

Cipher

Cipher

Intro

New Report

Organization

Check

Show similiar portfolios

apply technology clustering

Overview

Technology group by different companies

IDENTIFY the wanted domain

Unrelated

Save report

Edit

share

history

Filter

PIE CHART

choose

Technology

Geo-territories

5 layers columns

2 visualization

 visualization type

 in visualization filter

Landscape

Fire

Classifier langscape fuel

Landscape

Portfolio size

Private owner

Remove private owner

remove others

Remove china

Panasonic selection

Status

Used for acquisition target

Remove LONG TAIL

indication for the maturity of the technology

compare with EV technology

active size growth

remove next (!!?)

vis

sliders and selections

patent activity

patent families

select top 5

remove 2022

zoom

interactive

看出来市场格局的变化

patenting activities

start with trend

strategic insights by zoom

Geography families with grants by country and organisations

Cost

Spend

The highest cost for one patent shows the importance of that patent for that company

Average cost by country and

Cost by organisation and year

Age of portfolio

How long does the company keep the patent?

JAPAN COMPANIES

TOTAL

TOSHIBA

TECHNOLOGY EXPIRE

QUALITY = PVIX

Portfolio value index (PVIX, by organisation and size)

explanation

gm

pvix

dispute

strategy

disputes
Question
explo
Patent family
Which one to choose

Intro

The screenshot shows the Cipher web interface with a dark header bar. On the left is the Cipher logo. On the right are icons for 'Switch to old Cipher', a home icon, a clock icon, a user icon, a message icon, and a help icon.

The main area is divided into several sections:

- NEW REPORT**: Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload. Includes a red 'Start' button.
- QUICK ORGANISATION SEARCH**: Create a new report in one click for your target organisation with Cipher suggestions for seven similar portfolios. Includes a search input field and a red 'Start' button.
- GLOBAL LANDSCAPE REPORT**: Create a new report for all owners globally, by running up to 50 classifiers against all patent families. Includes a red 'Start' button.
- UTT LANDSCAPE REPORT**: Create a new report for all owners globally, by running a UTT classifier against all patent families. Includes a red 'Start' button.
- RECENT REPORTS**: A list of recent reports:
 - 2022-02-15 Tech Screening: Financial Services Orgs
 - 2022-02-15 Toyota + Competitors
 - 2022-02-15 Google
 - 2022-02-15 Bose
 - 2022-02-15 Fire/explosion proof Fuel cells (landscape)Includes 'See more' and 'Go to saved reports' links.
- CLASSIFIER TRAINING**: Recently edited classifiers:
 - 6 days ago Fire/explosion proof Fuel cells
 - 7 days ago Video (broad)
 - 7 days ago zzz (archive) Red Bull Confectionery flexible packaging vCipherIncludes a 'See all' link.
- ALERTS**: You are not subscribed to any alerts. Includes a 'Subscribe' link.
- AUTOMOTIVE INSTANT INSIGHTS**: Filters for Region (dropdown: Select region), Technology (dropdown: Select technology), OEMs (radio button checked), and Suppliers (radio button). Includes a 'GO' button.
- CUSTOM CLUSTERED REPORT**: Create a new manually clustered report. Includes a red 'Upload' button.

New Report

Switch to ORGANISATION SEARCH	Switch to KEYWORD SEARCH	Switch to ORGANISATION SETS	TAGGED FAMILIES	Switch to PATENT UPLOAD
----------------------------------	-----------------------------	--------------------------------	------------------------	----------------------------

DEFAULT
BOOKMARKED

Interesting

CATEGORIES
FRUIT

Lemons Strawberries

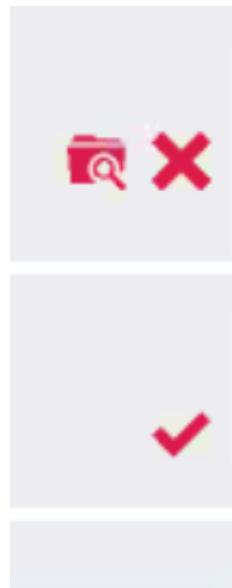
RELEVANCY
RANKING FOR PROJECT A

High Low Medium

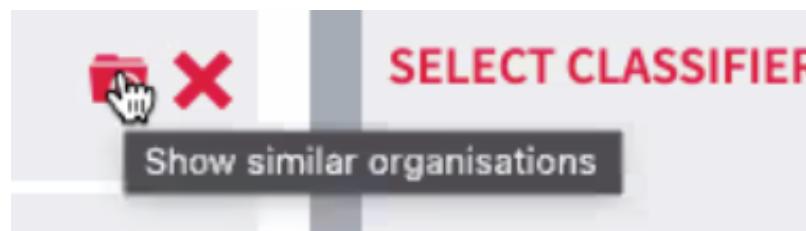
Organization

ORGANISATION SEARCH	Switch to KEYWORD SEARCH	Switch to ORGANISATION SETS	Switch to TAGGED FAMILIES	Switch to PATENT UPLOAD
Switch to multiple organisation search				
toyota				X
Toyota Motor Corp				✓
▶ 90,615 ▷ 295		● 1, TOYOTA-CHO, TOYOTA-SHI, Aichi-ken, 471-8571, Japan		✓
Toyota Boshoku part of Toyota Motor Corp			↗	✓
▶ 2,762 ▷ 3		● Japan		✓
Toyoda Iron Works Co Ltd				✓
▶ 375 ▷ 0		● Japan		✓
Toyota Map Shiga Prefecture				✓
▶ 8 ▷ 0		● 일본 아이치켄 도요타시 도요타초 1, Japan		✓
Toyota Energy Solutions Inc				✓
▶ 8 ▷ 0		● Japan		✓

Check



Show similar portfolios



Organisations with portfolios similar to Toyota Motor Corp

Denso Corp

▶ 43,185 162 Kariya, Japan

Nissan Motor Co Ltd

▶ 16,344 133 神奈川県横浜市神奈川区宝町2番地

Honda Motor Co Ltd

▶ 34,368 244 1-1, MINAMI-AOYAMA 2-CHOME, MINATO-KU, TOKYO, 107-8556, Japan

Mitsubishi Electric Corporation

▶ 69,413 380 東京都千代田区丸の内二丁目7番3号

Hitachi Ltd

▶ 62,669 314 Japan

- company in the domain

ORGANISATION SEARCH	Switch to KEYWORD SEARCH	Switch to ORGANISATION SETS	Switch to TAGGED FAMILIES	Switch to PATENT UPLOAD
Switch to multiple organisation search				
<input type="text" value="GM"/> <input type="button" value="X"/>				
General Motors 16,707 210 300 RENAISSANCE CENTER, MAIL				

IN REPORT	
ORGANISATIONS	CLEAR ALL
Toyota Motor Corp	
Denso Corp	
Bosch (Robert) GmbH	
General Motors	
TECHNOLOGIES	RESET

- toyota motor corp
- denso corp
- Bosch GmbH
- Organization

The screenshot shows a user interface for patent analysis. At the top, there's a search bar with the text "volkswage". Below it, a card displays "Volkswagen Group" with statistics: 31,475 relative patents and 365 technologies from Germany. A "TECHNOLOGIES" tab is selected, and a "SELECT CLASSIFIERS" button is visible. A red pencil icon is also present.

