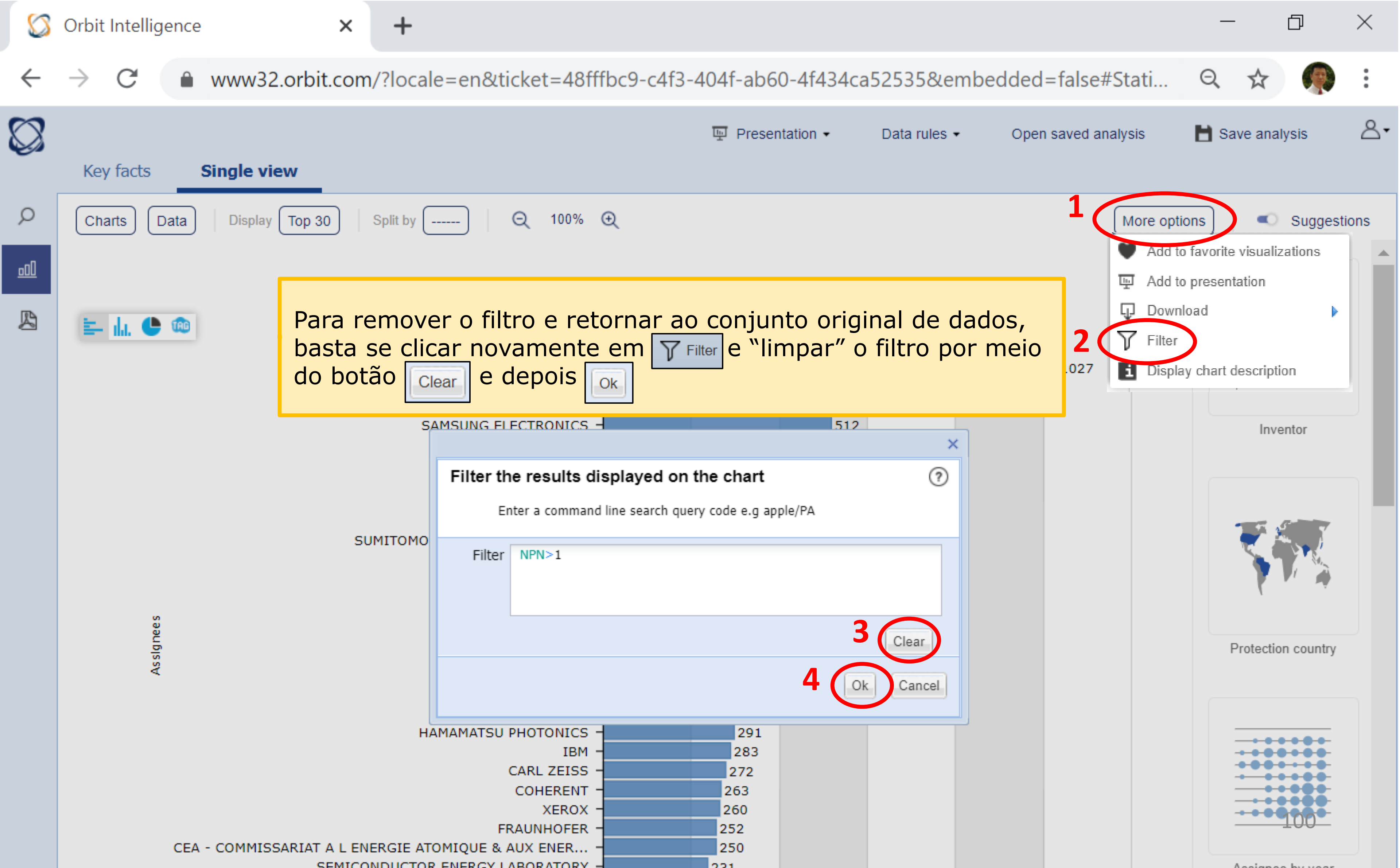
A estratégia de busca digitada no “Filtro” refina os resultados por meio do conector booleano **AND**

Neste caso específico, estamos filtrando por famílias com mais de uma publicação...

..para tanto, digitamos **NPN>1**

Depois, clicamos em Ok

3. Ferramenta “Filter” (para refinar as análises, usando palavras chaves dentro do próprio módulo de análise)



Para remover o filtro e retornar ao conjunto original de dados, basta se clicar novamente em Filter e “limpar” o filtro por meio do botão Clear e depois Ok

Filter the results displayed on the chart

Enter a command line search query code e.g apple/PA

Filter: NPN>1

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Data rules
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Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
Split by

100%
1
More options
Suggestions
Add to favorite visualizations
Add to presentation
Download
2
Filter
Display chart description
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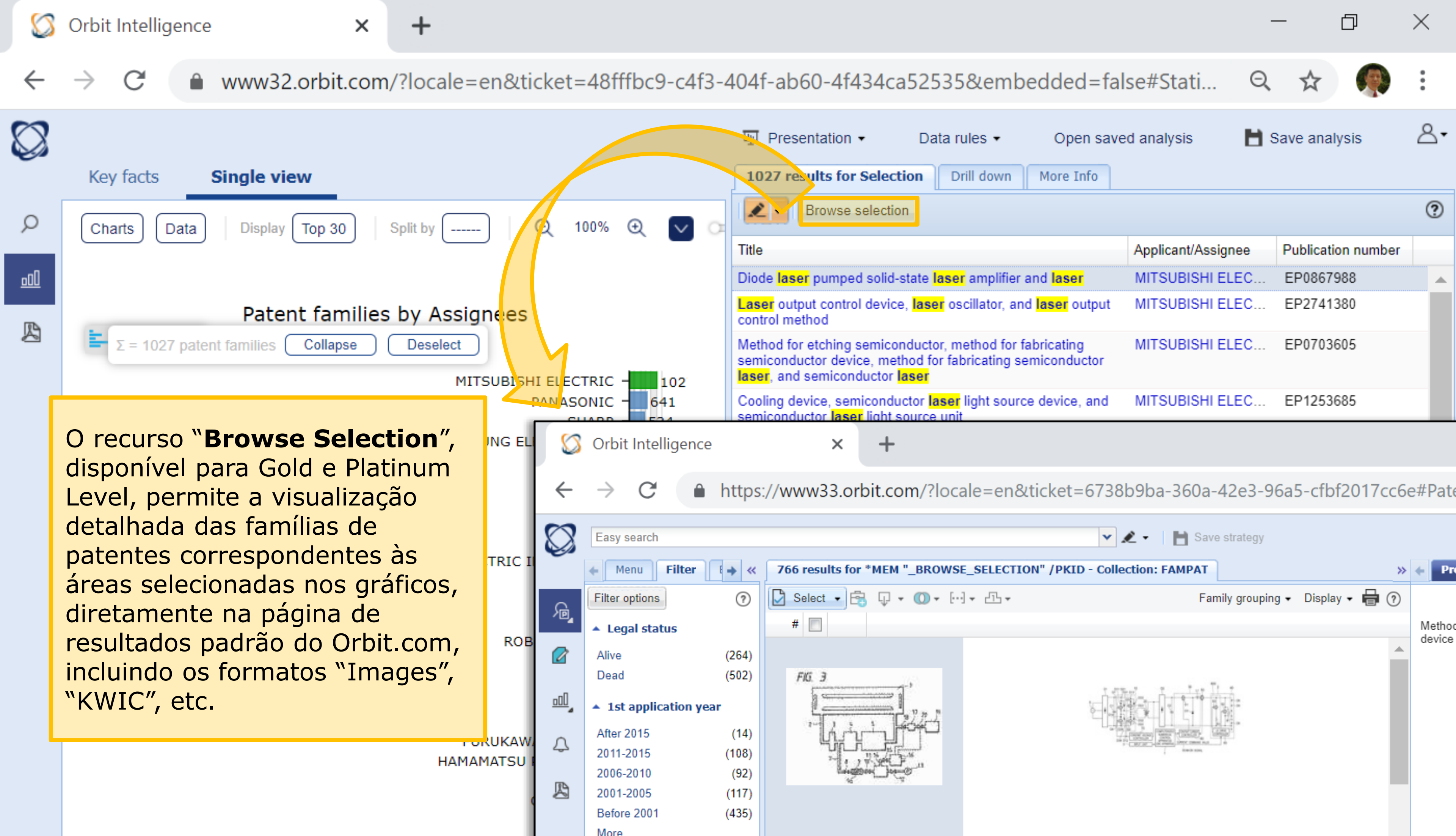
Inventor
Protection country
Assignees by year
3
Clear
4
Ok
Cancel
Assignees
SAMSUNG ELECTRONICS
512
SUMITOMO
HAMAMATSU PHOTONICS
291
IBM
283
CARL ZEISS
272
COHERENT
263
XEROX
260
FRAUNHOFER
252
CEA - COMMISSARIAT A L ENERGIE ATOMIQUE & AUX ENER...
250
SEMICONDUCTOR ENERGY LABORATORY
231

4. Ferramenta “Browse selected documents” (para seguir navegando diretamente a partir de seleções de células nos gráficos)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Data rules
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
Split by

100%
1027 results for Selection
Drill down
More Info
Browse selection
Patent families by Assignees
Σ = 1027 patent families
Collapse
Deselect
MITSUBISHI ELECTRIC
102
PANASONIC
641
ING EL
TRIC I
ROB
FURUKAWA
HAMAMATSU
Orbit Intelligence
https://www33.orbit.com/?locale=en&ticket=6738b9ba-360a-42e3-96a5-cfbf2017cc6e#Pate
Easy search
Save strategy
Menu
Filter
Filter options
Select
Family grouping
Display
#
FIG. 3
Method
device

Title	Applicant/Assignee	Publication number
Diode laser pumped solid-state laser amplifier and laser	MITSUBISHI ELEC...	EP0867988
Laser output control device, laser oscillator, and laser output control method	MITSUBISHI ELEC...	EP2741380
Method for etching semiconductor, method for fabricating semiconductor device, method for fabricating semiconductor laser, and semiconductor laser	MITSUBISHI ELEC...	EP0703605
Cooling device, semiconductor laser light source device, and semiconductor laser light source unit	MITSUBISHI ELEC...	EP1253685

766 results for *MEM "_BROWSE_SELECTION" /PKID - Collection: FAMPAT

Legal status	
Alive	(264)
Dead	(502)

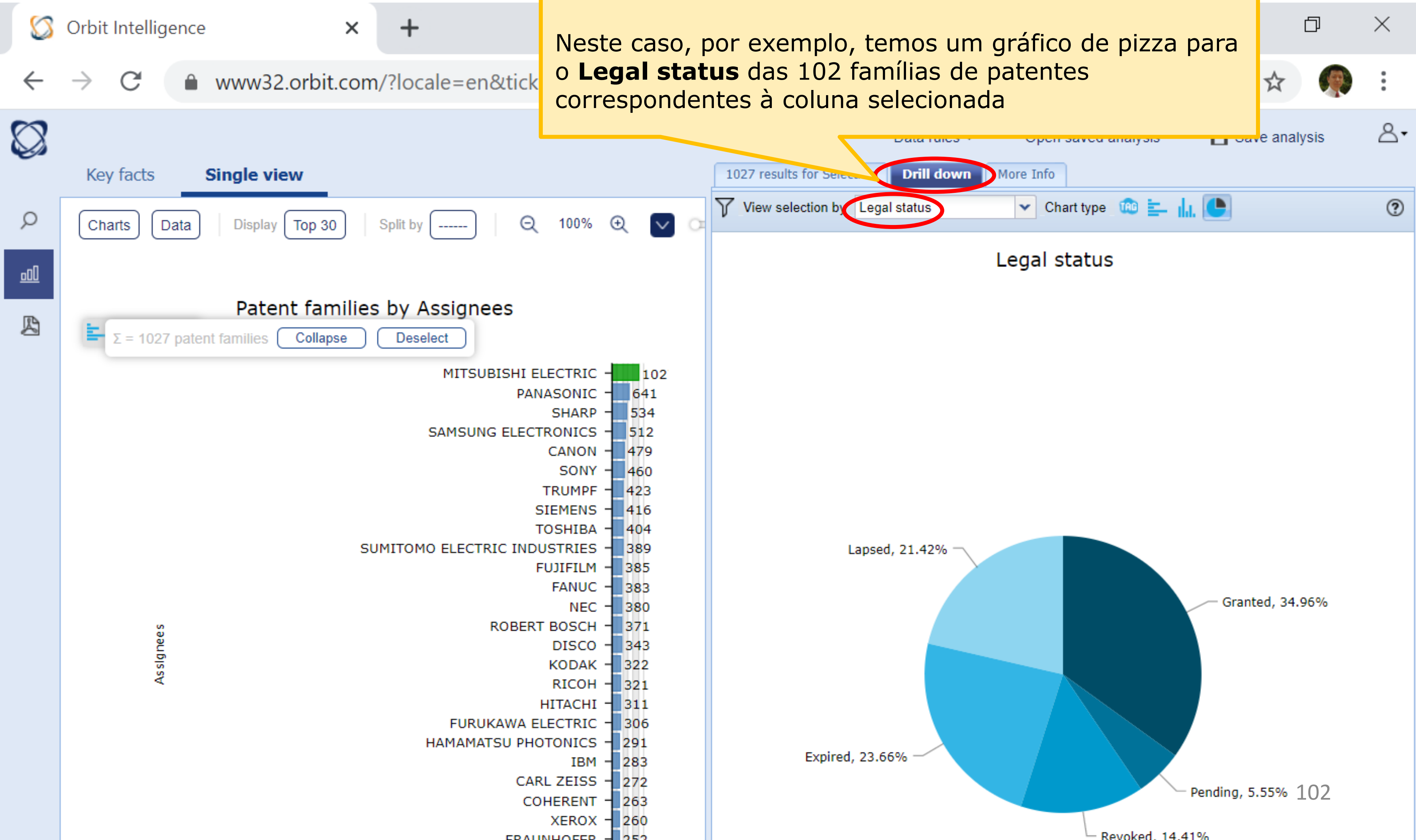
1st application year	
After 2015	(14)
2011-2015	(108)
2006-2010	(92)
2001-2005	(117)
Before 2001	(435)
More	

O recurso “**Browse Selection**”, disponível para Gold e Platinum Level, permite a visualização detalhada das famílias de patentes correspondentes às áreas selecionadas nos gráficos, diretamente na página de resultados padrão do Orbit.com, incluindo os formatos “Images”, “KWIC”, etc.

5. Ferramenta “Drill down” (gráficos para células selecionadas nos próprios gráficos)

O “**Drill down**”, disponível para Gold e Platinum Level, permite a análise gráfica dos dados correspondentes às células selecionadas nos gráficos de análise.

Neste caso, por exemplo, temos um gráfico de pizza para o **Legal status** das 102 famílias de patentes correspondentes à coluna selecionada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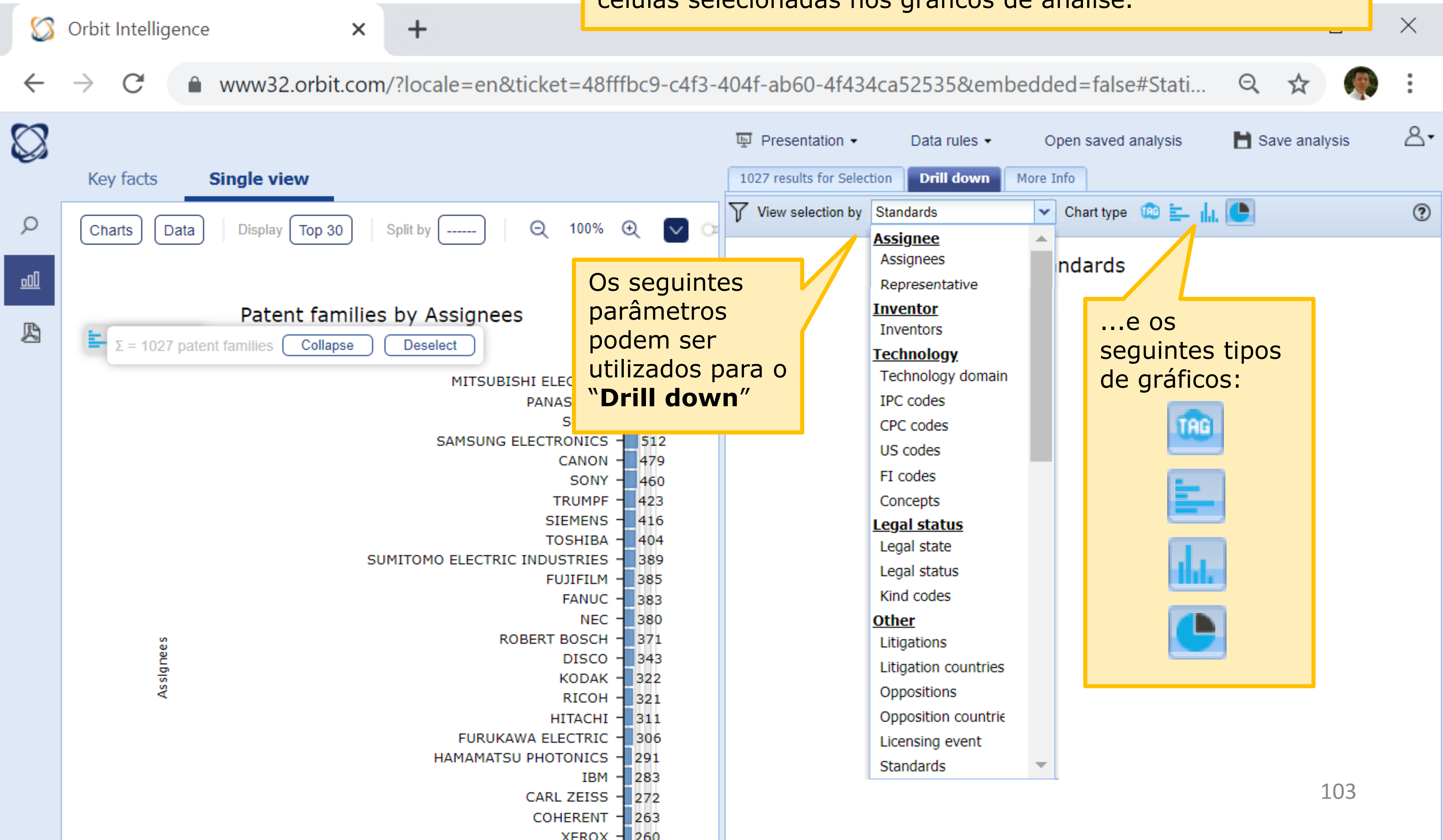
Data rules
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
Split by

100%
Patent families by Assignees
Σ = 1027 patent families
Collapse
Deselect
Assignees
MITSUBISHI ELECTRIC 102
PANASONIC 641
SHARP 534
SAMSUNG ELECTRONICS 512
CANON 479
SONY 460
TRUMPF 423
SIEMENS 416
TOSHIBA 404
SUMITOMO ELECTRIC INDUSTRIES 389
FUJIFILM 385
FANUC 383
NEC 380
ROBERT BOSCH 371
DISCO 343
KODAK 322
RICOH 321
HITACHI 311
FURUKAWA ELECTRIC 306
HAMAMATSU PHOTONICS 291
IBM 283
CARL ZEISS 272
COHERENT 263
XEROX 260
1027 results for Selec
Drill down
More Info
View selection by
Legal status
Chart type
Legal status
Lapsed, 21.42%
Granted, 34.96%
Expired, 23.66%
Pending, 5.55%
Revoked, 14.41%

5. Ferramenta “Drill down” (gráficos para células selecionadas nos próprios gráficos)

O “**Drill down**”, disponível para Gold e Platinum Level, permite a análise gráfica dos dados correspondentes às células selecionadas nos gráficos de análise.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Presentation
Data rules
Open saved analysis
Save analysis
Key facts
Single view
1027 results for Selection
Drill down
More Info
Charts
Data
Display
Top 30
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View selection by
Standards
Chart type
Patent families by Assignees
Σ = 1027 patent families
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Assignees
MITSUBISHI ELEC
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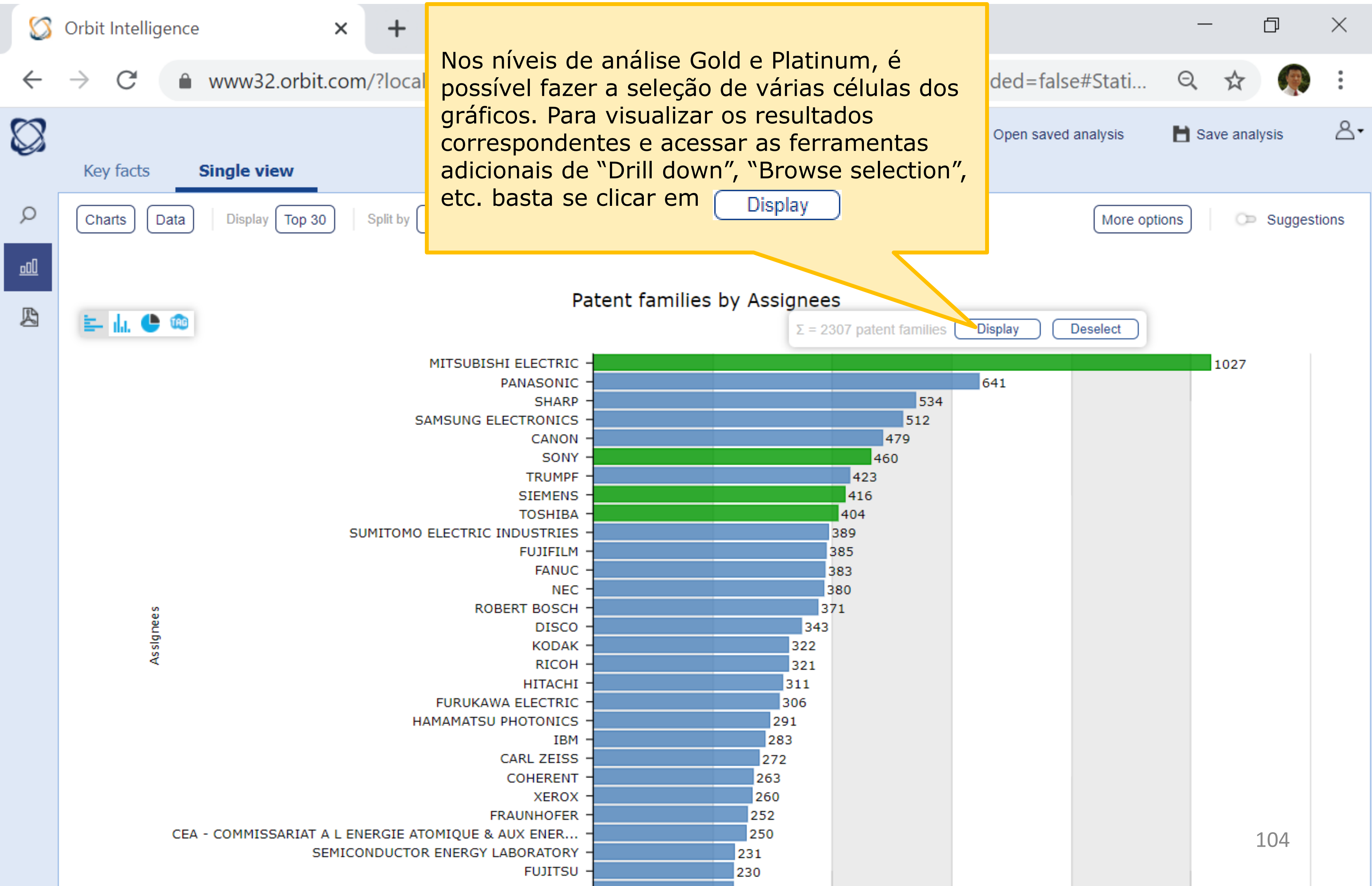
CANON 479
SONY 460
TRUMPF 423
SIEMENS 416
TOSHIBA 404
SUMITOMO ELECTRIC INDUSTRIES 389
FUJIFILM 385
FANUC 383
NEC 380
ROBERT BOSCH 371
DISCO 343
KODAK 322
RICOH 321
HITACHI 311
FURUKAWA ELECTRIC 306
HAMAMATSU PHOTONICS 291
IBM 283
CARL ZEISS 272
COHERENT 263
XEROX 260
ndards
Assignee
Assignees
Representative
Inventor
Inventors
Technology
Technology domain
IPC codes
CPC codes
US codes
FI codes
Concepts
Legal status
Legal state
Legal status
Kind codes
Other
Litigations
Litigation countries
Oppositions
Opposition countrie
Licensing event
Standards
TAG

Os seguintes parâmetros podem ser utilizados para o “**Drill down**”

...e os seguintes tipos de gráficos:

6. Seleção de múltiplas células dos gráficos



Nos níveis de análise Gold e Platinum, é possível fazer a seleção de várias células dos gráficos. Para visualizar os resultados correspondentes e acessar as ferramentas adicionais de “Drill down”, “Browse selection”, etc. basta se clicar em Display

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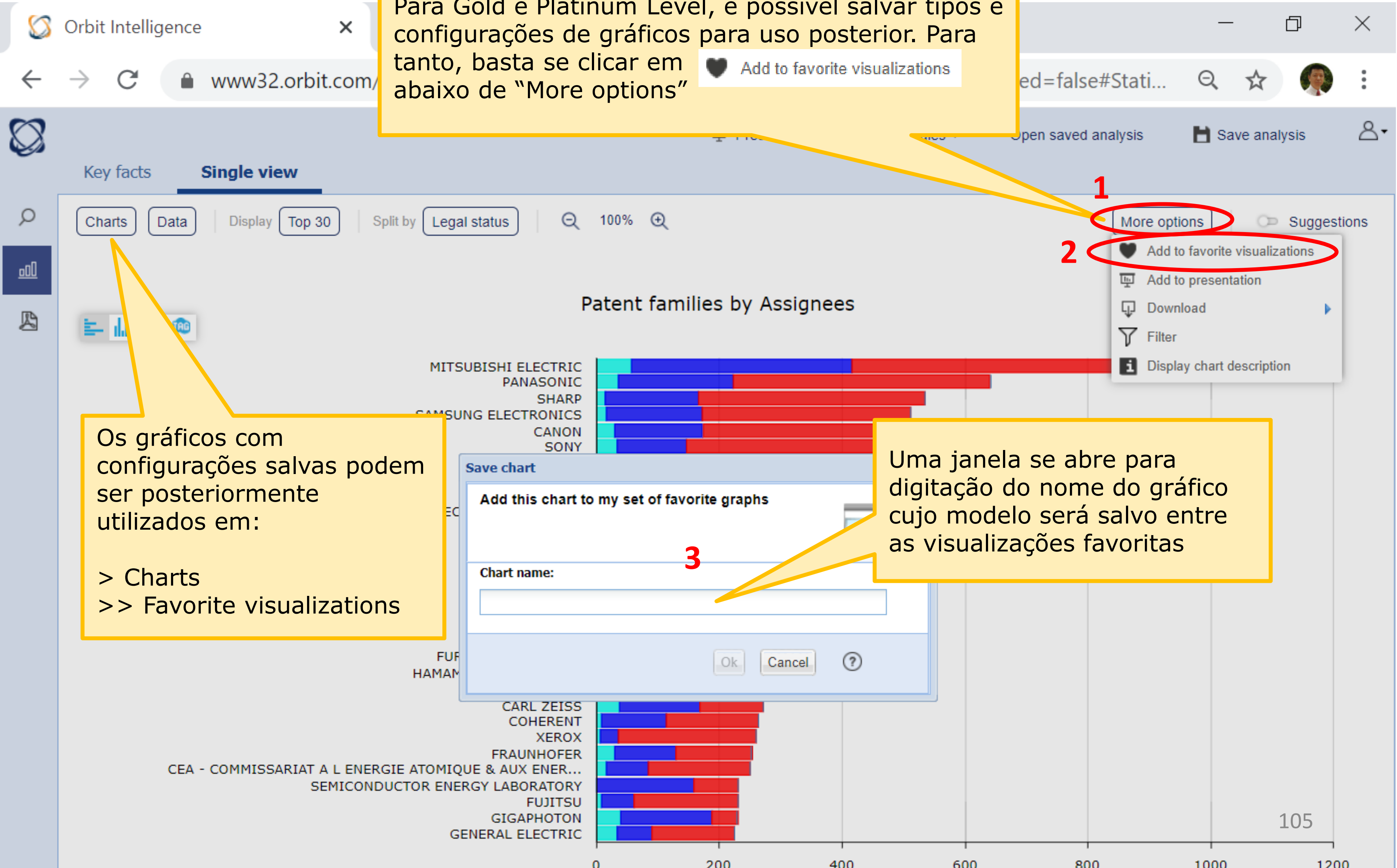
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
Split by
More options
Suggestions
Patent families by Assignees
Σ = 2307 patent families
Display
Deselect
Assignees
MITSUBISHI ELECTRIC 1027
PANASONIC 641
SHARP 534
SAMSUNG ELECTRONICS 512
CANON 479
SONY 460
TRUMPF 423
SIEMENS 416
TOSHIBA 404
SUMITOMO ELECTRIC INDUSTRIES 389
FUJIFILM 385
FANUC 383
NEC 380
ROBERT BOSCH 371
DISCO 343
KODAK 322
RICOH 321
HITACHI 311
FURUKAWA ELECTRIC 306
HAMAMATSU PHOTONICS 291
IBM 283
CARL ZEISS 272
COHERENT 263
XEROX 260
FRAUNHOFER 252
CEA - COMMISSARIAT A L ENERGIE ATOMIQUE & AUX ENER... 250
SEMICONDUCTOR ENERGY LABORATORY 231
FUJITSU 230

7. “My charts” (salvamento de tipos e configurações de gráficos de análise)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www32.orbit.com/
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Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
Display
Top 30
Split by
Legal status
100%
1
More options
Suggestions
2
Add to favorite visualizations
Add to presentation
Download
Filter
Display chart description
Patent families by Assignees
MITSUBISHI ELECTRIC
PANASONIC
SHARP
SAMSUNG ELECTRONICS
CANON
SONY
FUJ
HAMAM
CARL ZEISS
COHERENT
XEROX
FRAUNHOFER
CEA - COMMISSARIAT A L ENERGIE ATOMIQUE & AUX ENER...
SEMICONDUCTOR ENERGY LABORATORY
FUJITSU
GIGAPHOTON
GENERAL ELECTRIC
0
200
400
600
800
1000
1200
3
Ok
Cancel

Save chart

Add this chart to my set of favorite graphs

Chart name:

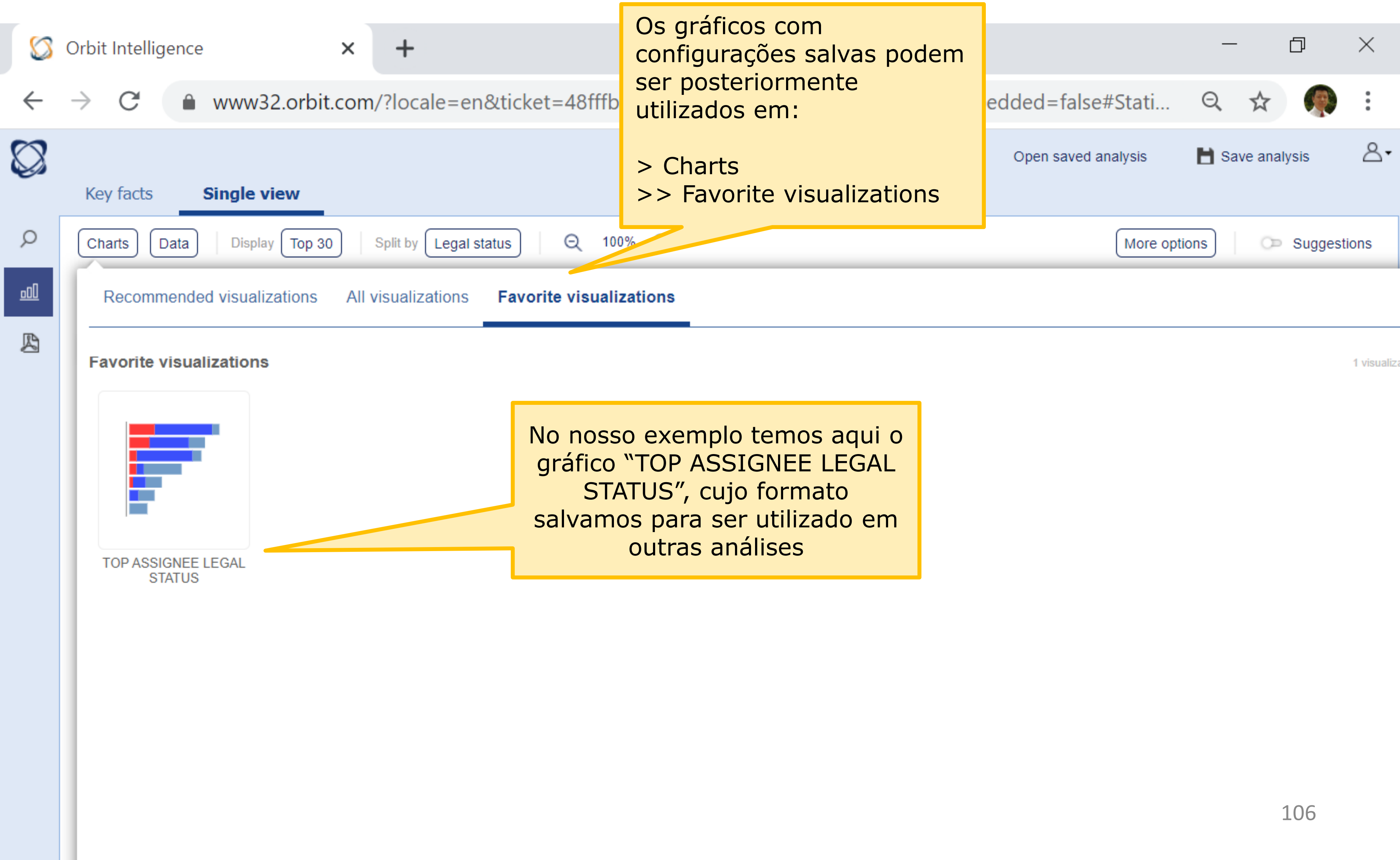
Para Gold e Platinum Level, é possível salvar tipos e configurações de gráficos para uso posterior. Para tanto, basta se clicar em ♥ Add to favorite visualizations abaixo de “More options”

Os gráficos com configurações salvas podem ser posteriormente utilizados em:

> Charts
>> Favorite visualizations

Uma janela se abre para digitação do nome do gráfico cujo modelo será salvo entre as visualizações favoritas

7. “My charts” (salvamento de tipos e configurações de gráficos de análise)



www32.orbit.com/?locale=en&ticket=48fffb

edded=false#Stati...

