

**Finding and reviewing target portfolios for
acquisition or licensing**



CIPHER

Agenda

01 Finding Targets

How Cipher can be used to find targets for acquisition or licensing

02 Verify and compare your Target in context to others

How Cipher can be used to verify and compare portfolios already found to the following portfolios:

- Suggestions for similar portfolios
- Known competitors
- Your own portfolio

03 Combine your portfolio with your acquisition target

Combining portfolios allows you to visualise the impact of the acquired assets to your own, in comparison to other options for acquisitions so you can answer questions such as 'which has the most impact?'



The number "01" in white, positioned inside a red circular graphic element.

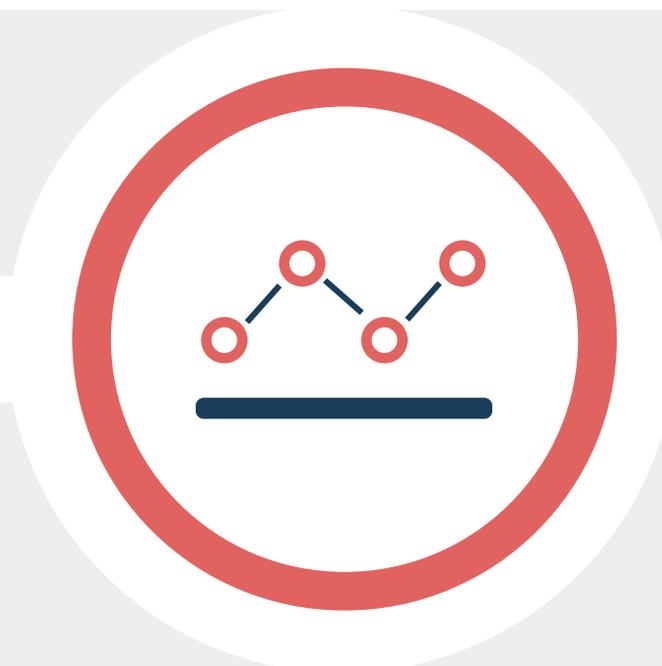
Target Finding

How CIPHER can be used to find targets for acquisition or licensing

Finding Targets for acquisition or licensing

Build and train a classifier in the technology area you want to review

Run a Landscape report with that classifier to discover all acquisition targets globally.



Review and compare target portfolios based on strength, size, trends, age, cost and more.

Filter to Universities & Academic Institutes to look for early partnering/licensing opportunities

Classifier build process



Client Input:

- Define taxonomy
- Stipulate scope:
- Provide sample of +tive and -tive patents

Client Input:

- Give feedback on initial results
- Review borderline results
- Provide guidance on difficult cases

Client Input:

- Review final results

Run your Technology Landscape Report

Why should I start with a landscape report to find targets for acquisition or licensing?

By running a landscape report, you're finding all owners of patent families within a technology space globally. You can then review charts within that report to not only find potential targets but to understand their portfolio in context versus others in the tech area. We have created a preselected chart set called 'target finding' to review some of the metrics listed here:

- Who owns the most patents in the tech area
- Owners of strongest patents within the tech space, based on PVIX score
- Click through to these assets to review foundational patent families
- Who's portfolio is growing or reducing in size whether this relate to the active, or granted part of their portfolio

Step 1

GLOBAL LANDSCAPE REPORT (i)

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

[Start](#)

Step 2



01 | Who owns the most in this technology area?

Portfolio Size

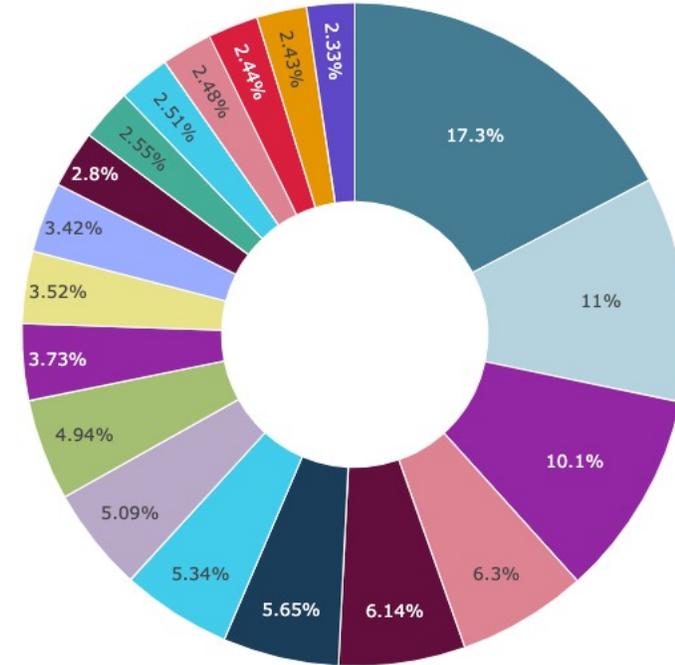
Active patent families, by organisation

Currently active patent families (granted or pending) by organisation.

Findings

One of my targets that I had already found prior to running the landscape report, Sonavation, do not feature in the top owning organisations or fingerprint scanning patents. Fingerprint Cards AB and Egis Technology might be companies to look at in more detail however. I can click into the data of this chart to review the list of active assets that these organisations own in the area of Fingerprint Scanning.

Chart link: <https://app.cipher.ai/goto/aff08/q/U3oWO/d/s7twA>



Oppo	1,026	Nanchang Oufei Biological Identification Technology Co Ltd	209
Shenzhen Goodix	651	State Grid Corporation of China	203
BOE Technology Group Ltd	597	Huawei Technologies Co., Ltd.	166
Xiaomi Corporation	374	Fingerprint Cards AB	151
Vivo	364	Egis Technology Inc.	149
Samsung Electronics Co Ltd	335	Lenovo Group Ltd	147
Tianma Microelectronics Co., Ltd.	317	Suzhou Oufei Optics Technology Co., Ltd.	145
Nanchang Ou Fei Biological Identification Technology Company Limited	302	Apple Inc	144
OFILM Group Co., Ltd	293	Truly Opto-Electronics Ltd	138
China Star Optoelectronics Technology (CSOT)	221		
		TOTAL	5,932

02 | Who owns the strongest patents in the tech space?

PVIX

Average PVIX, by Organisation

The average PVIX score illustrating portfolio strength, split by organisation. The average score is across size and strength in order to enable a direct comparison by organisation.

PVIX is a measure of strength given to granted patent families with at least one forward citation, and is a score between 0 and 100 and measures strength based on geography and citations.