- classifiers
 - relative patents

This screenshot shows a "Report options" dialog box. It includes fields for "REPORT NAME" (set to "Toyota, Denso, Bosch, GM, Volkswagen") and "ORGANISATIONS" (set to "1,000"). Under "TECHNOLOGIES", the "Apply Technology Clustering" option is checked. The "Clustering" section lists several organizations with checkboxes:

- Toyota Motor Corp
- Denso Corp
- Bosch (Robert) GmbH
- General Motors
- Volkswagen Group

 At the bottom right are "Run report" and "Close" buttons.

apply technology clustering

TECHNOLOGIES

 Apply Technology Clustering 

- Technology

Group by owner level:  n/a

TECHNOLOGIES

- Apply Technology Clustering 
 Use UTT (Universal Technology Taxonomy) 

Clustering

[All]	Name
<input checked="" type="checkbox"/>	Toyota Motor Corp
<input type="checkbox"/>	Denso Corp

There is a cached version of this exact report that was recently created.

Report created 2 hours ago 

 Use cached report

 Run new report

 Close

•

Overview

- portfolio size
- portfolio trends
- patenting activity
- Geography

Technology group by different companies



16:41 15 Feb 2022 805,256 families ⓘ

Toyota, Denso, Bosch, GM, Volkswagen ↗



Organisations [5/5]

Technologies [11/11]

Territories

	Toyota	Bosch	Denso	Volkswagen	GM	TOTAL
Exhaust gas, IC engine, air fuel ratio, control device, fuel injection valve	27,969	10,291	12,596	10,098	5,933	66,887
Fuel cell, power storage device, electrode active material, membrane electrode assembly, gas diffusion layer	16,793	3,139	1,906	2,371	1,759	25,968
Miscellaneous	13,485	3,145	3,666	3,133	1,659	25,088
Vehicle seat, air bag device, vehicle width direction, seat belt device, protection device	8,287	1,161	2,064	2,642	1,115	15,269
Information processing, driving support device, traffic information, control unit, driving assistance	6,781	2,026	2,978	1,980	1,015	14,780
Steering device, vehicle width direction, power steering, front rear direction, steering angle	5,929	1,228	955	2,623	852	11,587
Semiconductors, light emitting device, thermoelectric conversion material, single crystal, heat treatment	3,410	933	2,645	172	96	7,256
Automatic transmission, continuously						

IDENTIFY the wanted domain

	Toyota	Bosch	Denso	Volkswagen	GM	TOTAL
Exhaust gas, IC engine, air fuel ratio, control device, fuel injection valve	27,969	10,291	12,596	10,098	5,933	66,887
Fuel cell, power storage device, electrode active material, membrane electrode assembly, gas diffusion layer	16,793	3,139	1,906	2,371	1,759	25,968
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Steering device, vehicle width direction, power steering, front rear direction, steering angle	5,929	1,228	955	2,623	852	11,587
Semiconductors, light emitting device, thermoelectric conversion material, single crystal, heat treatment	3,410	933	2,645	172	96	7,256

Unrelated

	0,201	1,101	2,004	2,042	1,113	10,201
width direction, seat belt device, protection device						
Information processing, driving support device, traffic information, control unit, driving assistance	6,781	2,026	2,978	1,980	1,015	14,780
Steering device, vehicle width direction, power steering, front rear direction, steering angle	5,929	1,228	955	2,623	852	11,587
Semiconductors, light emitting device, thermoelectric conversion material, single crystal, heat treatment	3,410	933	2,645	172	96	7,256
Automatic transmission, continuously variable transmission, hydraulic control device, power transmission device, speed change	3,449	737	564	944	1,171	6,865
Stator core, rotary electric machine, electric motor, magnetic flux, outer peripheral surface	1,870	563	1,351	342	173	4,299
Building unit, outer wall, wall panel, air conditioning system, precast concrete	1,623	76	78	34	8	1,819
Unrelated	0	25,238	14,198	6,789	1,828	48,053
TOTAL	89,596	48,537	43,001	31,128	15,609	227,871

第一个是bench mark

- unrelated
- not in the field of
- create a report
- you can always drill down to the data
- define the columns

Status All Sort by Priority Date... Lines First 4 Columns default Family Tags No filter

This subset contains 16,793 patent families.

Selected 0 families.

	Cipher Family ID	Owners	Technology	Patent Status	
<input type="checkbox"/>	C0071733050	Toyota Motor Corp	Fuel cell, power storage device, electrode active material, membrane electrode assembly, gas	CN	ain device for
<input type="checkbox"/>	C0071806924	Toyota Motor Corp	Fuel cell, power storage device, electrode active material, membrane electrode assembly, gas	CN	nodule
<input type="checkbox"/>	C0071685101	Toyota Motor Corp	Fuel cell, power storage device, electrode active material, membrane electrode assembly, gas	CN	ox

- select all default
- Cipher Family ID
 - Organisation
 - Owners
 - Assignees
 - Technology
 - Patent Numbers
 - Title
 - Abstract
 - Status
 - Pending Territories
 - Granted Territories
 - Expired Territories
 - Priority Date
 - Granted Date
 - Publication Date
 - Expiry Date
 - CPC Codes
 - Inventors

Switch to multiple organisation search

×

Organisations with portfolios similar to Toyota Motor Corp

Most similar portfolio

Close

Denso Corp	<input type="checkbox"/>
▶ 43,185	162
● Kariya, Japan	<input checked="" type="checkbox"/>

Nissan Motor Co Ltd

ORGANISATIONS
CLEAR ALL

Toyota Motor Corp

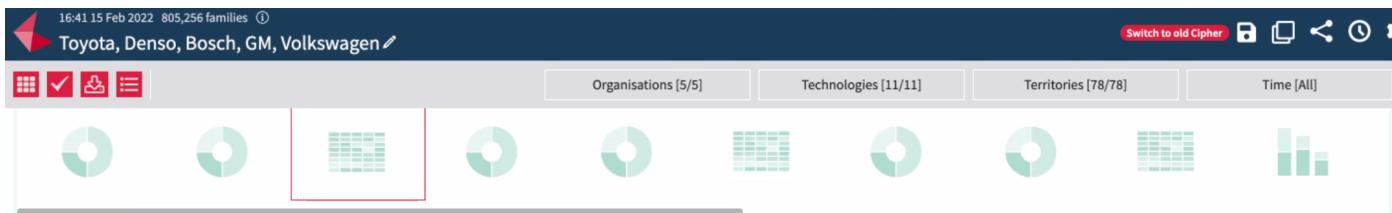
Denso Corp

Honda Motor Co Ltd

TECHNOLOGIES RESET

SELECT CLASSIFIERS

- building an unrelated report



PORTRFOOL SIZE Active families, by org & tech > Unrelated

See guide
Enter search query here...

