6   The Collaboration module

6.1   What is the Collaboration module?

The Collaboration module is where you can evaluate the existing research collaborations of your institution. Start with a worldwide view of your collaboration landscape. Then zoom in to individual collaborating institutions and researchers anywhere in the world.

You can also use this module to identify new opportunities for collaboration in your own country or worldwide. See which institutions and researchers your institution isn't yet collaborating with.

All data can be filtered by a specific subject area. Say you are only interested in collaboration within the field of chemistry. Then you can view only institutions and researchers that have co-authored chemistry publications with your institution.
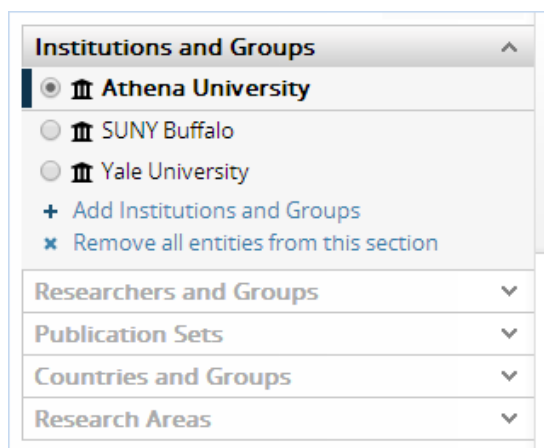
The data can be exported, and you can review the underlying list of publications behind every publication count.

6.2   Working with the Collaboration module

6.2.1   Selecting an institution

Use the entity selection panel on the left-hand side to select the institution you want to view.
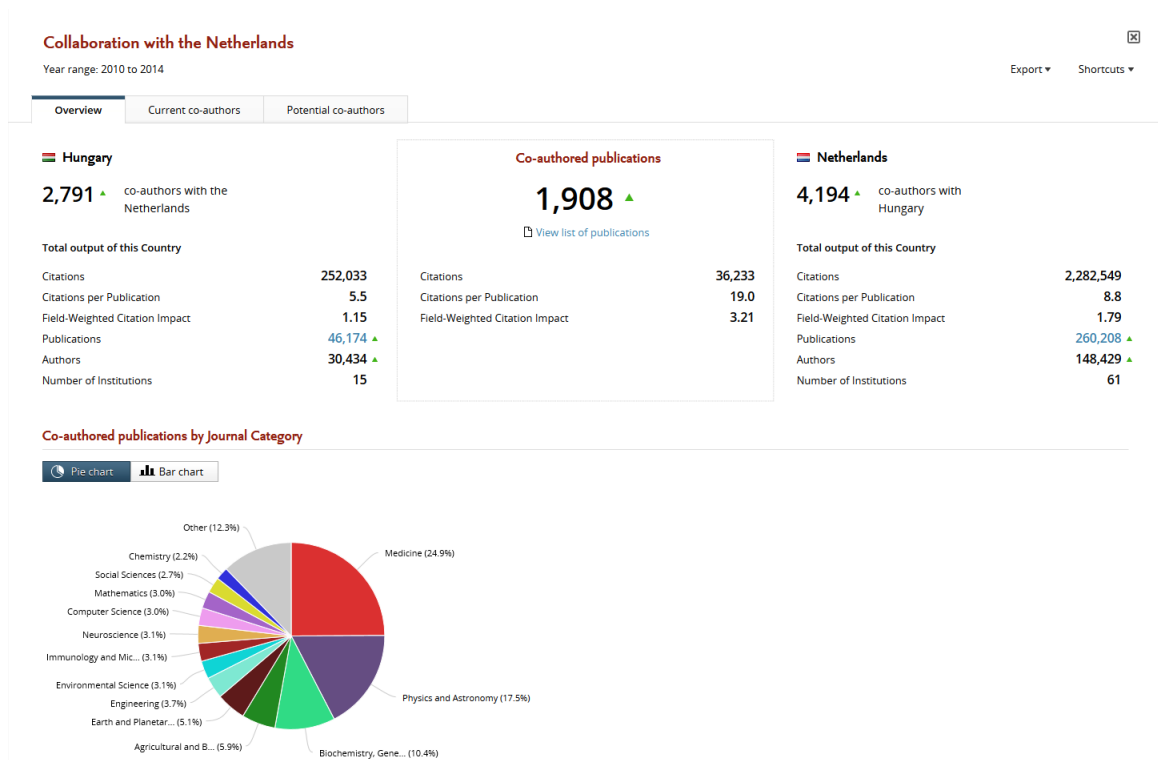
If the institution you want is not listed, click on the "Add" link and start typing the name, then click on the name when it appears in the search results.

