

Fenntartható fejlesztési célok az InCitesban

InCites Benchmarking & Analytics

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2022. január



Sustainable Development Goals in InCites

- **University engagement with the UN's Sustainable Development Goals**
- Clarivate: sustainability and solutions
- SDGs in InCites: our methodology
- Examples of using SDG data in InCites to track your progress and inform research planning
- Live demo
- Resources & support
- Questions

United Nations Sustainable Development Goals



End poverty in all its forms everywhere



Achieve gender equality and empower all women and girls



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation



Take urgent action to combat climate change and its impacts



End hunger, achieve food security and improved nutrition and promote sustainable agriculture



Ensure availability and sustainable management of water and sanitation for all



Reduce inequality within and among countries



Conserve and sustainably use the oceans, seas and marine resources for sustainable development



Ensure healthy lives and promote well-being for all at all ages



Ensure access to affordable, reliable, sustainable and modern energy for all



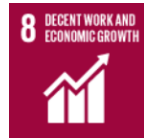
Make cities and human settlements inclusive, safe, resilient and sustainable



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



Ensure sustainable consumption and production patterns



Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

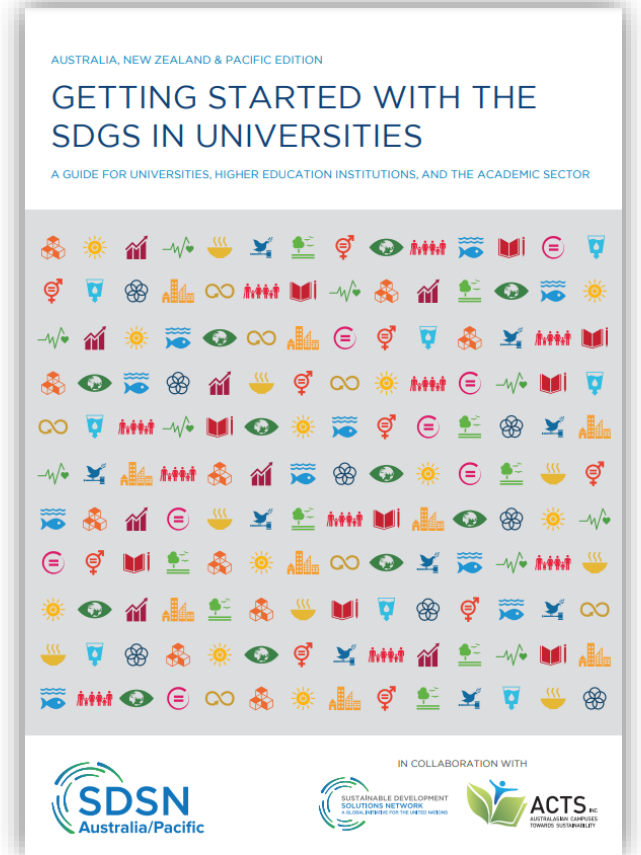


Goal 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development

<https://sdgs.un.org/2030agenda>

University engagement

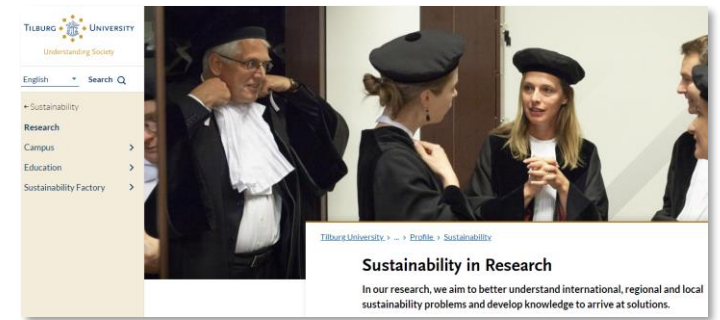
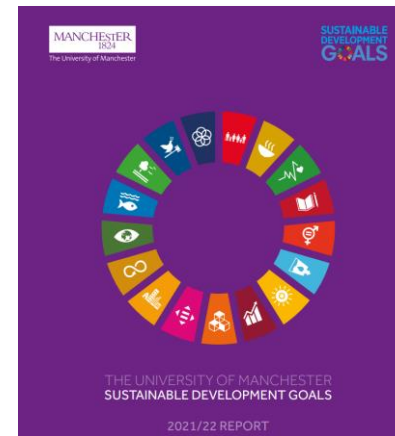
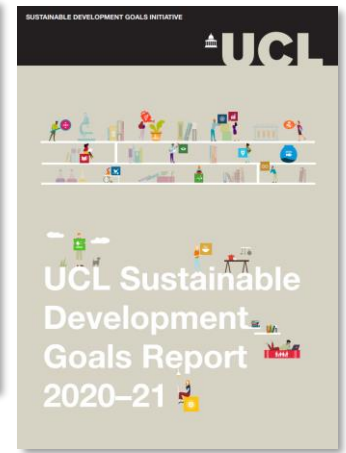
“Universities, with their broad remit around the creation and dissemination of knowledge and their unique position within society, have a critical role to play...Arguably none of the SDGs will be achieved without this sector.”



