

### A. Analyze Research Performance – Overview Module

For any entity, from the World to an individual researcher

1. Select your institution from the left-hand entity selection panel. If you are interested in a particular field of research or time period, adjust the filters for year range and Scopus subject area. Explore the available analyses. Add any interesting analyses to a report you can begin creating, by using the **+ Add to Reporting** tab OR use additional reporting features (add Summary, Report from Template, etc).
2. Choose 'Analyze in more detail' under the pie chart – explore the information available
3. Go to the 'Cited' tab to see metrics for citation impact. How does your institution compare to others with the Field-weighted Citation Impact (global average is 1.0).
4. Are publications from your institution highly regarded and cited? Go to the 'Published' tab and choose "Overall". This shows your share of the top most cited publications worldwide.
5. Where does your institution have the highest impact? Choose the 'Published' tab and select "by Subject Area."
6. Where does your institution publish the most? Choose the 'Published' tab and select "by Scopus Source."

### B. Find Collaborators and Competitors - Collaboration Module

Review and evaluate existing partners; find new partners and experts

1. Identify the top collaborating partners of your institution
  - a. From the top level Collaboration tab, choose 'Current collaboration'
  - b. **Note** – you may choose to limit here to <100 authors, if you wish to minimize impact on collaborations of high-energy physics mega papers with 2K-5K authors/paper.
  - c. Select geographic and sector options to limit, if desired
  - d. Switch to table view – this allows you to see the impact of current collaborations
  - e. Evaluate the collaboration partnerships – select or search for one institution.
  - f. Is this an impactful collaboration? How can you tell?
2. Identify new or potential collaboration partners (in a particular discipline)
  - a. Filter by the subject area of interest; there are 27 main categories and 334 subcategories or use Topics
  - b. Choose the 'Potential collaboration' tab
  - c. Select geographic and sector options to limit, if desired
  - d. Sort results by a metric such as 'Citations per publication' to view the most impactful institutions in the chosen subject category



### C. Benchmark and Evaluate performance – Benchmarking Module

#### 1. Visualization #1: Research Output over time

In the top-level benchmarking tab, choose:

- a. Y-axis; Published -> Scholarly Output
- b. X-axis; Publication year (from 1996-)

You may wish to choose a filter based on a subject category (there are 27 main categories and 334 sub-categories) and experiment with additional metrics in this module.

#### 2. Visualization #2: Impact of Publications and Collaboration

Search for and add several institutions to compare to your institution. You may select these comparators institution-wide, or select based on specific disciplines. Add your choice of 3-5 institutions to the 'Institutions and Groups' panel.

(e.g. Auburn University, Clemson University, Kansas State, Texas A & M)

In the top-level benchmarking tab, choose:

- a. Y-axis; Cited -> Field-Weighted Citation Impact
- b. X-axis; Collaboration -> International collaboration
- c. Bubble size; Published -> Scholarly Output

#### 3. Visualization #3: Developments in a field over time

From the left-hand entity selection panel, under 'Countries, Regions and Groups', choose the 'World' as your entity.

Under the top-level benchmarking tab, choose a field of research from the ASJC dropdown menu ('Computer Science' -> 'Artificial Intelligence' as an example):

- a. Y-axis; Published -> Scholarly Output
- b. X-axis; Publication Year

Tip: You can navigate back to the 'Overview' module to see top institutions, authors or Topics in this field.