6.2.2   Selecting a country

SciVal allows you to explore international collaboration on a country level. Find out who your country collaborates with, how many co-authored publications you have, what the impact of the co-authored publications is, and much more.

To use this feature go to the Collaboration module and select a desired country from the select panel. Select a country and use the map view to zoom in on the region you are interested in. Once you find a collaborating country you can see the partnership in detail.

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Question you are able to find answers for:

1. How many co-authored publications do we have?

2. What is the citation impact of our co-authored publications?

3. Who are the current co-authors from the collaborating countries?

4. Who are the potential co-authors in the collaborating countries?

You can alternatively create a research area in SciVal and filter the collaborating countries by that research area or any other Scopus journal category to find out what your common impact is within a particular field of research.

6.2.3 Selecting a year range

You can view publication data for a period of either three or five years. Use the year range selector at the top of the page to select the desired year range.

Optionally, you can also include the current year and future years. However, you may want to exclude this because, by the end of the current year, Scopus has only received and indexed a certain portion of the current year's journals from other publishers.
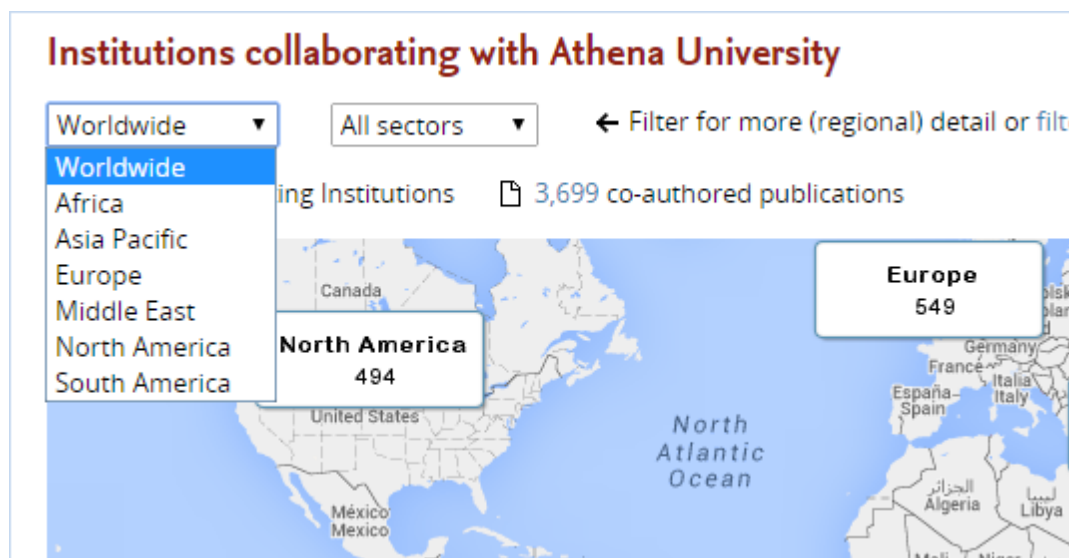
6.2.4 Selecting a region, country or sector