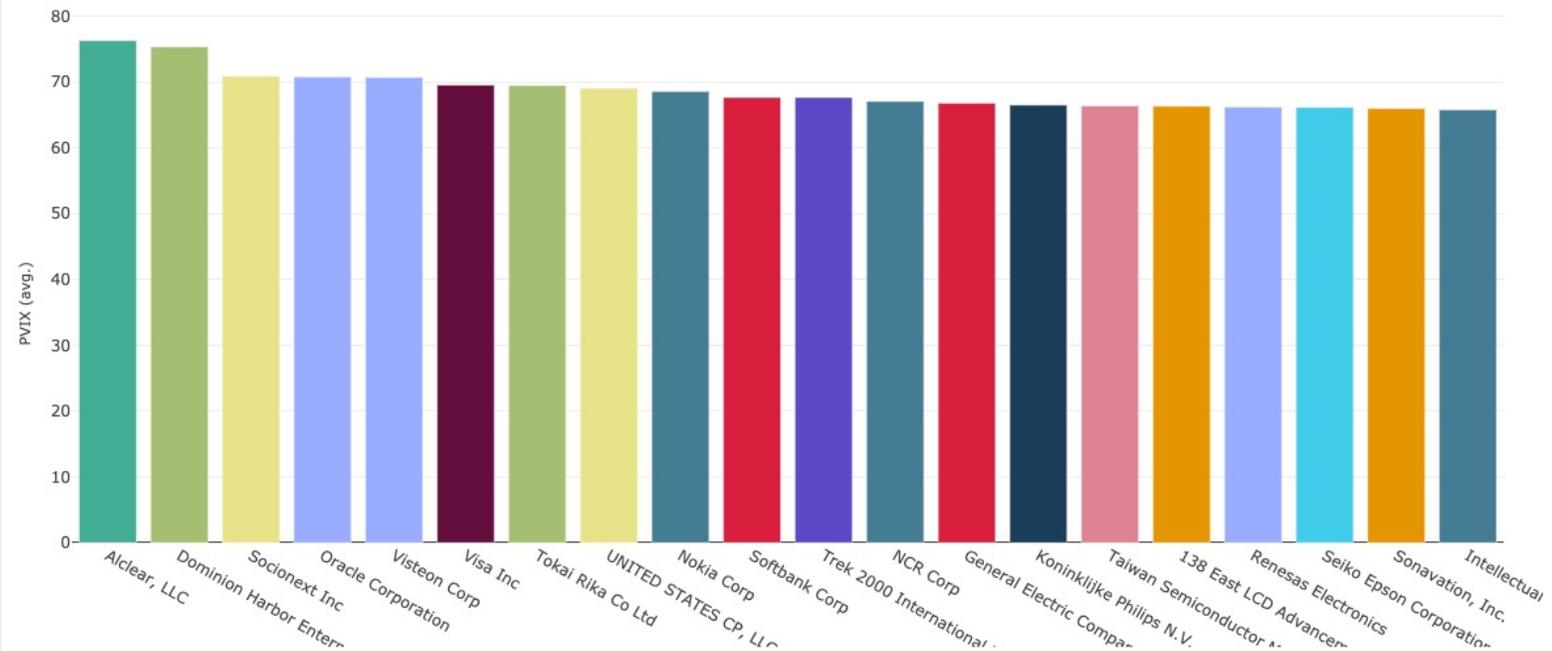
Sonavation is a company that I'm interested in, and if I click into the data point of the chart I can review the patent families in the portfolio that make up the relatively high average strength score that we see in this chart.

Findings

Whilst Sonavation score quite highly in terms of PVIX in the area Fingerprint scanning, this chart doesn't tell me whether they own 2 high scoring patent families or 222. Lets take a closer look.

Chart link: <https://app.cipher.ai/goto/478b3/g/Cclql/d/YaMNm>

Average PVIX, by organisation



The average PVIX score illustrating portfolio strength, split by organisation. The average score is across size and strength in order to enable a direct comparison by organisation.

03 | Who owns the strongest, most sizeable portfolio in the tech space?

PVIX

Average PVIX, by Organisation and size

The size comparison charts break apart the number of granted families an organisation has, and the strength (average PVIX score).

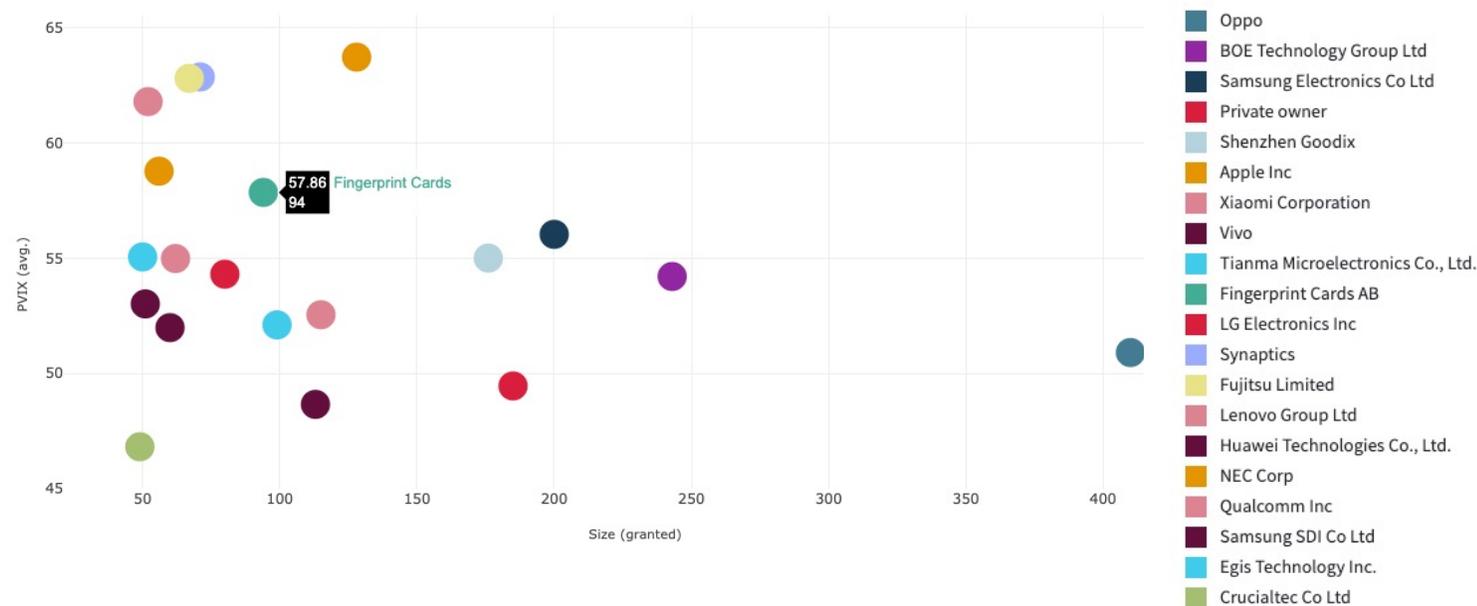
In this chart, I've chosen to see the top 20 largest fingerprint scanning portfolios *and* their relative average PVIX strength scores. In the last chart we saw the highest average PVIX scores overall, and it turns out that those organisations had relatively small portfolios in fingerprint scanning.

Findings

Whilst Sonavation score quite highly in terms of PVIX in the entire landscape report looking at Fingerprint scanning, their portfolio is also very small. In this chart I've noticed another target for acquisition who was on my radar. I can see that Fingerprint Cards not only have a relative high strength score, their portfolio is quite large too. Egis technology do not score as highly on strength but their portfolio is a similar size to Fingerprint Cards.

Chart link: <https://app.cipher.ai/goto/7196a/g/Cclql/d/cDCBY>

Average PVIX, by organisation & size



The average PVIX score by organisation and size. The size comparison charts break apart the number of granted families an organisation has, and the strength (average PVIX score).