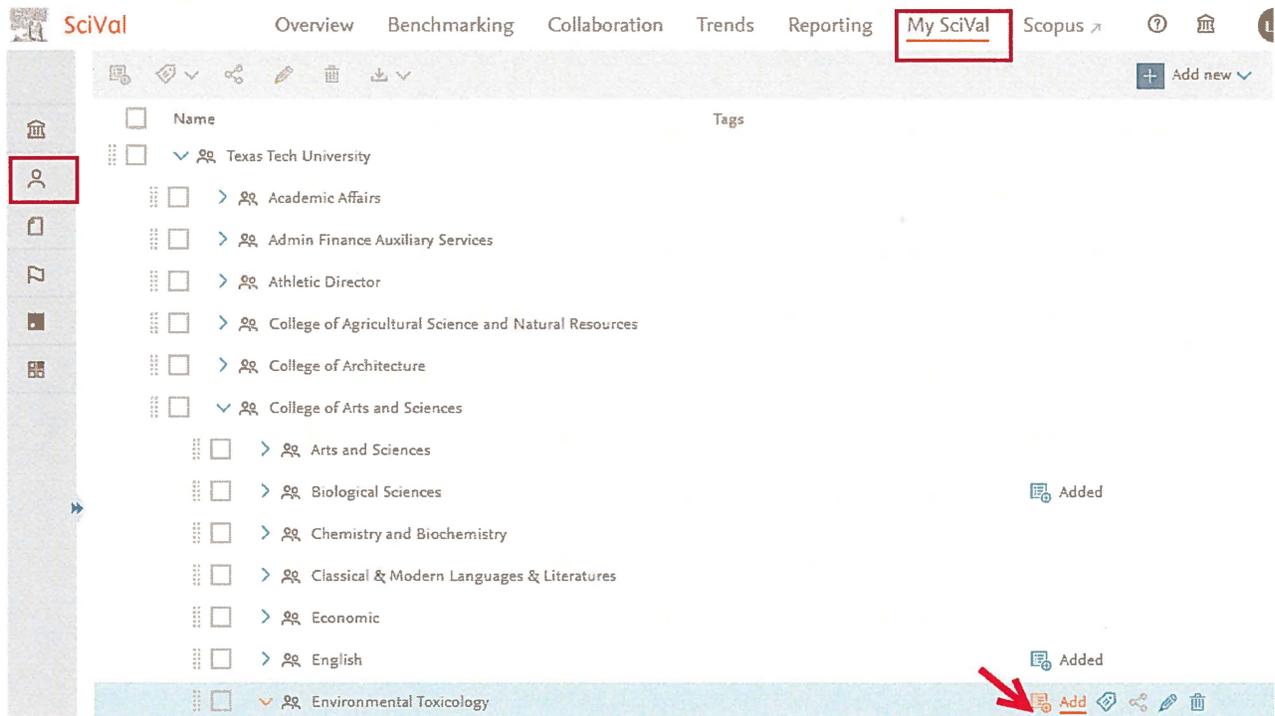
## D. Analyzing Researcher Groups

To analyze research performance for a group, or to model performance for a proposed group of researchers.

This article will also explain this function:

[https://service.elsevier.com/app/answers/detail/a\\_id/18314/supporthub/scival/kw/research+group/](https://service.elsevier.com/app/answers/detail/a_id/18314/supporthub/scival/kw/research+group/)

1. Use an existing group available in MySciVal -> Researchers and Groups. Expand the Texas Tech University entity, choose a unit and add to the entity selection panel.



The screenshot shows the SciVal 'My SciVal' interface. The top navigation bar includes 'Overview', 'Benchmarking', 'Collaboration', 'Trends', 'Reporting', and 'My SciVal' (highlighted with a red box). Below the navigation bar, there is a toolbar with icons for search, filter, and 'Add new'. The main content area is titled 'Name' and 'Tags'. A tree view shows the hierarchy of Texas Tech University units. The 'Environmental Toxicology' unit is selected, and a red arrow points to the 'Add' button at the bottom right of the unit selection panel. The 'Add' button is highlighted with a red box.

2. From the Overview Module, choose 'Researchers and Groups', and explore the metrics for this group
3. Take a look at Topics and Topic Clusters for this group.
4. Examine one Topic in depth (worldwide).
5. Look at competitors - view the institutions contributing to this topic, and then view the authors.

### Part 2

6. Pick three authors from another institution(s) and add to your panel, making note of the authors.
7. Create a new group of researchers – e.g. "Environmental Toxicology 2" including three authors above.
8. Go back to Overview, and then Benchmark these two sets against one another.