You can limit the list of institutions shown to a specific world region or country. This will apply to both the "Current collaboration" and "Potential collaboration" views, and to both the Map and Table views.
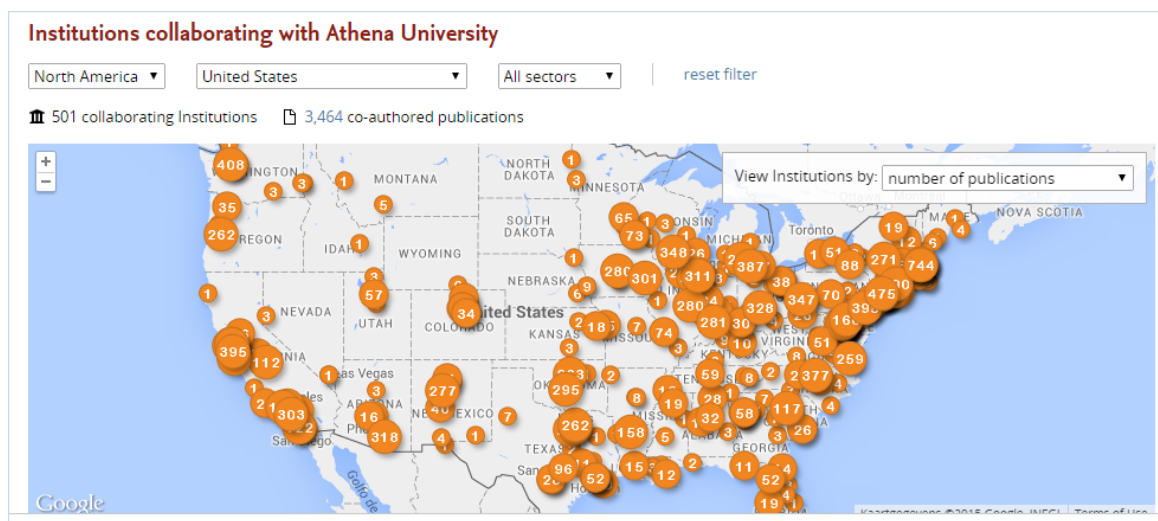
In addition, you can filter the list of institutions by sector. For instance, you can choose to view only institutions in the corporate sector, or only institutions in the medical sector.

You can also combine the geographical and sector selections. For example, you could choose to view only corporations in France, or only medical institutions in North America.

Select a region. From the drop-down menu marked "Worldwide", select the region you would like to view, for instance North America, Asia Pacific or Europe. In Map view, you can also click on one of region markers that are shown on the map when you are zoomed out to worldwide view.
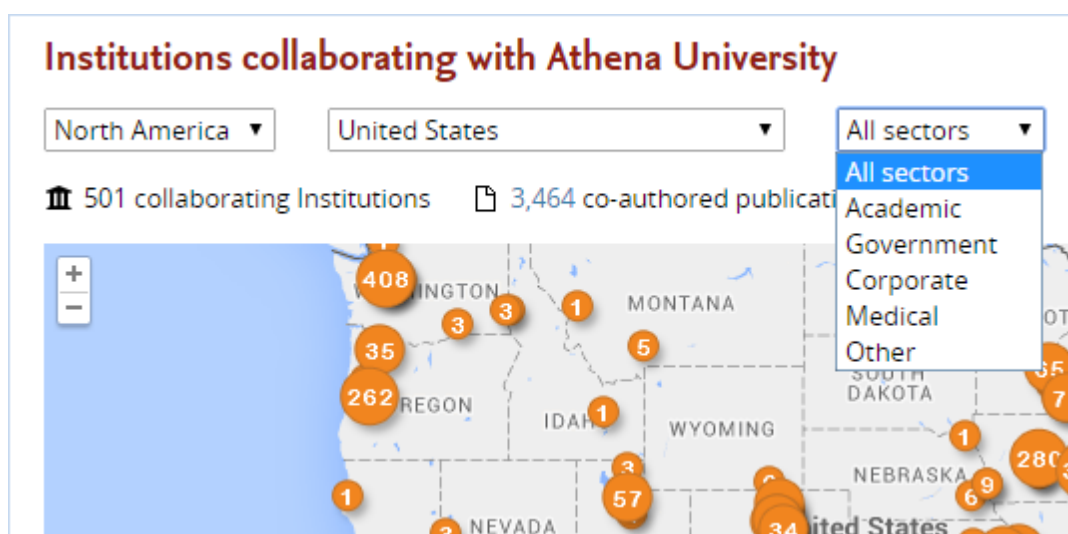

Select a country. Start by selecting the region of the country you want from the leftmost drop-down menu, A second drop-down menu now appears that lets you pick the country. For example, to select the United States, select "North America" from the first menu, then select "United States" from the second menu. In Map view, you can also click on one of blue-on-white country markers that are shown on the map after you have zoomed in to a particular region. To return to region level, select "All countries" from the country menu.