[View the UN's guide](#)

Global strategies in academia to achieve SDG goals

- Increase cross-disciplinary research
- Establish Centres of Excellence and Research Hubs
- Accelerate innovation
- Develop breakthrough ideas
- Engage with industry, third sector and the local community



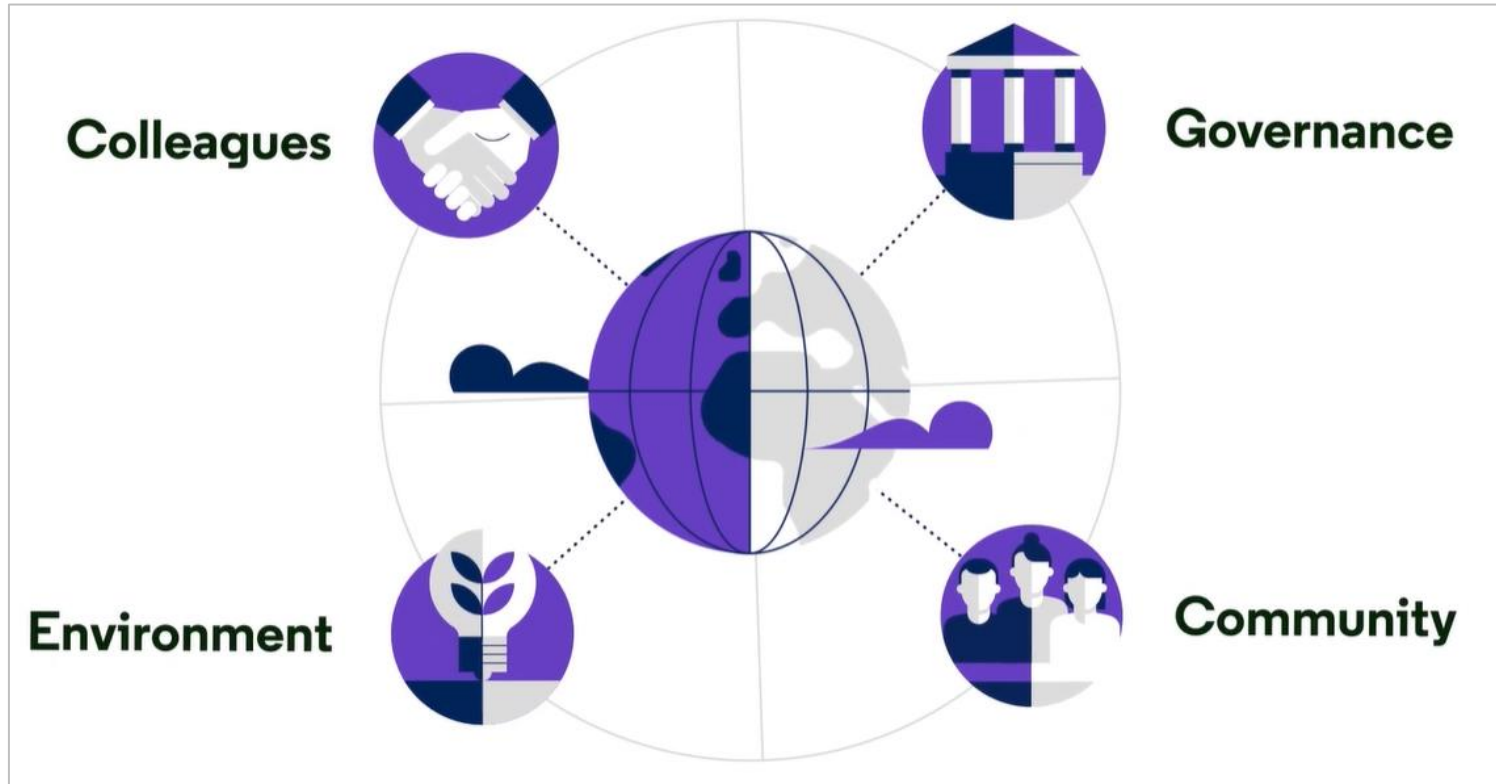
“SDGs provide a focal point for universities, industry, third sector and government partners working across disciplines to come together to develop and deliver innovative solutions to shared global challenges.”