04 | Reviewing an organisation's assets

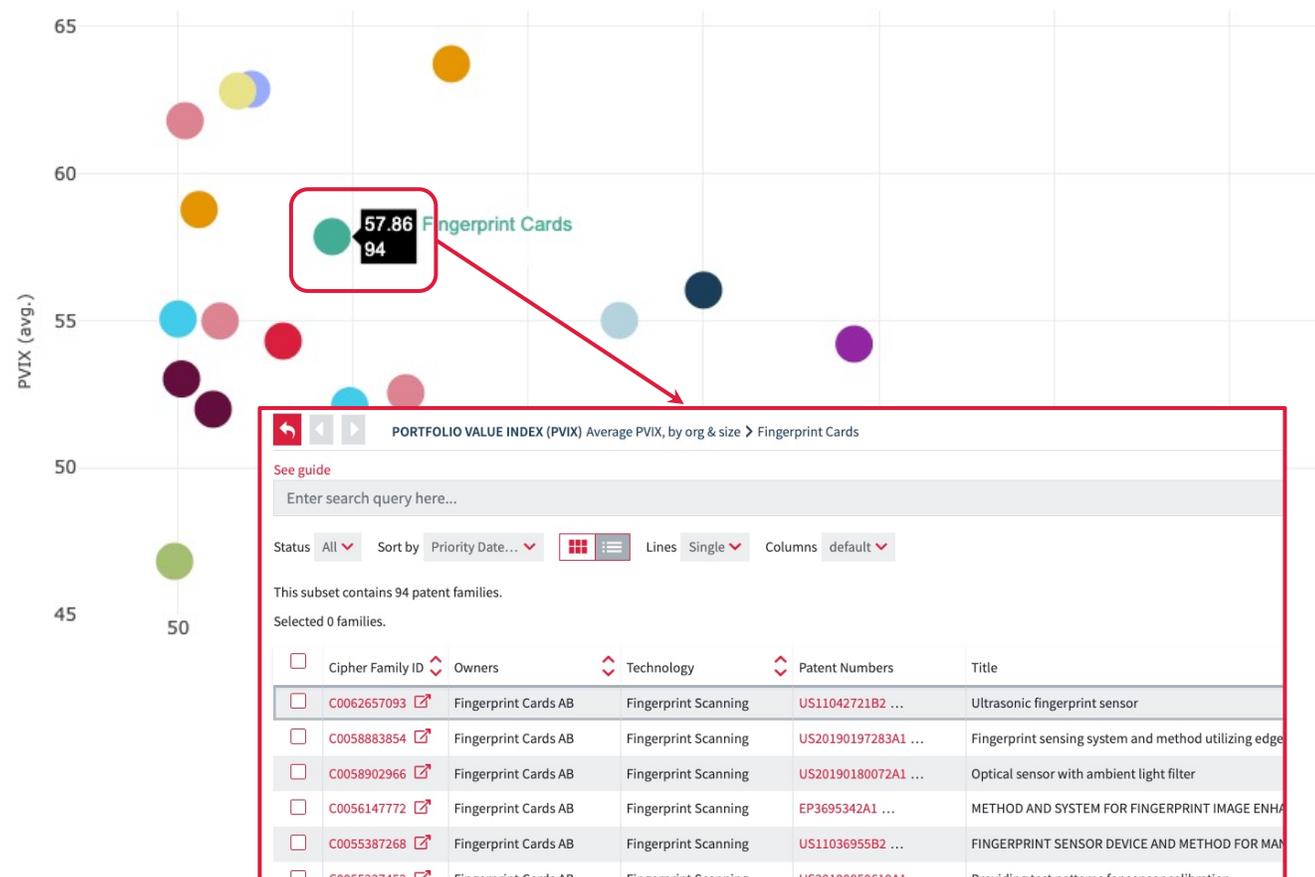
Do we understand what these are?

Patent Family List View

You can click through from any chart in Cipher, to review the underlying data.

Here we've clicked through from Fingerprint Cards granted assets with a PVIX strength score (from the **PVIX by org and size** chart) to review the families to answers:

- What do Fingerprint Cards own in this technology area?
- Rank their families by strength score high to low to review more foundational inventions
- All the numbers in the charts in Cipher are clickable. You may then wish to run a new report on the target to review their whole portfolio, not just those families in the tech area of the landscape report.



04 | Reviewing your target organisation's assets

How can I export this information?

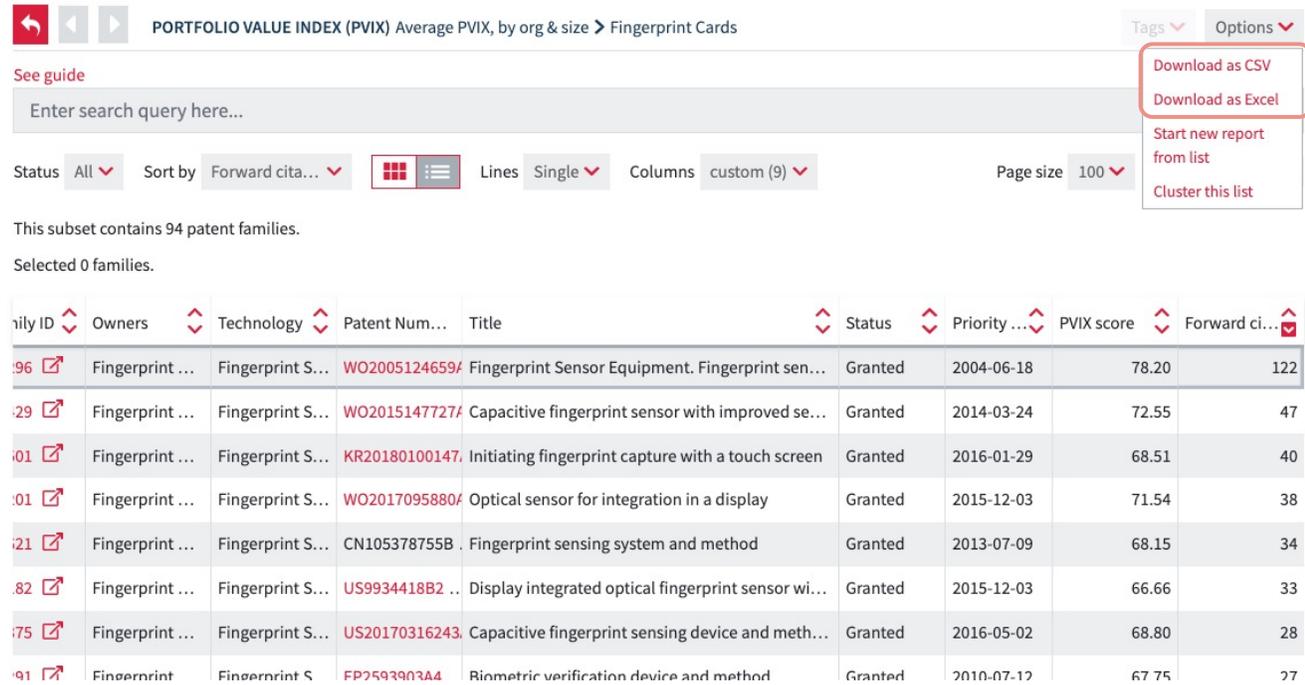
Patent Family List View and Exports

You can export data from the patent family list view in CIPHER, to csv or excel if you wish to review or share the list view information outside of CIPHER. (You can also share the entire CIPHER report via an email address).



Here we've clicked through from Fingerprint Cards AB's portfolio in one of the CIPHER Charts to review the individual PVIX score per patent family. You can add or remove columns in this view by selecting the columns drop down menu and making your selections such as PVIX, forward citations, cost, expiry date, publication date, pending/granted territories.

If you wish to export this information, select **options** in the top right, and **download as CSV** or **excel**.



The screenshot shows the CIPHER interface for the 'PORTFOLIO VALUE INDEX (PVIX) Average PVIX, by org & size > Fingerprint Cards'. The interface includes a search bar, status and sort filters, and a table of patent families. The 'Options' menu is open, showing 'Download as CSV', 'Download as Excel', 'Start new report from list', and 'Cluster this list'.

Family ID	Owners	Technology	Patent Num...	Title	Status	Priority ...	PVIX score	Forward ci...
96	Fingerprint ...	Fingerprint S...	WO2005124659/	Fingerprint Sensor Equipment. Fingerprint sen...	Granted	2004-06-18	78.20	122
29	Fingerprint ...	Fingerprint S...	WO2015147727/	Capacitive fingerprint sensor with improved se...	Granted	2014-03-24	72.55	47
01	Fingerprint ...	Fingerprint S...	KR20180100147/	Initiating fingerprint capture with a touch screen	Granted	2016-01-29	68.51	40
01	Fingerprint ...	Fingerprint S...	WO2017095880/	Optical sensor for integration in a display	Granted	2015-12-03	71.54	38
21	Fingerprint ...	Fingerprint S...	CN105378755B	Fingerprint sensing system and method	Granted	2013-07-09	68.15	34
82	Fingerprint ...	Fingerprint S...	US9934418B2	Display integrated optical fingerprint sensor wi...	Granted	2015-12-03	66.66	33
75	Fingerprint ...	Fingerprint S...	US20170316243	Capacitive fingerprint sensing device and meth...	Granted	2016-05-02	68.80	28
91	Fingerprint	Fingerprint S	FP2593903A4	Biometric verification device and method	Granted	2010-07-12	67.75	27

05 | What are the trends over time?