Display Top 30

Split by Legal status

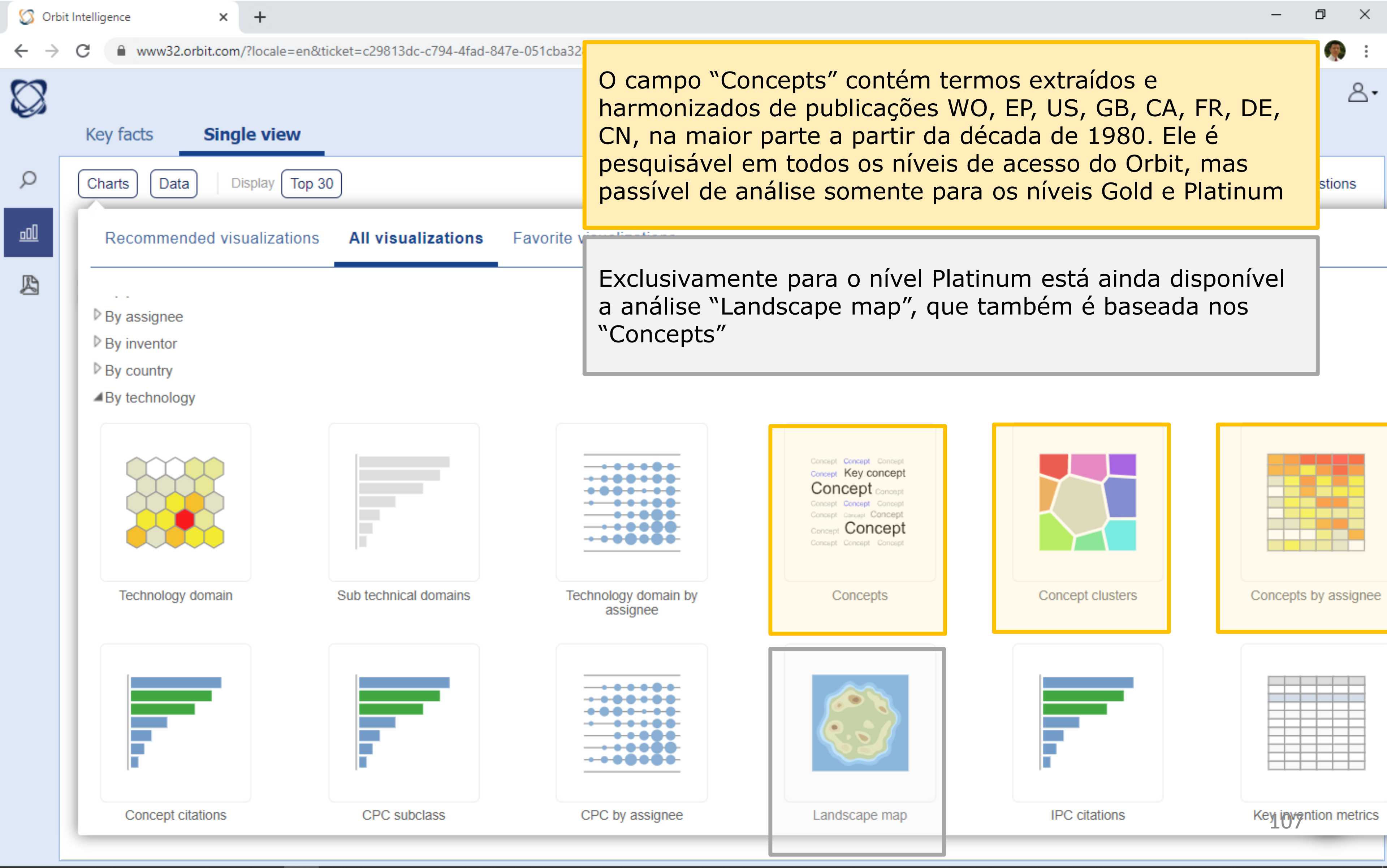
Orbit Intelligence
Open saved analysis
Save analysis
Key facts
Single view
Charts
Data
100%
More options
Suggestions
Recommended visualizations
All visualizations
Favorite visualizations
Favorite visualizations
1 visualiza
TOP ASSIGNEE LEGAL STATUS

Os gráficos com configurações salvas podem ser posteriormente utilizados em:

> Charts
>> Favorite visualizations

No nosso exemplo temos aqui o gráfico “TOP ASSIGNEE LEGAL STATUS”, cujo formato salvamos para ser utilizado em outras análises

8. Análises baseadas em “Concepts”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By inventor
By country
By technology
Technology domain
Sub technical domains
Technology domain by assignee
Concepts
Concept clusters
Concepts by assignee
Concept citations
CPC subclass
CPC by assignee
Landscape map
IPC citations
Key invention metrics

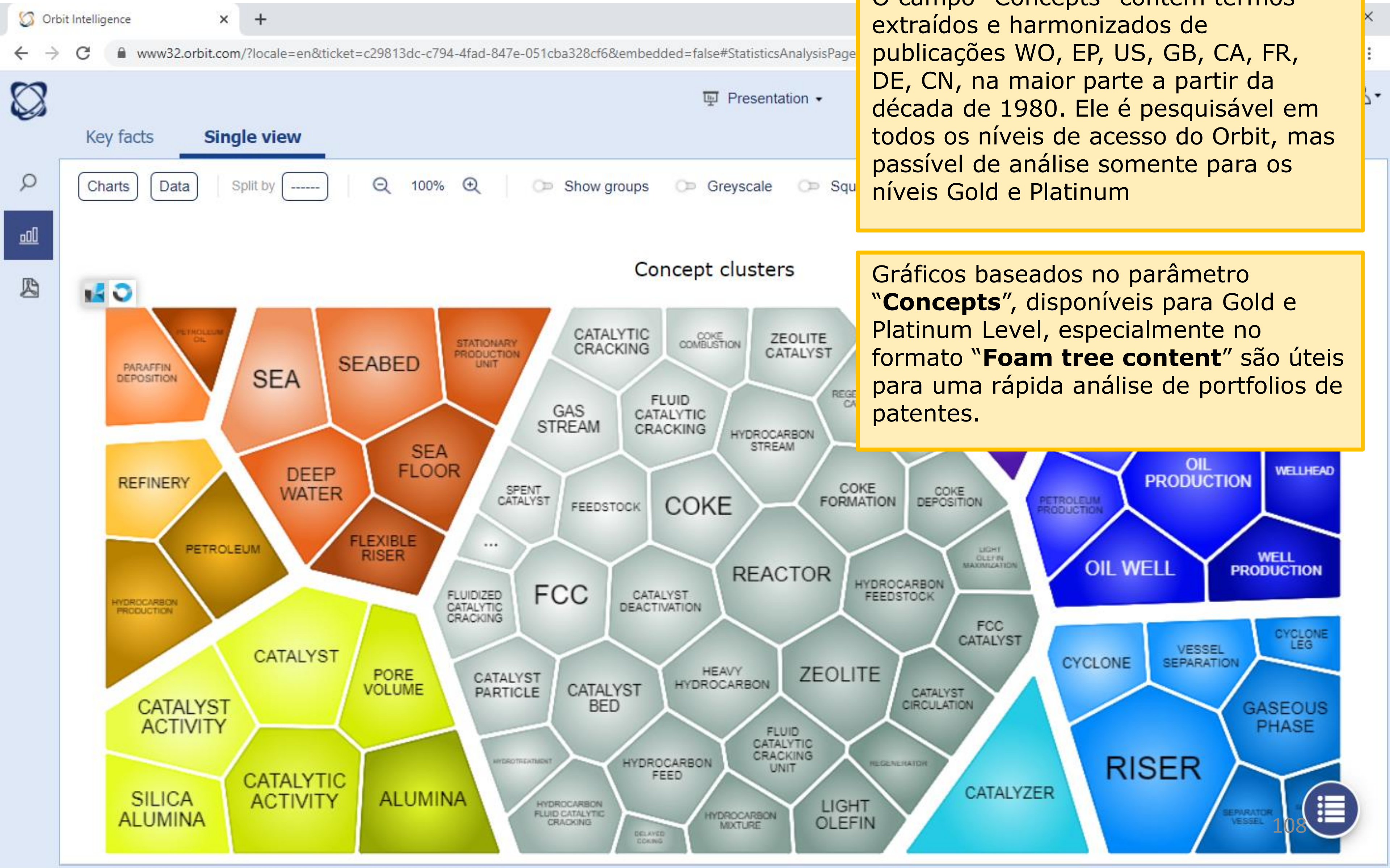
O campo “Concepts” contém termos extraídos e harmonizados de publicações WO, EP, US, GB, CA, FR, DE, CN, na maior parte a partir da década de 1980. Ele é pesquisável em todos os níveis de acesso do Orbit, mas passível de análise somente para os níveis Gold e Platinum

Exclusivamente para o nível Platinum está ainda disponível a análise “Landscape map”, que também é baseada nos “Concepts”

8. Análises baseadas em “Concepts”

O campo “Concepts” contém termos extraídos e harmonizados de publicações WO, EP, US, GB, CA, FR, DE, CN, na maior parte a partir da década de 1980. Ele é pesquisável em todos os níveis de acesso do Orbit, mas passível de análise somente para os níveis Gold e Platinum

Gráficos baseados no parâmetro “**Concepts**”, disponíveis para Gold e Platinum Level, especialmente no formato “**Foam tree content**” são úteis para uma rápida análise de portfolios de patentes.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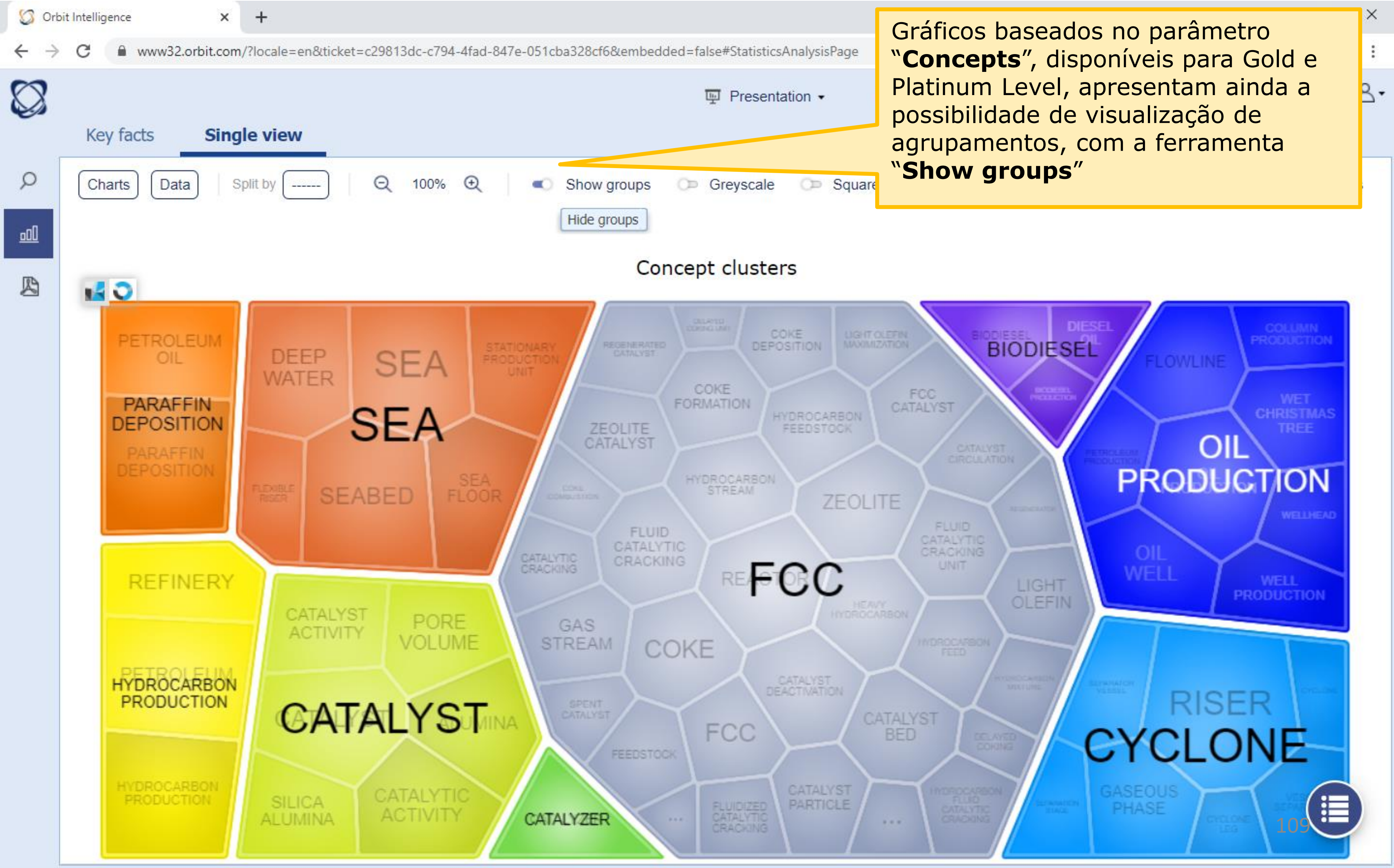
PETROLEUM
FLEXIBLE RISER
HYDROCARBON PRODUCTION
CATALYST
PORE VOLUME
CATALYST ACTIVITY
CATALYTIC ACTIVITY
SILICA ALUMINA
ALUMINA
CATALYTIC CRACKING
COKE COMBUSTION
ZEOLITE CATALYST
REGE CA
GAS STREAM
FLUID CATALYTIC CRACKING
HYDROCARBON STREAM
SPENT CATALYST
FEEDSTOCK
COKE
COKE FORMATION
COKE DEPOSITION
...
FLUIDIZED CATALYTIC CRACKING
FCC
CATALYST DEACTIVATION
REACTOR
HYDROCARBON FEEDSTOCK
LIGHT OLEFIN MAXIMIZATION
FCC CATALYST
CATALYST PARTICLE
CATALYST BED
HEAVY HYDROCARBON
ZEOLITE
CATALYST CIRCULATION
HYDROTREATMENT
HYDROCARBON FEED
FLUID CATALYTIC CRACKING UNIT
REGENERATOR
HYDROCARBON FLUID CATALYTIC CRACKING
DELAYED COKING
HYDROCARBON MIXTURE
LIGHT OLEFIN
CATALYZER
OIL PRODUCTION
WELLHEAD
PETROLEUM PRODUCTION
OIL WELL
WELL PRODUCTION
CYCLONE
VESSEL SEPARATION
CYCLONE LEG
GASEOUS PHASE
RISER
SEPARATOR VESSEL

8. Análises baseadas em “Concepts”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PARAFFIN DEPOSITION
PARAFFIN DEPOSITION
DEEP WATER
SEA
SEA
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FLEXIBLE RISER
SEABED
SEA FLOOR
REFINERY
PETROLEUM
HYDROCARBON PRODUCTION
HYDROCARBON PRODUCTION
CATALYST ACTIVITY
PORE VOLUME
CATALYST
ALUMINA
SILICA ALUMINA
CATALYTIC ACTIVITY
CATALYZER
REGENERATED CATALYST
COKE DEPOSITION
LIGHT OLEFIN MAXIMIZATION
COKE FORMATION
ZEOLITE CATALYST
HYDROCARBON FEEDSTOCK
FCC CATALYST
CATALYST CIRCULATION
HYDROCARBON STREAM
ZEOLITE
COKE COMBUSTION
FLUID CATALYTIC CRACKING
FLUID CATALYTIC CRACKING UNIT
CATALYTIC CRACKING
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COKE
HYDROCARBON FEED
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...
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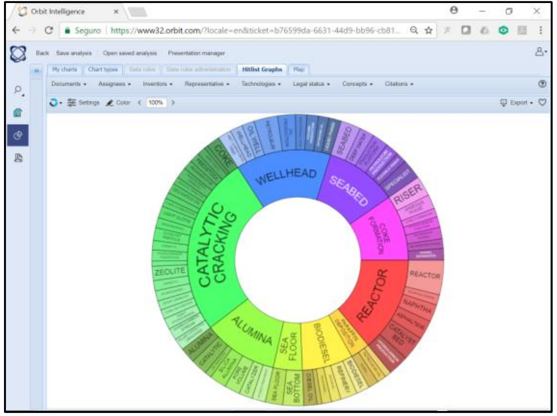
BIODIESEL
DIESEL OIL
BIODIESEL
BIODIESEL PRODUCTION
FLOWLINE
COLUMN PRODUCTION
WET CHRISTMAS TREE
PETROLEUM PRODUCTION
OIL PRODUCTION
WELLHEAD
OIL WELL
WELL PRODUCTION
SEPARATOR VESSEL
RISER
CYCLONE
GASEOUS PHASE
CYCLONE LEG

Gráficos baseados no parâmetro “**Concepts**”, disponíveis para Gold e Platinum Level, apresentam ainda a possibilidade de visualização de agrupamentos, com a ferramenta “**Show groups**”

8. Análises baseadas em “Concepts”

Os “Conceitos” podem ser utilizados como parâmetros para quase todos os tipos de gráficos

Gráficos de “Conceitos” podem ser bastante úteis para a identificação de classificações de patentes ou até mesmo de outros conceitos. Neste exemplo, temos um cruzamento de IPC Subclasses x Concepts. Outra opção interessante seria Concepts x Concepts



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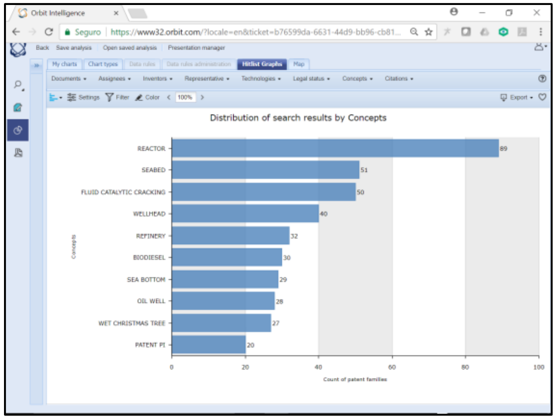
SEA BOTTOM



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Legal status
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Distribution of search results by Concepts
Concepts
REACTOR
89
SEABED
51
FLUID CATALYTIC CRACKING
50
WELLHEAD
40
REFINERY
32
BIODIESEL
30
SEA BOTTOM
29
OIL WELL
28
WET CHRISTMAS TREE
27
PATENT PI
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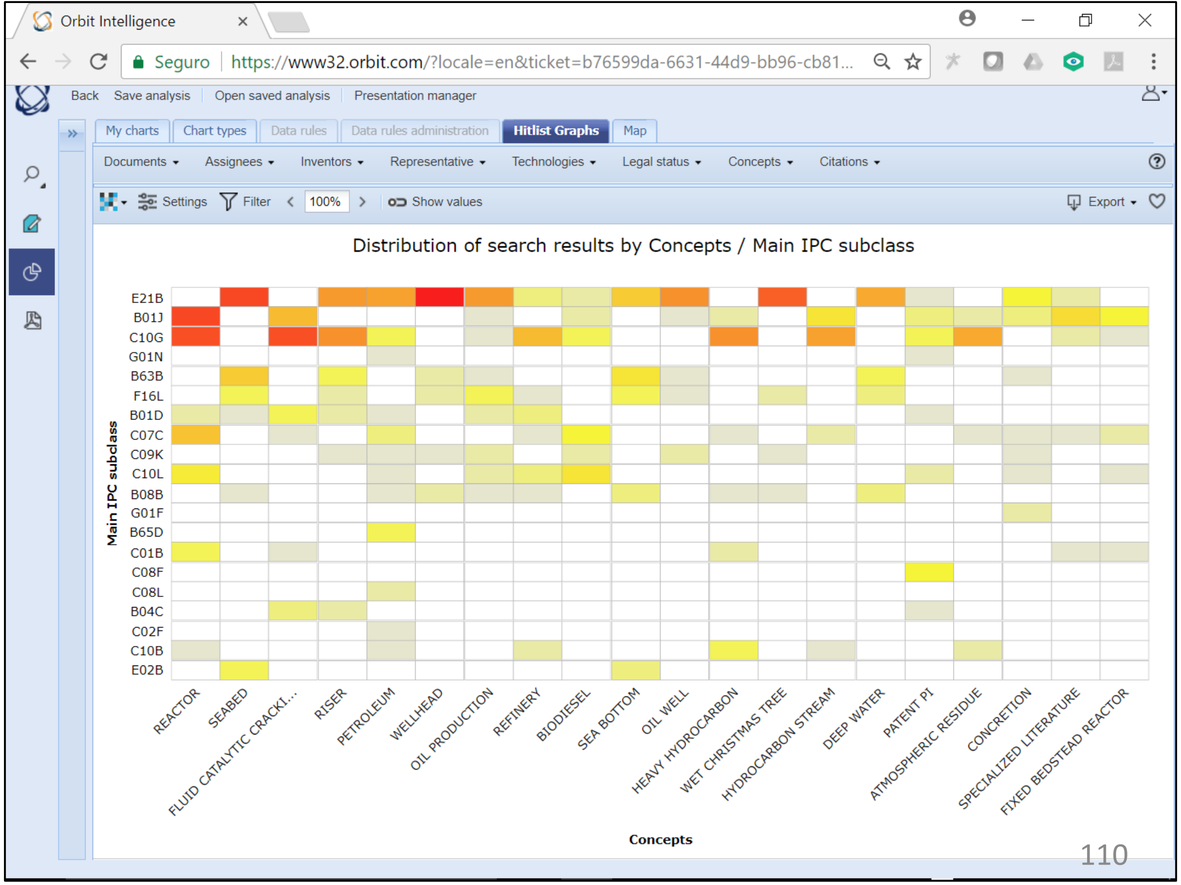
20
40
60
80
100
Count of patent families



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Legal status
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Citations
Settings
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Distribution of search results by Concepts / Main IPC subclass
Main IPC subclass
E21B
B01J
C10G
G01N
B63B
F16L
B01D
C07C
C09K
C10L
B08B
G01F
B65D
C01B
C08F
C08L
B04C
C02F
C10B
E02B
REACTOR
SEABED
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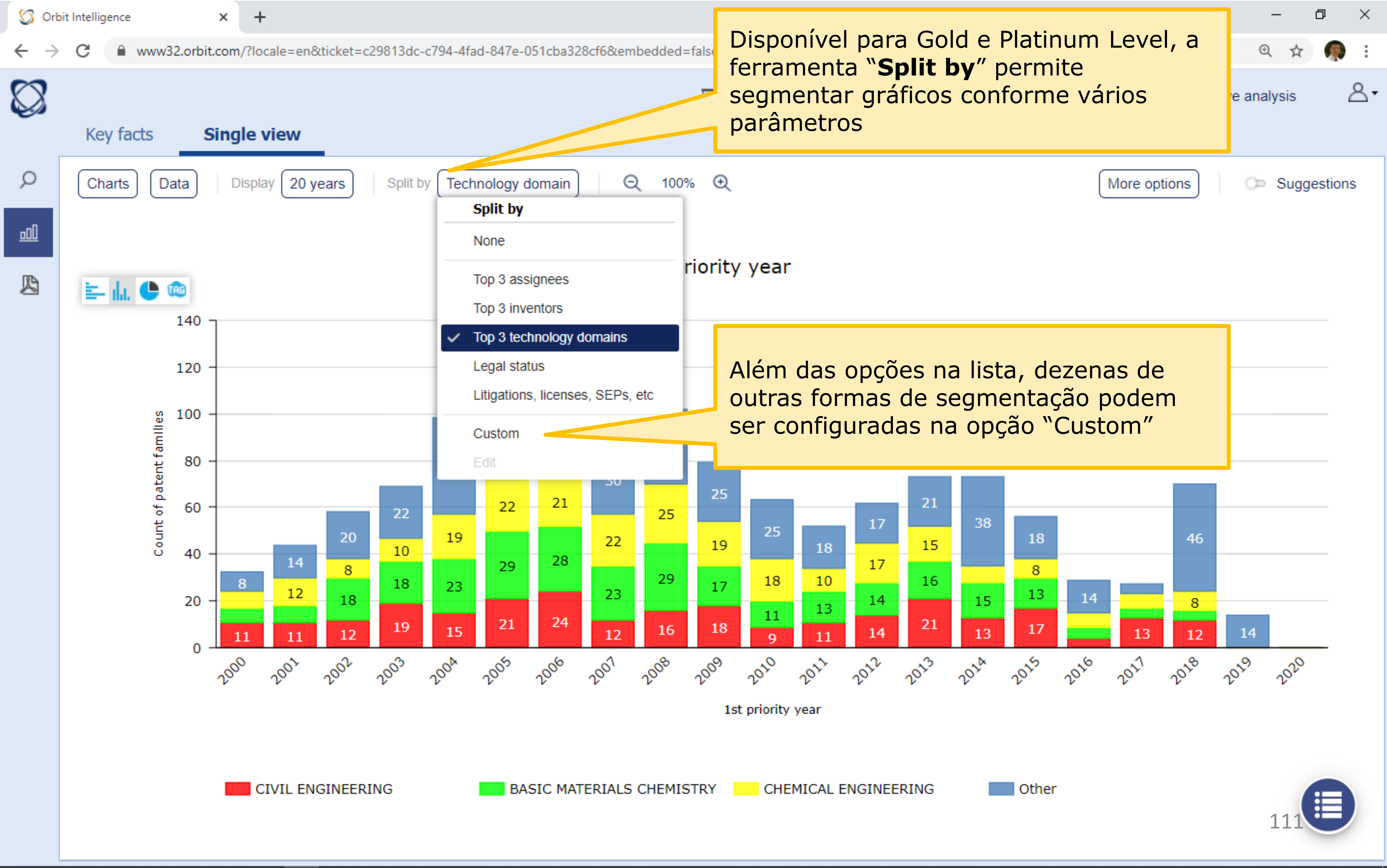
WELLHEAD
OIL PRODUCTION
REFINERY
BIODIESEL
SEA BOTTOM
OIL WELL
HEAVY HYDROCARBON
WET CHRISTMAS TREE
HYDROCARBON STREAM
DEEP WATER
PATENT PI
ATMOSPHERIC RESIDUE
CONCRETION
SPECIALIZED LITERATURE
FIXED BEDSTEAD REACTOR
Concepts

9. Ferramenta “Split by” (para segmentar gráficos com diferentes cores, conforme parâmetros tais como nomes, tecnologias, etc.)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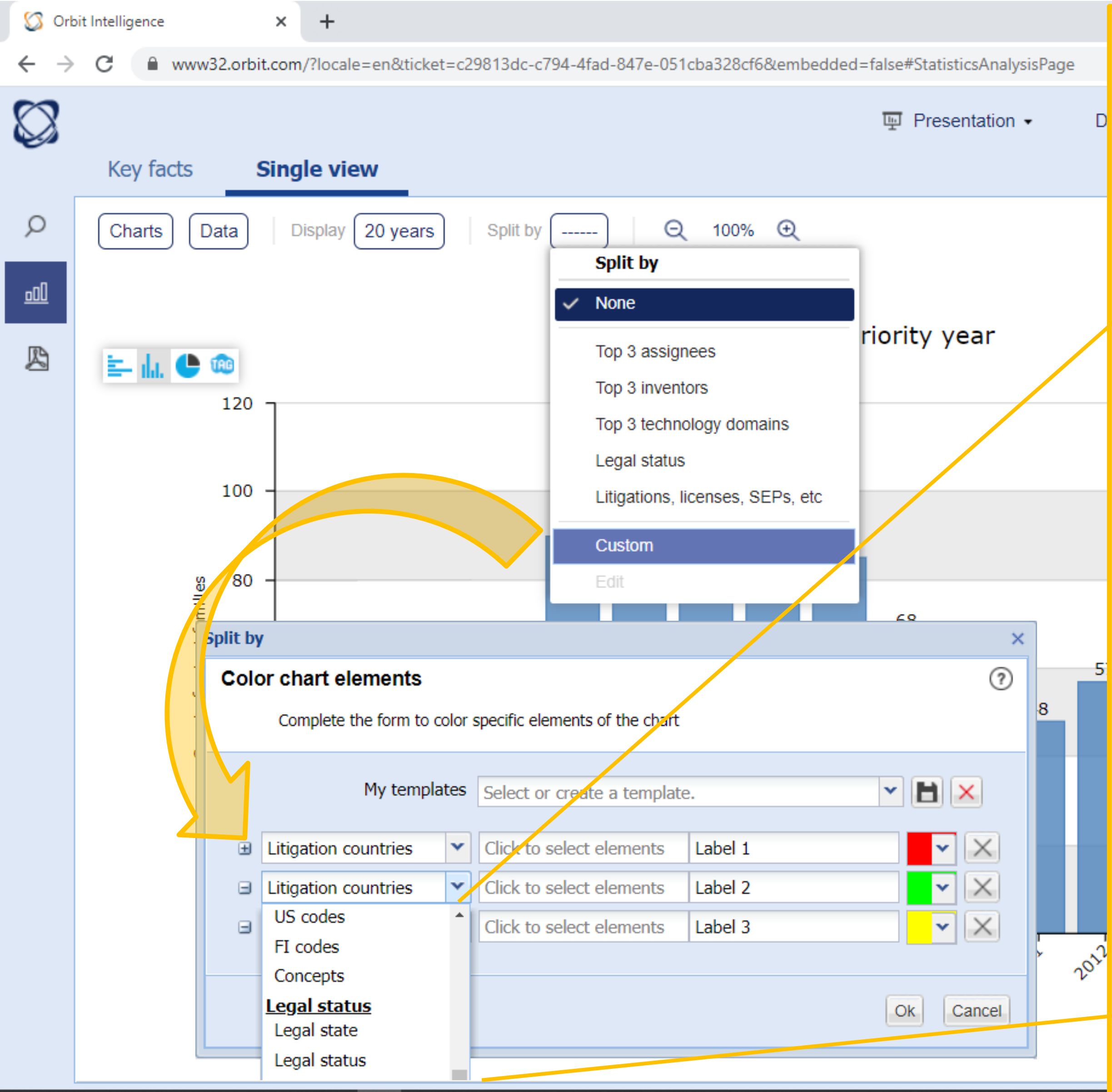
20 years
Split by
Technology domain
100%
More options
Suggestions
Split by
None
Top 3 assignees
Top 3 inventors
✓ Top 3 technology domains
Legal status
Litigations, licenses, SEPs, etc
Custom
Edit
riority year
140
120
100
80
60
40
20
0
Count of patent families
11 8
11 12 14
12 18 8 20
19 18 10 22
15 23 19
21 29 22
24 28 21
12 23 22 30
16 29 25
18 17 19 25
9 11 18 25
11 13 10 18
14 14 17 17
21 16 15 21
13 15 38
17 13 8 18
14
13
12 8 46
14
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
1st priority year
🟥 CIVIL ENGINEERING
🟩 BASIC MATERIALS CHEMISTRY
🟨 CHEMICAL ENGINEERING
🟦 Other

Disponível para Gold e Platinum Level, a ferramenta “**Split by**” permite segmentar gráficos conforme vários parâmetros

Além das opções na lista, dezenas de outras formas de segmentação podem ser configuradas na opção “Custom”

9. Ferramenta “Color” (para segmentar gráficos com diferentes cores, conforme parâmetros tais como nomes, tecnologias, etc.)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Split by

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Split by
None
Top 3 assignees
Top 3 inventors
Top 3 technology domains
Legal status
Litigations, licenses, SEPs, etc
Custom
Edit
riority year
120
100
80
68
57
8
2012

Split by

Color chart elements

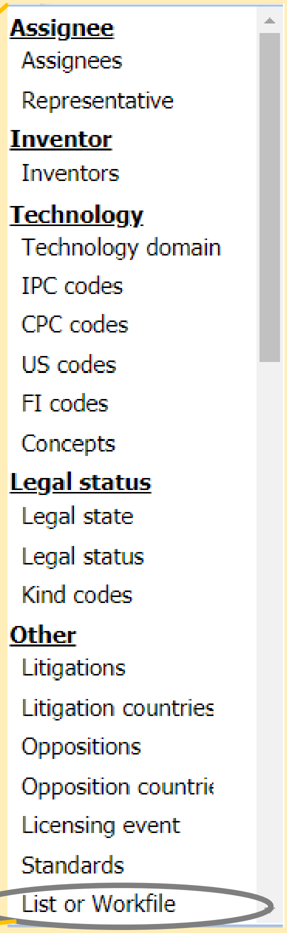
Complete the form to color specific elements of the chart

My templates: Select or create a template.