Select a sector. Use the rightmost drop-down menu to select a specific sector. SciVal uses 5 organization types: Academic, Corporate, Government, Medical, and Other. These are composed of the following Scopus organization types:

- Academic: university, college, medical school, and research institute

- Corporate: corporate and law firm

- Government: government and military organization

- Medical: hospital

- Other: non-governmental organization

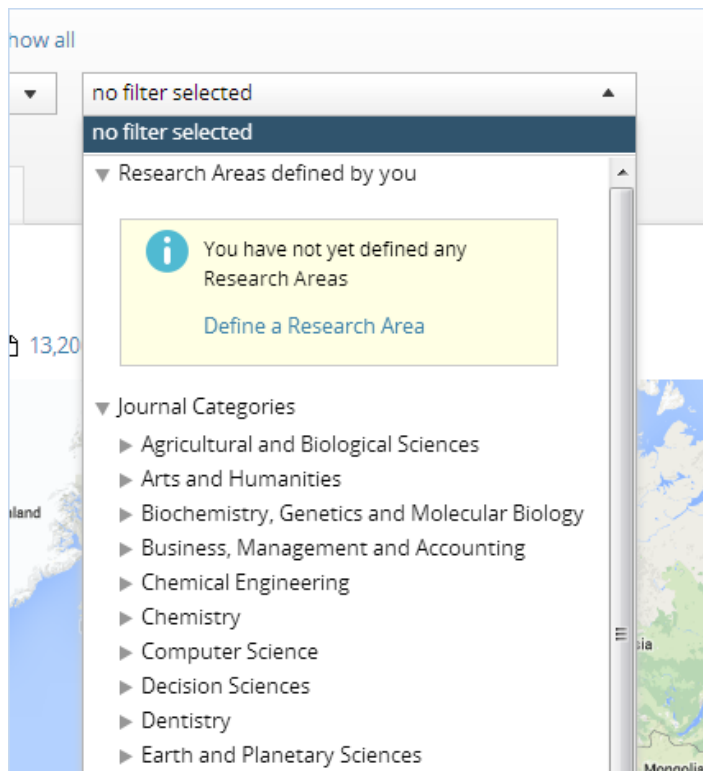## 6.2.5 Filtering by journal category or research area

Interested in evaluating or comparing your performance within a specific discipline? You can choose from 27 categories and 334 subcategories in the Scopus journal classification. Or use a different journal classification.

1. Use the filter dropdown menu at the top of the page to select a specific journal category.

2. The subcategories appear when you click on the arrow in a category.

Filter by research area. You can also filter by research areas that you have defined yourself. These can be as granular or interdisciplinary as you like.

1. Select your institution from the entity selection panel on the left-hand side.

2. Use the filter dropdown menu at the top of the page to select a specific research area.

3. If you have not yet defined the research area, click on "Define a Research Area" in the filter menu.
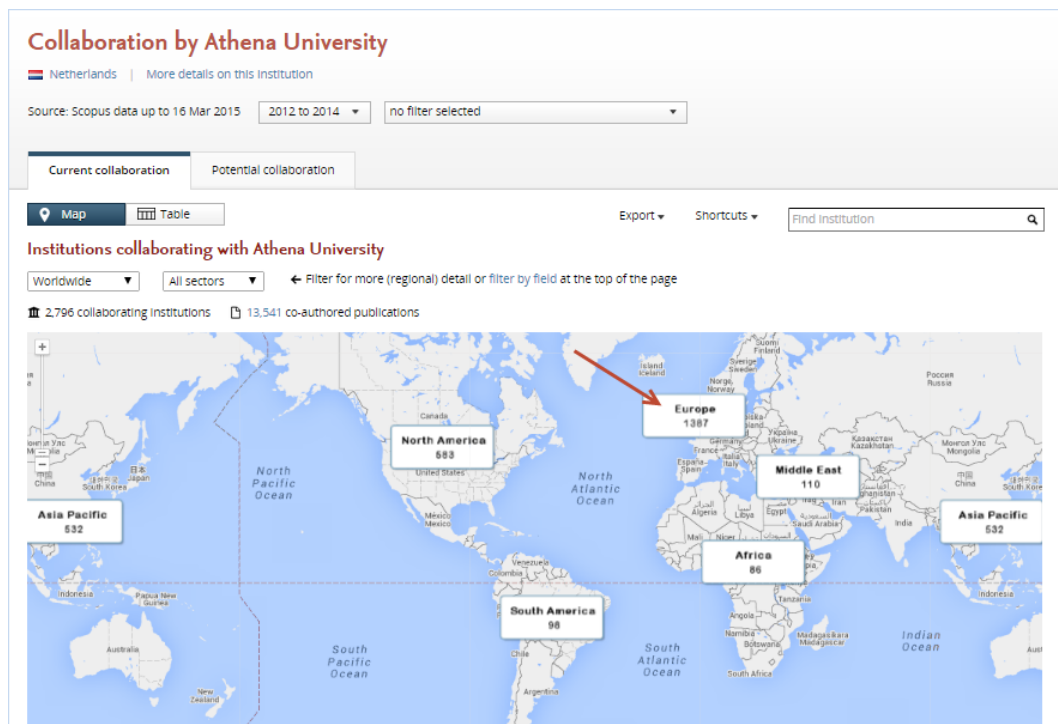