Portfolio Trends

Granted Patent families by organisation and year
 Count of patent families that are granted in each year. A family is counted each year it remains alive from its grant year.

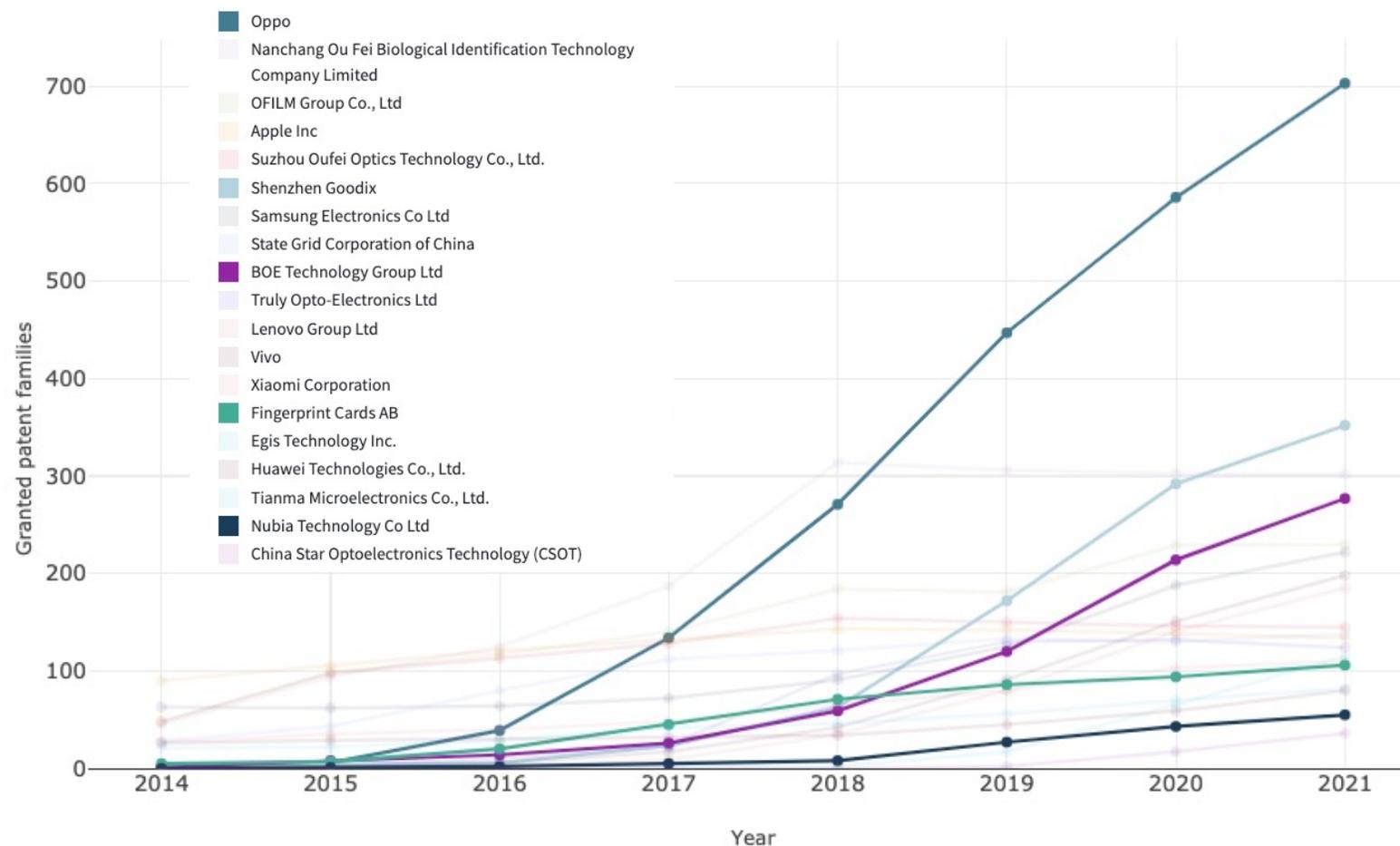
This chart can tell us if a target's granted portfolio is increasing or decreasing within the specific technology area. I selected the top 20 organisations in the last chart we looked at – high PVIX score and large size of portfolio so that I could review the trends data amongst them.

Findings

I have highlighted certain companies of interest in this chart to review the trends lines. Here we can see that Fingerprint card's portfolio has grown rapidly since 2015 whereas Egis Technology's has increased in size but not at the same rate, and their granted assets aren't as sizeable as Fingerprint Cards.

Chart Link:

<https://app.cipher.ai/goto/e9cbe/g/j7Fqb/d/OY4yA>



06 | Filter to Universities & Academic Institutes

Filter to Universities & Academic Institutes in your landscape report to look for acquisition targets, licensing and partnering opportunities

Once you've run the landscape report, click into the patent family list view icon in the top left of your report.

Then filter the results to academic institutes by adding the search term - Owner:(Univ* OR Acad* OR institu* OR school* OR college* OR ecole*).

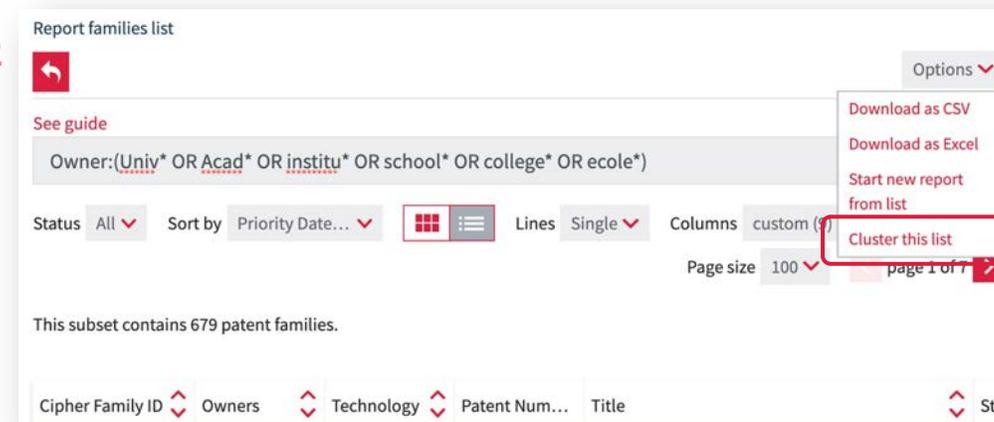
Select return and select to 'cluster this list'. You can then review all of the same metrics and review individual patent data to look for potential targets amongst Universities and academic institutes owning Fingerprint Scanning patents.