Litigation countries	Click to select elements	Label 1	🟥
Litigation countries	Click to select elements	Label 2	🟩
	Click to select elements	Label 3	🟨

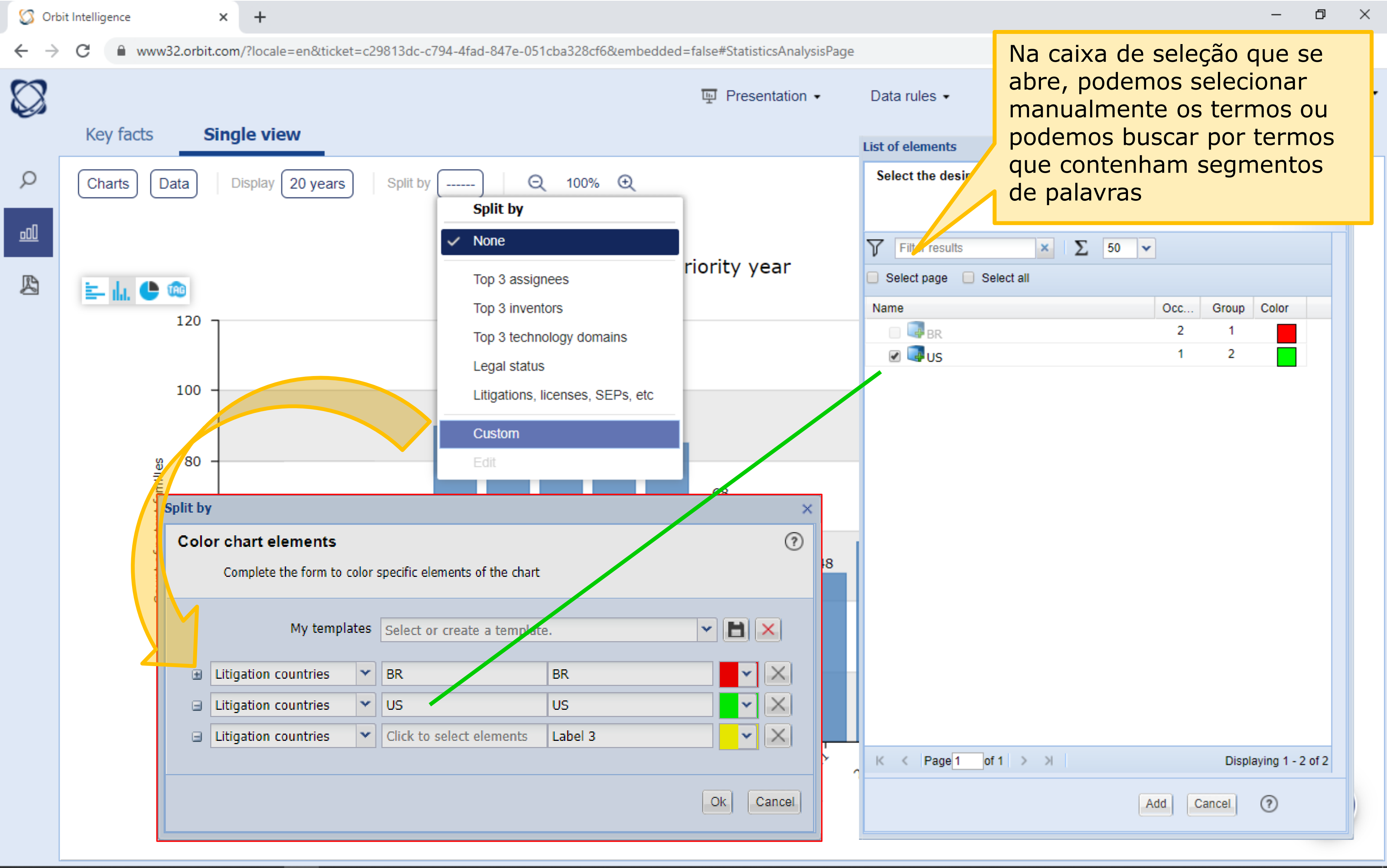
US codes
FI codes
Concepts
Legal status
Legal state
Legal status
Ok
Cancel

Disponível para Gold e Platinum Level, a ferramenta “**Split by**” permite segmentar gráficos conforme vários parâmetros


Assignee
Assignees
Representative
Inventor
Inventors
Technology
Technology domain
IPC codes
CPC codes
US codes
FI codes
Concepts
Legal status
Legal state
Legal status
Kind codes
Other
Litigations
Litigation countries
Oppositions
Opposition countrie
Licensing event
Standards
List or Workfile

* List or workfile: apenas para Platinum Level

9. Ferramenta “Color” (para segmentar gráficos com diferentes cores, conforme parâmetros tais como nomes, tecnologias, etc.)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Split by
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Split by
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Top 3 assignees
Top 3 inventors
Top 3 technology domains
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Litigations, licenses, SEPs, etc
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List of elements
Select the desir
Filter results
50
Select page
Select all
Page 1 of 1
Displaying 1 - 2 of 2
Add
Cancel

Na caixa de seleção que se abre, podemos selecionar manualmente os termos ou podemos buscar por termos que contenham segmentos de palavras

Name	Occ...	Group	Color
☐ BR	2	1	🟥
☑ US	1	2	🟩

Split by

Color chart elements

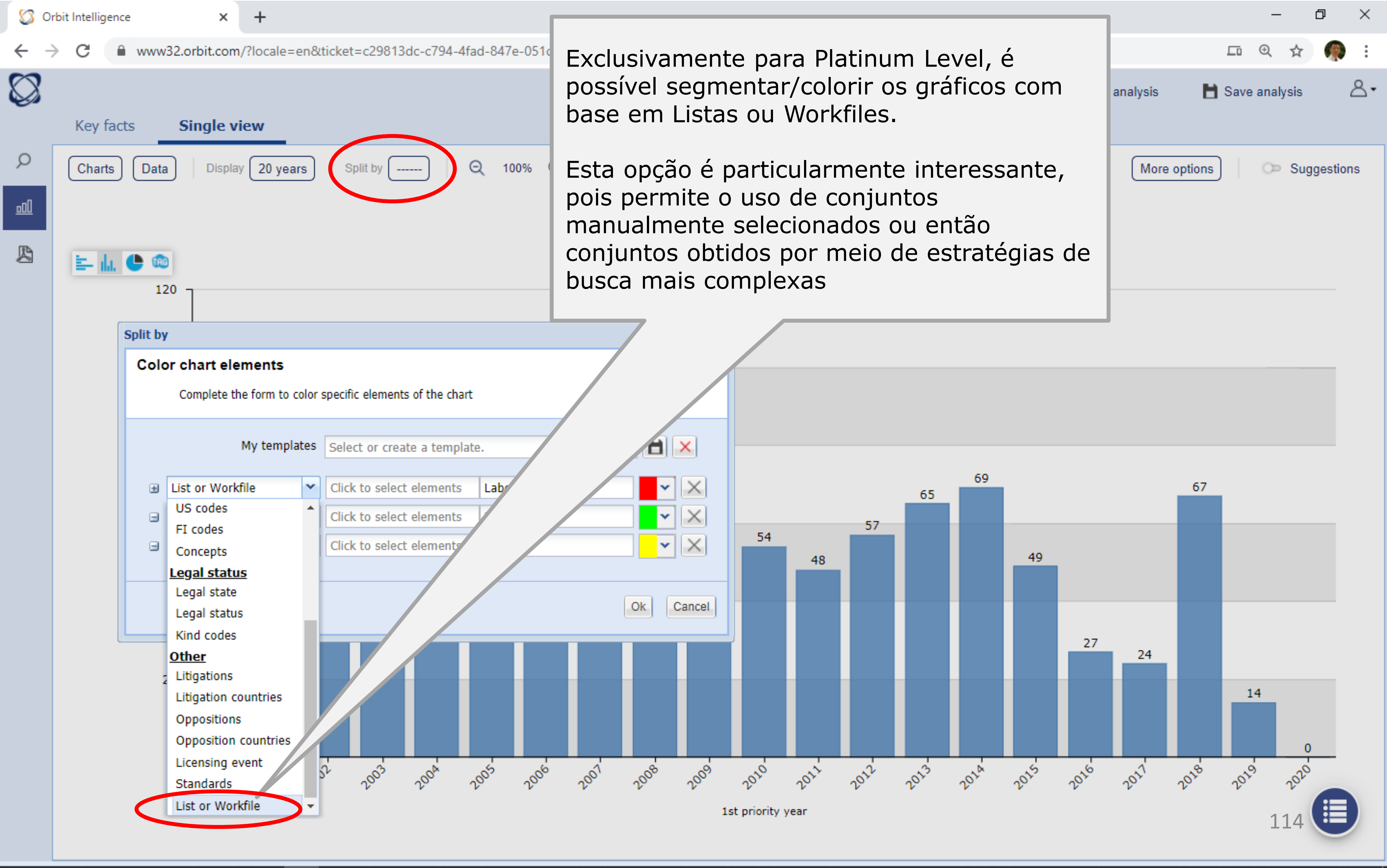
Complete the form to color specific elements of the chart

My templates: Select or create a template.

Litigation countries	BR	BR	🟥
Litigation countries	US	US	🟩
Litigation countries	Click to select elements	Label 3	🟨

Ok Cancel

10. Ferramenta “Color” com base em listas ou workfiles (exclusivamente para Platinum)



Exclusivamente para Platinum Level, é possível segmentar/colorir os gráficos com base em Listas ou Workfiles.

Esta opção é particularmente interessante, pois permite o uso de conjuntos manualmente selecionados ou então conjuntos obtidos por meio de estratégias de busca mais complexas

Split by

Color chart elements

Complete the form to color specific elements of the chart

My templates: Select or create a template.

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100%
More options
Suggestions
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List or Workfile
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FI codes
Concepts
Legal status
Legal state
Legal status
Kind codes
Other
Litigations
Litigation countries
Oppositions
Opposition countries
Licensing event
Standards
List or Workfile
Ok
Cancel
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48
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49
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2003
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2011
2012
2013
2014
2015
2016
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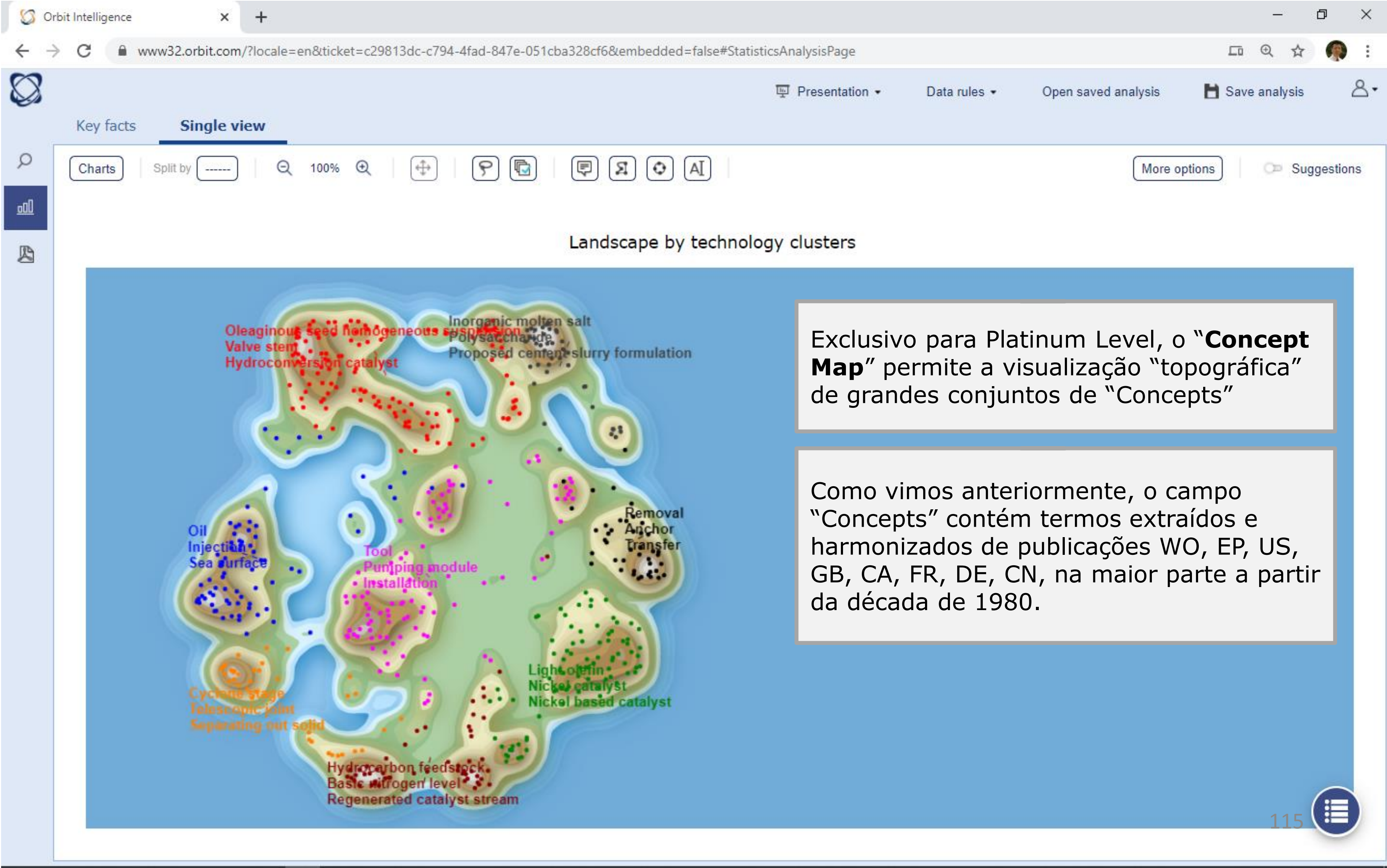
2018
2019
2020
1st priority year

11. Gráficos do tipo "Concept Map" (gráficos "topográficos" de ilhas e mares)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Split by

100%
More options
Suggestions
Landscape by technology clusters
Oleaginous seed homogeneous suspension
Valve stem
Hydroconversion catalyst
Inorganic molten salt
Polysaccharide
Proposed cement slurry formulation
Oil
Injection
Sea surface
Tool
Pumping module
Installation
Removal
Anchor
Transfer
Light olefin
Nickel catalyst
Nickel based catalyst
Cyclone stage
Telescopic joint
Separating out solid
Hydrocarbon feedstock
Basic nitrogen level
Regenerated catalyst stream

Exclusivo para Platinum Level, o "**Concept Map**" permite a visualização "topográfica" de grandes conjuntos de "Concepts"

Como vimos anteriormente, o campo "Concepts" contém termos extraídos e harmonizados de publicações WO, EP, US, GB, CA, FR, DE, CN, na maior parte a partir da década de 1980.

11. Gráficos do tipo "Concept Map" (gráficos "topográficos" de ilhas e mares)

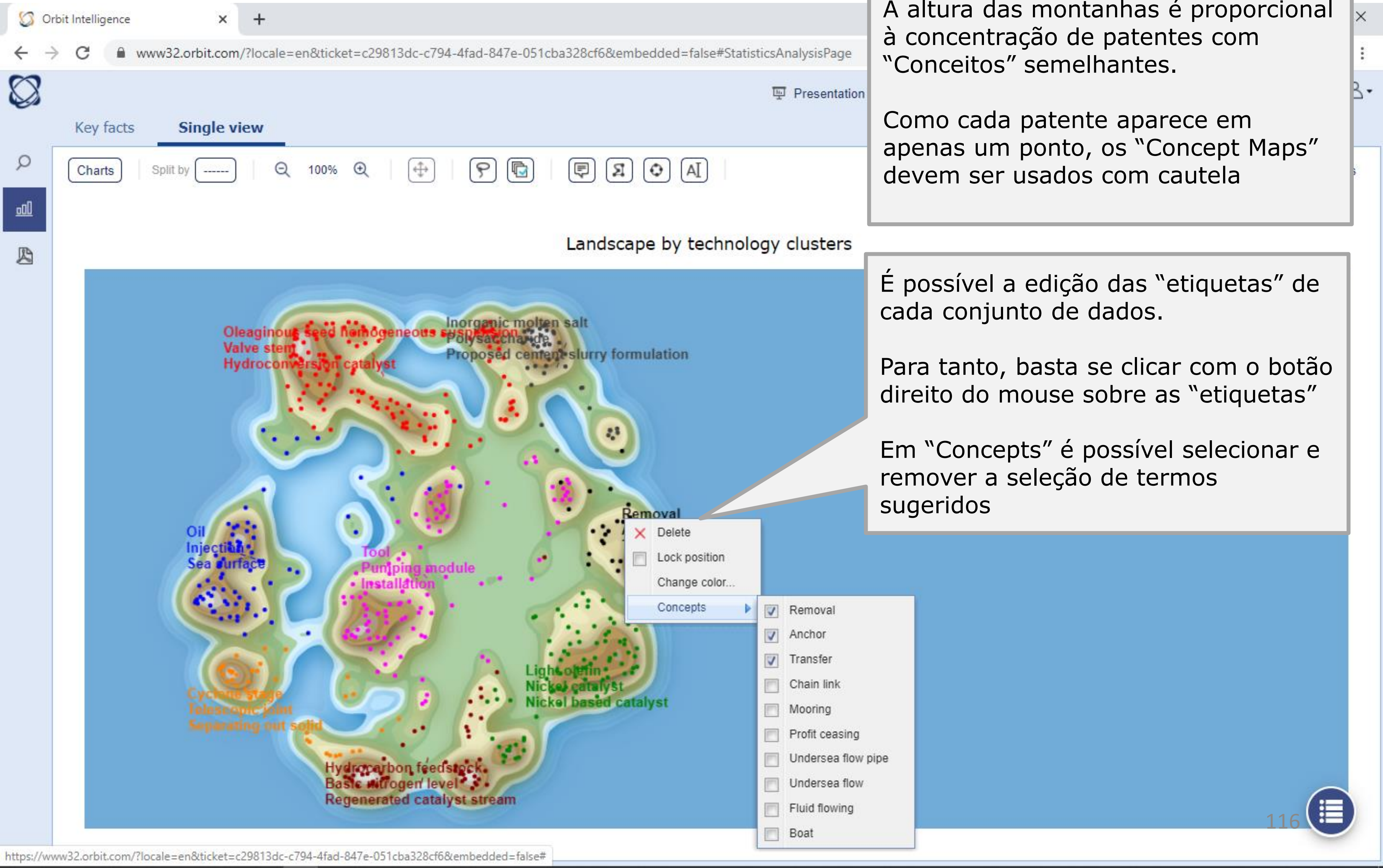
A altura das montanhas é proporcional à concentração de patentes com "Conceitos" semelhantes.

Como cada patente aparece em apenas um ponto, os "Concept Maps" devem ser usados com cautela

É possível a edição das "etiquetas" de cada conjunto de dados.

Para tanto, basta se clicar com o botão direito do mouse sobre as "etiquetas"

Em "Concepts" é possível selecionar e remover a seleção de termos sugeridos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Valve stem
Hydroconversion catalyst
Inorganic molten salt
Polysaccharide
Proposed cement slurry formulation
Removal
Oil
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Pumping module
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Nickel catalyst
Nickel based catalyst
Cyclone stage
Telescopic joint
Separating out solid
Hydrocarbon feedstock
Basic nitrogen level
Regenerated catalyst stream
Delete
Lock position
Change color...
Concepts
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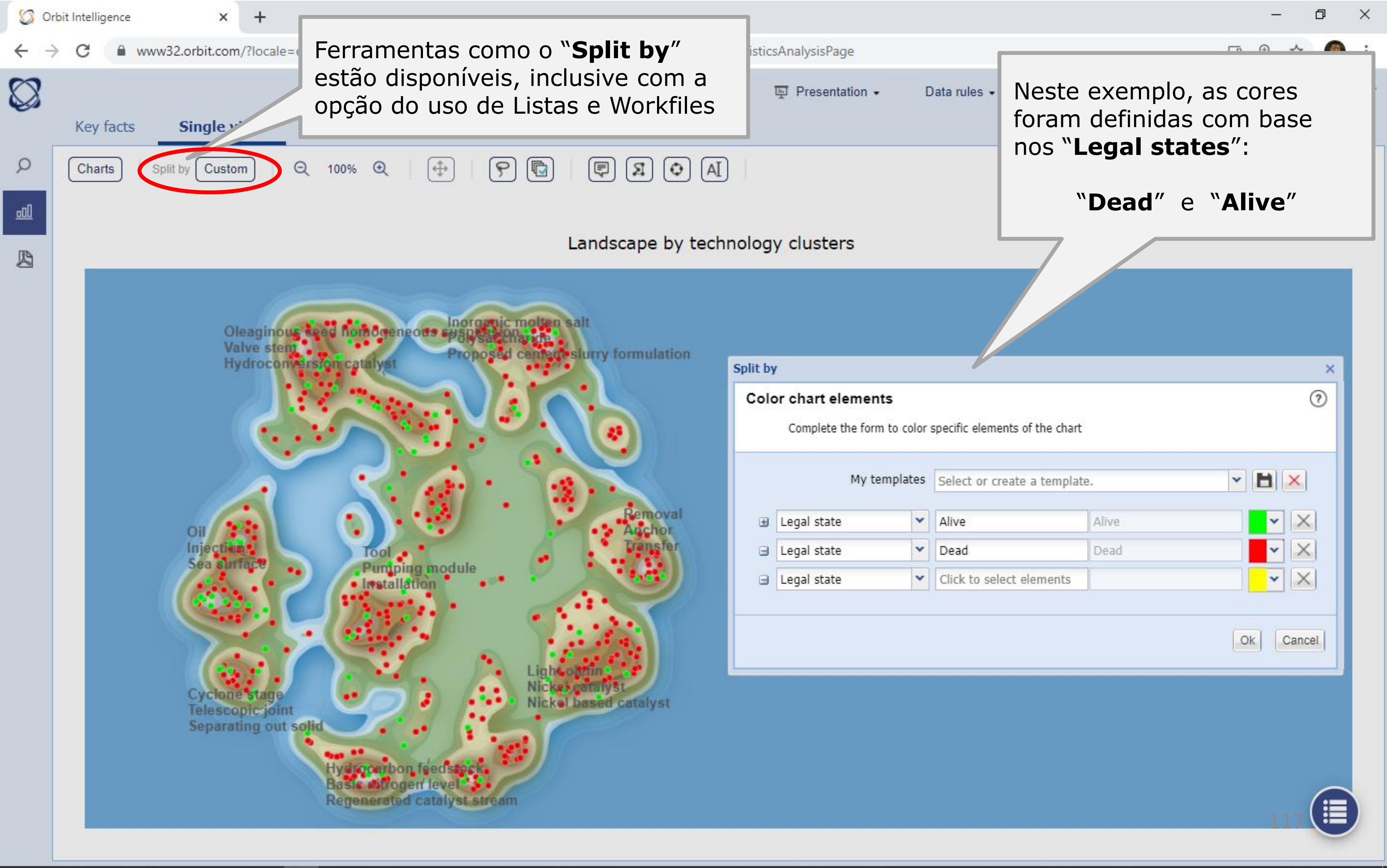
☐ Lock position

☑ Removal
☑ Anchor
☑ Transfer
☐ Chain link
☐ Mooring
☐ Profit ceasing
☐ Undersea flow pipe
☐ Undersea flow
☐ Fluid flowing
☐ Boat

11. Gráficos do tipo “Concept Map” (gráficos “topográficos” de ilhas e mares)



Ferramentas como o “**Split by**” estão disponíveis, inclusive com a opção do uso de Listas e Workfiles

Neste exemplo, as cores foram definidas com base nos “**Legal states**”:

“**Dead**” e “**Alive**”

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Split by
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100%
Landscape by technology clusters
Oleaginous seed homogeneous suspension
Valve stem
Hydroconversion catalyst
Inorganic molten salt
Polysaccharide
Proposed content slurry formulation
Oil
Injection
Sea surface
Tool
Pumping module
Installation
Removal
Anchor
Transfer
Cyclone stage
Telescopic joint
Separating out solid
Light olefin
Nickel catalyst
Nickel based catalyst
Hydrocarbon feedstock
Basic nitrogen level
Regenerated catalyst stream

Split by

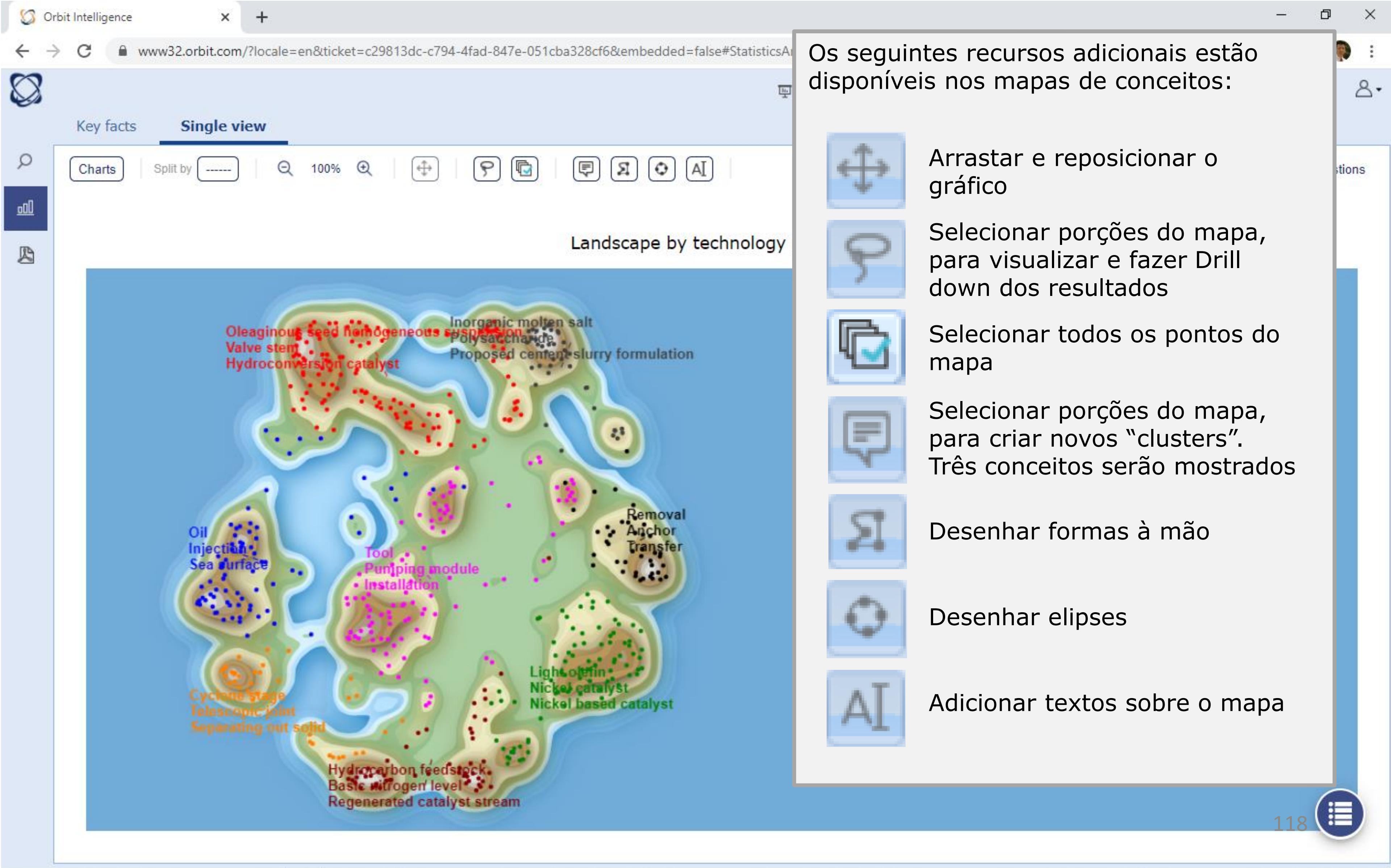
Color chart elements

Complete the form to color specific elements of the chart

My templates: Select or create a template.