6.2.6 Working with the map

Zooming in and out. You can use the zoom control in the top left corner of the map to zoom in and out. You can also double-click on the map to zoom in further.

Zoom in on a region. At world level, the map gives you an overview of your global collaboration landscape.

- There are markers on the map for each of the world regions (Asia Pacific, North America, South America, Europe, Middle East, and Africa). These markers show you how many collaborating institutions there are in each region.
- Click on one of the region markers at world level to zoom in to that region.
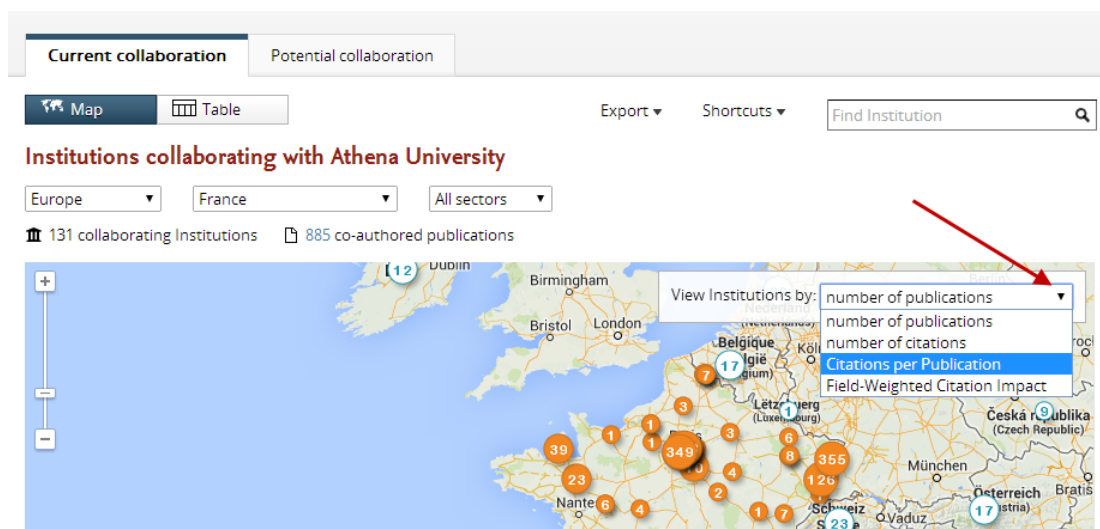
Zoom in on a country. After zooming in on a region, you see a number of round markers for each of the countries in that region.

- These country markers display the number of collaborating institutions in each country.
- Click on a country marker to zoom into that country.

Zoom in on an institution. You can now click on any of the institutions. A pop-up window opens with full details on the collaboration with that institution.

View citation impact. By default, the number of co-authored publications for each institution is shown, but you can also see the citation impact of those collaborations. Use the drop-down menu in the top-right corner of the map to switch to number of citations, Citations per Publication or Field-Weighted Citation.

6.2.7 Working with the table

Instead of the map view, you also see your institution's (potential) collaborating institutions in a tabular list view.

In "Current collaboration" this table view shows the top 100 collaboration institutions, by number of publications. You can use the dropdown menus at the top to view the top collaborating institutions in a specific region or country.

- You can change the sort order of the table by clicking on any of the column headings.

- You can use the drop-down menu to switch from citations to a different metric for citation impact.