Report Link: <https://app.cipher.ai/report/67fd8b67b7>

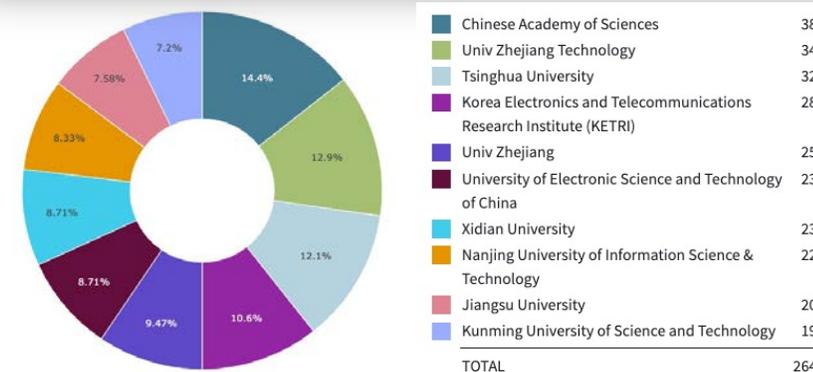
Step 1



Step 2



Step 3



Verifying and compare your Target in context to others

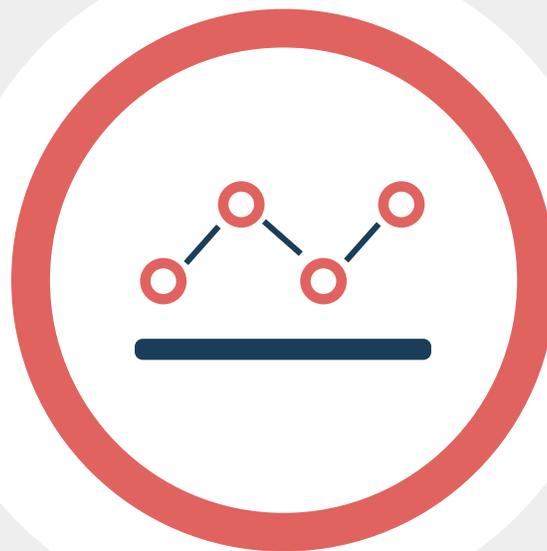
02

How Ciper can be used to verify and compare portfolios already found to:
suggestions for similar portfolios; to competitors; your own portfolio

Reviewing Targets already found

Run a new report on your selected target, and find organisations with a similar portfolio to understand your target in context

Run a new report on your selected target, and compare to relevant competitors you're already aware of



Cluster those patents to review technology areas of the whole target portfolio

Run a new report on your selected target, and compare to your own portfolio

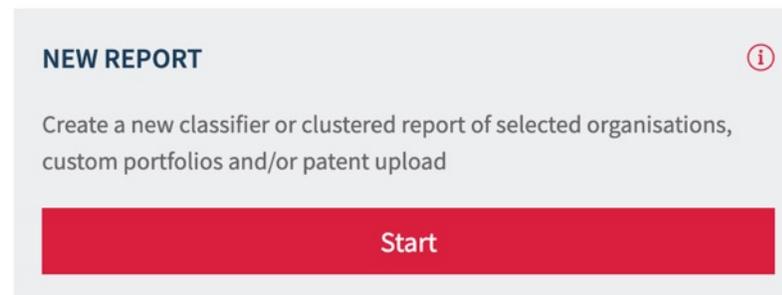
01 | Understand your target's portfolio in context

Why should I start with a new report to review my target against similar portfolios?

By running a report from the new report tile, you're able to select your target organisation and compare to any number of other organisations of interest. In this example we look for organisations with a similar portfolio to your target based on links in citations between the assets. You need to be sure you have the right target. *You're considering an acquisition and ask 'how do we know these are the companies we should be looking at?'. A Cipher report will identify other similar companies, and there are instances where our clients have bought one of the companies Cipher identified.*

- **Step 1** – Click the New report tile.
- **Step 2** – Type in the target organisation name. Select the tick to add the portfolio to your report. Then select the magnifying glass to the right of the org name to find similar portfolios.
- **Step 3** - Organisations with a similar portfolio (based on citations) to the target portfolio will then appear. This helps you to uncover unknown organisations with patents in the same tech space. On further review of this report you may find a more suitable target.

Step 1

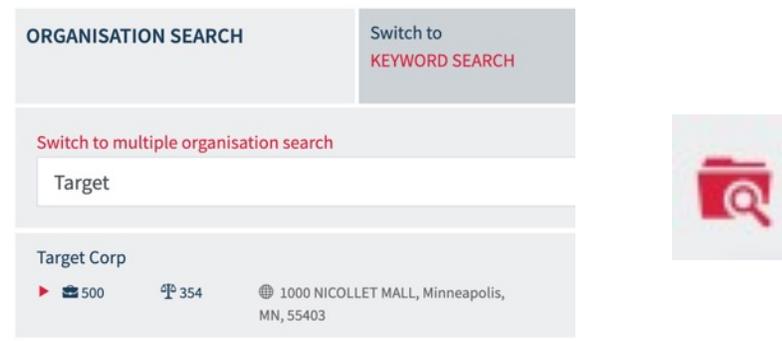


NEW REPORT ⓘ

Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload

Start

Step 2



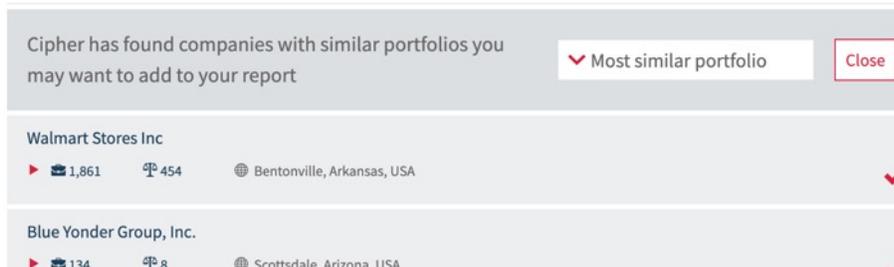
ORGANISATION SEARCH Switch to KEYWORD SEARCH

Switch to multiple organisation search

Target

Target Corp
 ▶ 500 354 1000 NICOLLET MALL, Minneapolis, MN, 55403

Step 3



Cipher has found companies with similar portfolios you may want to add to your report ▼ Most similar portfolio Close

Walmart Stores Inc
 ▶ 1,861 454 Bentonville, Arkansas, USA ✓

Blue Yonder Group, Inc.
 ▶ 134 8 Scottsdale, Arizona, USA ✓

02 | Grouping the target portfolio

How can I categorise the target's portfolio?

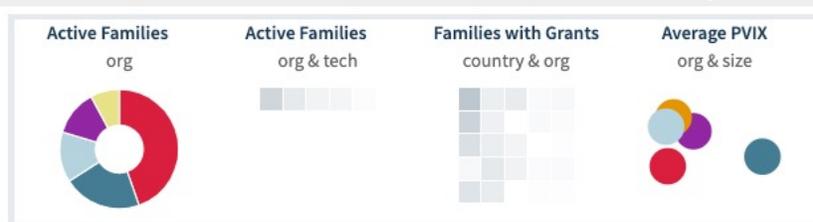
In CIPHER you can group the target portfolio into technology clusters and see how other companies compare to that. CIPHER clustering looks for similarities in the patents based on title, abstract, citations and CPC codes to group into these clusters.

Step 4 – Select ‘next’ to run your report.

(NB Ensure you don't apply any classifiers to your report to select your clustering options in the next window.)

Step 5 - Select your target portfolio to cluster their assets first, to see how the others read onto ‘Target Corps’ technologies.

Step 6 – Review the charts and metrics in CIPHER to review the portfolios in the same way we did in part one of this guide.