Legal state	Alive	Alive	🟩
Legal state	Dead	Dead	🟥
Legal state	Click to select elements		🟨

11. Gráficos do tipo “Concept Map” (gráficos “topográficos” de ilhas e mares)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Valve stem
Hydroconversion catalyst
Inorganic molten salt
Polysaccharide
Proposed cement slurry formulation
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Sea surface
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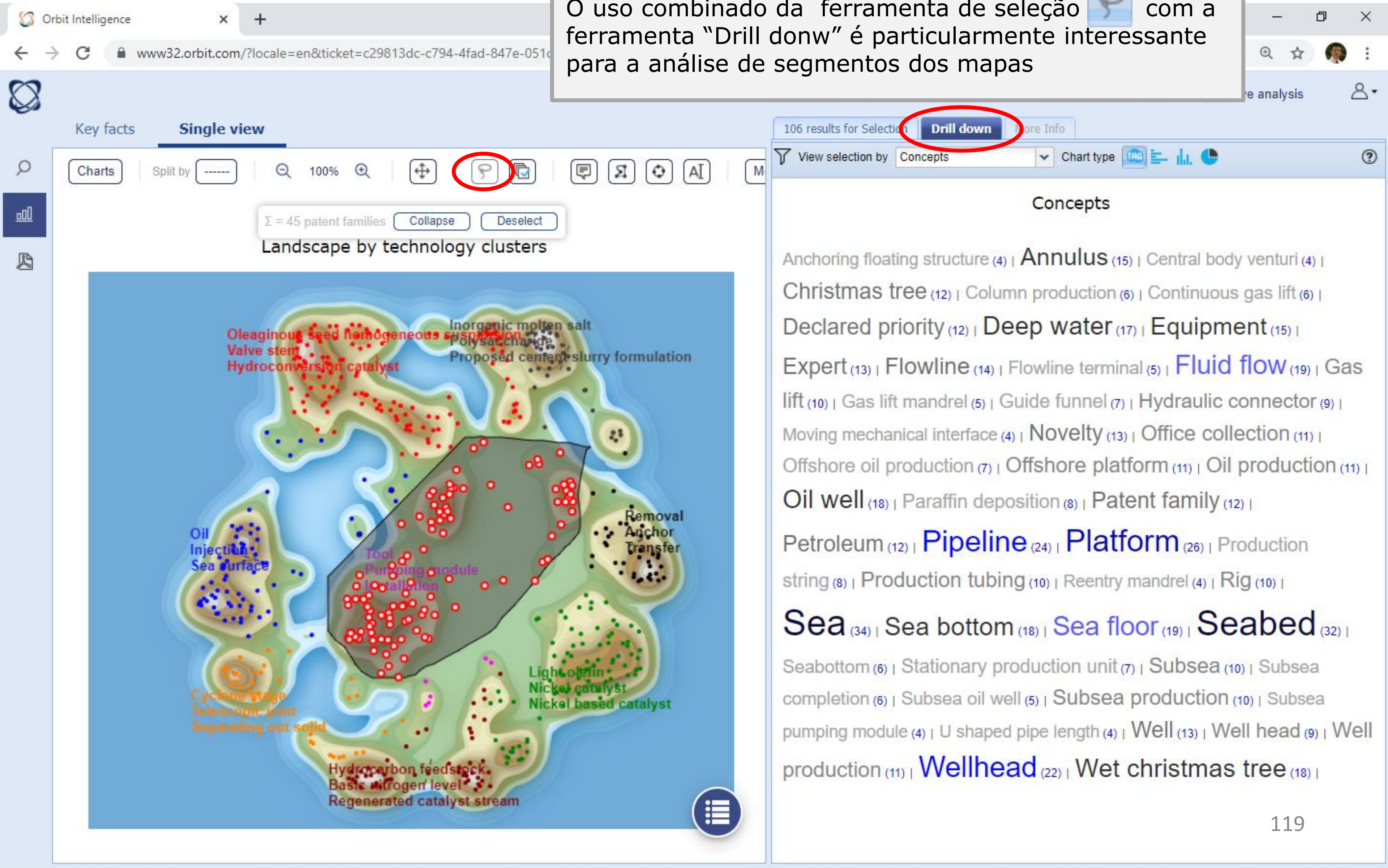
Installation
Removal
Anchor
Transfer
Cyclone stage
Telescopic joint
Separating out solid
Light olefin
Nickel catalyst
Nickel based catalyst
Hydrocarbon feedstock
Basic nitrogen level
Regenerated catalyst stream

Os seguintes recursos adicionais estão disponíveis nos mapas de conceitos:

- Arrastar e reposicionar o gráfico
- Selecionar porções do mapa, para visualizar e fazer Drill down dos resultados
- Selecionar todos os pontos do mapa
- Selecionar porções do mapa, para criar novos “clusters”. Três conceitos serão mostrados
- Desenhar formas à mão
- Desenhar elipses
- Adicionar textos sobre o mapa

11. Gráficos do tipo “Concept Map” (gráficos “topográficos” de ilhas e mares)

O uso combinado da ferramenta de seleção com a ferramenta “Drill donw” é particularmente interessante para a análise de segmentos dos mapas


Orbit Intelligence
www32.orbit.com/?locale=en&ticket=c29813dc-c794-4fad-847e-051
Key facts
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Deselect
106 results for Selection
Drill down
More Info
View selection by
Concepts
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Oleaginous seed homogeneous suspension
Valve stem
Hydroconversion catalyst
Inorganic molten salt
Polysaccharide
Proposed cement slurry formulation
Removal
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Tool
Pumping module
Installation
Light olefin
Nickel catalyst
Nickel based catalyst
Cyclone stage
Telescopic joint
Separating out solid
Hydrocarbon feedstock
Basic nitrogen level
Regenerated catalyst stream

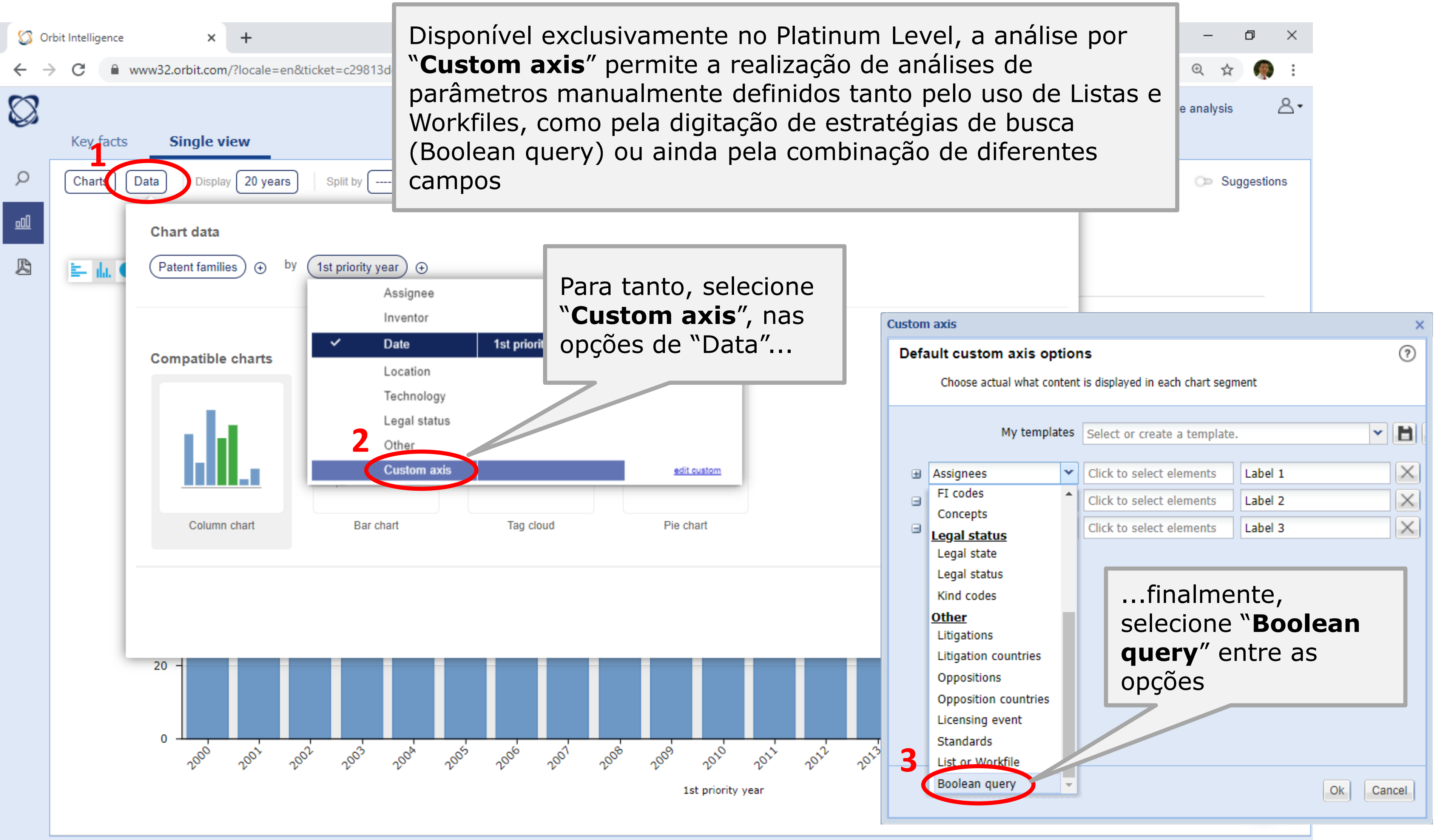
Landscape by technology clusters

Concepts

Anchoring floating structure (4) | Annulus (15) | Central body venturi (4) | Christmas tree (12) | Column production (6) | Continuous gas lift (6) | Declared priority (12) | Deep water (17) | Equipment (15) | Expert (13) | Flowline (14) | Flowline terminal (5) | Fluid flow (19) | Gas lift (10) | Gas lift mandrel (5) | Guide funnel (7) | Hydraulic connector (9) | Moving mechanical interface (4) | Novelty (13) | Office collection (11) | Offshore oil production (7) | Offshore platform (11) | Oil production (11) | Oil well (18) | Paraffin deposition (8) | Patent family (12) | Petroleum (12) | Pipeline (24) | Platform (26) | Production string (8) | Production tubing (10) | Reentry mandrel (4) | Rig (10) | Sea (34) | Sea bottom (18) | Sea floor (19) | Seabed (32) | Seabottom (6) | Stationary production unit (7) | Subsea (10) | Subsea completion (6) | Subsea oil well (5) | Subsea production (10) | Subsea pumping module (4) | U shaped pipe length (4) | Well (13) | Well head (9) | Well production (11) | Wellhead (22) | Wet christmas tree (18) |

12. Gráficos por “Custom Fields” (para realização de análises “avançadas”, baseadas em estratégias de busca, listas e workfiles manualmente construídos)

Disponível exclusivamente no Platinum Level, a análise por “**Custom axis**” permite a realização de análises de parâmetros manualmente definidos tanto pelo uso de Listas e Workfiles, como pela digitação de estratégias de busca (Boolean query) ou ainda pela combinação de diferentes campos


Orbit Intelligence
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1st priority year
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Inventor
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Technology
Legal status
Other
2
Custom axis
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Compatible charts
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1st priority year
Custom axis
Default custom axis options
Choose actual what content is displayed in each chart segment
My templates
Select or create a template.
Assignees
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Legal status
Legal state
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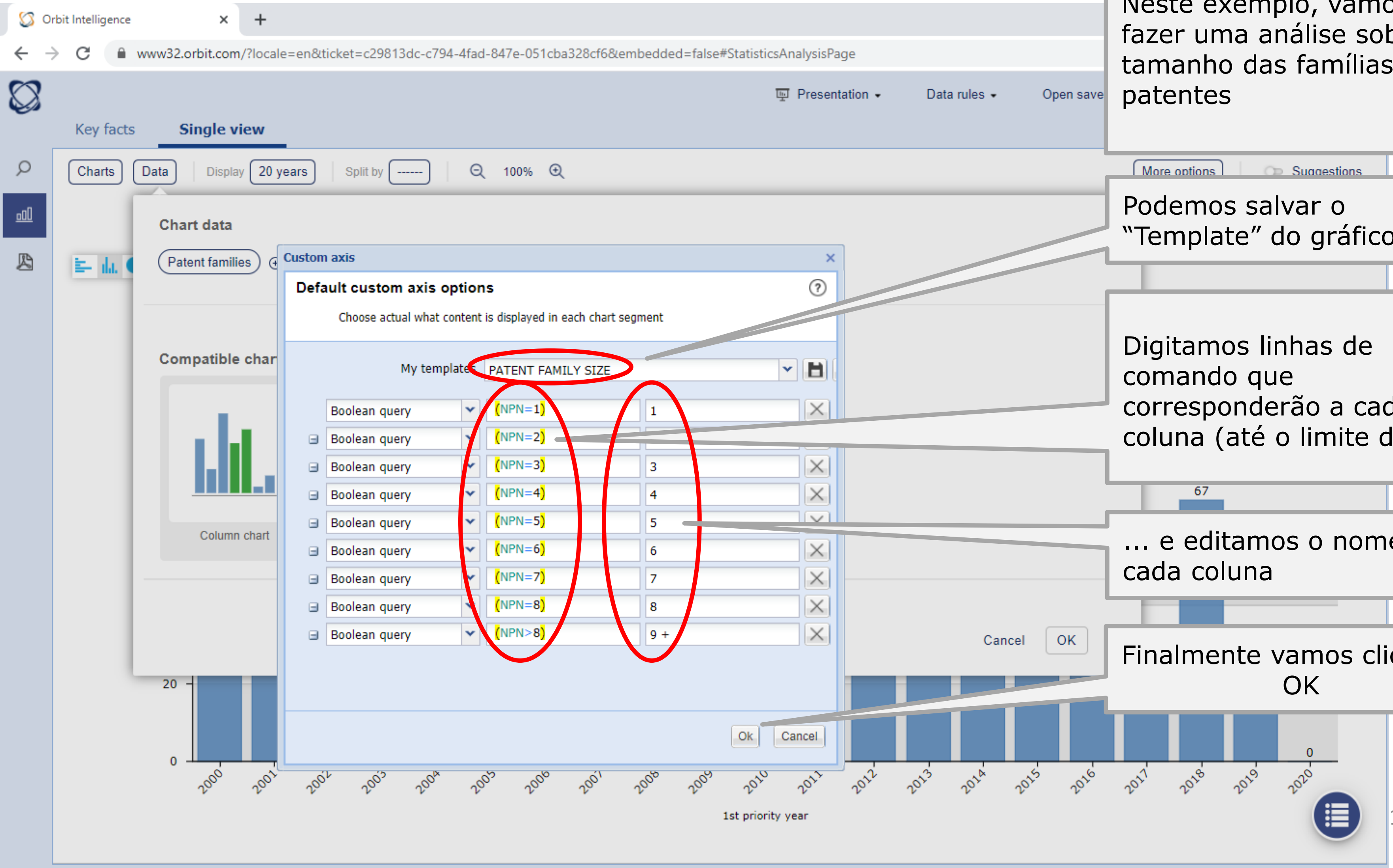
Litigations
Litigation countries
Oppositions
Opposition countries
Licensing event
Standards
List or Workfile
3
Boolean query
Click to select elements
Label 1
Click to select elements
Label 2
Click to select elements
Label 3
Ok
Cancel

Para tanto, selecione “**Custom axis**”, nas opções de “Data”…

…finalmente, selecione “**Boolean query**” entre as opções

12. Gráficos por “Custom Fields” (para realização de análises “avançadas”, baseadas em estratégias de busca, listas e workfiles manualmente construídos)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2016
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2018
2019
2020
1st priority year
Ok
Cancel

Custom axis

Default custom axis options

Choose actual what content is displayed in each chart segment

My templates: PATENT FAMILY SIZE

Boolean query	(NPN=1)	1
Boolean query	(NPN=2)	
Boolean query	(NPN=3)	3
Boolean query	(NPN=4)	4
Boolean query	(NPN=5)	5
Boolean query	(NPN=6)	6
Boolean query	(NPN=7)	7
Boolean query	(NPN=8)	8
Boolean query	(NPN>8)	9 +

Neste exemplo, vamos fazer uma análise sobre o tamanho das famílias de patentes

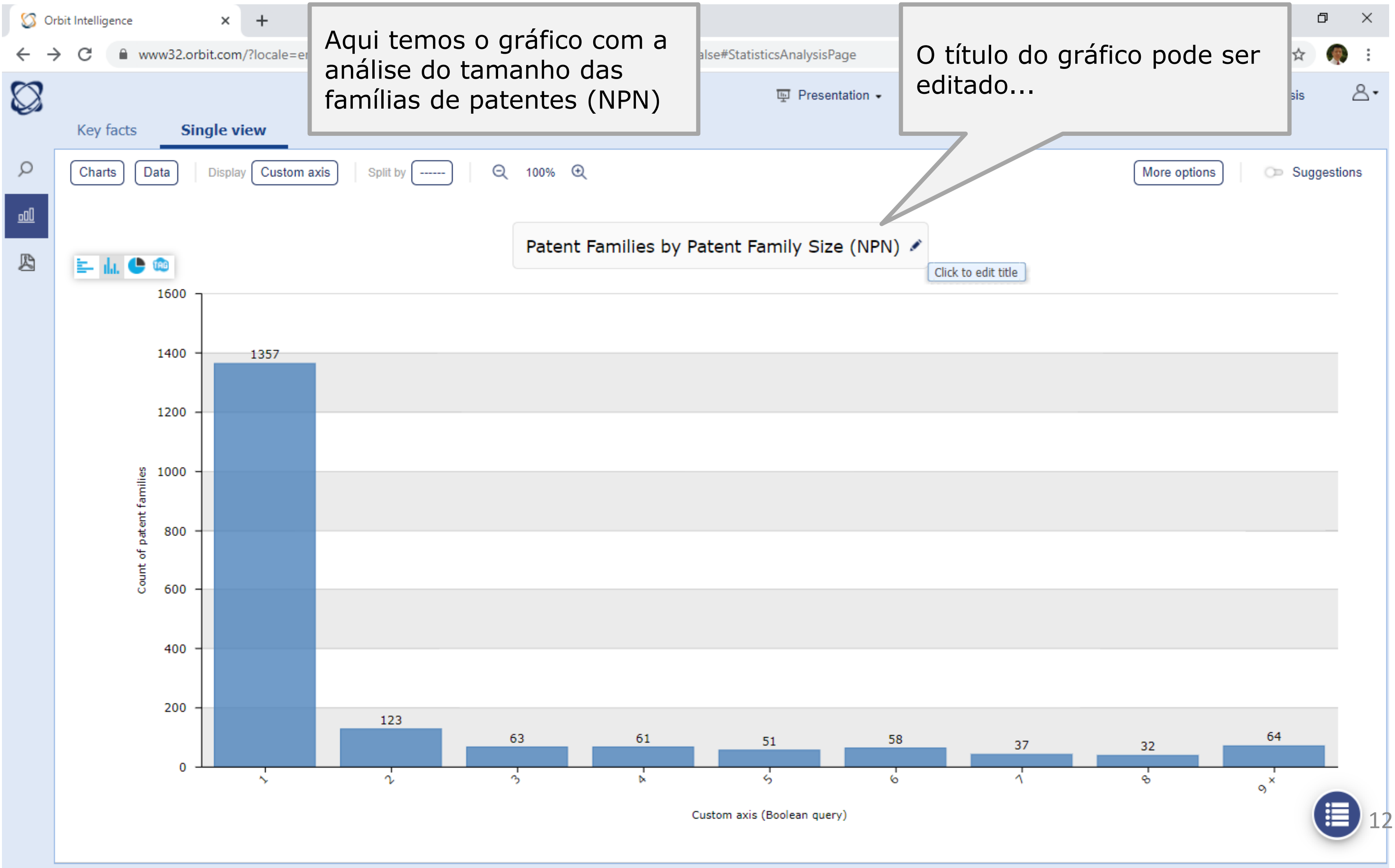
Podemos salvar o “Template” do gráfico

Digitamos linhas de comando que corresponderão a cada coluna (até o limite de 9)...

... e editamos o nome de cada coluna

Finalmente vamos clicar em OK

12. Gráficos por “Custom Fields” (para realização de análises “avançadas”, baseadas em estratégias de busca, listas e workfiles manualmente construídos)



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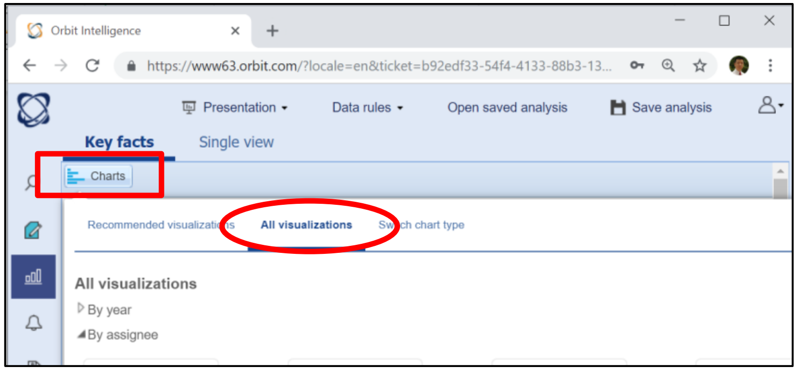
Suggestions
Patent Families by Patent Family Size (NPN)
Click to edit title
Count of patent families
1600
1400
1200
1000
800
600
400
200
0
1357
123
63
61
51
58
37
32
64
1
2
3
4
5
6
7
8
9
Custom axis (Boolean query)

Aqui temos o gráfico com a análise do tamanho das famílias de patentes (NPN)

O título do gráfico pode ser editado...

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)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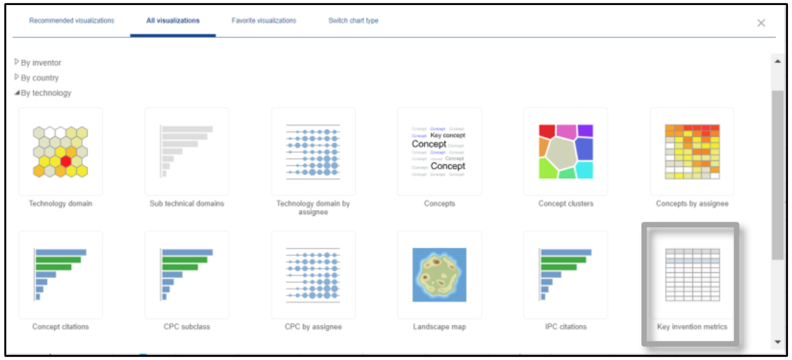
Charts
Recommended visualizations
All visualizations
Switch chart type
All visualizations
By year
By assignee

Além do Landscape map, também **são exclusivos para o Platinum Level os gráficos**

- **Key invention metrics**
- **Impact (Assignee, Inventor, etc.)**
- **Indicators**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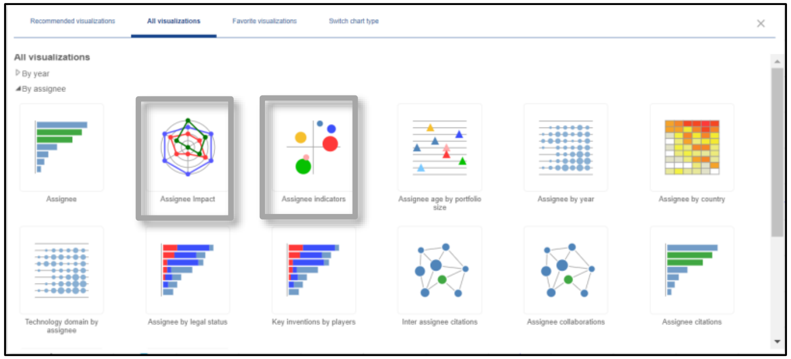
All visualizations
Favorite visualizations
Switch chart type
By inventor
By country
By technology
Technology domain
Sub technical domains
Technology domain by assignee
Concepts
Concept clusters
Concepts by assignee
Concept citations
CPC subclass
CPC by assignee
Landscape map
IPC citations
Key invention metrics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By year
By assignee
Assignee
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Inter assignee citations
Assignee collaborations
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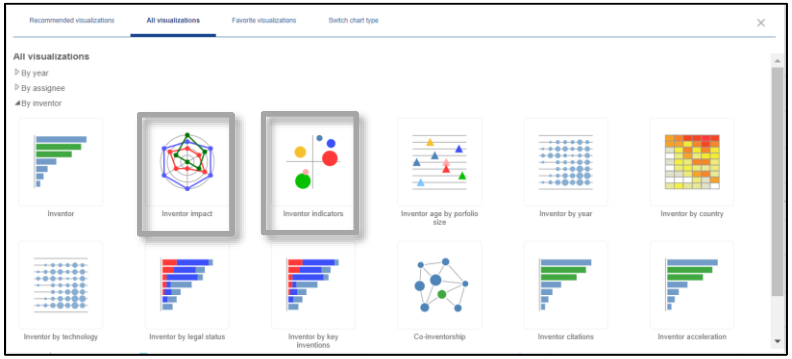
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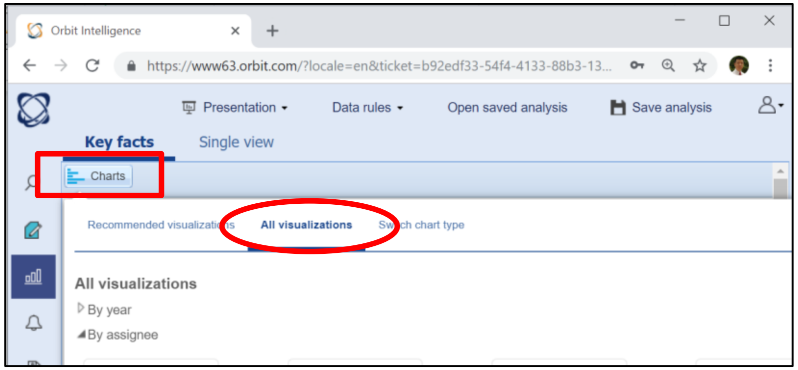
By year
By assignee
By inventor
Inventor
Inventor impact
Inventor indicators
Inventor age by porfolio size
Inventor by year
Inventor by country
Inventor by technology
Inventor by legal status
Inventor by key inventions
Co-inventorship
Inventor citations
Inventor acceleration

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)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Charts
Recommended visualizations
All visualizations
Switch chart type
All visualizations
By year
By assignee

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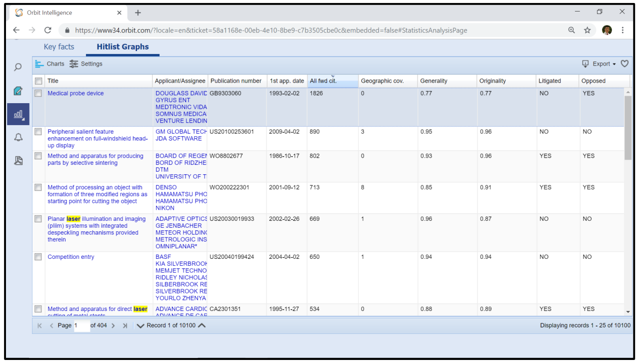
- **Key invention metrics**
- **Impact (Assignee, Inventor, etc.)**
- **Indicators**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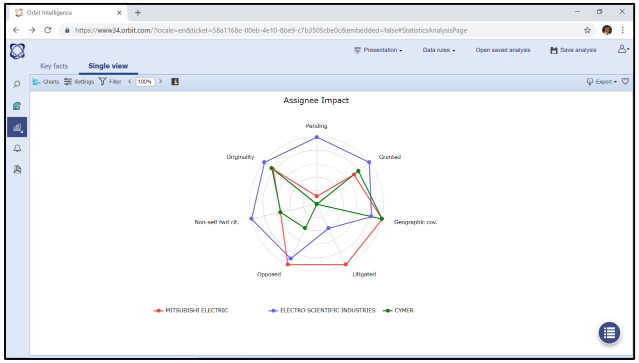
Key facts
Hitlist Graphs
Charts
Settings
Export

☐	Title	Applicant/Assignee	Publication number	1st app. date	All fwd cit.	Geographic cov.	Generality	Originality	Litigated	Opposed
☐	Medical probe device	DOUGLASS DAVIE GYRUS ENT MEDTRONIC VIDA SOMNUS MEDICA VENTURE LENDIN	GB9303060	1993-02-02	1826	0	0.77	0.77	NO	YES
☐	Peripheral salient feature enhancement on full-windshield head-up display	GM GLOBAL TECH JDA SOFTWARE	US20100253601	2009-04-02	890	3	0.95	0.96	NO	NO
☐	Method and apparatus for producing parts by selective sintering	BOARD OF REGEN BORD OF RIDZHE DTM UNIVERSITY OF T	WO8802677	1986-10-17	802	0	0.93	0.96	YES	YES
☐	Method of processing an object with formation of three modified regions as starting point for cutting the object	DENSO HAMAMATSU PHO HAMAMATSU PHO NIKON	WO200222301	2001-09-12	713	8	0.85	0.91	YES	YES
☐	Planar laser illumination and imaging (pliim) systems with integrated despeckling mechanisms provided therein	ADAPTIVE OPTICS GE JENBACHER METEOR HOLDING METROLOGIC INS OMNIPLANAR*	US20030019933	2002-02-26	669	1	0.96	0.87	NO	NO
☐	Competition entry	BASF KIA SILVERBROOK MEMJET TECHNO RIDLEY NICHOLAS SILBERBROOK RE SILVERBROOK RE YOURLO ZHENYA	US20040199424	2004-04-02	650	1	0.94	0.94	NO	NO
☐	Method and apparatus for direct laser	ADVANCE CARDIC	CA2301351	1995-11-27	534	0	0.88	0.89	YES	YES

Page 1 of 404 Record 1 of 10100 Displaying records 1 - 25 of 10100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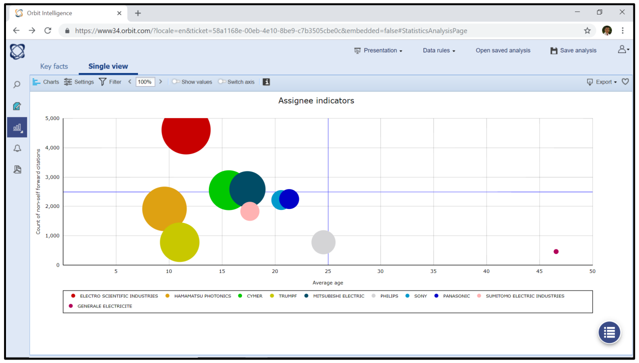
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ELECTRO SCIENTIFIC INDUSTRIES
HAMAMATSU PHOTONICS
CYMER
TRUMPF
MITSUBISHI ELECTRIC
PHILIPS
SONY
PANASONIC
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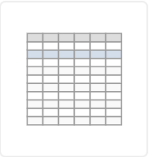
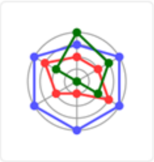
GENERALE ELECTRICITE

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)


Key invention metrics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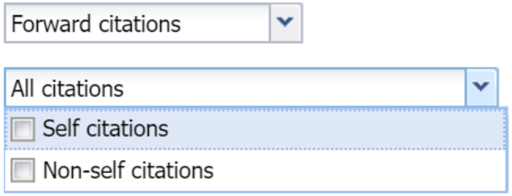
indicators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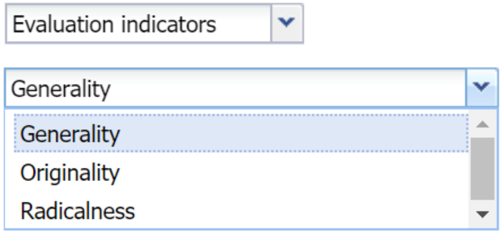
☐ Non-self citations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Generality
Generality
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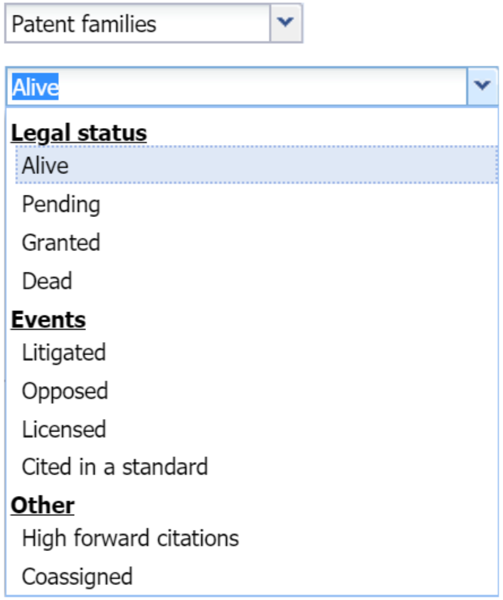
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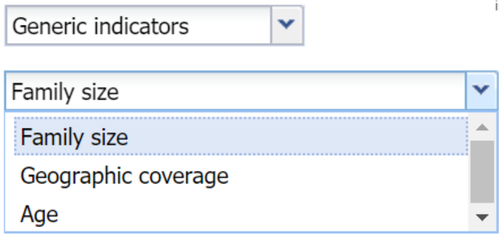
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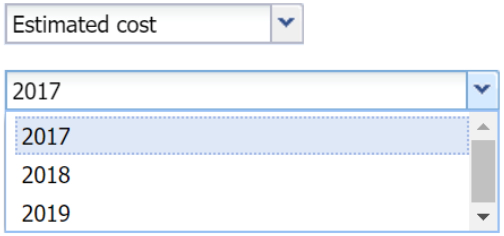

Estimated cost
2017
2017
2018
2019

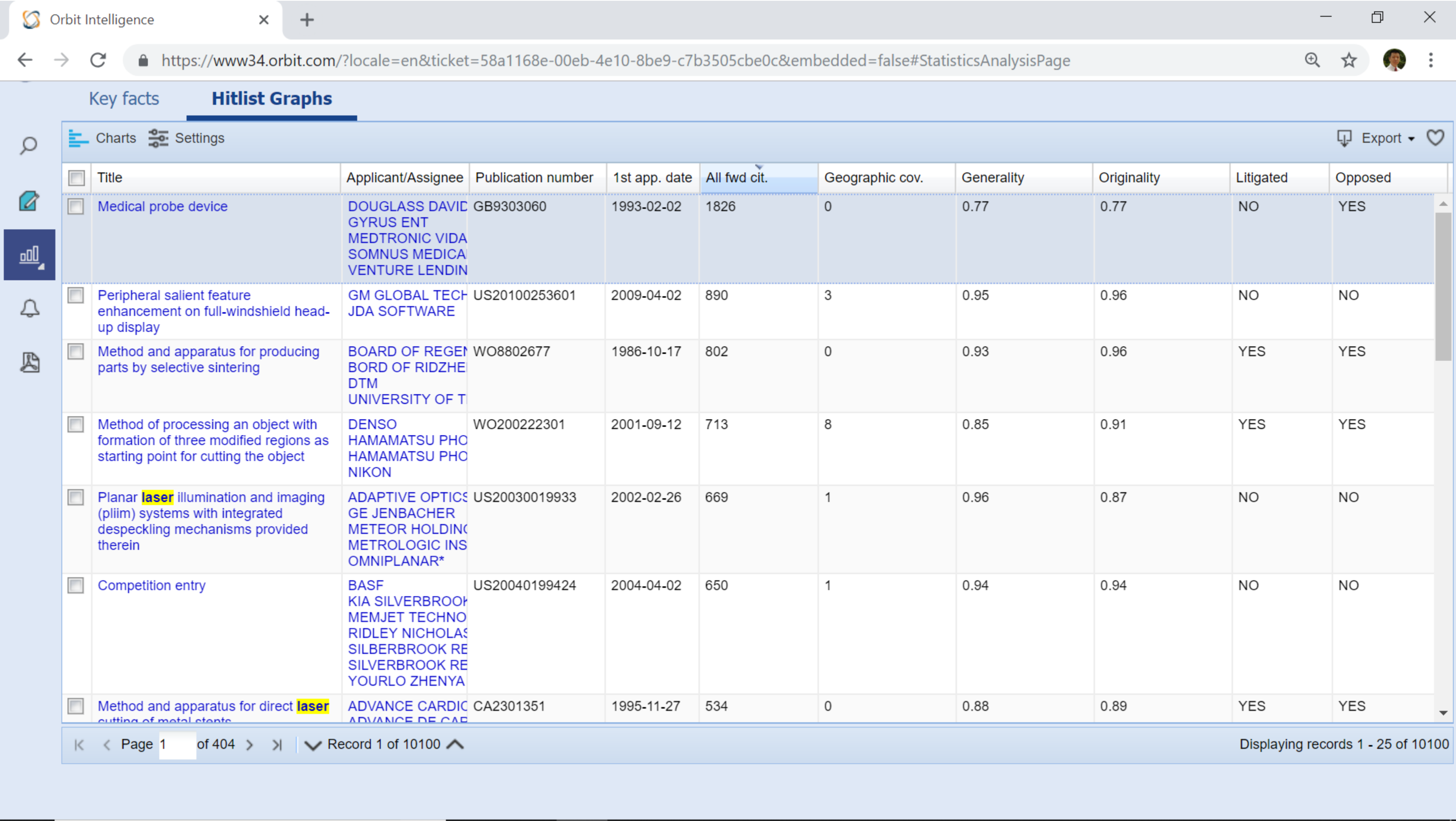
Generality index - Positive - Generality index, high score indicates a wider application across different technology groups, low score indicates more specific application. Briefly; forward citations from a wider spread technology groups will generate a higher score. Fully Defined by Hall, Jaffe, and Trajtenberg (2001)

Originality index - Positive - Originality Index, high scores indicates breakthrough technology, low scores indicates incremental improvement. Briefly; backward citations to a wider spread of technology groups will generate a higher score. Fully Defined by Hall, Jaffe, and Trajtenberg (2001)

Radicalness index - Positive – Values between 0 and 1. Values close to 1 indicate innovative technologies. Values close to 0 indicate more incremental technologies. The value is calculated for each patent family and for each portfolio of applicants. Radicalness is similar to originality (using backward citations), but when calculating radicalness, the IPCs in common between the applicant's patent families and the backward citations are ignored. Defined by Shane, 2001.