Status All Sort by Priority Date... Lines First 4 Columns default Family Tags No filter Page size 500

Tags Options Download as CSV Download as Excel Start new report from list Cluster this list

This subset contains 48,046 patent families.

Selected 0 families.

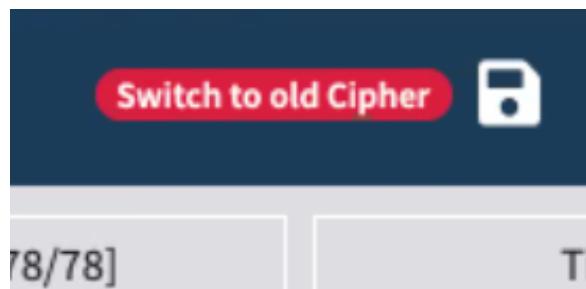
Cipher Family ID	Owners	Technology	Patent Numbers	Title	Status	Priority...
C0071191836	Bosch (Robert) GmbH	Unrelated	DE202021106495U1	Test system, air mixture line and gas control unit	Granted	2021-11-23
C0071331442	Bosch (Robert) GmbH	Unrelated	GB202116393D0	A device for determining an earliest flame appearance time in an air-gas mixture burning appliance	Pending	2021-11-12
C0071331443	Bosch (Robert) GmbH	Unrelated	GB202116392D0	An air-gas mixture burning appliance with a variable ignition safety time	Pending	2021-11-12
C0071850703	Bosch Rexroth	Unrelated	CN215432500U	Guide rail device and machine tool	Granted	2021-11-12
C0070994552	Bosch (Robert) GmbH City Univ of London	Unrelated	GB202115659D0	Fault prediction for machines	Pending	2021-11-01

Clustered report

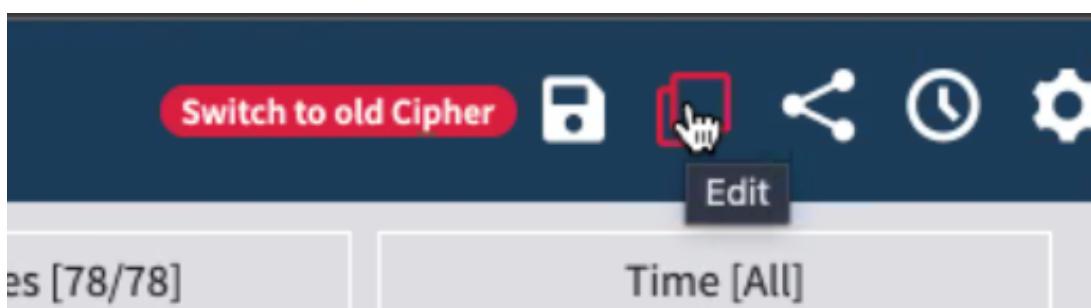
REPORT NAME
Toyota, Denso, Bosch, GM, Volkswagen - unrelated clustered

Run report Close

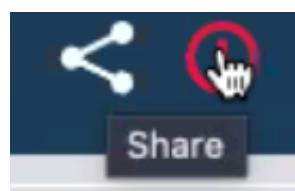
Save report



Edit



share



history

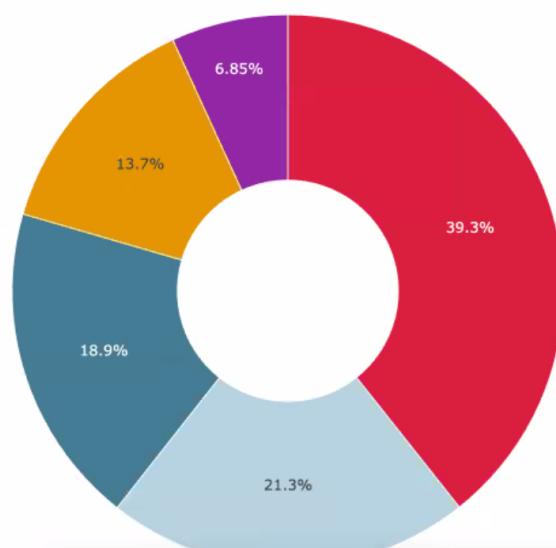


Filter

A screenshot of a software interface showing a search results page. The top bar displays the date "10.4.21 15 Feb 2022" and the number of results "605,250". The search query "Toyota, Denso, Bosch, GM, Volkswagen" is entered. Below the search bar are several filter icons: a grid, a checkmark, a magnifying glass, and a list. To the right, there are buttons for "Organisations [5/5]", "Technologies [11/11]", and "Time". At the bottom, there is a "OVERVIEW" section with buttons for "Active", "Granted", "Expired", "Pending", "Stats", "Patent", "Geography", "Cost", "Time", "Organisation", "Technology", and "Selected".

PIE CHART

◀ ▶ ⏪ ⏩ PORTFOLIO SIZE Active families, by organisation ⓘ



Toyota Motor Corp	89,595
Bosch (Robert) GmbH	48,536
Denso Corp	42,999
Volkswagen Group	31,128
General Motors	15,609
TOTAL	227,867

choose



PORTFOLIO SIZE Active families, by organisation ⓘ



Technology

isations [5/5]