Step 4

IN REPORT

ORGANISATIONS CLEAR ALL

- Target Corp 🗑️
- Walmart Stores Inc 🗑️
- Blue Yonder Group, Inc. 🗑️
- United Parcel Service Incorporated 🗑️
- eBay Inc 🗑️
- SAS Institute 🗑️

TECHNOLOGIES RESET

SELECT CLASSIFIERS ✎

Next

Step 5

Clustering

[All]	Name
<input checked="" type="checkbox"/>	Target Corp
<input type="checkbox"/>	Walmart Stores Inc
<input type="checkbox"/>	Blue Yonder Group, Inc.
<input type="checkbox"/>	United Parcel Service Incorporated
<input type="checkbox"/>	eBay Inc
<input type="checkbox"/>	SAS Institute

	Walmart Stores	eBay	Target	SAS Institute	United Parcel	Blue Yonder Group	TOTAL
User interface, data processing apparatuses, computer implemented, computing device, web page	520	358	190	89	135	82	1,374
Display fixture, display unit, retail display, product display, display system	35	2	164	1	3	0	205
Account identifier, financial transaction card, transaction product, financial account, machine readable	12	2	68	0	1	0	83
Methods, document describes, material flow, mobile robots, fulfillment processes	31	0	16	0	4	1	52
Shopping cart, rear portion, pivotally mounted, plastic material, front portion	25	0	24	0	0	0	49
Video, video monitoring system, camera, trailer, surveillance system	6	2	10	0	1	0	19
Information, network, content storage servers, social media geotracker, database server	1	1	9	5	0	0	16
Fitted covering, skirt extending outwardly, peripheral elastic cord, upper panel defines, corner elastic bands	2	0	9	0	0	0	11
Testing, shoe fit, fit testing, testing device, textile	0	3	5	0	0	0	8
Unrelated	1,145	820	0	371	193	51	2,580
Next 4	0	0	5	0	0	0	5

03 | Run your target's portfolio against known competitors



Why should I start with a new report to review my target against known competitors?

By running a report from the new report tile, you're able to select your target organisation and compare to any number of other organisations of interest including known competitors. This is useful to understand where your targets portfolio fits in against known competitors which you may already be reviewing in your CIPHER competitor intelligence reports.

- **Step 1** – Click the New report tile.
- **Step 2** – Type in the target organisation name. Select the tick to add the portfolio to your report.
- **Step 3** – Continue to type and add in the known competitors to your report, or add them automatically from an organisation set that you've already created. Find out more [here](#). Select next to run report and choose your clustering options.

Step 1

NEW REPORT ⓘ

Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload

Start

Step 2

ORGANISATION SEARCH Switch to KEYWORD SEARCH Switch to ORGANISATION SETS Switch to PATENT UPLOAD

Switch to multiple organisation search

Target

Target Corp
500 354 1000 NICOLLET MALL, Minneapolis, MN, 55403

Step 3

IN REPORT

ORGANISATIONS ⓘ CLEAR ALL

Target Corp	✕
Splunk Inc	✕
Steelcase Inc.	✕
Catalina Marketing Corp	✕
Square Inc	✕

SAVED LISTS

MY LISTS

EU Supplier Tech firms

04 | Run your target's portfolio against your portfolio



How can I compare the target portfolio to mine to see how it compares?

In CIPHER you can group your own portfolio into technology clusters and see how your target compares to yours. CIPHER clustering looks for similarities in the patents but in this instance we will cluster your portfolio first, and see how the target compares to your technologies.

Step 1 - To achieve this type of report, start with the new report tile.

Step 2 – Don't apply any classifiers to your report to select your clustering options. Select your portfolio to cluster your assets first (Company X), to see how the target reads onto your technologies.

Step 3 – You can review all of the chart metrics in CIPHER to compare age, size, strength and cost including others. You can even review the litigation/risk of the target portfolio.

Step 1

NEW REPORT ⓘ

Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload

[Start](#)

Step 2

Clustering

[All] Name

Target Corp

Company X

	Target	American Greetings	TOTAL
User interface, data processing apparatuses, computer implemented, computing device, web page	190	5	195
Display fixture, display unit, retail display, product display, display system	164	24	188
Account identifier, financial transaction card, transaction product, financial account, machine readable	68	42	110
Shopping cart, rear portion, pivotally mounted, plastic material, front portion	24	0	24
Methods, document describes, material flow, mobile robots, fulfillment processes	16	0	16
Video, video monitoring system, camera, trailer, surveillance system	10	0	10
Fitted covering, skirt extending outwardly, peripheral elastic cord, upper panel defines, corner elastic bands	9	0	9
Information, network, content storage servers, social media geotracker, database server	9	0	9
Testing, shoe fit, fit testing, testing device, textile	5	0	5
Unrelated	0	58	58

Combine your portfolio with your acquisition target

03

Combining portfolios allows you to visualise the impact of the acquired assets to your own, in comparison to other options for acquisition, so you can answer questions such as ‘which acquisition has the most impact on my portfolio?’

Combine your portfolio with your acquisition target

Run a new report to combine multiple target portfolios to your own



Once you've decided on your target, cluster their portfolio to yours to see technology areas that your portfolio will grow in

Evaluate how an acquisition will impact your overall position

Include 'unrelated' to the report and Cluster those patents which are new for your business

01 | Reviewing your target organisation's assets

Take it one step further

There is also an option to combine portfolios in CIPHER. This would allow you to see what your portfolio combined with another would look like instead of imagining the combined portfolio.

Step 1 – Start with the new report tile.

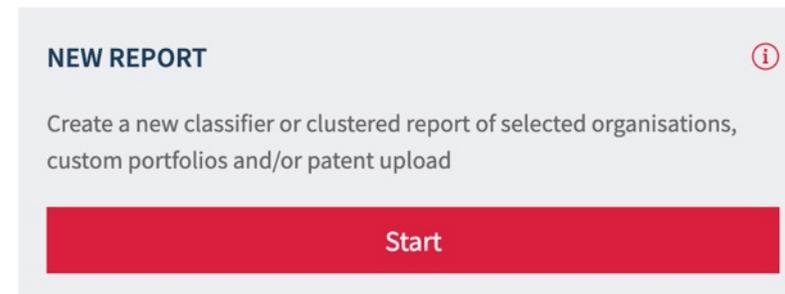
Step 2 - Search for your organisation. In this example, I am BOE Technology. When selecting the organisation by selecting the tick,  hold down shift. This gives you the option to combine portfolios.

Step 3 – Next, search for the portfolio you would like to combine with BOE and select the tick to add them. Then give the combination an appropriate name. Click Add.

The combined portfolios will now be treated as one in your CIPHER report.

You can add more organisations or more combined organisations and run the report as usual. It is useful to add your portfolio on its own to the report, to compare to your existing position.

Step 1



NEW REPORT ⓘ

Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload

Start

Step 2



CUSTOM GROUP

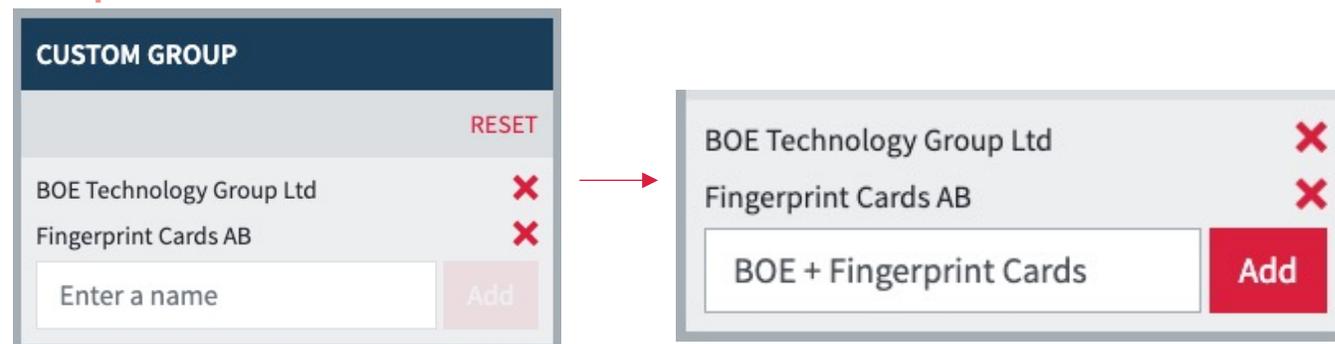
RESET

BOE Technology Group Ltd ✕

Enter a name **Add**

Handy Hint When you do this type of comparison, it can also be for a set of assets rather than a whole portfolio. You may have a set of patents to upload or would like to focus in on a portion of a portfolio. Contact a member of the support@cipher.ai team to learn more.