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)

Key invention metrics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☐	Title	Applicant/Assignee	Publication number	1st app. date	All fwd cit.	Geographic cov.	Generality	Originality	Litigated	Opposed
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Page 1 of 404 | Record 1 of 10100 | Displaying records 1 - 25 of 10100

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)

Key invention metrics

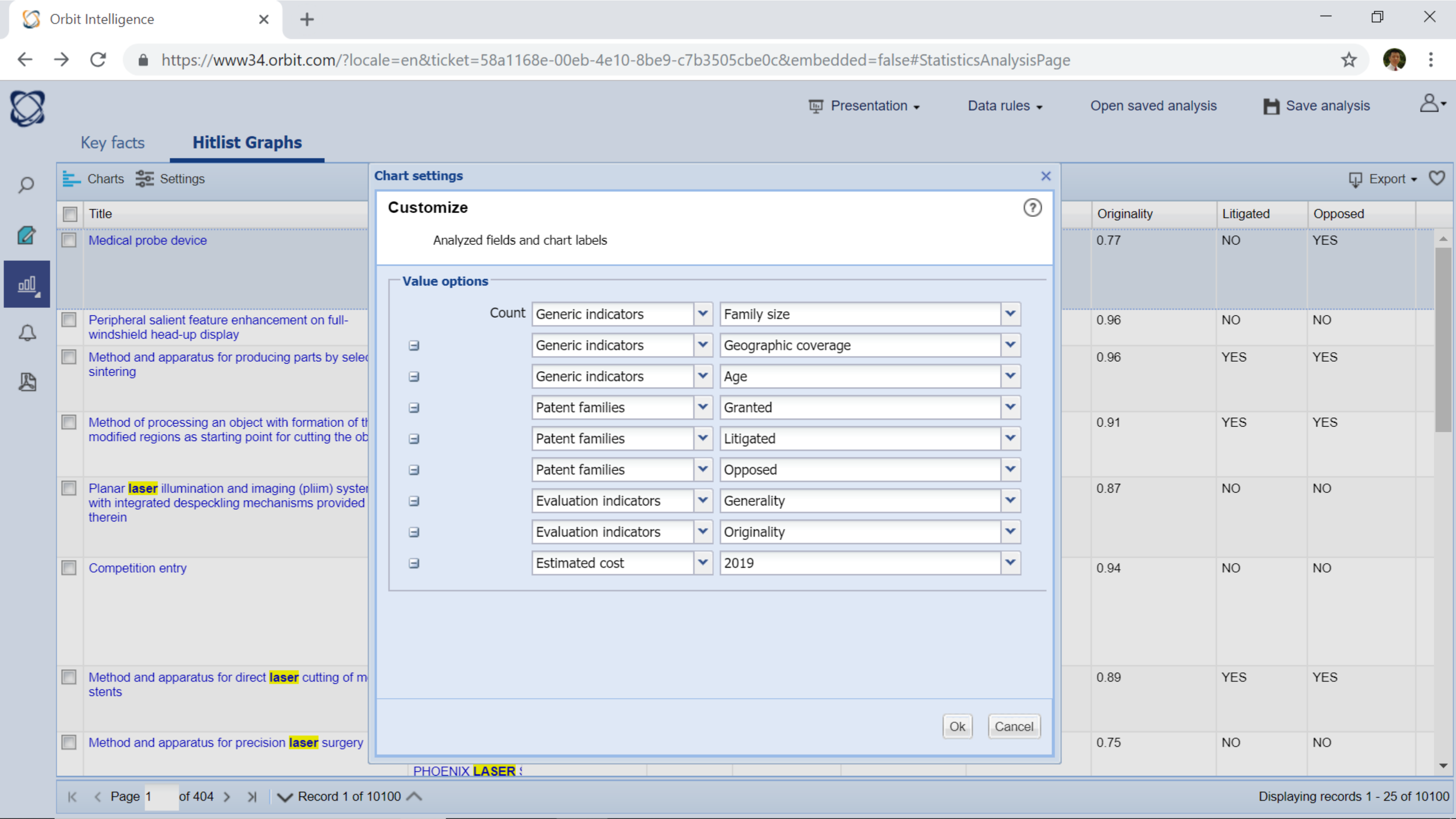
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Chart settings

Customize

Analyzed fields and chart labels

Value options

Count	Generic indicators	Family size
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⊟	Generic indicators	Age
⊟	Patent families	Granted
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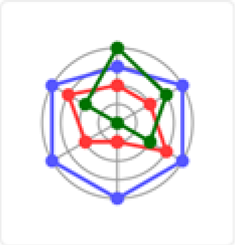
⊟	Patent families	Opposed
⊟	Evaluation indicators	Generality
⊟	Evaluation indicators	Originality
⊟	Estimated cost	2019

Title	Originality	Litigated	Opposed
Medical probe device	0.77	NO	YES
Peripheral salient feature enhancement on full-windshield head-up display	0.96	NO	NO
Method and apparatus for producing parts by selec sintering	0.96	YES	YES
Method of processing an object with formation of th modified regions as starting point for cutting the ob	0.91	YES	YES
Planar **laser** illumination and imaging (pliim) syster with integrated despeckling mechanisms provided therein	0.87	NO	NO
Competition entry	0.94	NO	NO
Method and apparatus for direct **laser** cutting of m stents	0.89	YES	YES
Method and apparatus for precision **laser** surgery	0.75	NO	NO

PHOENIX **LASER**

Page 1 of 404 — Record 1 of 10100 — Displaying records 1 - 25 of 10100

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)



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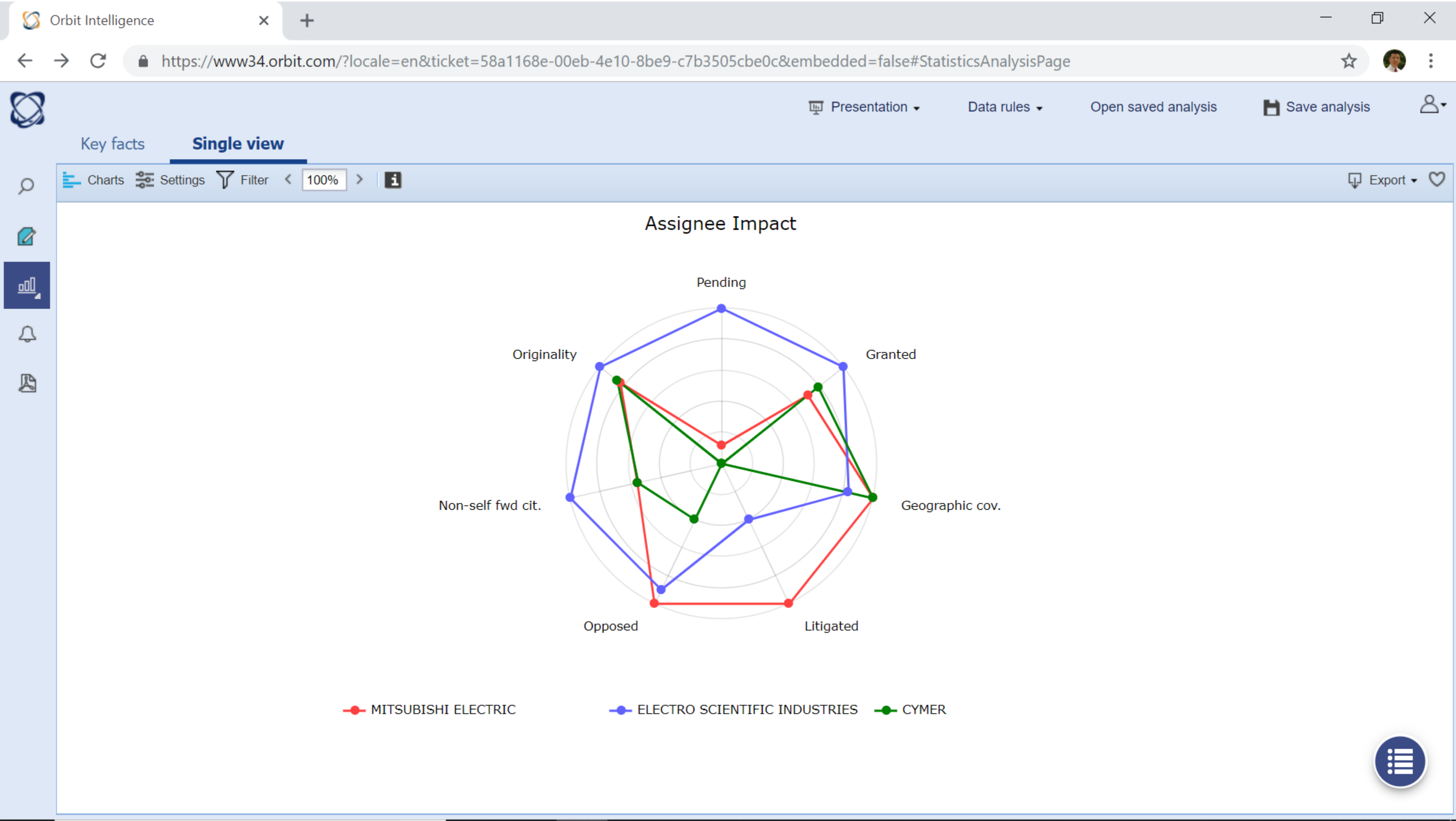

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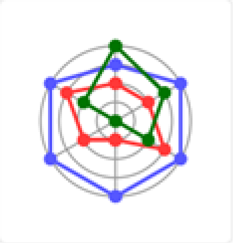
13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)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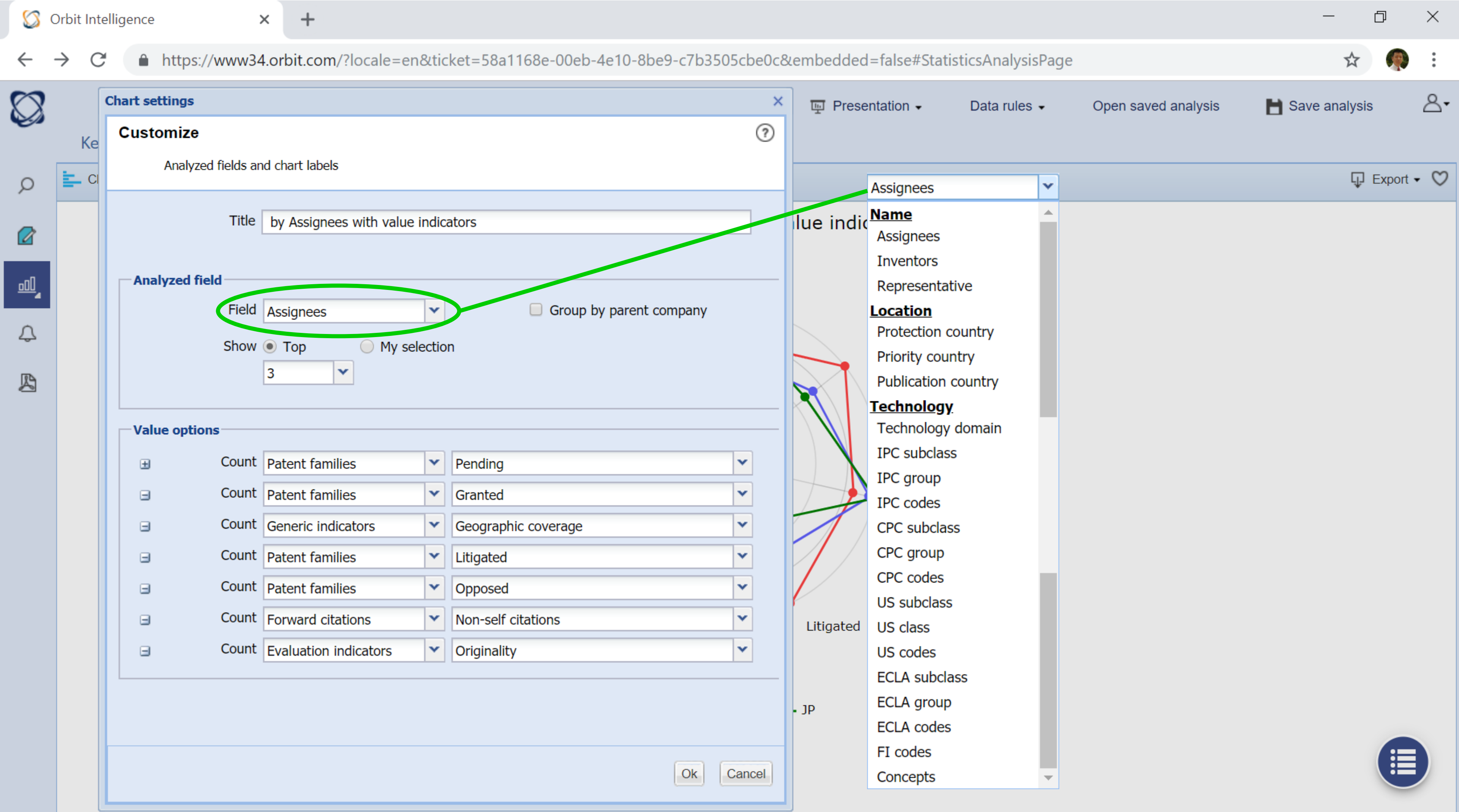
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IPC group
IPC codes
CPC subclass
CPC group
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US subclass
US class
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ECLA subclass
ECLA group
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Chart settings

Customize

Analyzed fields and chart labels

Title: by Assignees with value indicators

Analyzed field

Field: Assignees

☐ Group by parent company

Show: ● Top ○ My selection

3

Value options

⊞	Count	Patent families	Pending
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⊟	Count	Patent families	Litigated
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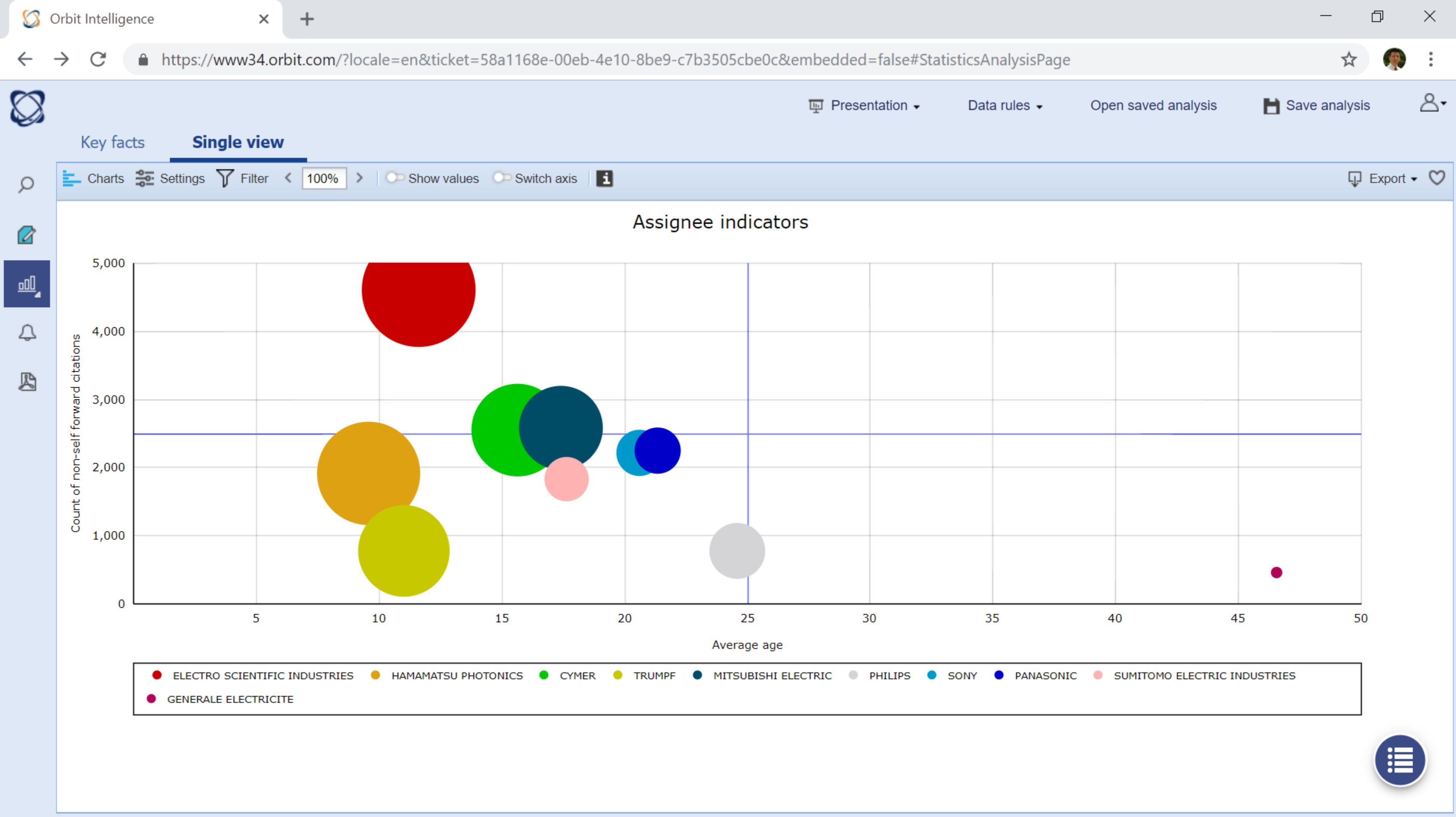
⊟	Count	Forward citations	Non-self citations
⊟	Count	Evaluation indicators	Originality

Ok Cancel

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)

indicators



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Average age
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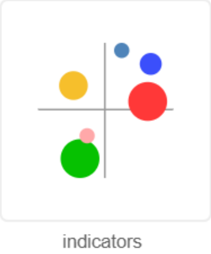
● HAMAMATSU PHOTONICS
● CYMER
● TRUMPF
● MITSUBISHI ELECTRIC
● PHILIPS
● SONY
● PANASONIC
● SUMITOMO ELECTRIC INDUSTRIES
● GENERALE ELECTRICITE

13. Ferramentas adicionais de análise e comparação de portfólio (Key invention metrics, Impact & Indicators)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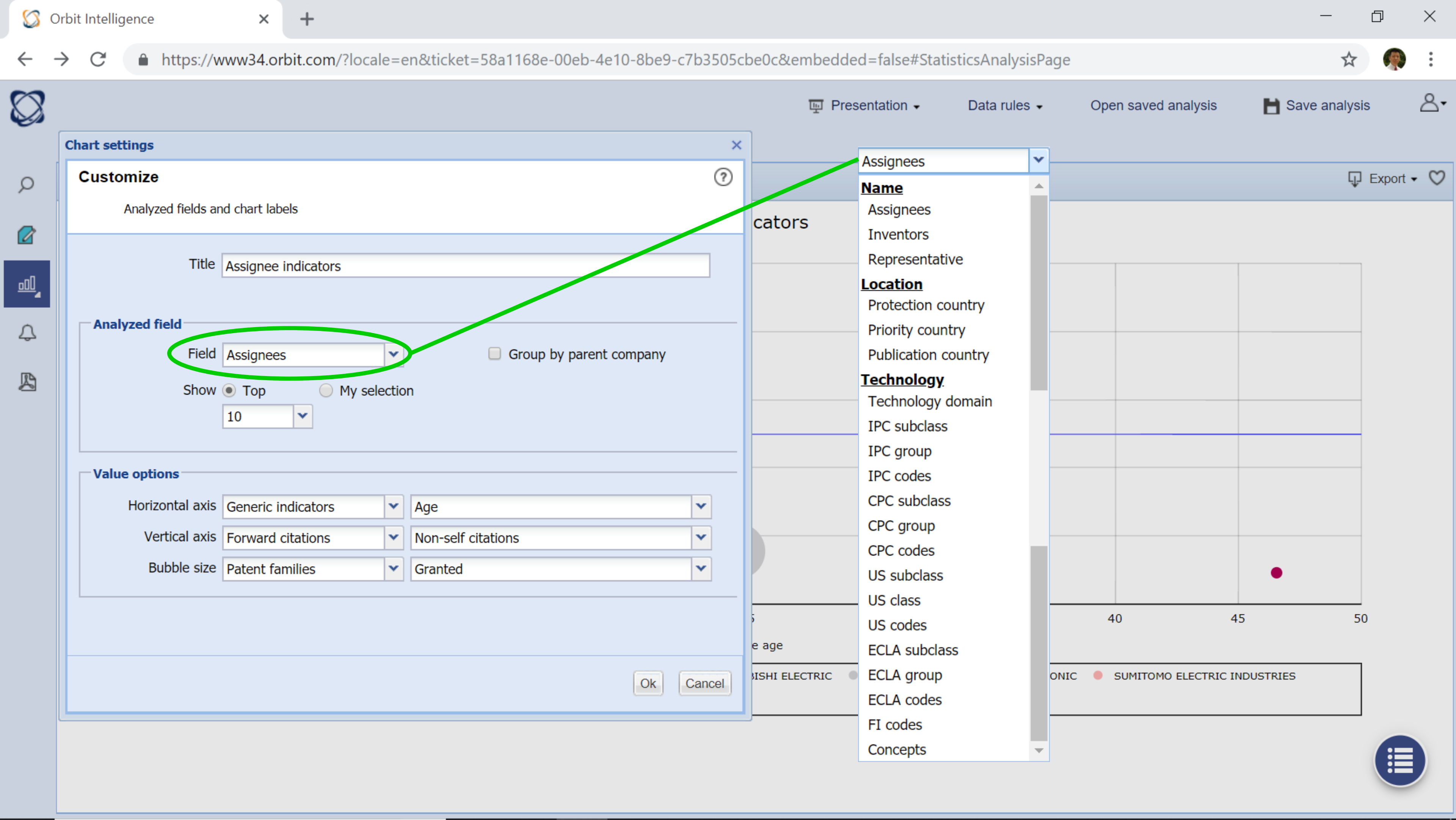

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Analyzed fields and chart labels

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Analyzed field

Field: Assignees

☐ Group by parent company

Show ● Top ○ My selection

10

Value options

Horizontal axis: Generic indicators | Age

Vertical axis: Forward citations | Non-self citations

Bubble size: Patent families | Granted

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Name
- Assignees
- Inventors
- Representative

Location
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- Priority country
- Publication country

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- Technology domain
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- IPC group
- IPC codes
- CPC subclass
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- CPC codes
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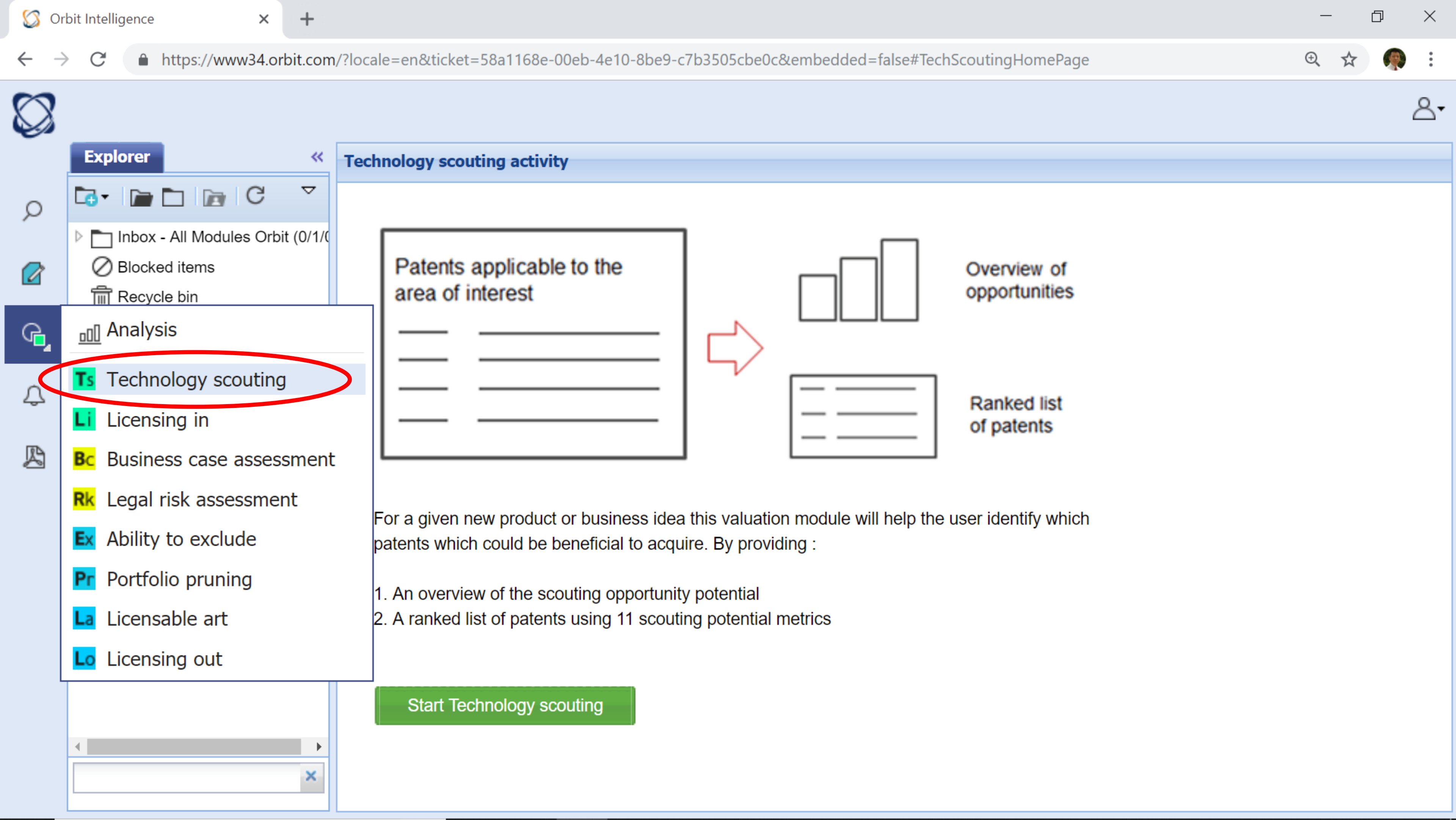
14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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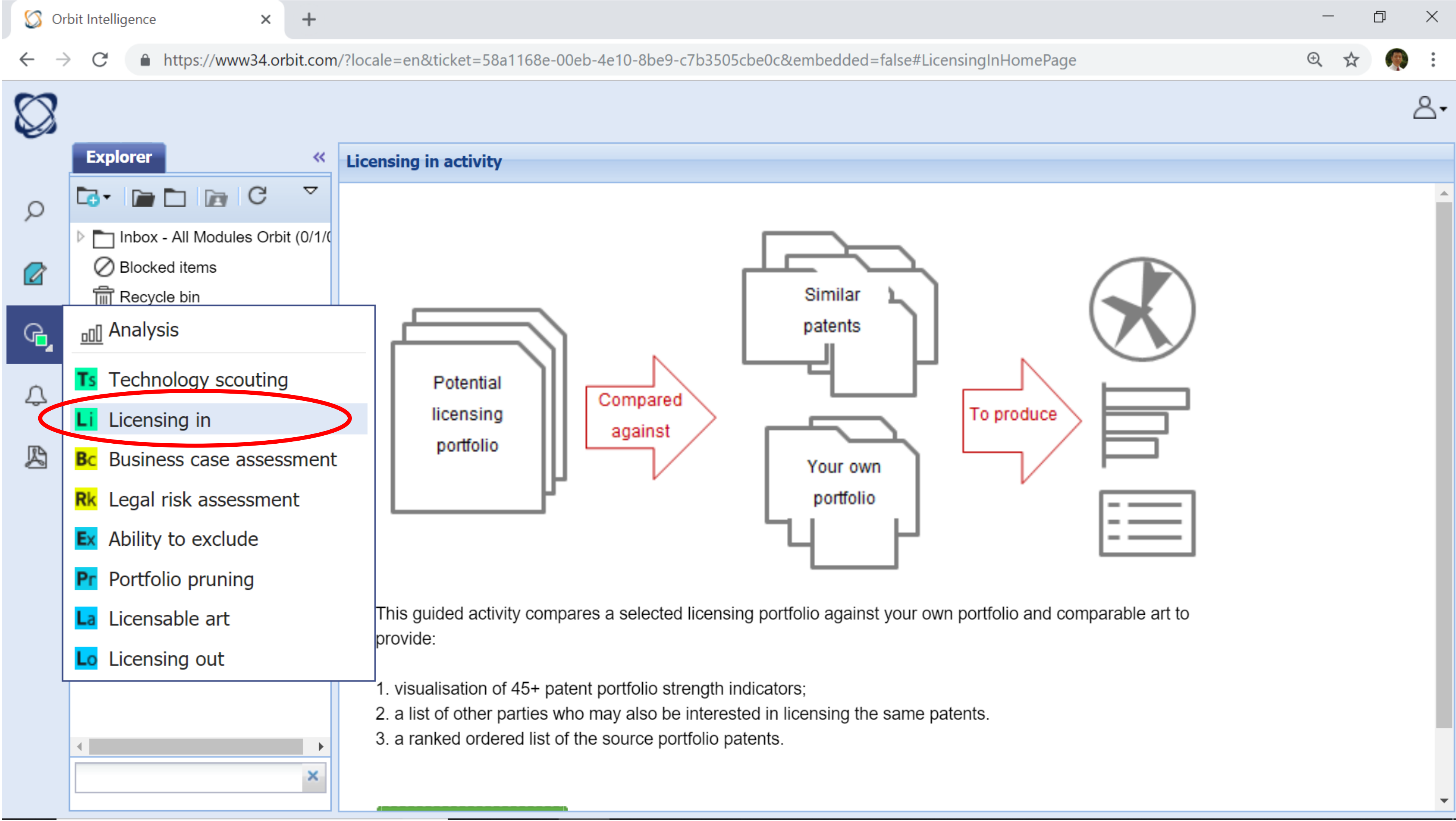
Rk Legal risk assessment
Ex Ability to exclude
Pr Portfolio pruning
La Licensable art
Lo Licensing out
Technology scouting activity
Patents applicable to the area of interest
Overview of opportunities
Ranked list of patents
Start Technology scouting

For a given new product or business idea this valuation module will help the user identify which patents which could be beneficial to acquire. By providing :

1. An overview of the scouting opportunity potential
2. A ranked list of patents using 11 scouting potential metrics

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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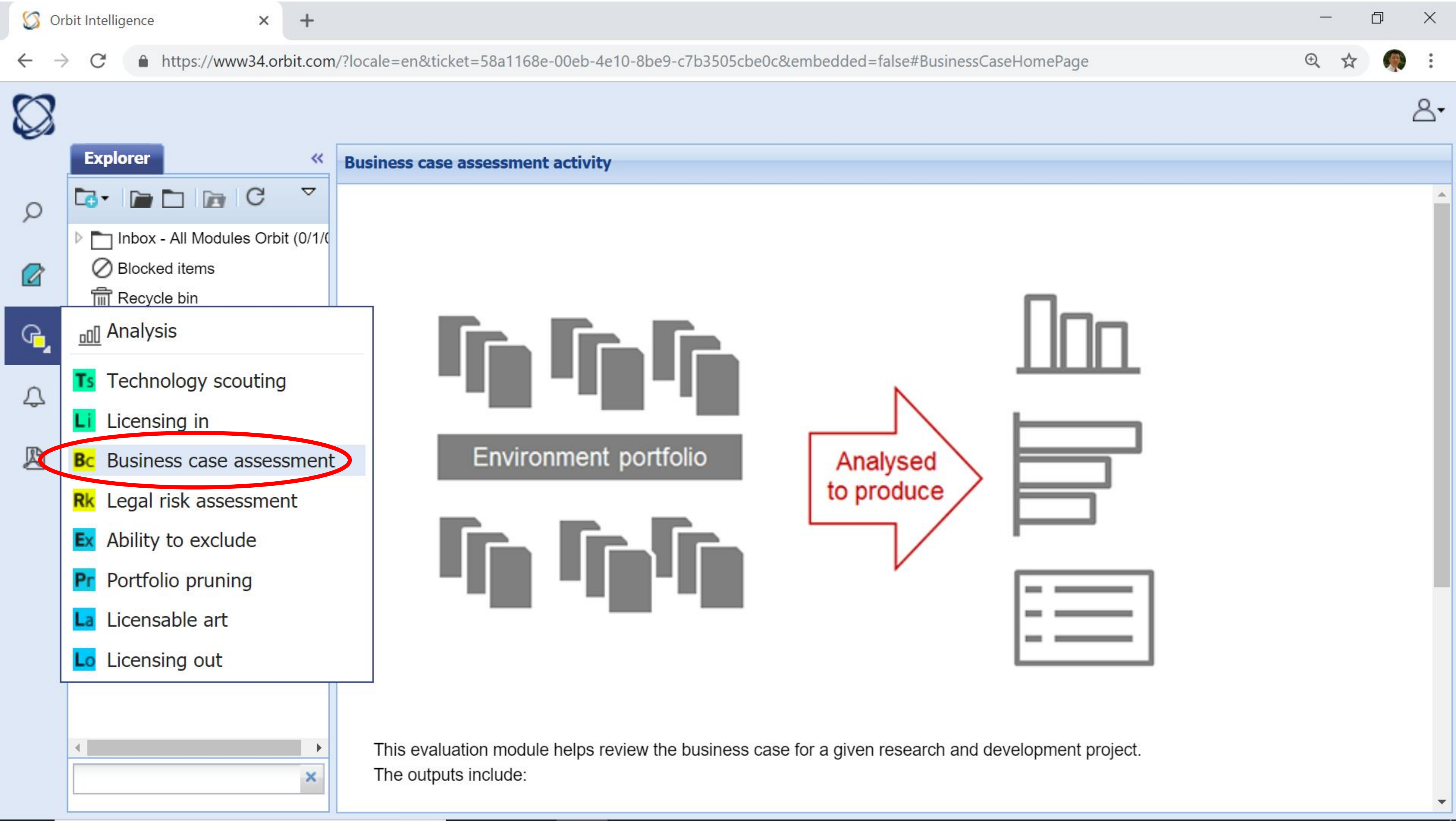
Lo Licensing out
Licensing in activity
Potential licensing portfolio
Compared against
Similar patents
Your own portfolio
To produce

This guided activity compares a selected licensing portfolio against your own portfolio and comparable art to provide:

1. visualisation of 45+ patent portfolio strength indicators;
2. a list of other parties who may also be interested in licensing the same patents.
3. a ranked ordered list of the source portfolio patents.