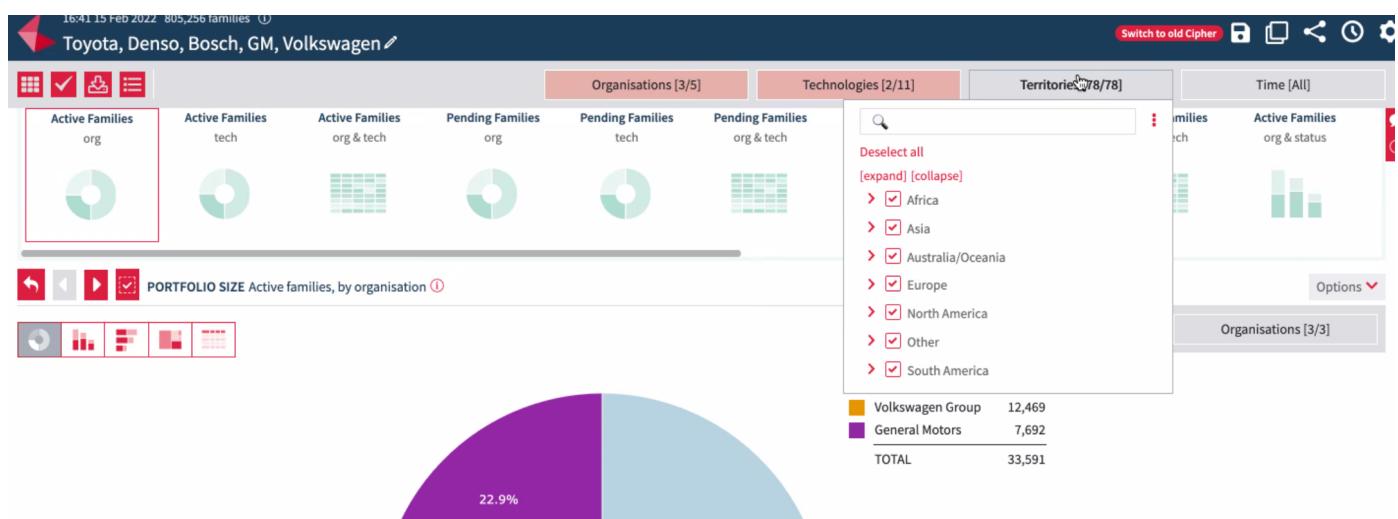
Technologies [2/11]



Select all

- Exhaust gas, IC engine, air fuel ratio, control de...
- Fuel cell, power storage device, electrode activ...
- Vehicle seat, air bag device, vehicle width direc...
- Information processing, driving support device...
- Steering device, vehicle width direction, power...
- Automatic transmission, continuously variable...
- Semiconductors, light emitting device, thermo...
- Stator core, rotary electric machine, electric m...
- Building unit, outer wall, wall panel, air conditi...
- Miscellaneous
- Unrelated

Geo-territories



5 layers columns



- organization
- technology
- territories
- Time
- Status

2 visualization

visualization type



in visualization filter

Options ▾

Organisations [5/5]



Deselect all

↑ Apply to all charts

- Toyota Motor Corp
- Bosch (Robert) GmbH
- Denso Corp
- Volkswagen Group
- General Motors

Landscape

GLOBAL LANDSCAPE REPORT

(i)

Create a new report for all owners globally, by running up to 50 classifiers against all patent families

Start

Fire

The screenshot shows a search interface for classifiers. A search bar at the top contains the word "fire". Below the search bar, there are several classifier categories listed in a grid:

- AUTOMOTIVE CLASSIFIERS [expand] [collapse]
- BANK OF AMERICA CLASSIFIERS [expand] [collapse]
- FINANCIAL SERVICES CLASSIFIERS
- FINTECH CLASSIFIERS [expand] [collapse]
- INSTAGRAM CLASSIFIERS [expand] [collapse]
- USER CLASSIFIERS Page 1 of 1 [expand] [collapse] Fire/explosion proof Fuel cells ⓘ

To the right, a modal window titled "SELECTED CLASSIFIERS (1)" displays the selected classifier: "Fire/explosion proof Fuel cells". There is a red "X" icon in the top right corner of the modal.

Classifier landscape fuel

The screenshot shows a "Classifier landscape report" dialog box. It contains the following information:

- Header: "Classifier landscape report"
- Text: "You selected 1 classifier to create a landscape report. Building the report will take approximately 1 hour."
- Section: "REPORT NAME" with input field "Fire/explosion proof Fuel cells (landscape)"
- Section: "Group by owner level: Direct owner" with a dropdown menu
- Section: "Maximum number of Organisations: 1,000" with a dropdown menu and a help icon ⓘ
- Text: "There is a cached version of this exact report that was recently created."
- Text: "Report created 6 hours ago"
- Buttons at the bottom: "Use cached report" (red), "Run new report" (red), and "Close"

Landscape

The dashboard displays the following sections:

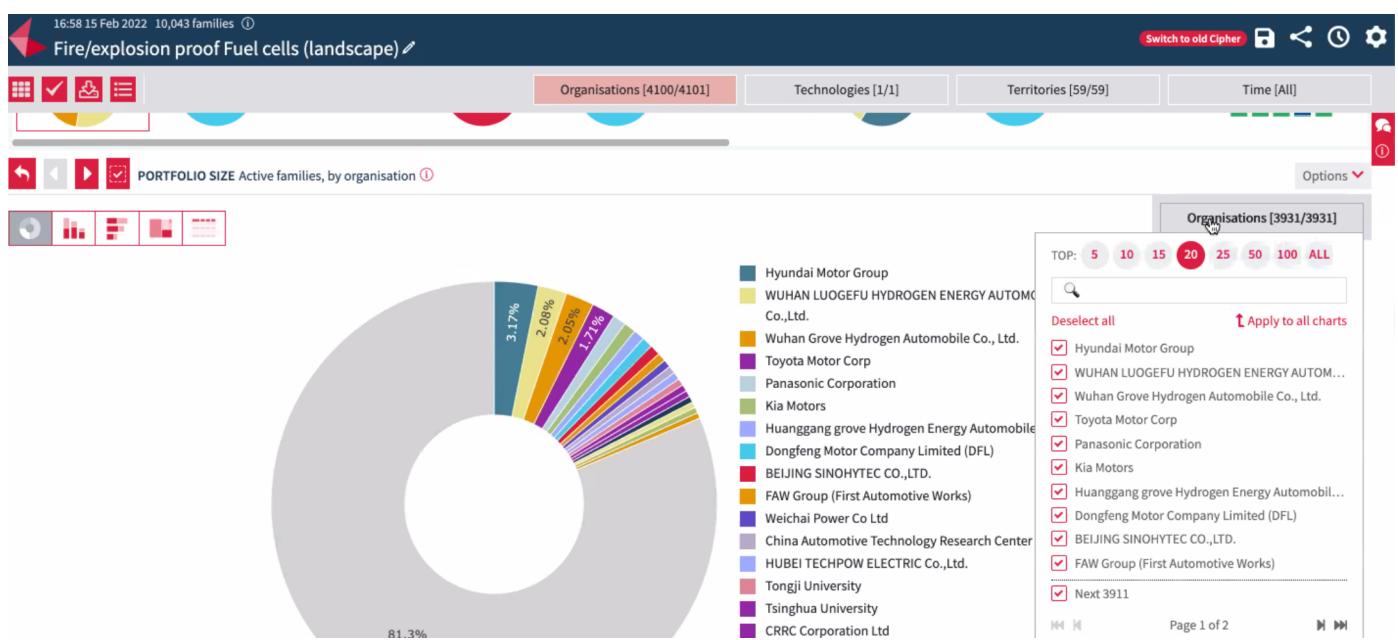
- OVERVIEW**: Active (1), Granted (0), Expired (0), Pending (16), Stats, Patent, Geography, Cost, Time, Organisation, Technology, Selected.
- Portfolio size**: Active Families org (donut chart), Active Families tech (donut chart), Active Families org & tech (bar chart). Shows +16 more.
- Portfolio trends**: Active Families org & year (line chart), Active Families tech & year (line chart). Shows +12 more.
- Patenting activity**: Families org & prio year (bar chart), Families tech & prio year (bar chart), Families org & pub year (bar chart). Shows +7 more.
- Geography**: Active Families region (bar chart), Active Families region & org (grid chart), Active Families region & tech (bar chart). Shows +17 more.
- Age**: Pending Families org & prio year (bar chart), Pending Families tech & prio year (bar chart).
- Cost**: Average Cost Family org (bar chart), Average Cost Family tech (bar chart).
- Disputes**: Litigated Families org (donut chart), Litigated Families tech (donut chart).
- Portfolio stats**: Families CPC code (bar chart), Families org & CPC code (grid chart).