Step 3



CUSTOM GROUP

RESET

BOE Technology Group Ltd ✕

Fingerprint Cards AB ✕

Enter a name **Add**

BOE + Fingerprint Cards **Add**

02 | How do the target portfolios impact strength

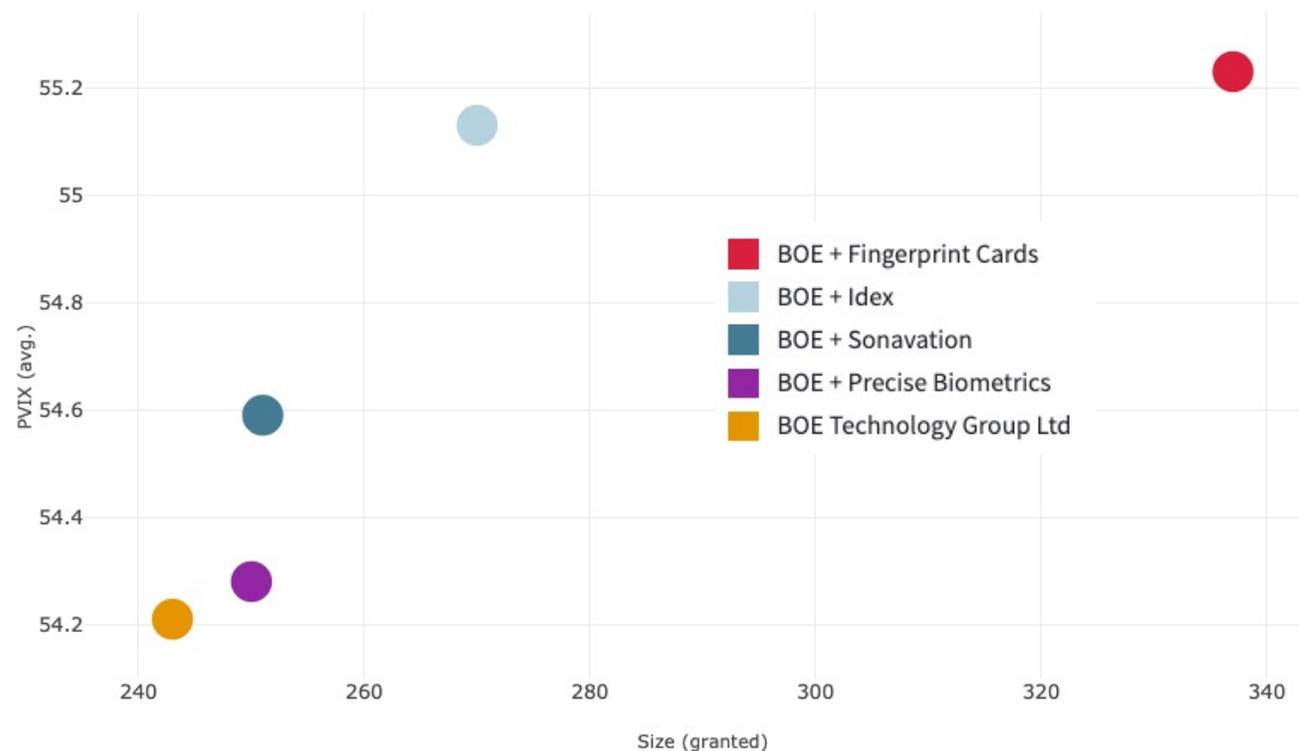
Take it one step further

The combined portfolio 'BOE + Fingerprint Cards' has the biggest impact on strength compared to the other target organisations and would impact the size of the portfolio the most.

Here is an example of what such a report can look like:

<https://app.cipher.ai/goto/93b6b/g/Cclql/d/cDCBY>

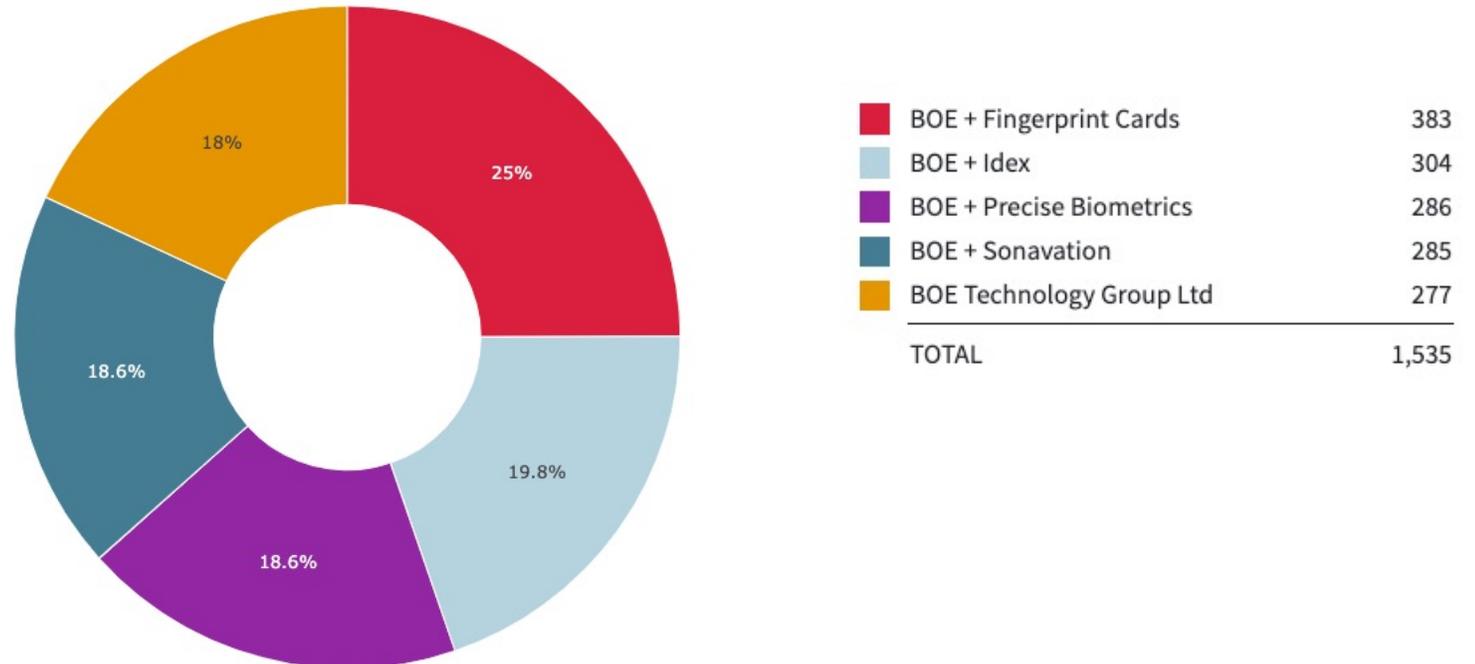
Average PVIX, by organisation and size



The average PVIX score by organisation and size. The size comparison charts break apart the number of granted families an organisation has, and the strength (average PVIX score).

03 | How do the target portfolios impact granted assets

Granted Families, by organisation



Take it one step further

The combined portfolio 'BOE + Fingerprint Cards' also has the biggest impact on the number of granted fingerprint assets in the combined portfolio to BOE. Fingerprint Cards would add over 100 granted assets to the BOE portfolio in this area which currently stands at 277.

Chart Link:

<https://app.cipher.ai/goto/93b6b/g/U3oWO/d/38IGC>

Currently granted patent families by organisation.