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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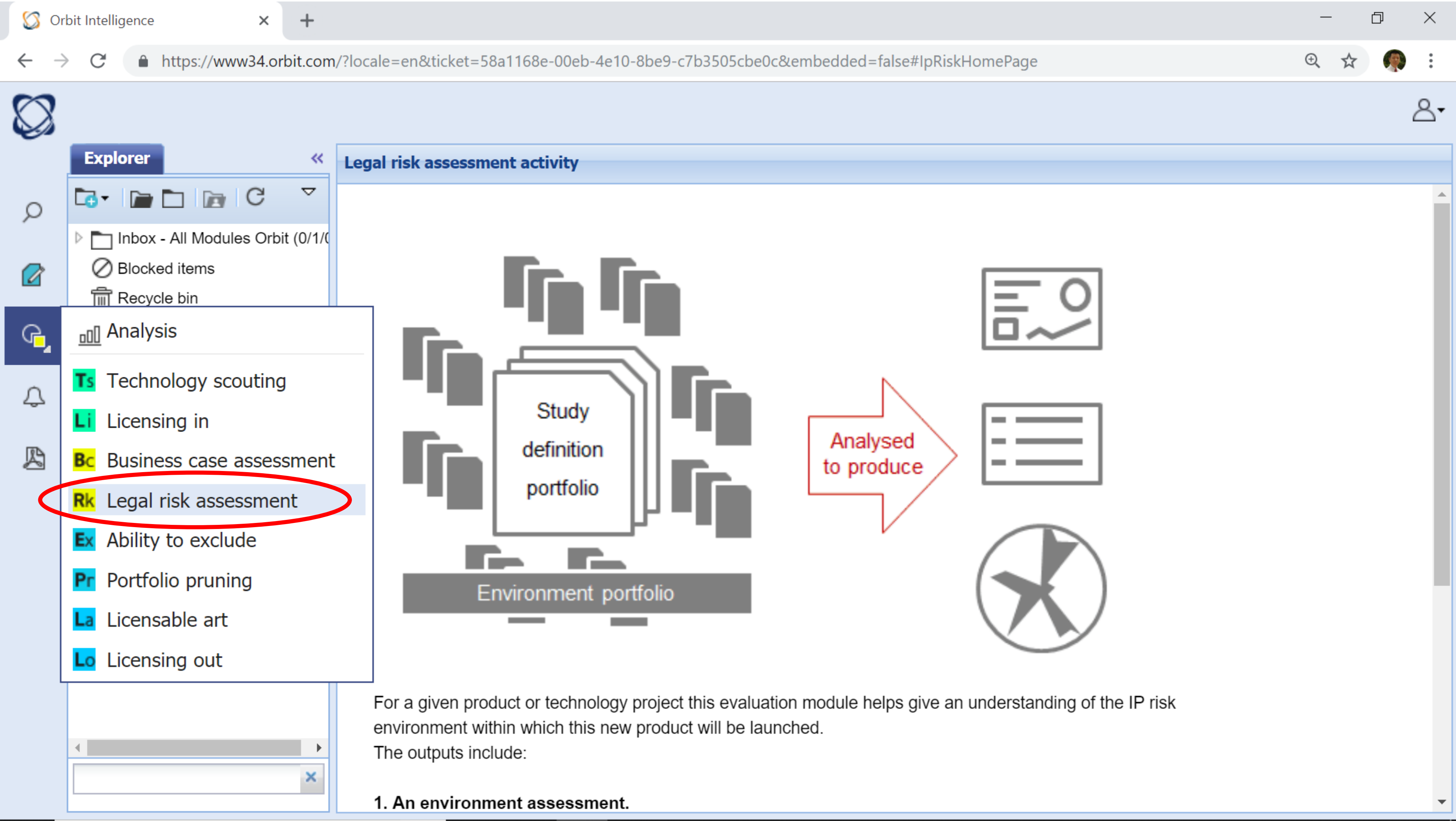
La Licensable art
Lo Licensing out
Business case assessment activity
Environment portfolio
Analysed to produce

This evaluation module helps review the business case for a given research and development project.
The outputs include:

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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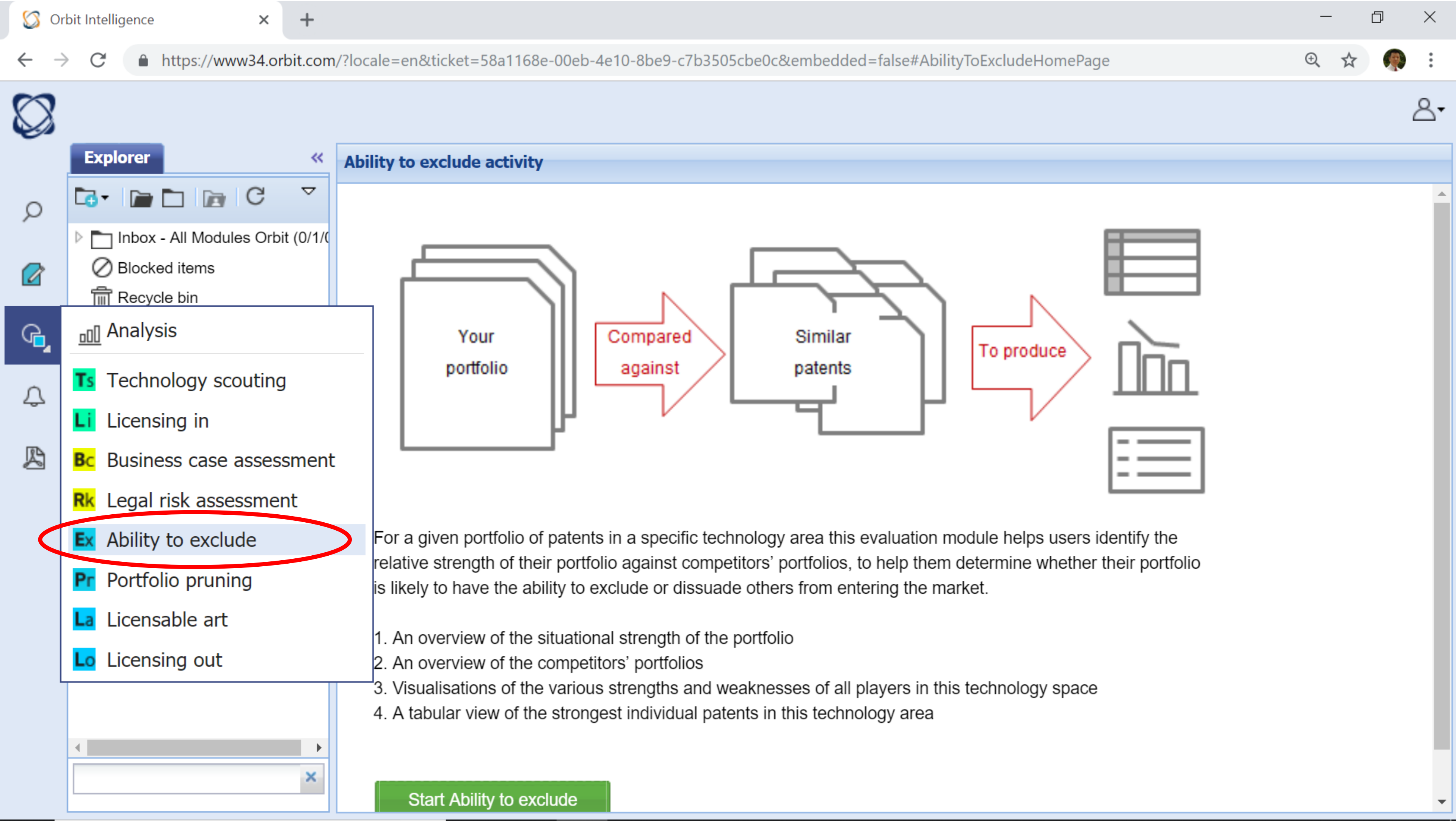
Rk Legal risk assessment
Ex Ability to exclude
Pr Portfolio pruning
La Licensable art
Lo Licensing out
Legal risk assessment activity
Study definition portfolio
Environment portfolio
Analysed to produce

For a given product or technology project this evaluation module helps give an understanding of the IP risk environment within which this new product will be launched.

The outputs include:

1. An environment assessment.

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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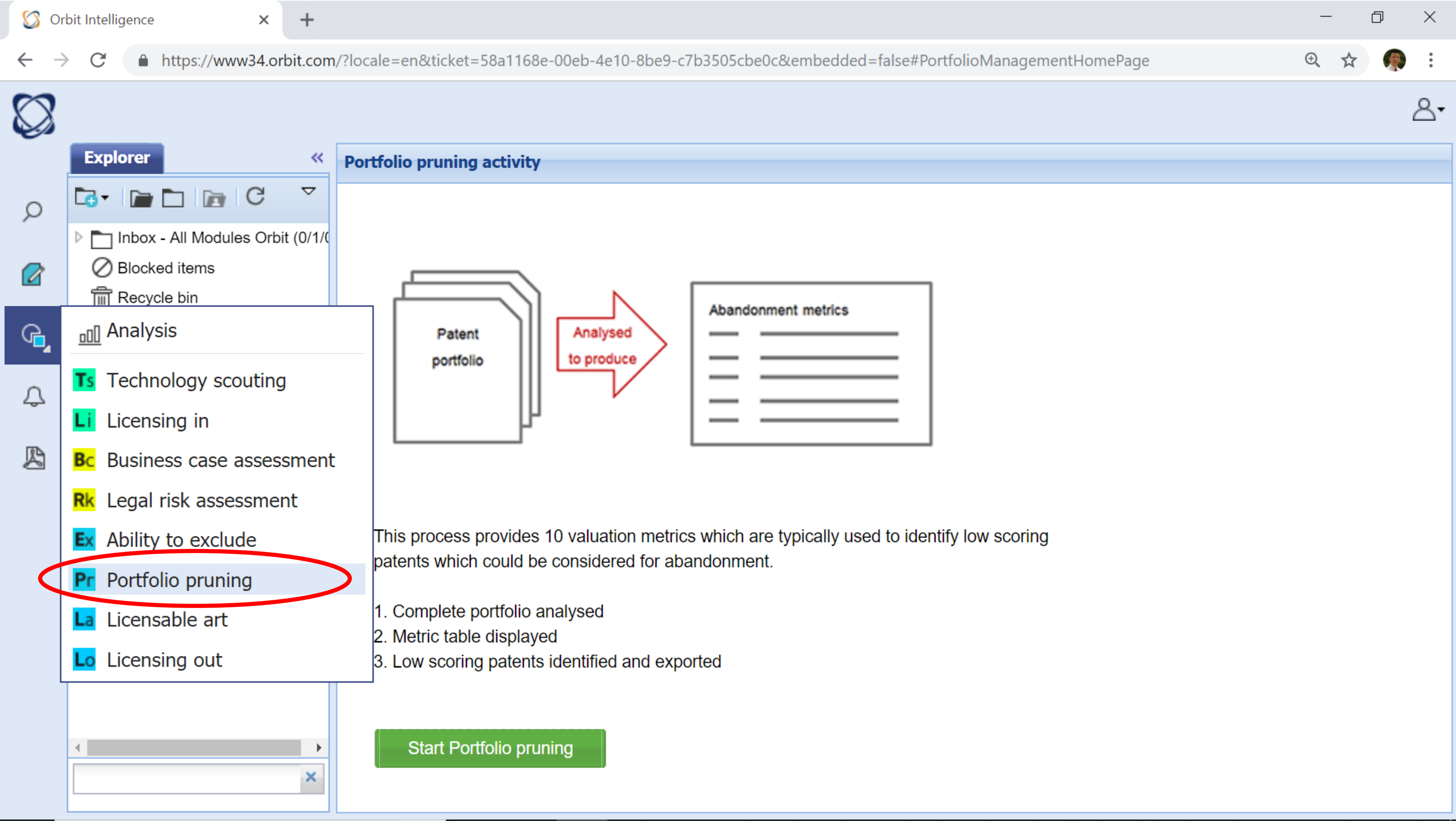
Ability to exclude activity
Your portfolio
Compared against
Similar patents
To produce
Start Ability to exclude

For a given portfolio of patents in a specific technology area this evaluation module helps users identify the relative strength of their portfolio against competitors’ portfolios, to help them determine whether their portfolio is likely to have the ability to exclude or dissuade others from entering the market.

1. An overview of the situational strength of the portfolio
2. An overview of the competitors’ portfolios
3. Visualisations of the various strengths and weaknesses of all players in this technology space
4. A tabular view of the strongest individual patents in this technology area

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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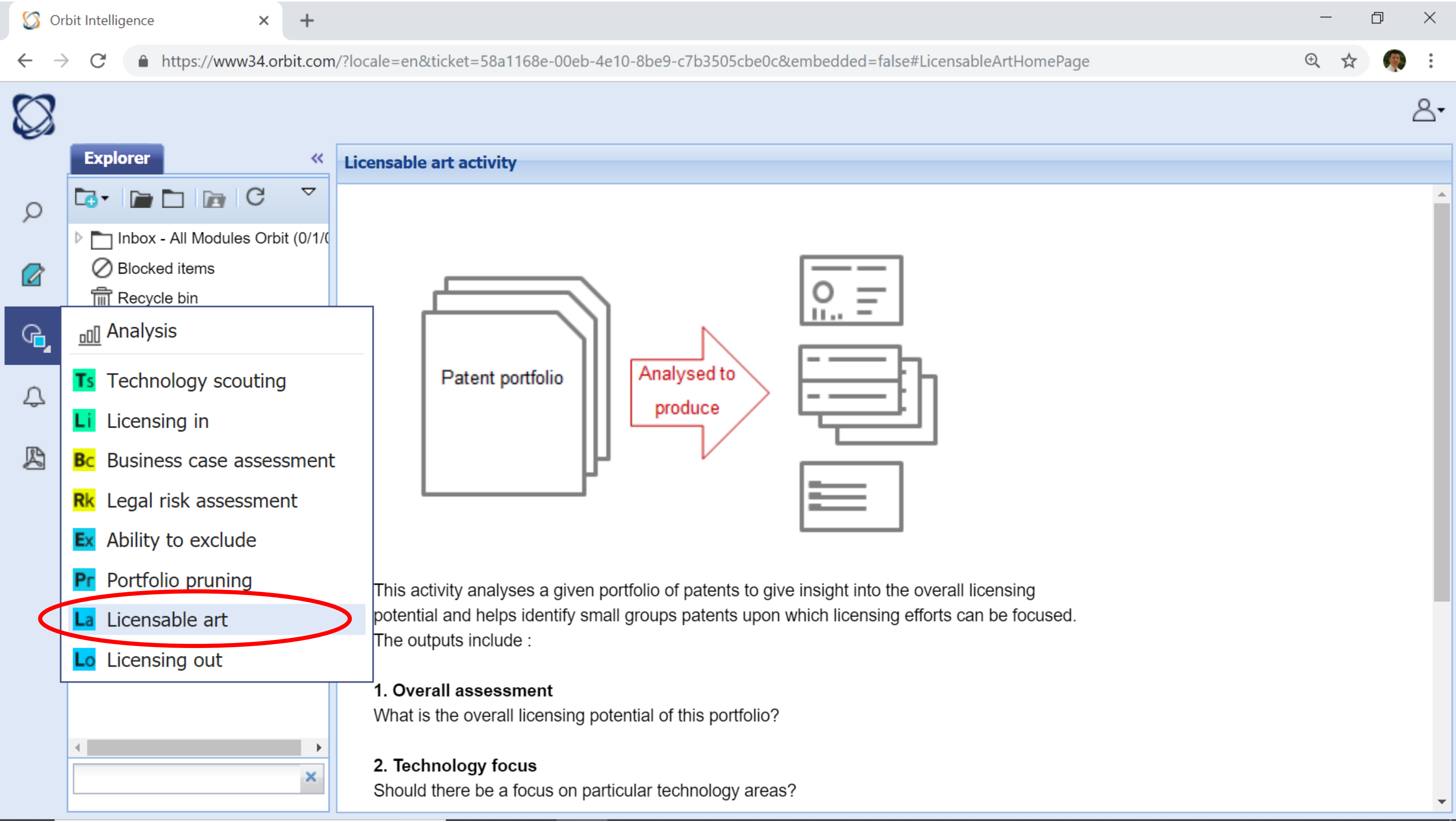
Ex Ability to exclude
Pr Portfolio pruning
La Licensable art
Lo Licensing out
Patent portfolio
Analysed to produce
Abandonment metrics
Start Portfolio pruning

Portfolio pruning activity

This process provides 10 valuation metrics which are typically used to identify low scoring patents which could be considered for abandonment.

1. Complete portfolio analysed
2. Metric table displayed
3. Low scoring patents identified and exported

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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Li Licensing in
Bc Business case assessment
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Ex Ability to exclude
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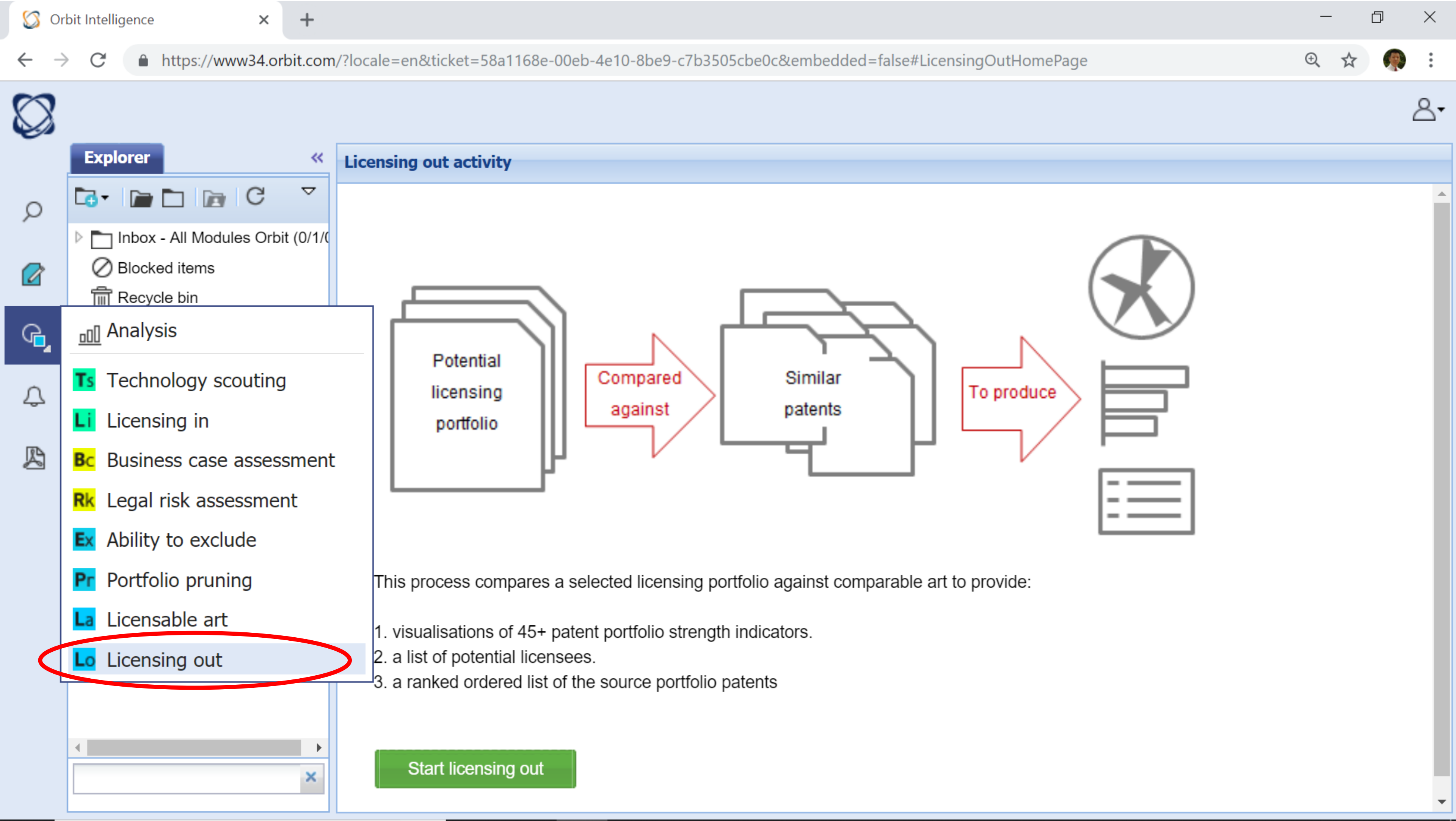
La Licensable art
Lo Licensing out
Licensable art activity
Patent portfolio
Analysed to produce

This activity analyses a given portfolio of patents to give insight into the overall licensing potential and helps identify small groups patents upon which licensing efforts can be focused.
The outputs include :

1. Overall assessment
What is the overall licensing potential of this portfolio?

2. Technology focus
Should there be a focus on particular technology areas?

14. Ferramentas adicionais de “Guided Activities” (Licensing in, Licensing out, Technology Scouting, Portfolio pruning, etc)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Licensing out activity
Potential licensing portfolio
Compared against
Similar patents
To produce
Start licensing out

This process compares a selected licensing portfolio against comparable art to provide:

1. visualisations of 45+ patent portfolio strength indicators.
2. a list of potential licensees.
3. a ranked ordered list of the source portfolio patents

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Guias e Tutoriais

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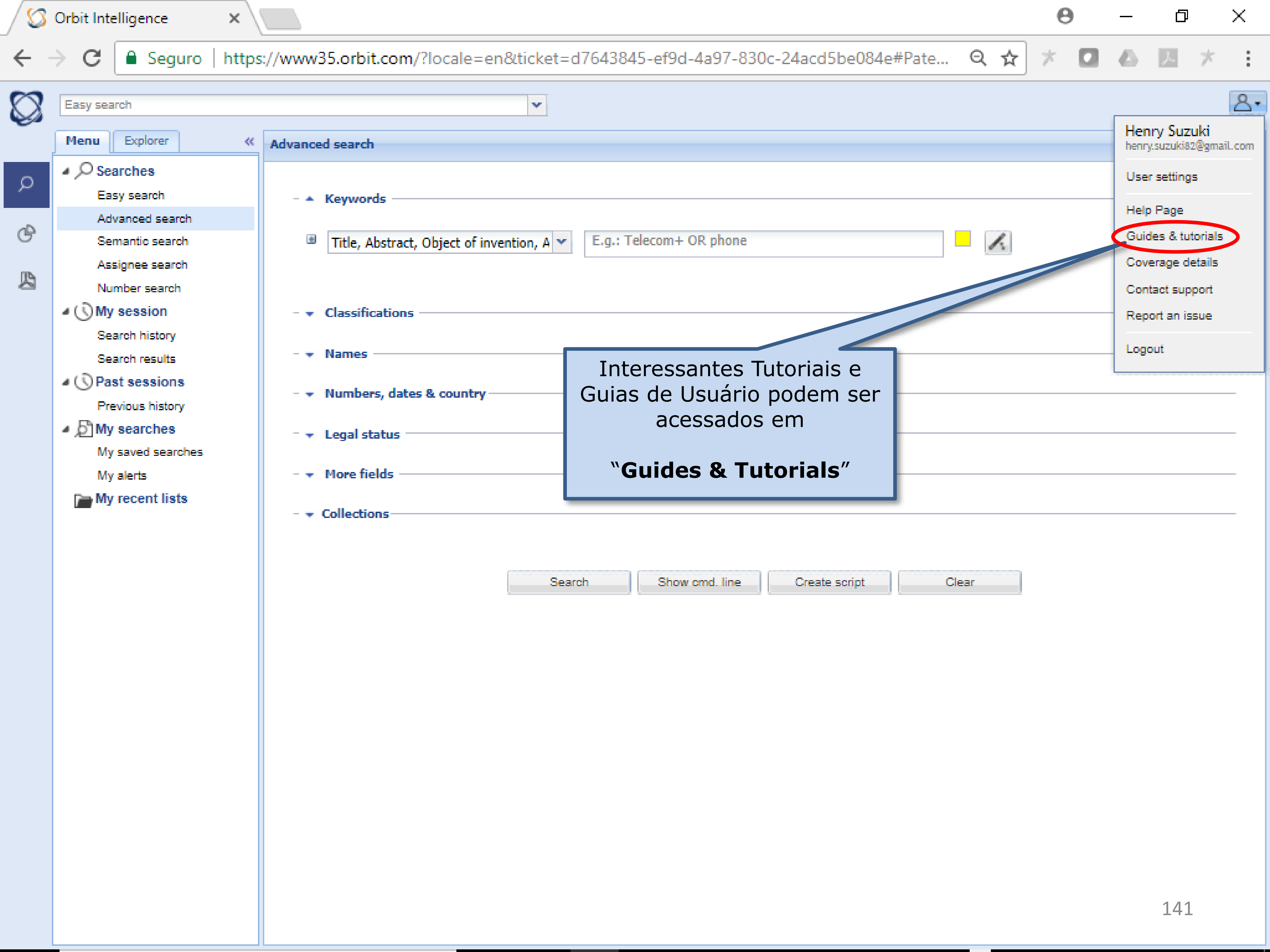
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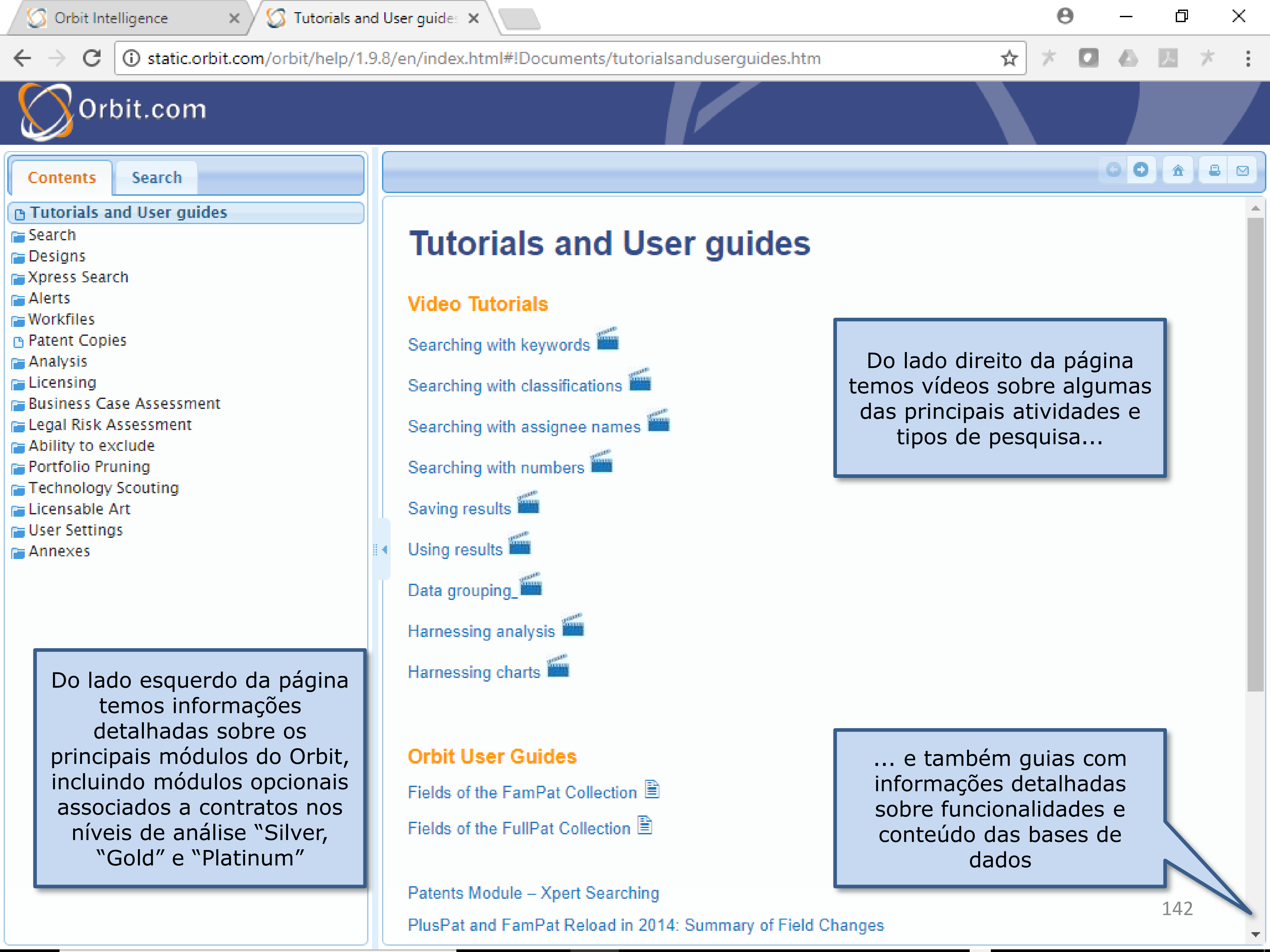
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Video Tutorials

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- Searching with classifications
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Orbit User Guides

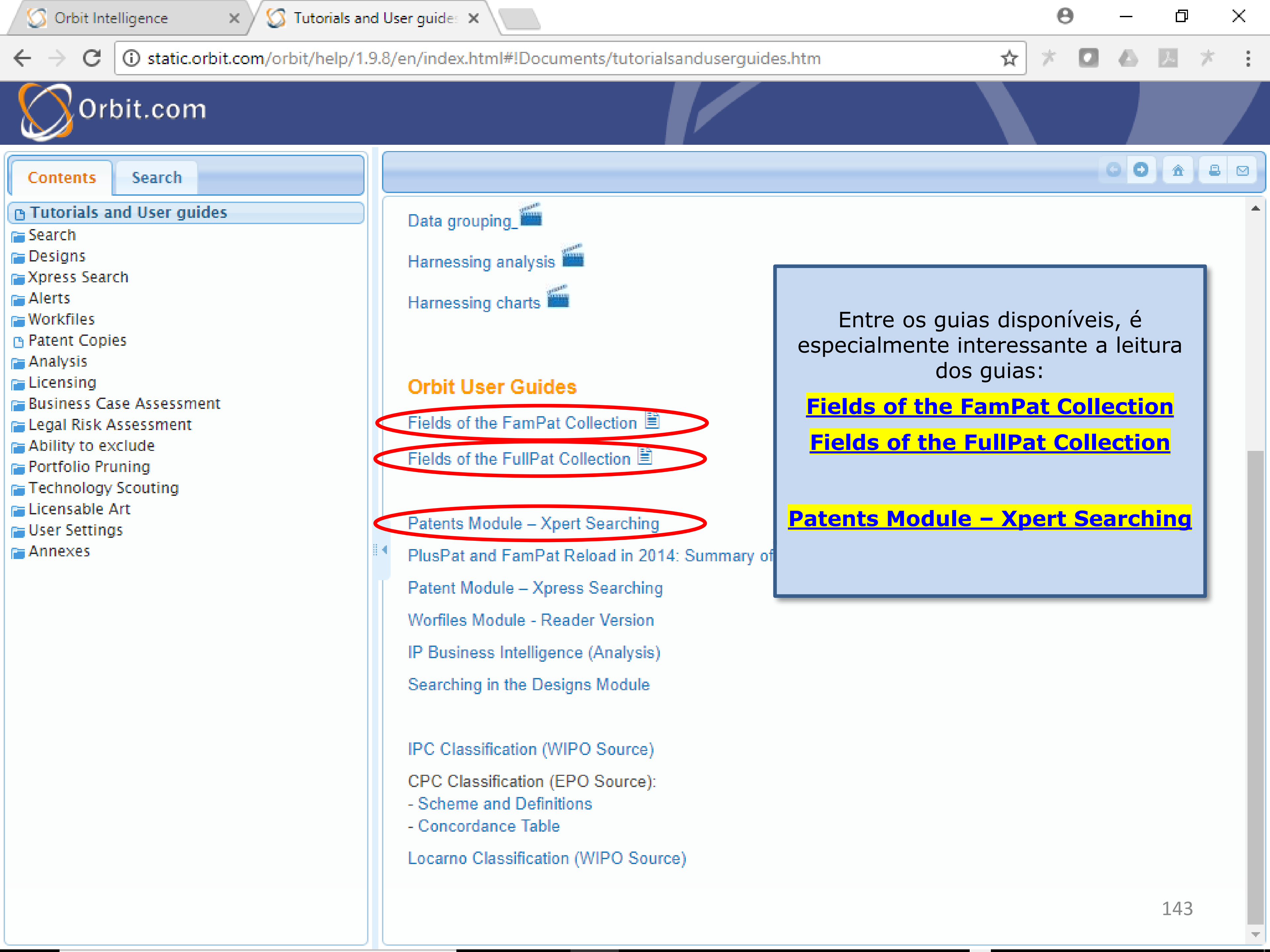
- Fields of the FamPat Collection
- Fields of the FullPat Collection

- Patents Module – Xpert Searching
- PlusPat and FamPat Reload in 2014: Summary of Field Changes

Do lado direito da página temos vídeos sobre algumas das principais atividades e tipos de pesquisa...