Portfolio size

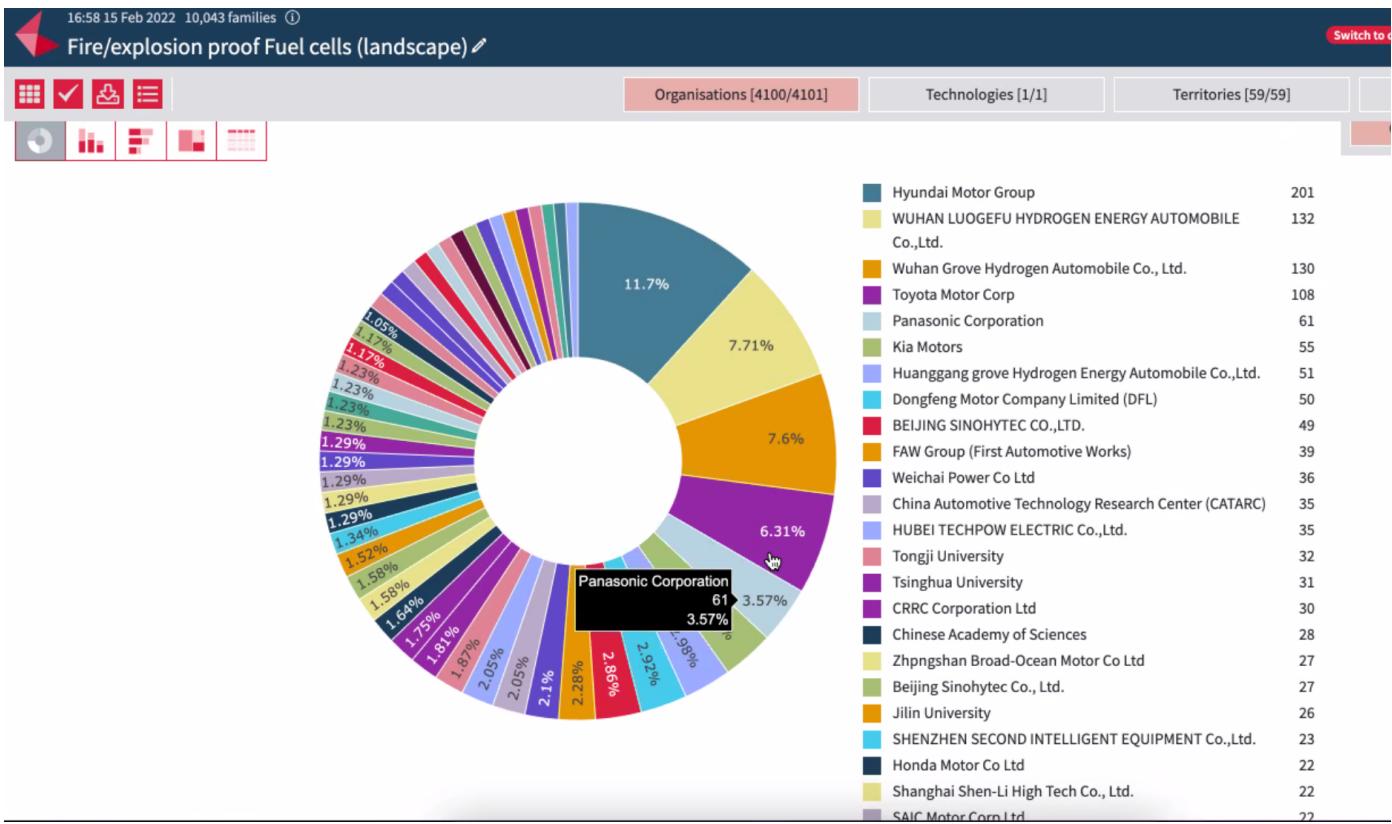
Private owner



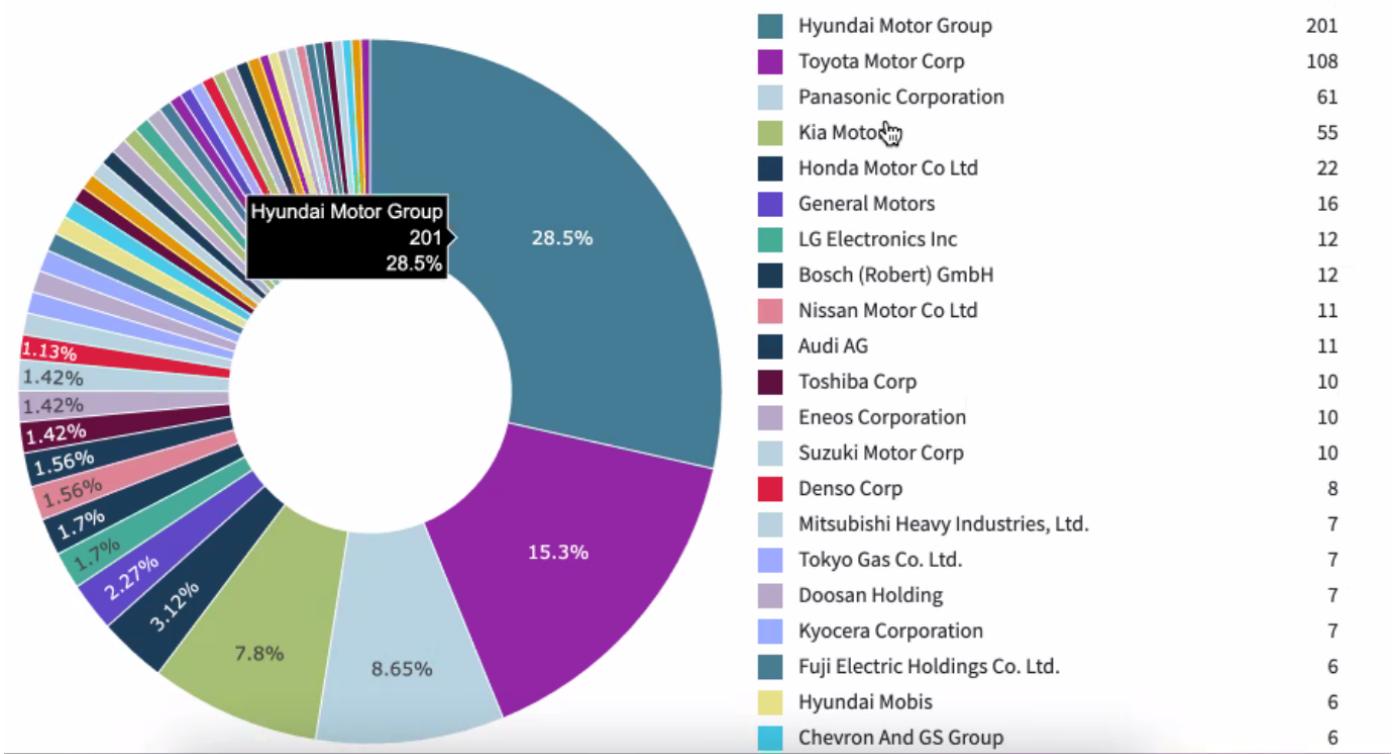
Remove private owner



remove others

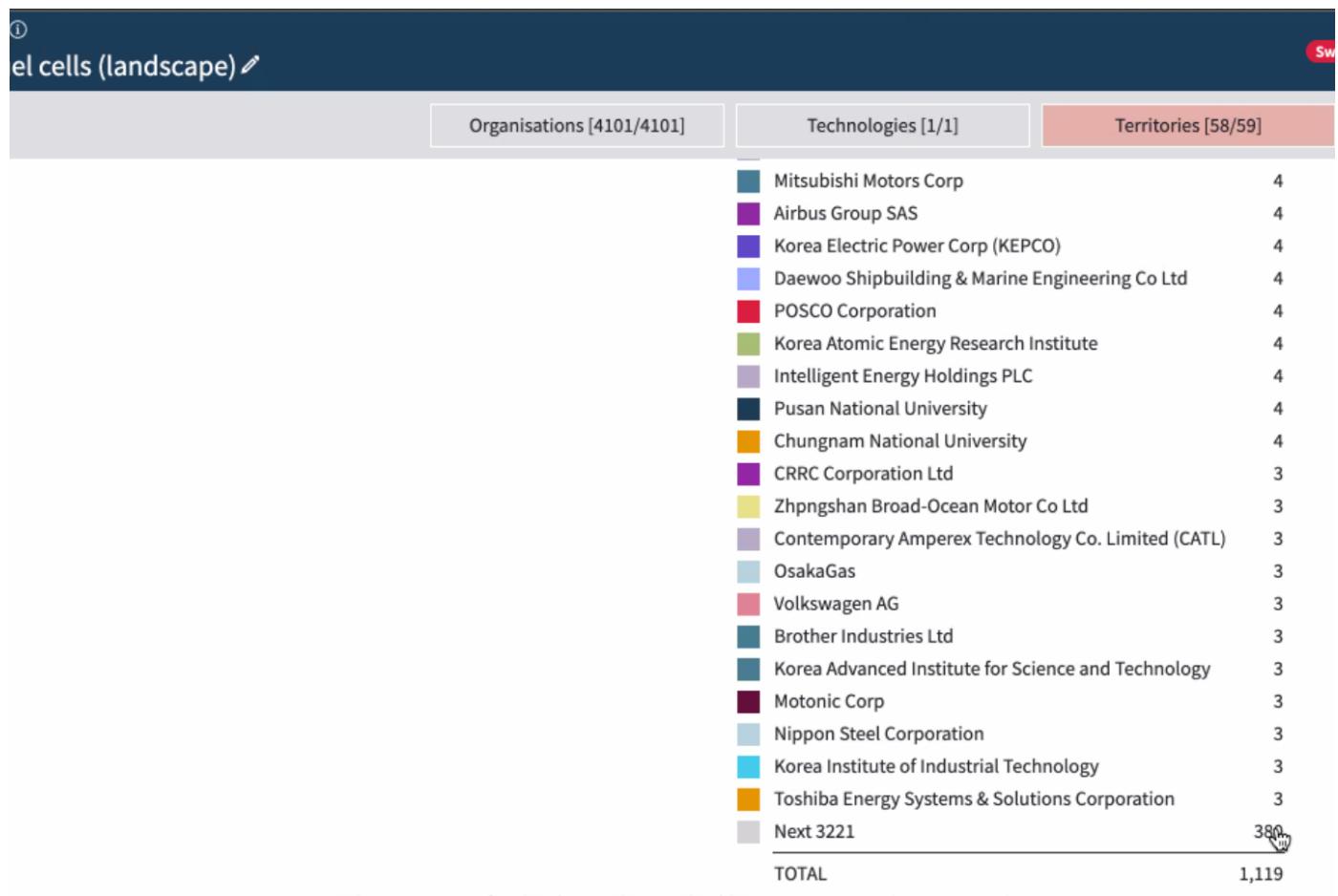


Remove china



Panasonic selection

Status



Currently active patent families (granted or pending) by organisation. [Help centre article](#)

Used for acquisition target

Organisations [4101/4101]	Technologies [1/1]	Territories [58/59]	Time [All]
Aisin Seiki Co Ltd		5	
Toto Ltd.		5	
Air Liquide		5	
BMW		5	
Dainichi Co Ltd		5	
Subaru Corp		5	
LG Chem Ltd		5	
Omb Saleri S.P.A.		5	
Mitsubishi Motors Corp		4	
Airbus Group SAS		4	
Korea Electric Power Corp (KEPCO)		4	
Daewoo Shipbuilding & Marine Engineering Co Ltd		4	
POSCO Corporation		4	
Korea Atomic Energy Research Institute		4	
Intelligent Energy Holdings PLC		4	
Pusan National University		4	
Chungnam National University		4	
CRRC Corporation Ltd		3	
Zhpngshw Broad-Ocean Motor Co Ltd		3	
Contemporary Amperex Technology Co. Limited (CATL)		3	
OsakaGas		3	
Volkswagen AG		3	
Brother Industries Ltd		3	
Korea Advanced Institute for Science and Technology		3	
Motonic Corp		3	
Nippon Steel Corporation		2	