04 | What territory protection do the target portfolios offer

Take it one step further

The combined 'BOE + Fingerprint Cards' portfolio offers a wider geographical coverage however this also likely means that Fingerprint cards are spending more on their portfolio than the others. I can easily review the detail on spend per portfolio by accessing the cost charts in Cipher.

Chart Link:

<https://app.cipher.ai/goto/33368/g/5zXrl/d/AWdmd>

Families with Grants, by country and org

	China	United States	EPO	Germany	United Kingdom	France	Taiwan	Ireland	Belgium	Japan	Next 44	TOTAL
BOE + Fingerprint Cards	330	242	19	19	19	19	24	15	14	21	96	818
BOE + Idex	277	166	11	11	10	8	6	7	7	6	33	542
BOE + Precise Biometrics	268	146	5	5	4	4	2	4	4	1	16	459
BOE + Sonavation	270	147	4	4	4	4	3	4	4	2	12	458
BOE Technology Group Ltd	268	139	4	4	4	4	2	4	4	1	10	444
TOTAL	1,413	840	43	43	41	39	37	34	33	31	167	2,721

Number of patent families that have at least one current grant in the respective country, by organisation. [Help centre article](#)

05 | What is the average yearly cost of the combined portfolios?

Take it one step further

The combined 'BOE + Fingerprint Cards' portfolio presents the highest average yearly cost, however if we look back at the increase in granted assets for Fingerprints Cards in the last three years we can see a sharp increase. This would incur high prosecution costs.

You can see how CIPHER allows you to not only review a portfolio in context and gain a more rounded view, but also allows you to understand the impact on your own portfolio.

Average cost Chart Link:

<https://app.cipher.ai/goto/3a38f/g/selected/d/XR08r>

Trends - Granted families Chart Link:

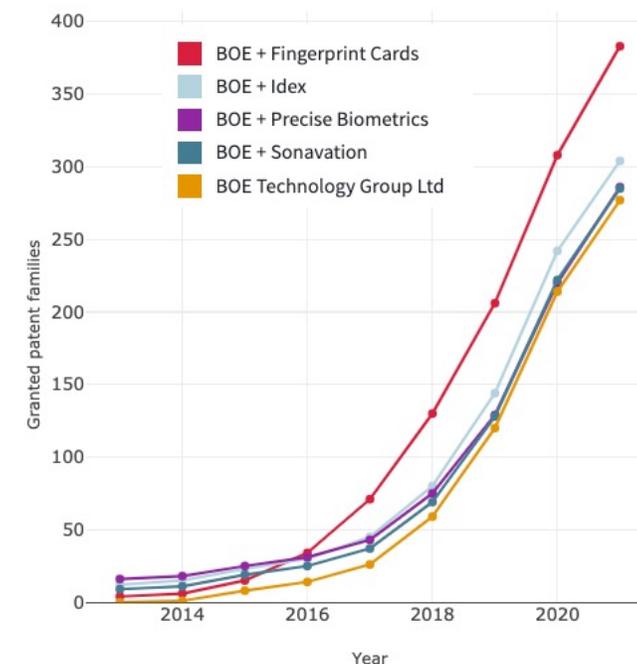
<https://app.cipher.ai/goto/3a38f/g/j7Fqb/d/OY4yA>

Three year average cost, by org and technology

	Fingerprint Scanning	TOTAL
BOE + Fingerprint Cards	\$4.8m	\$4.8m
BOE + Idex	\$3.7m	\$3.7m
BOE + Sonavation	\$3.5m	\$3.5m
BOE + Precise Biometrics	\$3.5m	\$3.5m
BOE Technology Group Ltd	\$3.5m	\$3.5m
TOTAL	\$19.1m	\$19.1m

Average yearly cost for the last 3 full years. [Help centre article](#)

Granted families, by org and year



06 | Run your target's portfolio against your portfolio



How can I compare the target portfolio to mine to see how it compares to my current technology areas?

In CIPHER you can group your own portfolio into technology clusters and see how your target compares to yours. CIPHER clustering looks for similarities in the patents but in this instance we will cluster your portfolio first, and see how the target compares to your technologies.

Step 1 - To achieve this type of report, start with the new report tile.

Step 2 – Don't apply any classifiers to your report to select your clustering options. Select your portfolio to cluster your assets first (BOE Tech), to see how the target reads onto your technologies.

Step 3 - See how your target compares to your portfolio and your technology areas.

Step 1

NEW REPORT ⓘ

Create a new classifier or clustered report of selected organisations, custom portfolios and/or patent upload

[Start](#)

Step 2

REPORT NAME

BOE Tech, Fingerprint Cards

ORGANISATIONS

Clustering

[All] **Name**

BOE Technology Group Ltd

Fingerprint Cards AB

Step 3

	BOE Tech	Fingerprint Cards	TOTAL
Light emitting, thin film transistor, LCDs, light guide plate, liquid crystal layer	21,728	54	21,782
Shift register, light emitting device, LEDs, LCDs, gate driving circuit	6,713	28	6,741
Touch control, cell touch panel, touch display device, touch base plate, touch electrode layer	4,243	58	4,301
Storage medium, three dimensional image, software, image processing device, virtual reality device	1,151	7	1,158
Mask plate, evaporation coating device, vapor deposition, magnetron sputtering apparatus, pixel arrangement structure	1,067	0	1,067
Next 13	1,843	63	1,906
TOTAL	36,745	210	36,955

07 | Review technology areas that your portfolio will grow in

Cipher clustering

By clustering the BOE portfolio first and seeing how Fingerprint Cards reads onto this, tells you where Fingerprint Cards will supplement the overall BOE portfolio as defined by your technology clusters.

BOE have a significant portfolio size, however if you looked after a particular part of the BOE portfolio, you could generate a report just for the assets you're interest in (for example, a patent upload) to perform the same comparison as you see here but at a more granular level.

Chart Link:

<https://app.cipher.ai/goto/171bc/g/U3oWO/d/P11hY>

Active families, by org and tech

BOE technology groups

	BOE Tech	Fingerprint Cards	TOTAL
Light emitting, thin film transistor, LCDs, light guide plate, liquid crystal layer	21,728	54	21,782
Shift register, light emitting device, LEDs, LCDs, gate driving circuit	6,713	28	6,741
Touch control, cell touch panel, touch display device, touch base plate, touch electrode layer	4,243	58	4,301
Storage medium, three dimensional image, software, image processing device, virtual reality device	1,151	7	1,158
Mask plate, evaporation coating device, vapor deposition, magnetron sputtering apparatus, pixel arrangement structure	1,067	0	1,067
Next 13	1,843	63	1,906
TOTAL	36,745	210	36,955

08 | Review technology areas of your target, that are new to your business

Cipher clustering

By clustering the BOE portfolio first and seeing how Fingerprint Cards reads onto this, it also results in the creation of an ‘unrelated’ group. This means ‘what patent families do Fingerprint Cards have, that are unrelated to your technology clusters?’. It essentially shows you any assets that would be new to your business through an acquisition of the whole Fingerprint Cards portfolio.

You can click into the ‘60 families’ here to understand in more detail what they are. Go to slide 11 to see how you can also generate a new clustered report from this list of 60 assets to learn more about them.

Chart Link:

<https://app.cipher.ai/goto/9a6a6/g/U3oWO/d/P11hY>

Active families, by org and tech

	BOE Tech	Fingerprint Cards	TOTAL
Light emitting, thin film transistor, LCDs, light guide plate, liquid crystal layer	21,728	54	21,782
Shift register, light emitting device, LEDs, LCDs, gate driving circuit	6,713	28	6,741
Shopping cart, escape route, navigation system	51	1	52
Mechanical arm, main body, mechanical hand, grabbing device, vacuum suction	52	0	52
Grinding device, base plate, guide rail, grinding head, milling apparatus	48	0	48
Unrelated	0	60	60
TOTAL	36,745	210	36,955

Fingerprint Cards assets unrelated to BOE technology groups



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