- Click on the name of an institution for full details of the collaboration with that institution

- Click on the number of co-authored publications to view the list of publications

Use the Export menu to export the full list of collaborating institutions to a spreadsheet file.
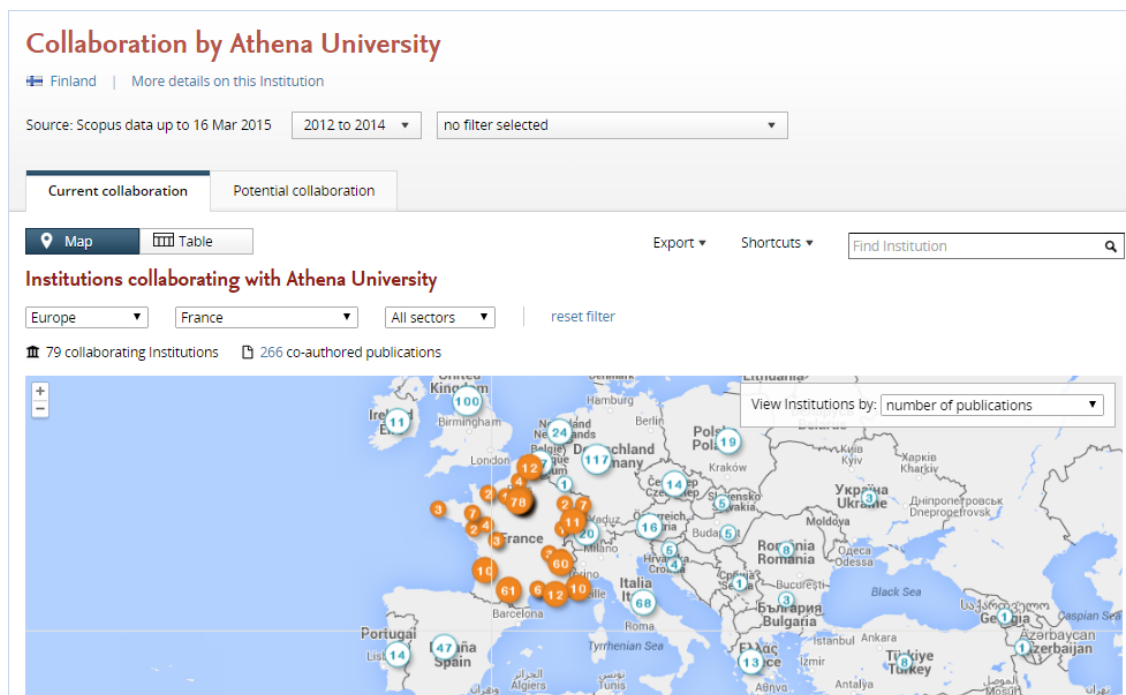
6.3 How can you use the Collaboration module?

6.3.1 Identify the collaboration partners of your institution

Get an overview of your collaboration landscape. The map view in Current collaboration gives you a global overview of the collaboration partners of your institution. You can then zoom in to a specific country. For example, to see your collaboration partners in France:

1. Select your institution from the entity selection panel on the left-hand side.

2. Go to "Current collaboration" and select the Map view

3. Click on the Europe marker to zoom in and see all the European countries where collaboration with your institution has taken place.

4. Click on the round marker shown in France to zoom in and see all collaborating institutions and researchers in France. By default, the number of co-authored publications for each institution is shown, but you can also see the citation impact of those collaborations. Use the drop-down menu in the top-right corner of the map to switch to number of citations, Citations per Publication or Field-Weighted Citation.

5. Switch from map to table view to see the collaborating institutions in France in a tabular list view. Click on one of these institutions to explore the collaborating with that institution in more detail.

6. Go to the Export menu to export the full list of collaborating institutions to a spreadsheet file.

7. To view collaboration in France within a particular sector (such as corporate or medical), select the sector from the rightmost olf the drop-down menus along the top of the map.

Measure the impact of your collaborations. The table view lets you compare institutions by the number of publications co-authored with each. You can also evaluate the impact of your collaborations using metrics such as number of citations or Field-Weighted Citation Impact.

View your collaborations within a specific field of research. Do you want to see the collaborations of your institution within a specific field of research? Then select a filter from the dropdown menu at the top of the page. For example, to see collaboration within chemistry only, choose Chemistry from the menu.