Do lado esquerdo da página temos informações detalhadas sobre os principais módulos do Orbit, incluindo módulos opcionais associados a contratos nos níveis de análise “Silver, “Gold” e “Platinum”

... e também guias com informações detalhadas sobre funcionalidades e conteúdo das bases de dados



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Orbit User Guides

Fields of the FamPat Collection

Fields of the FullPat Collection

Patents Module – Xpert Searching

PlusPat and FamPat Reload in 2014: Summary of

Patent Module – Xpress Searching

Worfiles Module - Reader Version

IP Business Intelligence (Analysis)

Searching in the Designs Module

IPC Classification (WIPO Source)

CPC Classification (EPO Source):
- Scheme and Definitions
- Concordance Table

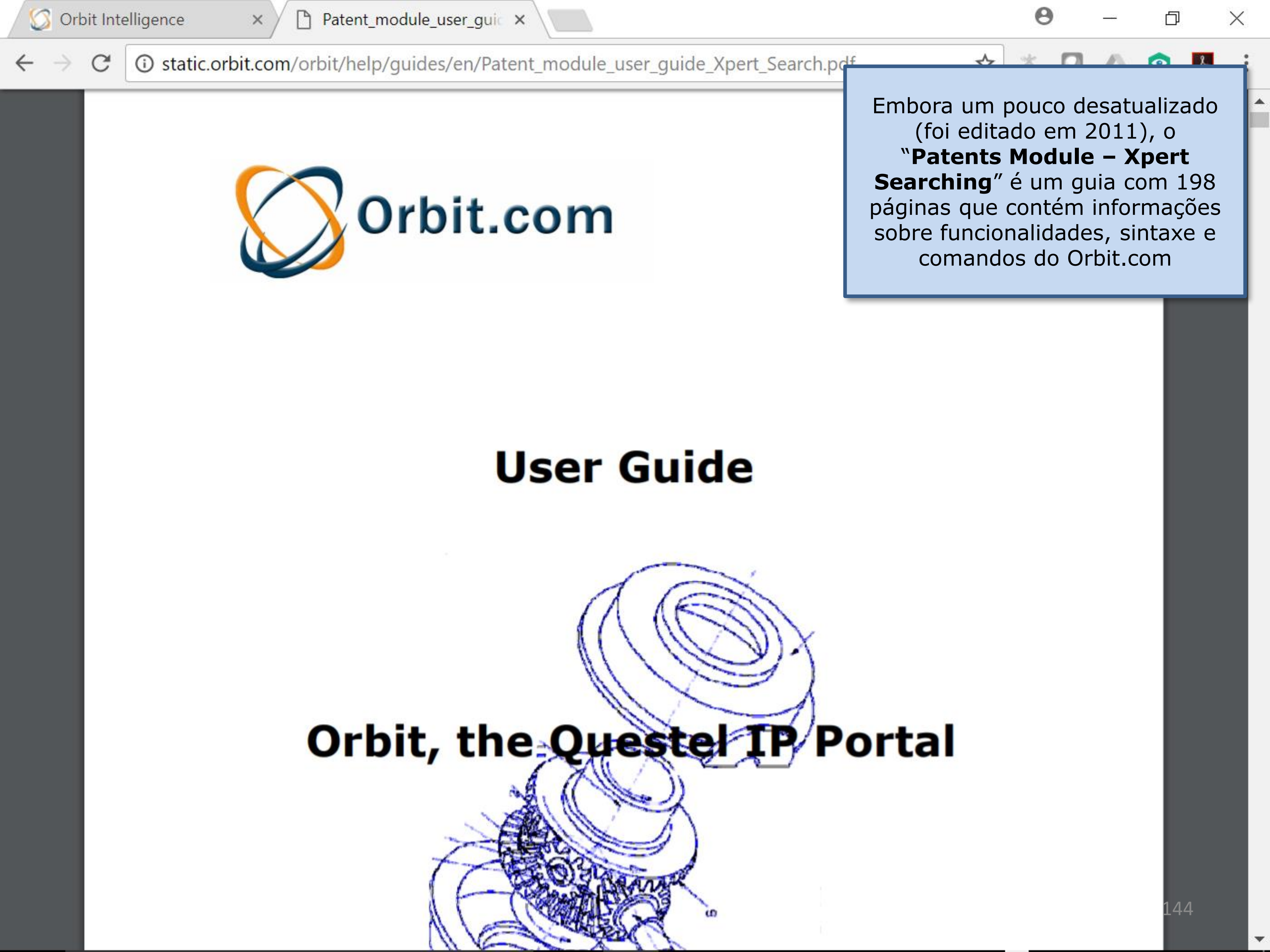
Locarno Classification (WIPO Source)

Entre os guias disponíveis, é especialmente interessante a leitura dos guias:

Fields of the FamPat Collection

Fields of the FullPat Collection

Patents Module – Xpert Searching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User Guide

Orbit, the Questel IP Portal

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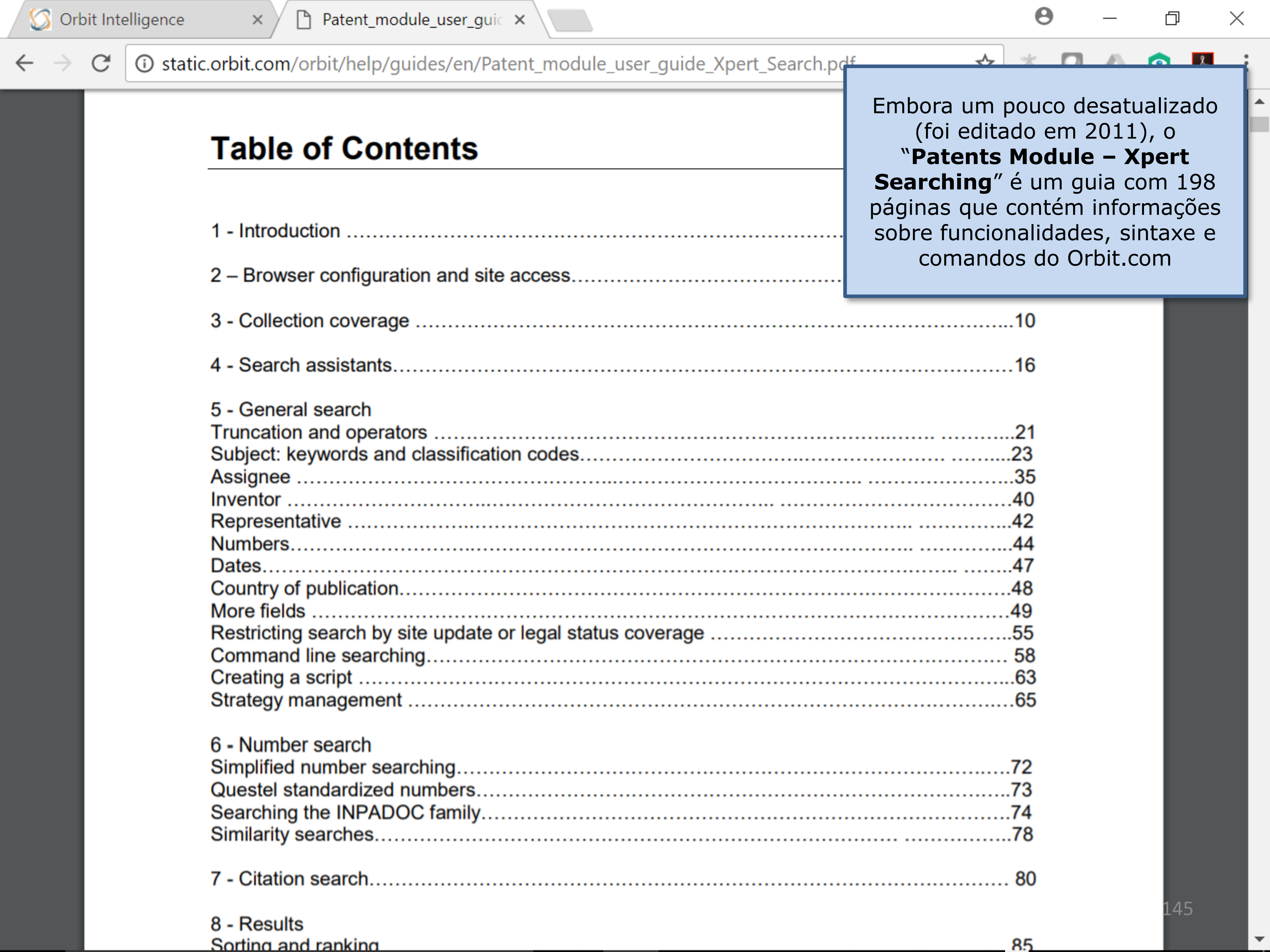
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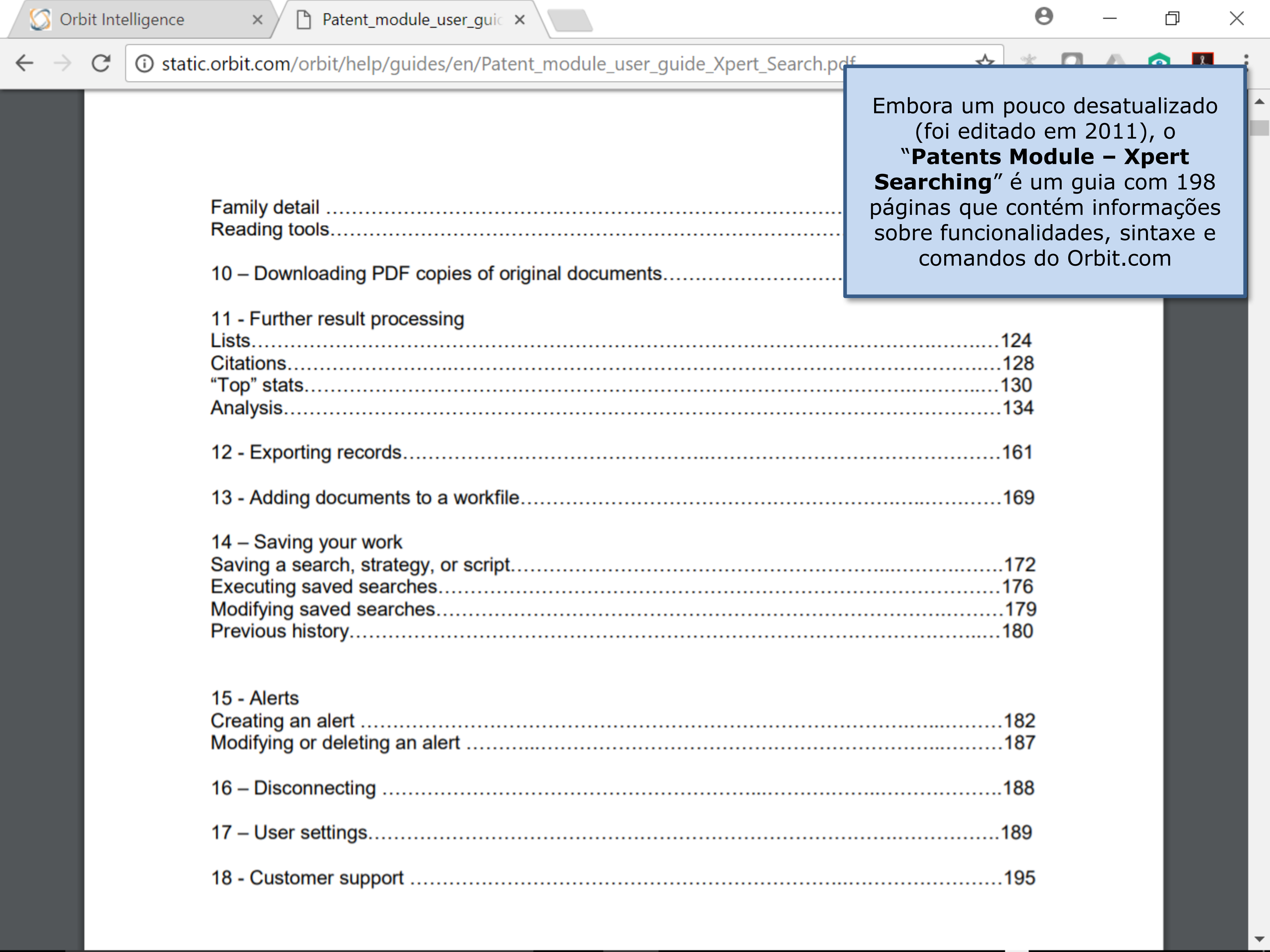
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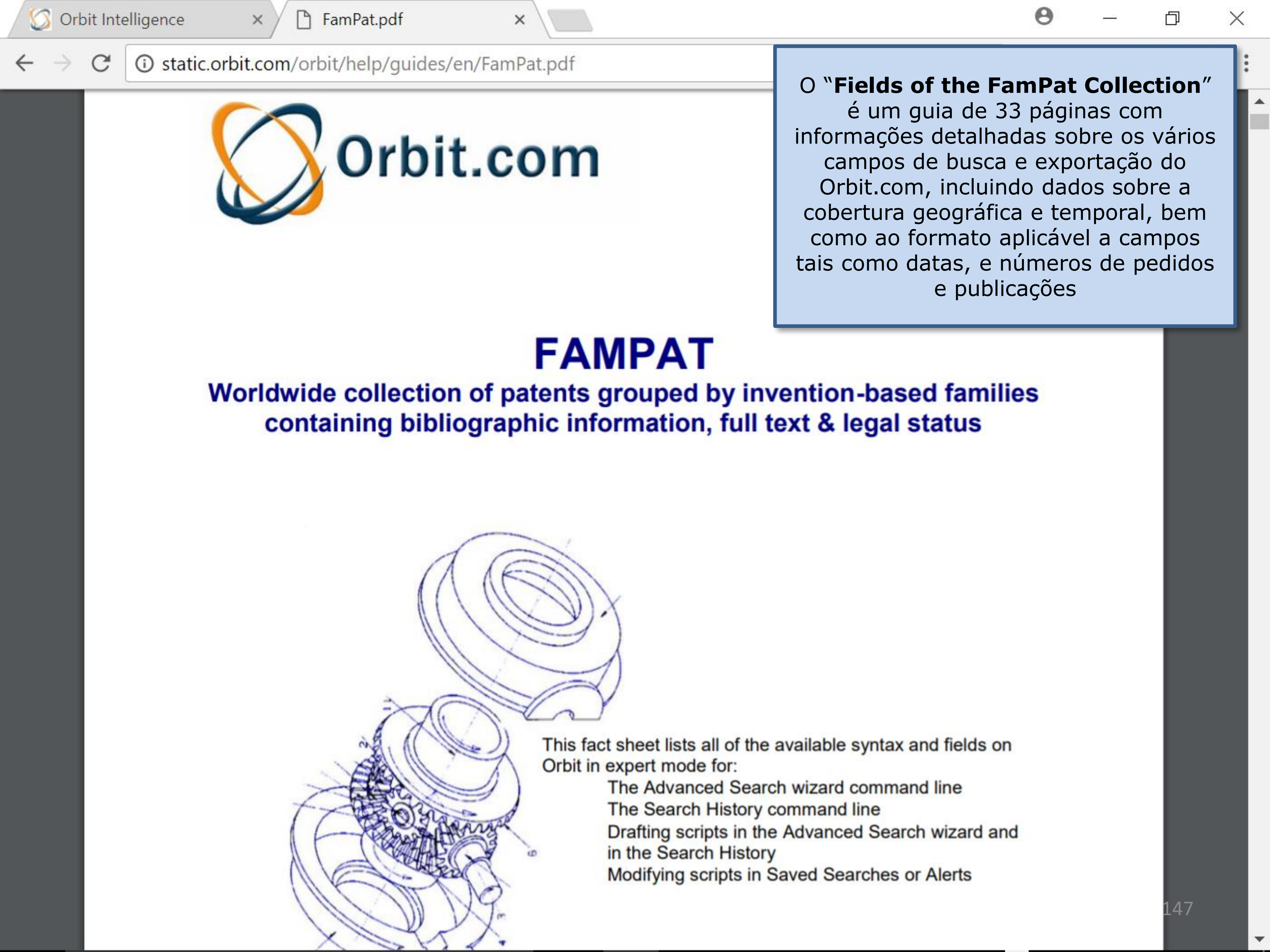
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Worldwide collection of patents grouped by invention-based families containing bibliographic information, full text & legal status

This fact sheet lists all of the available syntax and fields on Orbit in expert mode for:

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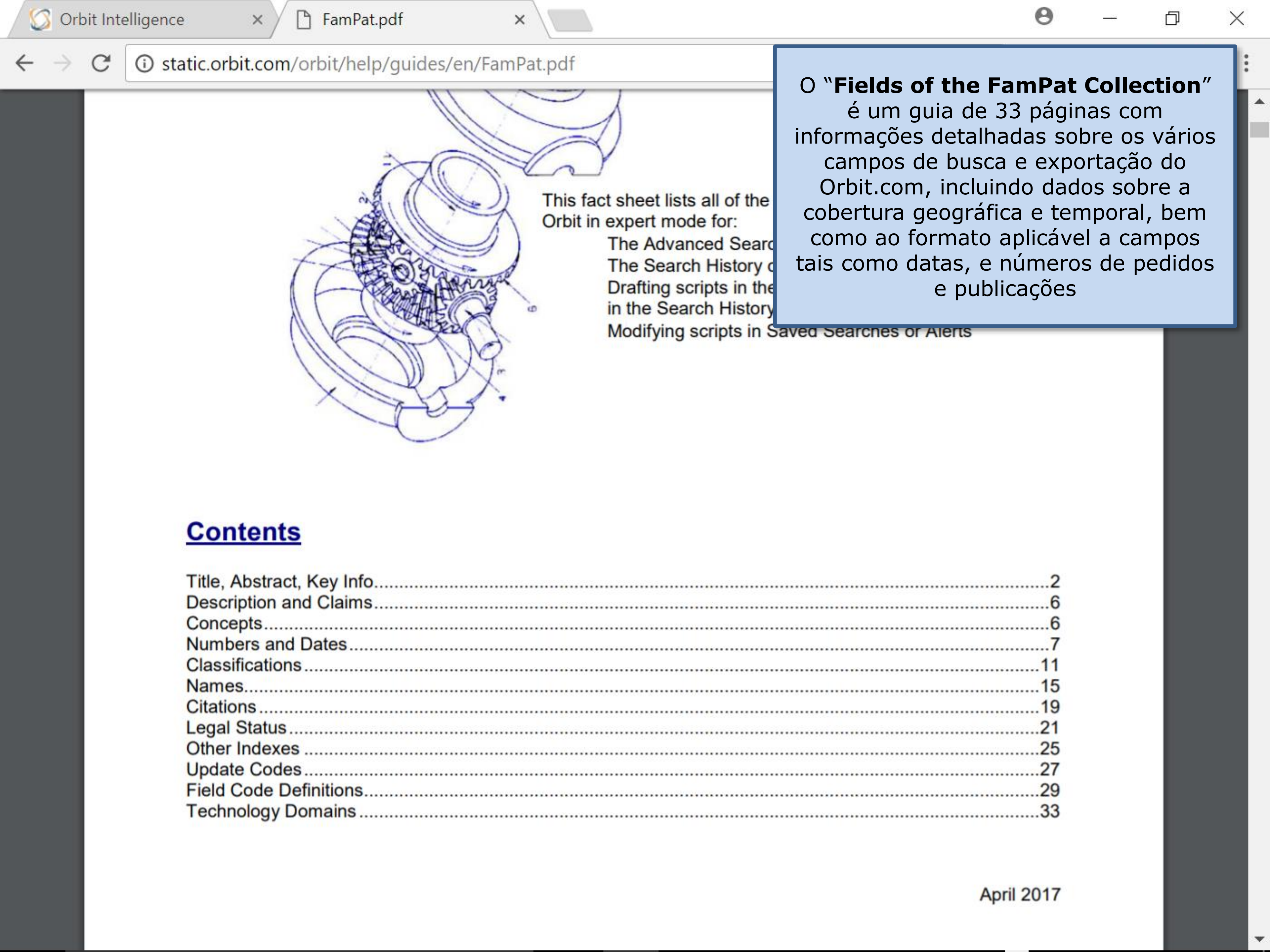

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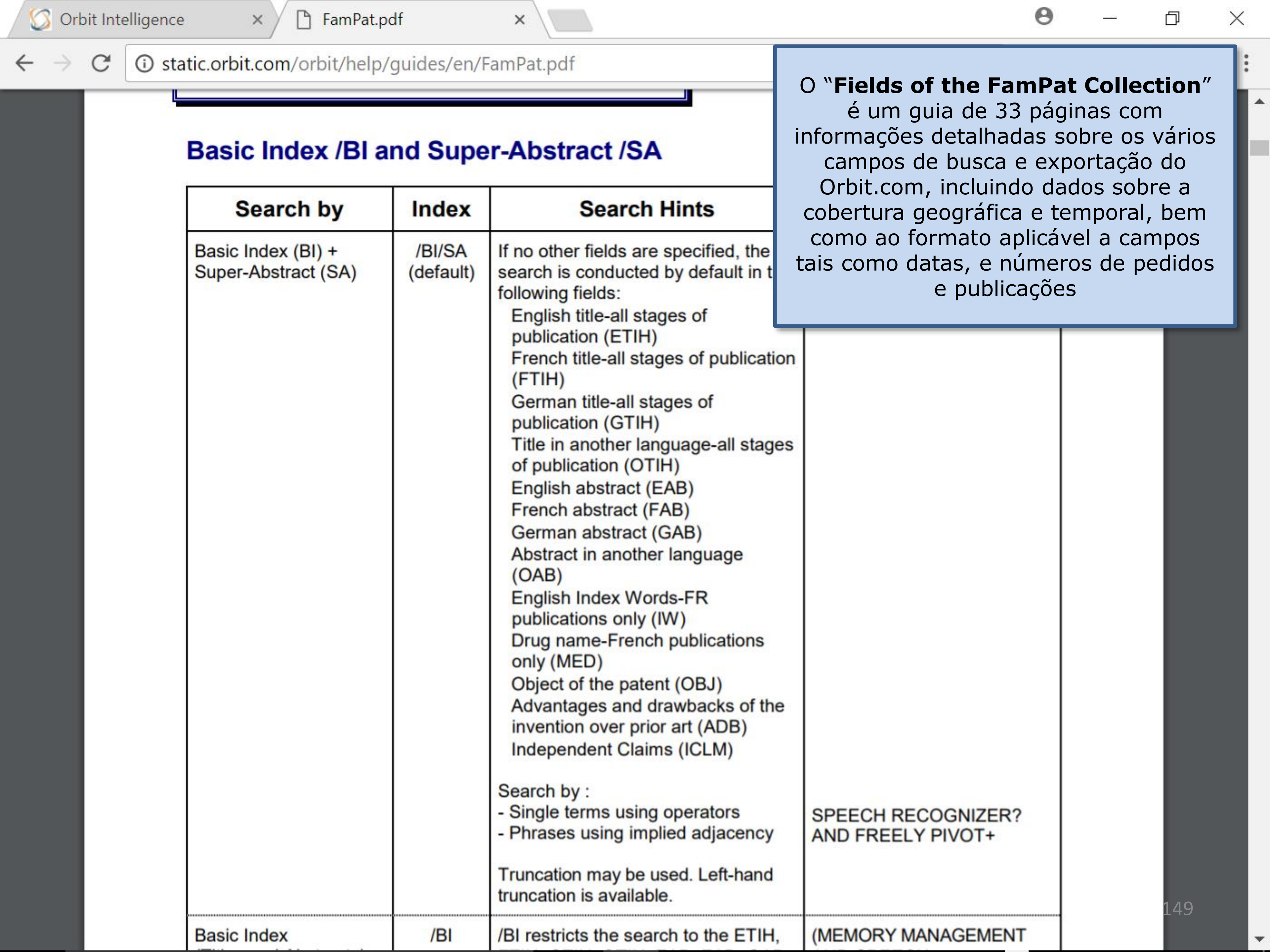

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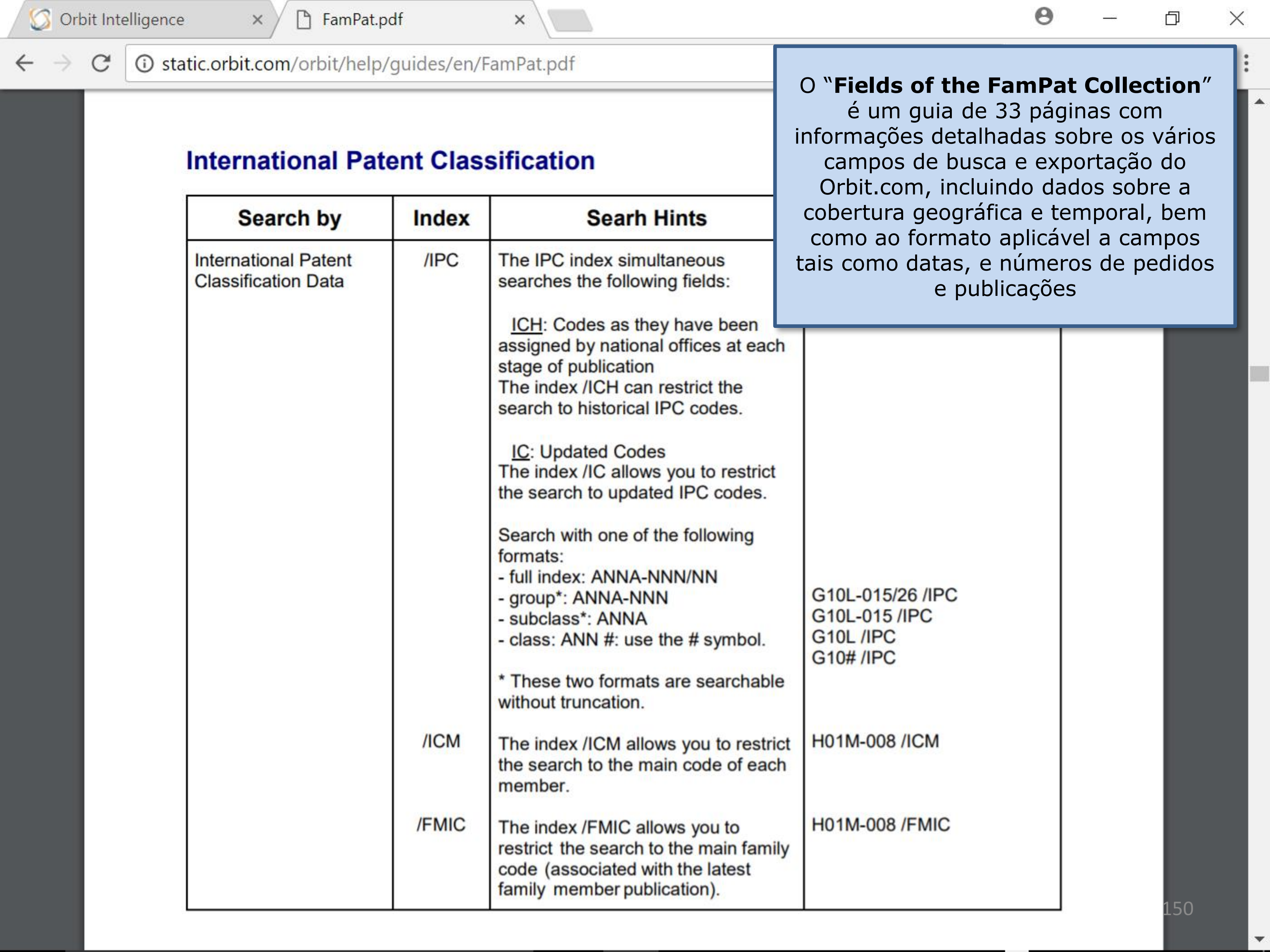

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Search by	Index	Searh Hints	
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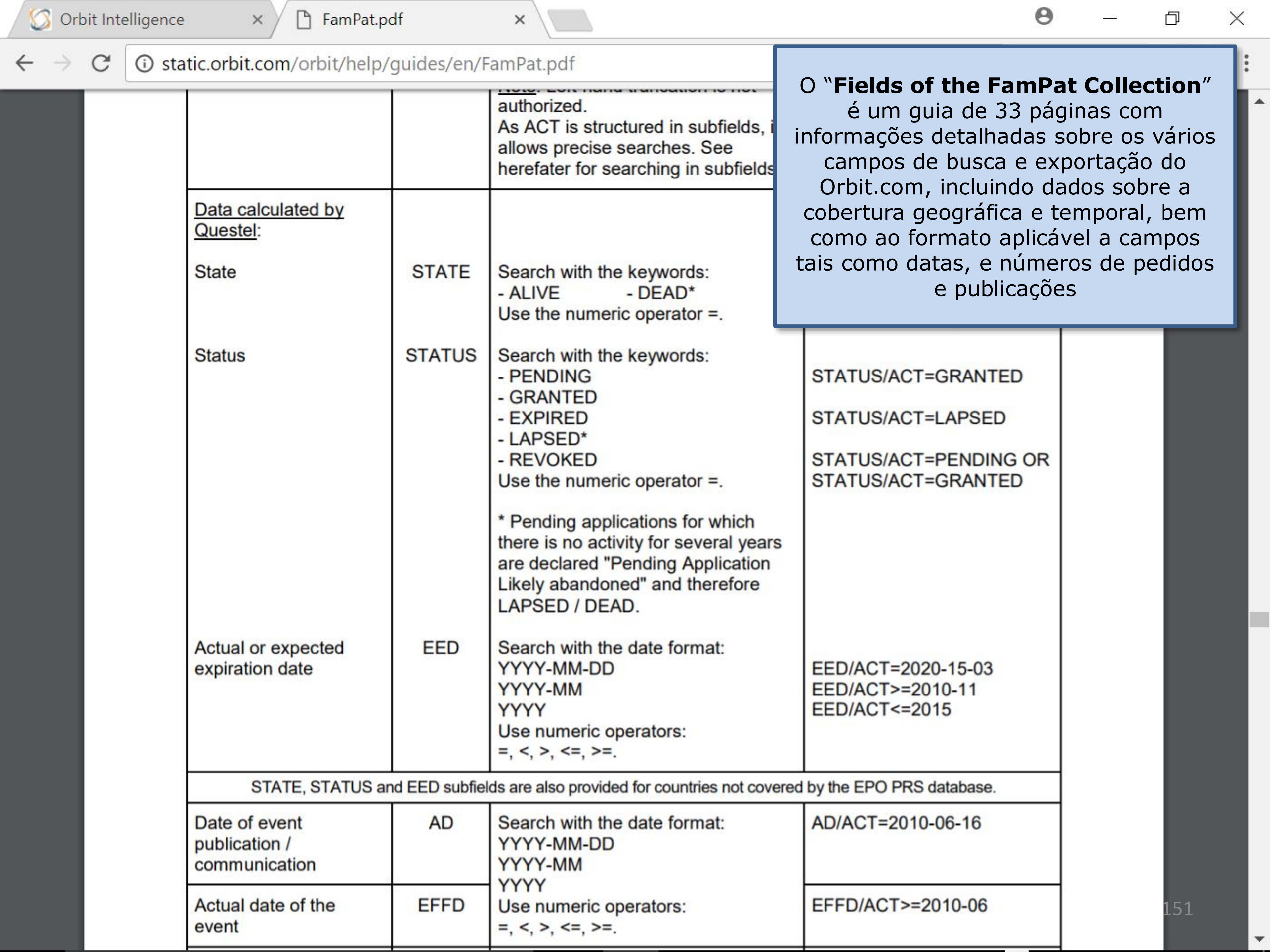

		authorized. As ACT is structured in subfields, i allows precise searches. See herefater for searching in subfields	
Data calculated by Questel:			
State	STATE	Search with the keywords: - ALIVE - DEAD* Use the numeric operator =.	
Status	STATUS	Search with the keywords: - PENDING - GRANTED - EXPIRED - LAPSED* - REVOKED Use the numeric operator =. * Pending applications for which there is no activity for several years are declared "Pending Application Likely abandoned" and therefore LAPSED / DEAD.	STATUS/ACT=GRANTED STATUS/ACT=LAPSED STATUS/ACT=PENDING OR STATUS/ACT=GRANTED
Actual or expected expiration date	EED	Search with the date format: YYYY-MM-DD YYYY-MM YYYY Use numeric operators: =, <, >, <=, >=.	EED/ACT=2020-15-03 EED/ACT>=2010-11 EED/ACT<=2015
STATE, STATUS and EED subfields are also provided for countries not covered by the EPO PRS database.			
Date of event publication / communication	AD	Search with the date format: YYYY-MM-DD YYYY-MM YYYY Use numeric operators: =, <, >, <=, >=.	AD/ACT=2010-06-16
Actual date of the event	EFFD		EFFD/ACT>=2010-06