Remove LONG TAIL

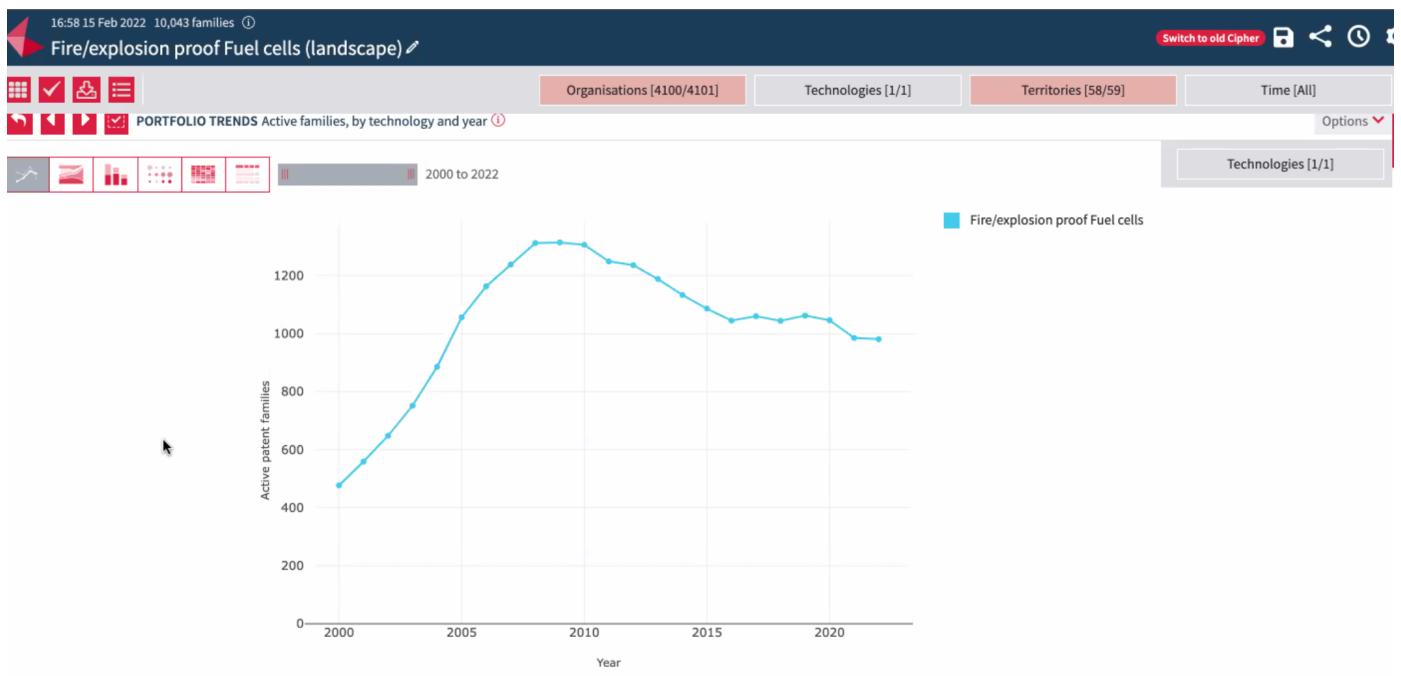
Brother Industries Ltd	3
Korea Advanced Institute for Science and Technology	3
Motonic Corp	3
Nippon Steel Corporation	3
Korea Institute of Industrial Technology	3
Toshiba Energy Systems & Solutions Corporation	3
Sookmyung Women's University	3
Next 3220	377
TOTAL	1,082

Currently active patent families (granted or pending) by organisation. [Help centre article](#)

- TOTAL IS 1082

indication for the maturity of the technology

- slight decline



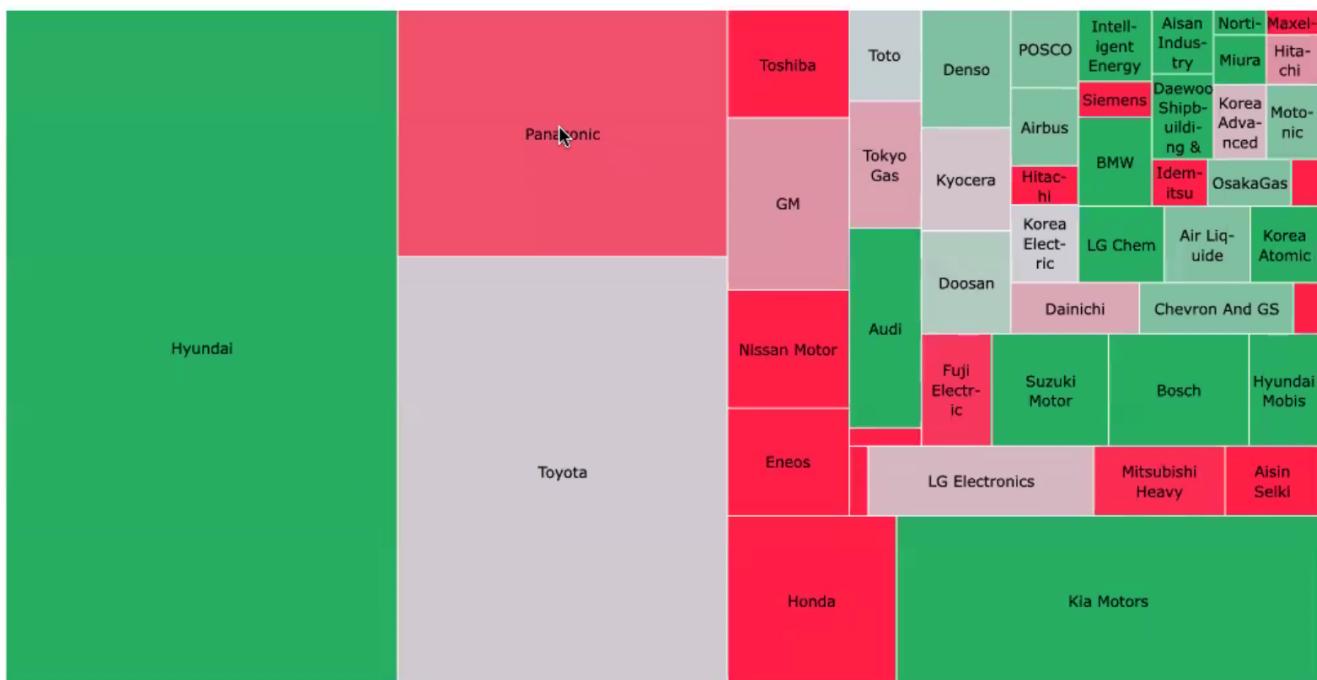
compare with EV technology

- EV go up
- fuel cell go down

active size growth



remove next (!!)