- You can choose from 27 categories and 334 subcategories in the Scopus journal classification. Or use a different journal classification.
- You can also define your own research areas, which can be as granular or interdisciplinary as you like.

6.3.2 Evaluate a collaboration partner in detail

Click on any institution in either map or table view. You can now zoom into that institution and look at your collaboration with that institution in much greater detail.
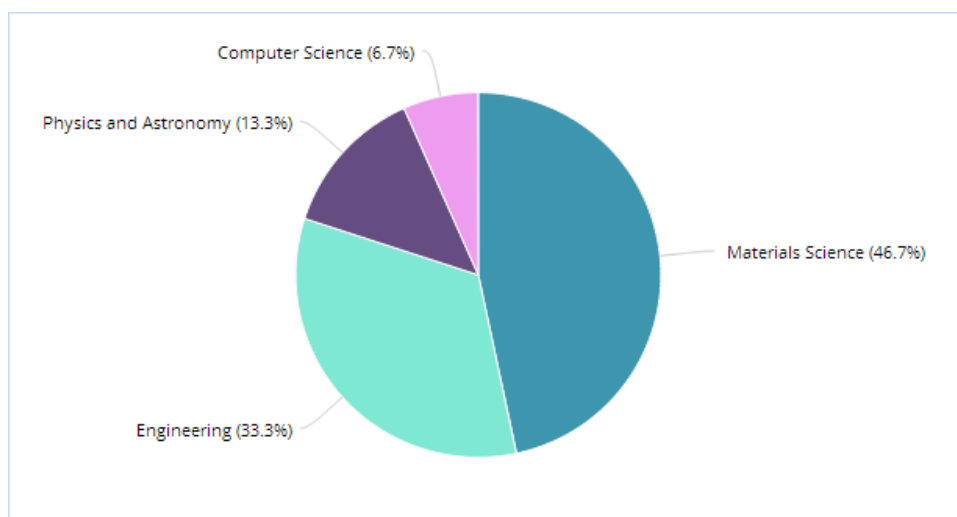
If you've filtered the data by a journal category or research area, you will see only the collaboration with that institution in the field of research you've selected.

Compare the co-authored publications to the overall output of the institutions. At the top of the pop-up window, you can compare the co-authored publications to the total output at each institution.

- Which is the most active and most cited of the two institutions?

- Do the co-authored publications have more citation impact than the individual institutions' overall publication output?

View the list of co-authored publications. The pie chart in the pop-up window gives you a breakdown of the co-authored publications by journal category. In which disciplines did most of the collaboration occur?

You can also view this as a bar chart, which lets you compare the co-authored publications by journal category to the total output of each institution by journal category.

Click "View list of publications" for the full list of co-authored publications.

- The filter options will show you a breakdown of the publications – by author, institution, publication

year, or keyword, for instance.

- Use the filter options to slice and dice the list in various ways.

Explore the list of co-authors. Go to the "Current co-authors" tab to drill down to the full list of co-authors, both at your institution and at the collaborating institution. This lets you see which researchers have co-authoring publications, and which of those collaborations had the most citation impact.

- Click on a researcher's name for more details on that researcher's publication career.
- Click on the arrow next to each name to see their co-authors at the other institution.

- Use the Export menu to export the complete list of co-authors to a spreadsheet file.

Identify potential new co-authors. Go to the "Potential co-authors" tab to see which researchers at each institution are *not* yet collaborating with the other institution. Here, you can identify potential matches between researchers at your institution and researchers at the other institution.

- The "Potential co-authors" tab lists the top 100 authors at each institution, by number of publications, who are not yet collaborating with the other institution.
- The list is available both for your institution's current collaboration partners (institutions where at least one researcher is collaborating institution), and for institutions where no one is collaborating with your institution yet.
- This view is particularly useful when filtering by a specific research area or journal category

Other ways to evaluate a collaboration partner. Use the Shortcuts menu in the institution details pop-up to examine a collaboration partner in even more detail. You can:

- get a high-level overview of the institution in the Overview module
- view and compare metrics for that institution in Benchmarking

- see the collaboration partners of that institution in the Collaboration module

6.3.3 Identify potential new collaboration partners of your institution

The "Potential collaboration" tab can be used to identify potential new opportunities for collaboration. This view is similar in many ways to the "Current collaboration" view:

- You can see these institutions in either map or table view, and zoom in from the world to a particular region or country.
- You can also use the Export menu to export the list of institutions to a spreadsheet file.