O “**Fields of the FamPat Collection**” é um guia de 33 páginas com informações detalhadas sobre os vários campos de busca e exportação do Orbit.com, incluindo dados sobre a cobertura geográfica e temporal, bem como ao formato aplicável a campos tais como datas, e números de pedidos e publicações

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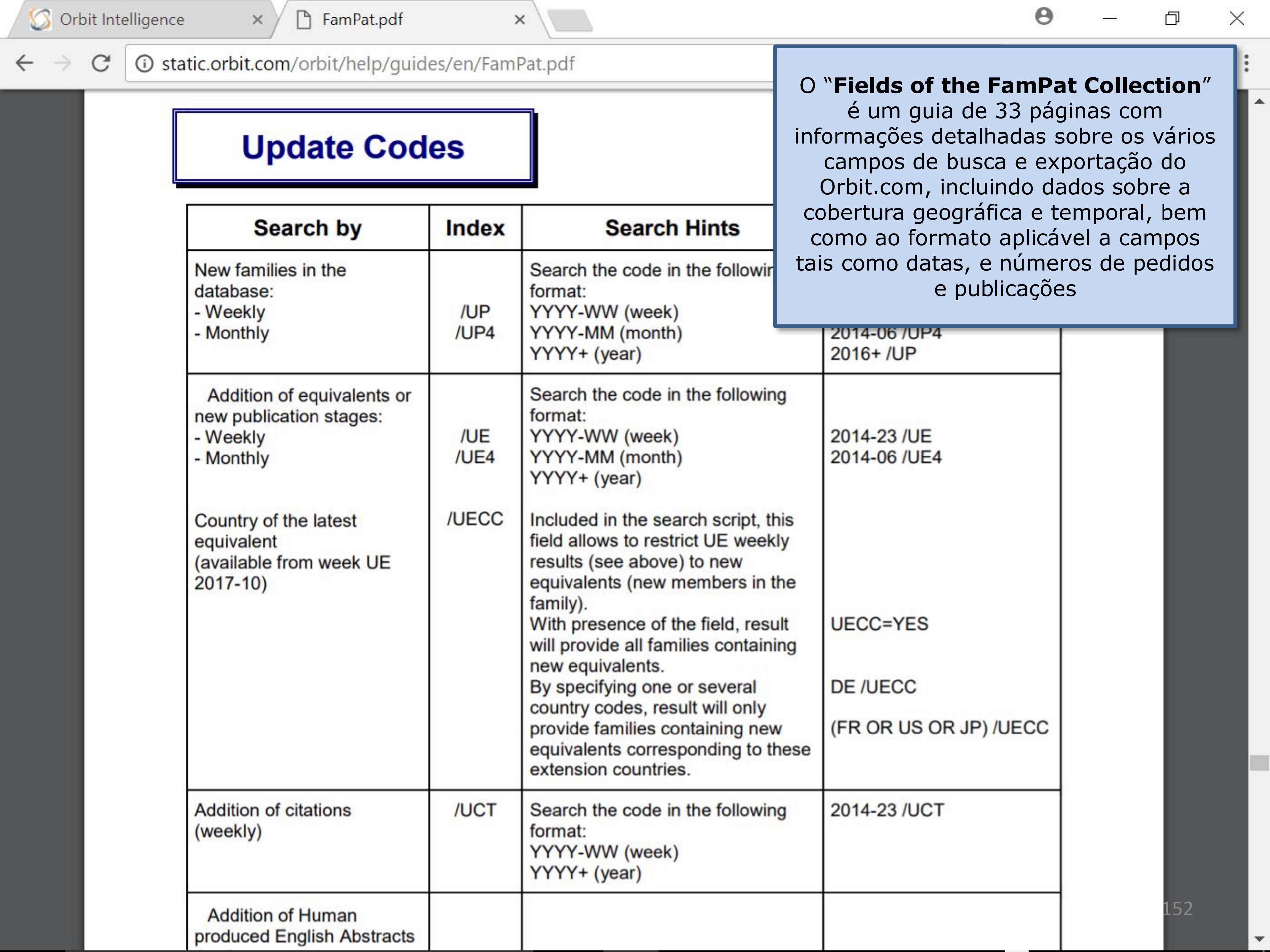
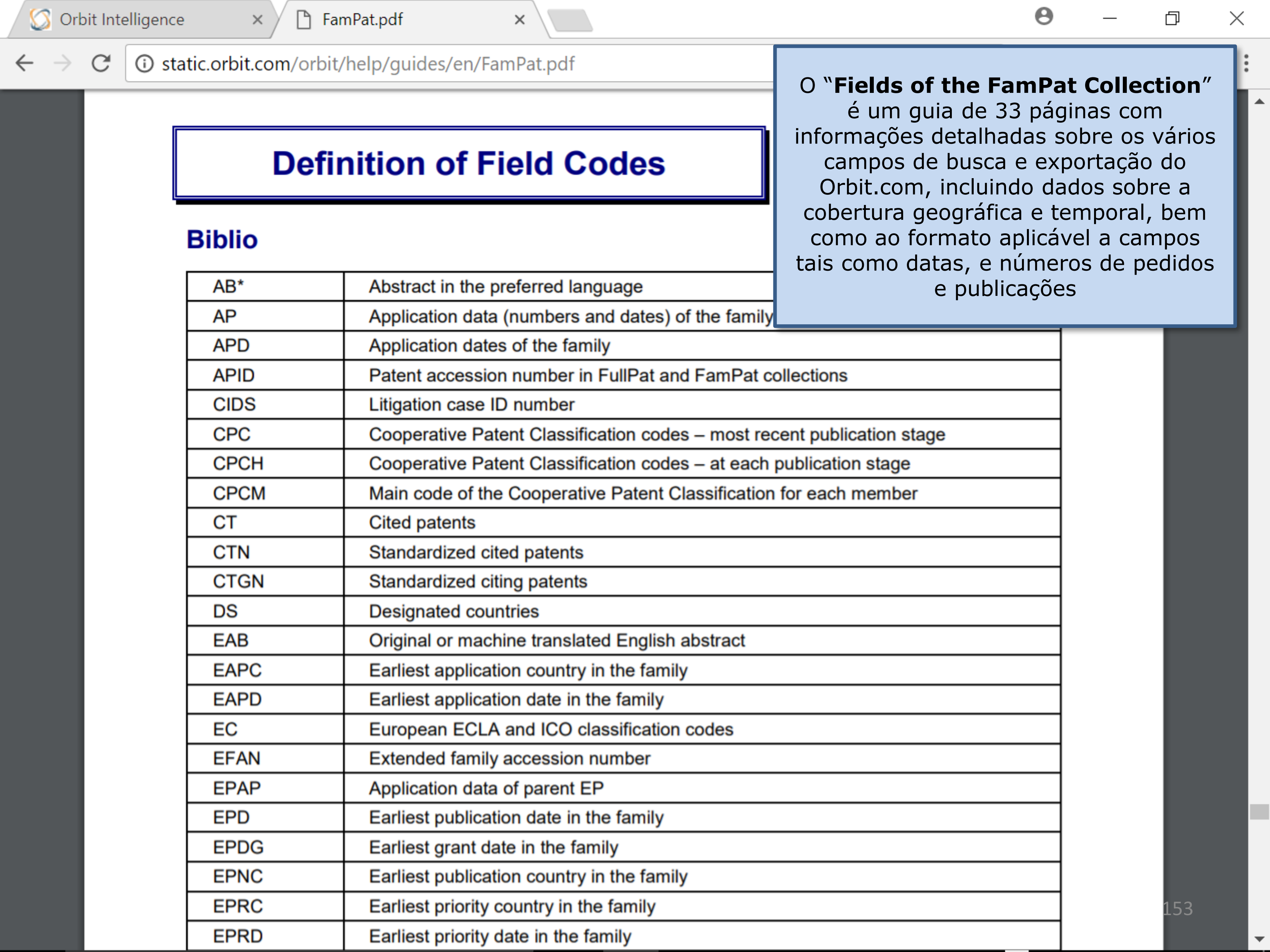


Update Codes

Search by	Index	Search Hints	
New families in the database: - Weekly - Monthly	/UP /UP4	Search the code in the followin format: YYYY-WW (week) YYYY-MM (month) YYYY+ (year)	2014-06 /UP4 2016+ /UP
Addition of equivalents or new publication stages: - Weekly - Monthly	/UE /UE4	Search the code in the following format: YYYY-WW (week) YYYY-MM (month) YYYY+ (year)	2014-23 /UE 2014-06 /UE4
Country of the latest equivalent (available from week UE 2017-10)	/UECC	Included in the search script, this field allows to restrict UE weekly results (see above) to new equivalents (new members in the family). With presence of the field, result will provide all families containing new equivalents. By specifying one or several country codes, result will only provide families containing new equivalents corresponding to these extension countries.	UECC=YES DE /UECC (FR OR US OR JP) /UECC
Addition of citations (weekly)	/UCT	Search the code in the following format: YYYY-WW (week) YYYY+ (year)	2014-23 /UCT
Addition of Human produced English Abstracts			

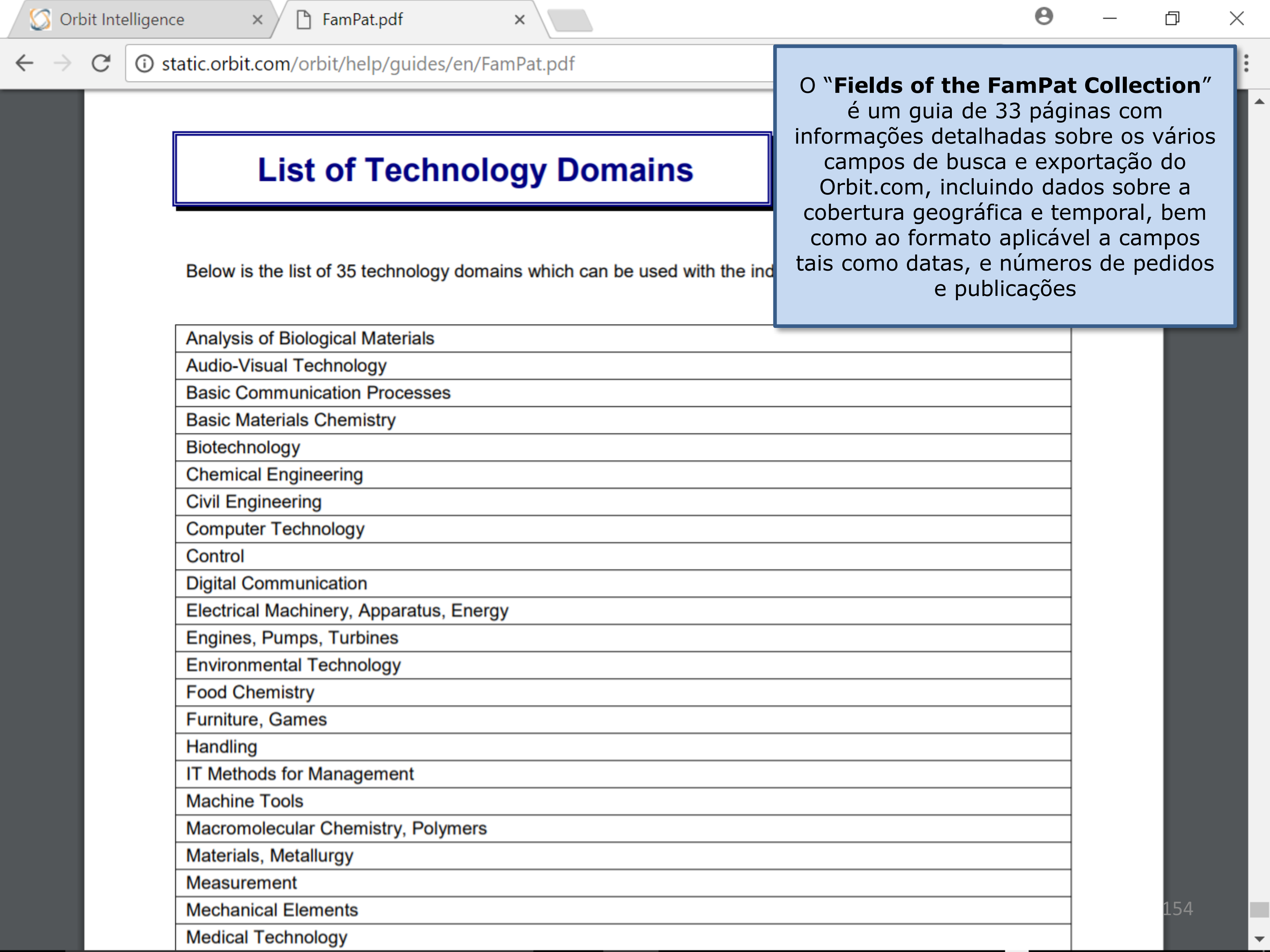


Definition of Field Codes

Biblio

AB*	Abstract in the preferred language
AP	Application data (numbers and dates) of the family
APD	Application dates of the family
APID	Patent accession number in FullPat and FamPat collections
CIDS	Litigation case ID number
CPC	Cooperative Patent Classification codes – most recent publication stage
CPCH	Cooperative Patent Classification codes – at each publication stage
CPCM	Main code of the Cooperative Patent Classification for each member
CT	Cited patents
CTN	Standardized cited patents
CTGN	Standardized citing patents
DS	Designated countries
EAB	Original or machine translated English abstract
EAPC	Earliest application country in the family
EAPD	Earliest application date in the family
EC	European ECLA and ICO classification codes
EFAN	Extended family accession number
EPAP	Application data of parent EP
EPD	Earliest publication date in the family
EPDG	Earliest grant date in the family
EPNC	Earliest publication country in the family
EPRC	Earliest priority country in the family
EPRD	Earliest priority date in the family

O “**Fields of the FamPat Collection**” é um guia de 33 páginas com informações detalhadas sobre os vários campos de busca e exportação do Orbit.com, incluindo dados sobre a cobertura geográfica e temporal, bem como ao formato aplicável a campos tais como datas, e números de pedidos e publicações



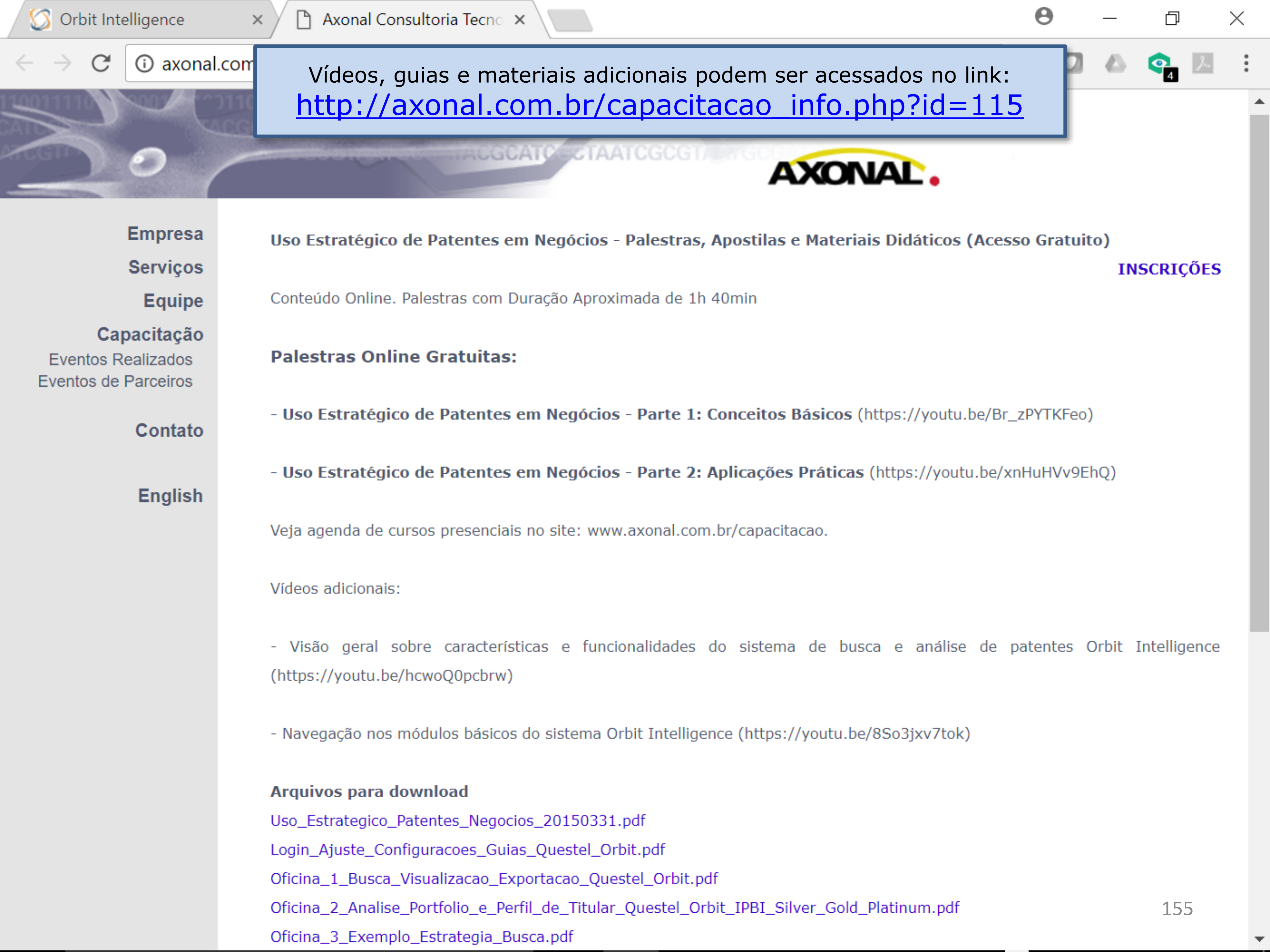
O “**Fields of the FamPat Collection**” é um guia de 33 páginas com informações detalhadas sobre os vários campos de busca e exportação do Orbit.com, incluindo dados sobre a cobertura geográfica e temporal, bem como ao formato aplicável a campos tais como datas, e números de pedidos e publicações

List of Technology Domains

Below is the list of 35 technology domains which can be used with the ind

Analysis of Biological Materials
Audio-Visual Technology
Basic Communication Processes
Basic Materials Chemistry
Biotechnology
Chemical Engineering
Civil Engineering
Computer Technology
Control
Digital Communication
Electrical Machinery, Apparatus, Energy
Engines, Pumps, Turbines
Environmental Technology
Food Chemistry
Furniture, Games
Handling
IT Methods for Management
Machine Tools
Macromolecular Chemistry, Polymers
Materials, Metallurgy
Measurement
Mechanical Elements
Medical Technology

Vídeos, guias e materiais adicionais podem ser acessados no link:
http://axonal.com.br/capacitacao_info.php?id=115


Orbit Intelligence
Axonal Consultoria Tecno
axonal.com
AXONAL
Empresa
Serviços
Equipe
Capacitação
Eventos Realizados
Eventos de Parceiros
Contato
English
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Uso Estratégico de Patentes em Negócios - Palestras, Apostilas e Materiais Didáticos (Acesso Gratuito)

Conteúdo Online. Palestras com Duração Aproximada de 1h 40min

Palestras Online Gratuitas:

- **Uso Estratégico de Patentes em Negócios - Parte 1: Conceitos Básicos** (https://youtu.be/Br_zPYTKFeo)

- **Uso Estratégico de Patentes em Negócios - Parte 2: Aplicações Práticas** (https://youtu.be/xnHuHVv9EhQ)

Veja agenda de cursos presenciais no site: www.axonal.com.br/capacitacao.

Vídeos adicionais:

- Visão geral sobre características e funcionalidades do sistema de busca e análise de patentes Orbit Intelligence (https://youtu.be/hcwoQ0pcbrw)

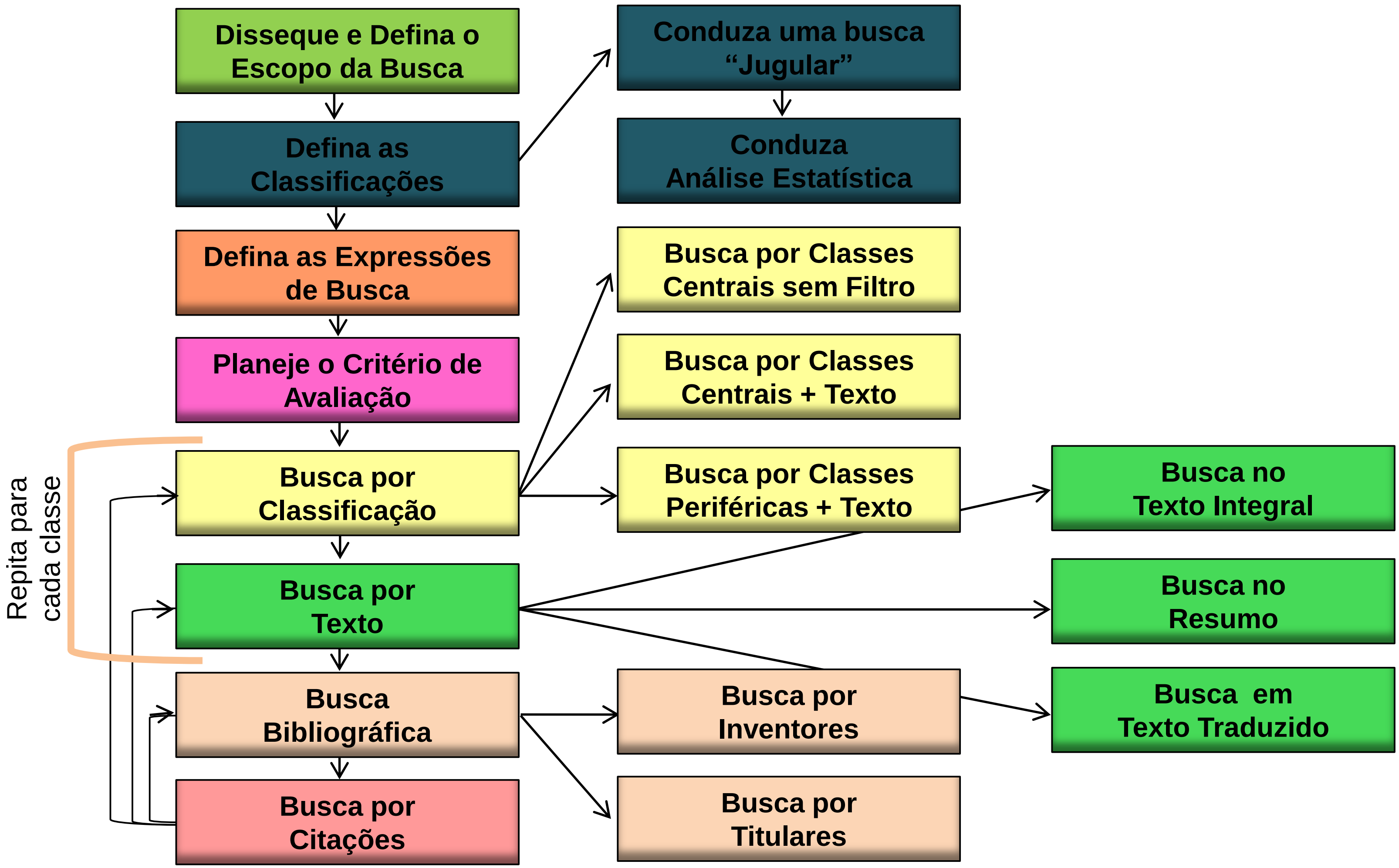
- Navegação nos módulos básicos do sistema Orbit Intelligence (https://youtu.be/8So3jxv7tok)

Arquivos para download

Uso_Estrategico_Patentes_Negocios_20150331.pdf
Login_Ajuste_Configuracoes_Guias_Questel_Orbit.pdf
Oficina_1_Busca_Visualizacao_Exportacao_Questel_Orbit.pdf
Oficina_2_Analise_Portfolio_e_Perfil_de_Titular_Questel_Orbit_IPBI_Silver_Gold_Platinum.pdf
Oficina_3_Exemplo_Estrategia_Busca.pdf

Pesquisa e Análise de Patentes

Estratégias de Busca



Disseque e Defina o Escopo da Busca

Defina as Classificações

Defina as Expressões de Busca

Planeje o Critério de Avaliação

Busca por Classificação

Busca por Texto

Busca Bibliográfica

Busca por Citações

Repita para cada classe

Conduza uma busca "Jugular"

Conduza Análise Estatística

Busca por Classes Centrais sem Filtro

Busca por Classes Centrais + Texto

Busca por Classes Periféricas + Texto

Busca por Inventores

Busca por Titulares

Busca no Texto Integral

Busca no Resumo

Busca em Texto Traduzido

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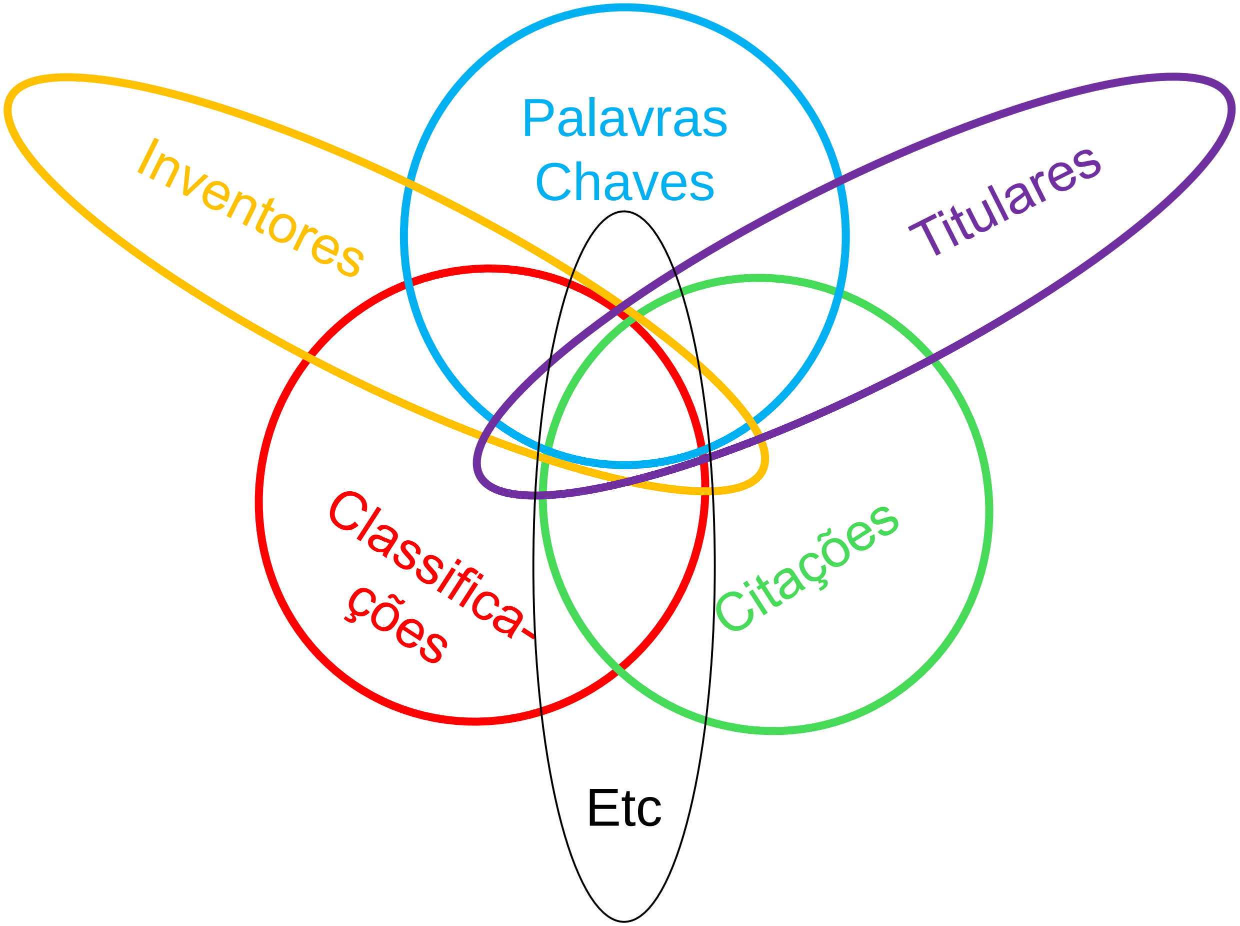
Ref. PRG Art & Science of Patent Searching, Salvador (BA), 2011

Pesquisa e Análise de Patentes

Estratégias de Busca


Palavras Chaves
Inventores
Titulares
Classifica-ções
Citações
Etc

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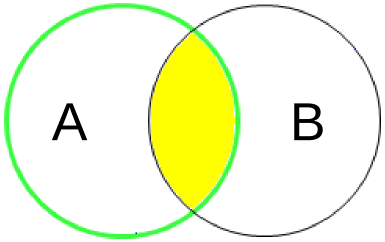
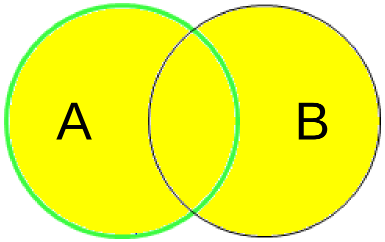
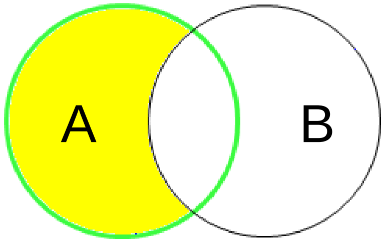
Conectores Booleanos



A and B (intersecção)



A or B (agrupamento)



A not B (exclusão*)

* Lembre-se de usar o NOT para encontrar o complemento. Ou seja, os resultados não contidos no conjunto anterior.

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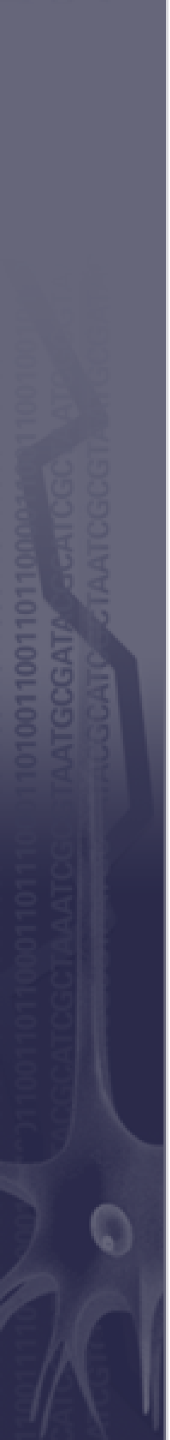

Orbit.com

Conectores Booleanos e de Proximidade

AND	ambos os termos de busca presentes (intersecção)	digital **and** television
OR	um ou o outro termo de busca presente (soma, grupamento)	television **or** tv
NOT	o primeiro termo de busca presente, mas não o segundo (exclusão)	1 **not** 2
F	termos de busca no mesmo campo	digital **f** (televis+ or tv)
P	termos de busca no mesmo parágrafo	digital **p** (televis+ or tv)
S	termos de busca na mesma sentença	digital **s** (televis+ or tv)
nD	termos presentes, em qualquer ordem, de zero a n palavras de distância (n de 1 a 99)	digital **5d** (televis+ or tv)
D	termos contíguos, mas em qualquer ordem	digital **d** (televis+ or tv)
nW	termos presentes, na ordem em que foram digitados, de zero a n palavras de distância (n de 1 a 99)	digital **5w** (televis+ or tv)
W	termos contíguos, exatamente na ordem digitada	digital **w** (televis+ or tv)
_	O “underline” indica que dois termos podem estar conectados em uma única palavra ou em duas palavras separadas contíguas	amino_pyridin+ = (aminopyridin+ or amino pyridin+)
SDOC	os termos de busca forçosamente aparecem na mesma publicação	BR/PN **sdoc** PDF=2007

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Truncagem

<table>
<tr><td>+</td><td>Qualquer número de caracteres</td><td>+inflam+</td></tr>
<tr><td>?</td><td>Até mais um caractere, para cada ?</td><td>Inflamad??</td></tr>
<tr><td>#</td><td>Forçosamente um caractere para cada #</td><td>inflamad#</td></tr>
<tr><td colspan="3">Os símbolos de truncagem podem ser utilizados à esquerda, meio à direita das palavras. Também podem ser usados simultaneamente (ex. +infla?ma+).
Para o emprego dos símbolos de truncagem é necessário que a palavra tenha pelo menos 3 caracteres definidos.
A truncagem à direita (ex. inflam+) funciona para praticamente todos os campos. Já a truncagem à esquerda e no meio das palavras pode não funcionar em alguns campos (veja o guia “FamPat Fact Sheet for Orbit.com”)</td></tr>
</table>

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Exemplos de Expressões de Busca

((**laser** or **light** or **luminous**) 2w (**point+** or **pen?**))/BI/SA or (**G02B-027/20**)/IPC/EC/CPC

... and **BR/PN**

... and **NPN>1**

... and (**CIDS=YES or OPP=YES**)

Em caso de dúvidas, entre em contato:

questel@axonal.com.br
help@questel.com

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