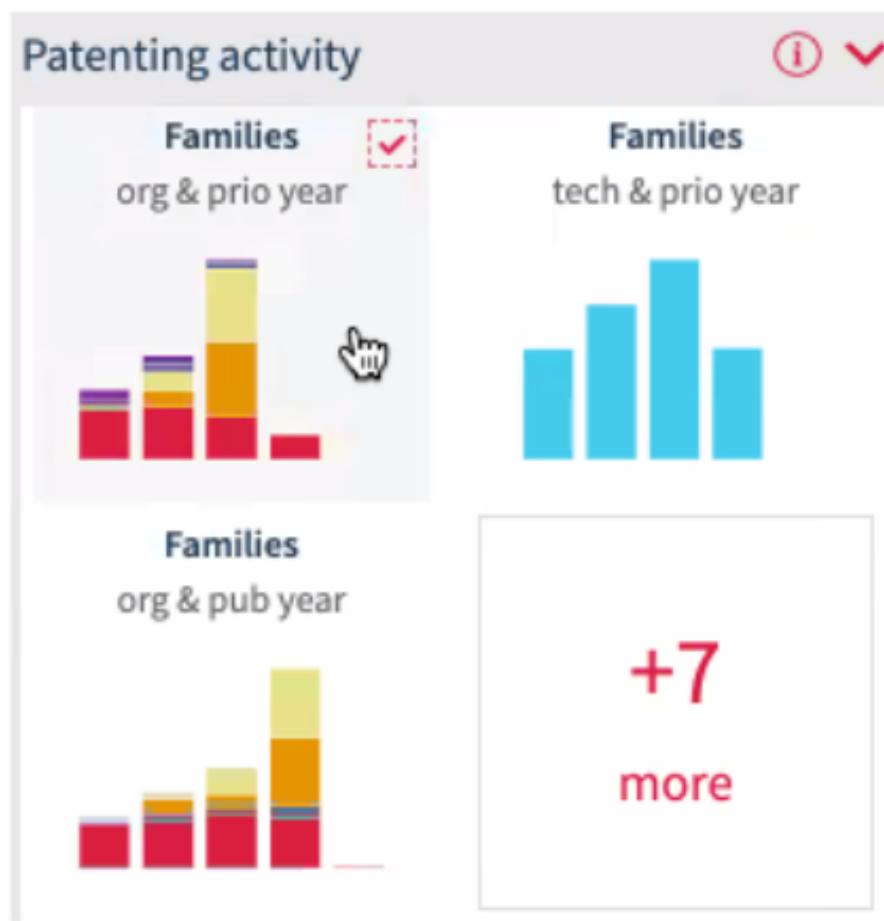
- two dimensions
 - total percentage
 - Size
 - growth
 - color

sliders and selections



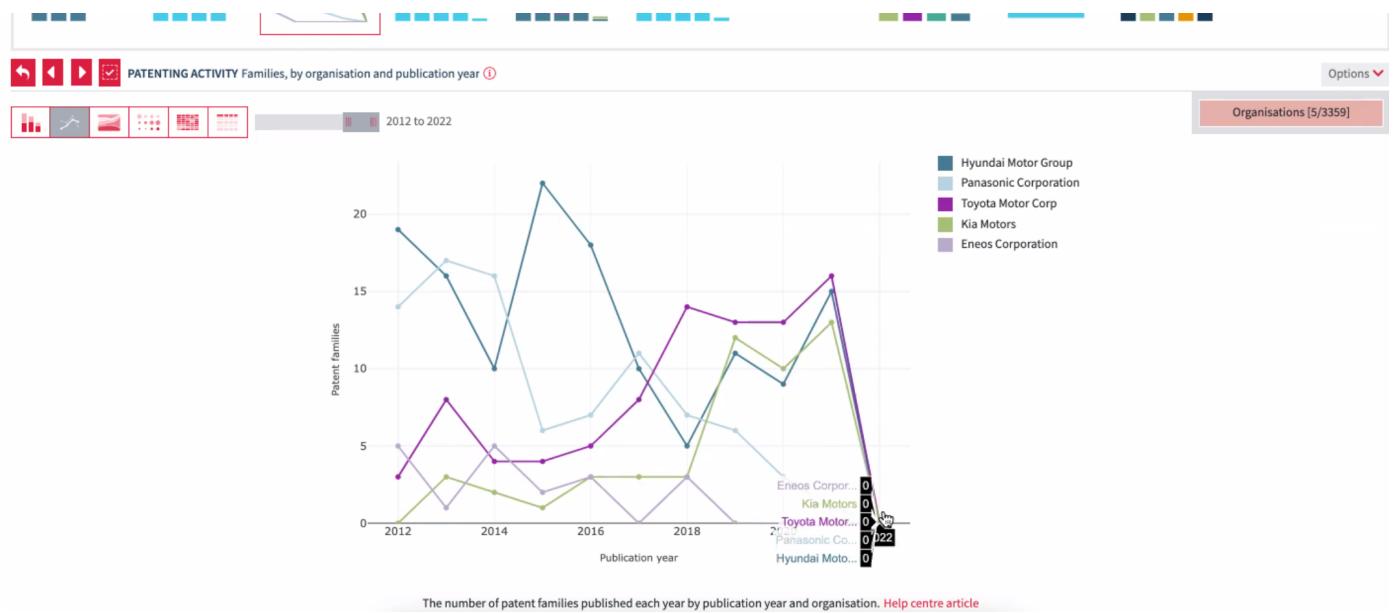
- which portfolio is growing and size

patent activity



patent families

select top 5



remove 2022

zoom

interactive

看出来市场格局的变化

patenting activities

- 看peak

start with trend

- 2021

strategic insights by zoom

Geography families with grants by country and organisations

Cost

Spend

The highest cost for one patent shows the importance of that patent for that company

- It is highly important

Average cost by country and

Cost by organisation and year

Age of proforio

How long does the company keep the patent?

JAPAN COMPANIES

TOTAL

TOSHIBA

TECHNOLOGY EXPIRE

QUALITY = PVIX

•

Portfolio value index (PVIX, by organisation and size)

explaination

gm

- impactful patents
- strategic scores
- factors
- citations

- citations
 - citations controlling ages
-

pvix

-

dispute

strategy

disputes

Question

- how to do patent map?
 - no map....
 - cpc code
 - cto
 - cpc code in two dimensions
 - create a sensors
- Blard
 -
 -
 -
 -
- how to download the data?
 -
 - export
 - excel

- CSV
- ppt
-
- report for organizations

explo

Patent family

-

Which one to choose

- if come with company
 - use the report
- if not with company
 - use landscape

-
- typical
 - start with landscape
 - then report