This view shows you institutions not yet collaborating with your institution. These institutions did not co-author any publications with your institution within the selected year range and subject area (journal category or research area).

The potential new collaboration partners are arranged by their total publication output, but you can also see their citation impact. This allows you to quickly spot the most suitable potential new collaboration partners.

View potential collaboration partners within a specific field of research. The "Potential collaboration" view is most useful when you filter the data by a particular field of research.

Say you are only interested in collaboration within the field of chemistry. Then you can view only institutions that have are active within chemistry, but have not yet co-authored any chemistry publications with your institution.
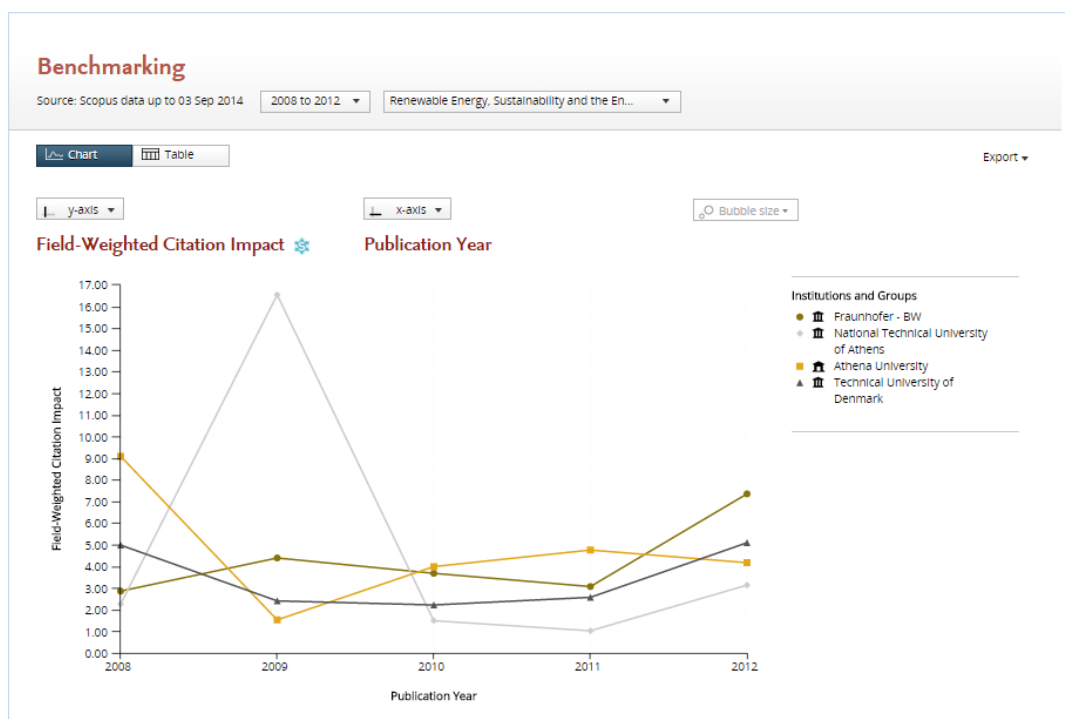
- You can choose from 27 categories and 334 subcategories in the Scopus journal classification. Or use a different journal classification.
- You can also define your own research areas, which can be as granular or interdisciplinary as you like.

Evaluate a potential collaboration partner. Click on any institution in either map or table view. You can now zoom into that institution and evaluate that institution as a potential new collaboration partner in much greater detail.

- At the top of the pop-up window, you can compare the total output at each institution.
- The pie chart and bar chart below that let you compare the total output of each institution by journal category. Where do the institutions overlap and where is their research unique?
- Go to the "Potential co-authors" tab to see the top researchers at each institution. Here, you can identify potential matches between researchers at your institution and researchers at the other institution. Export this list of potential co-authors to a spreadsheet file for further analysis.

Use the Shortcuts menu in the institution details pop-up to examine a potential collaboration partner in even more detail. You can:

- get a high-level overview of the institution in the Overview module

- view and compare metrics for that institution in Benchmarking

- see the collaboration partners of that institution in the Collaboration module