<https://www.imperial.ac.uk/global-development-hub/imperial-and-the-sdgs/>

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Sustainability at Clarivate



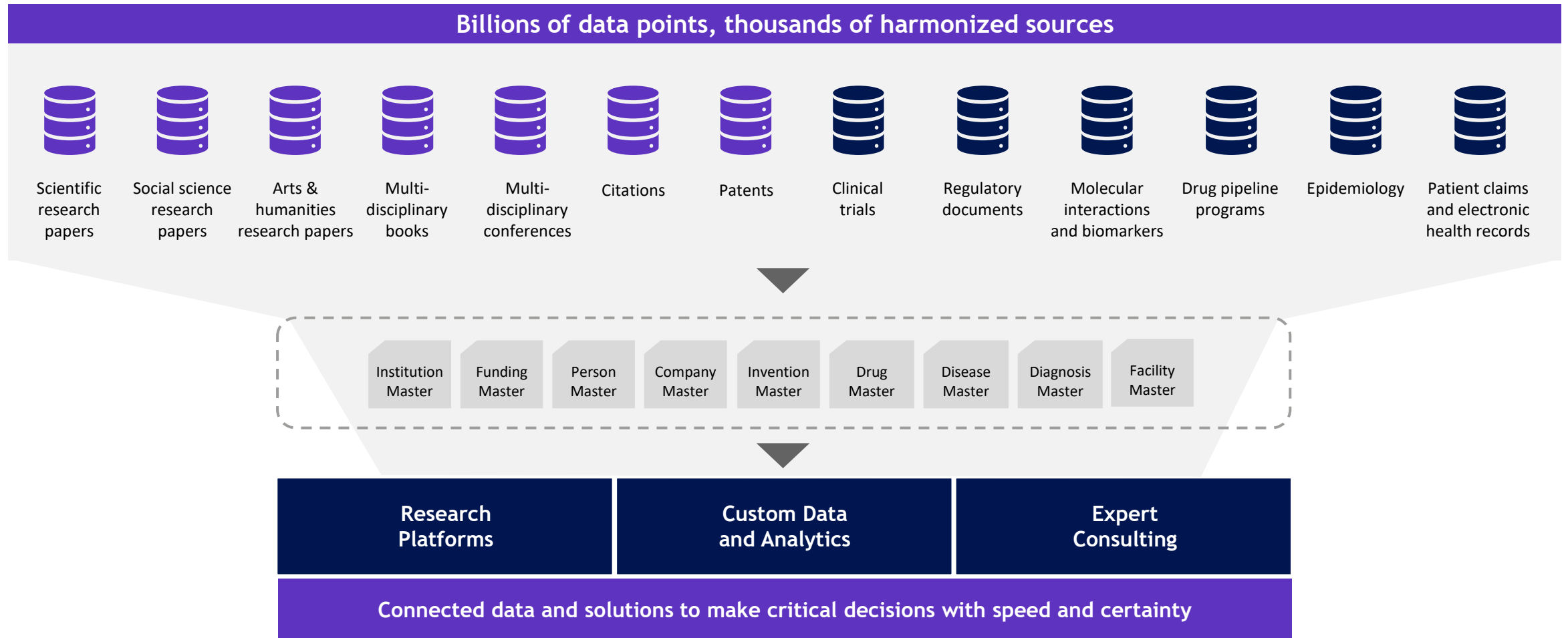
At Clarivate, sustainability is at the heart of everything we do. We help companies innovate for a better future worldwide while operating to the highest social, environmental and ethics standards.

Sustainability@Clarivate.com

Clarivate's sustainability framework. Read our 2020 Sustainability report [here](#)

Clarivate supports others with their effort to achieve sustainability.

Clarity to drive innovation toward socially responsible outcomes



Questions we can help you answer

Connected data and solutions to help you understand your contributions to SDG goals



Governments

- Is the global research effort on track to deliver on the SDG goals by 2030?
- Where is there a gap in progress?
- Which goals need more attention through funding or policy mechanisms?



Universities

- Are we on track to deliver on our SDG research strategy?
- Are our SDG-related research projects producing impactful outcomes?
- Where are we underperforming and need a change in research strategy?



Publishers

- What proportion of SDG research is published by our portfolio and how do we compare to competitors?
- Are we publishing impactful research in a given SDG?

InCites Benchmarking & Analytics

Track your progress towards SDGs using data from the world's most trusted citation index of research publications



Reliable citation indicators

Confidently measure citation impact and reputation with normalized indicators derived from data used in major research evaluation initiatives worldwide



Collaboration indicators

Save time identifying academic, industry and government partners worldwide with pre-built indicators and filters for international and industry collaboration



Open access indicators

Save money, assess compliance with mandates, and identify where your authors are likely paying APCs using pre-built indicators and filters for gold, green and hybrid publications



Flexible evaluation schema

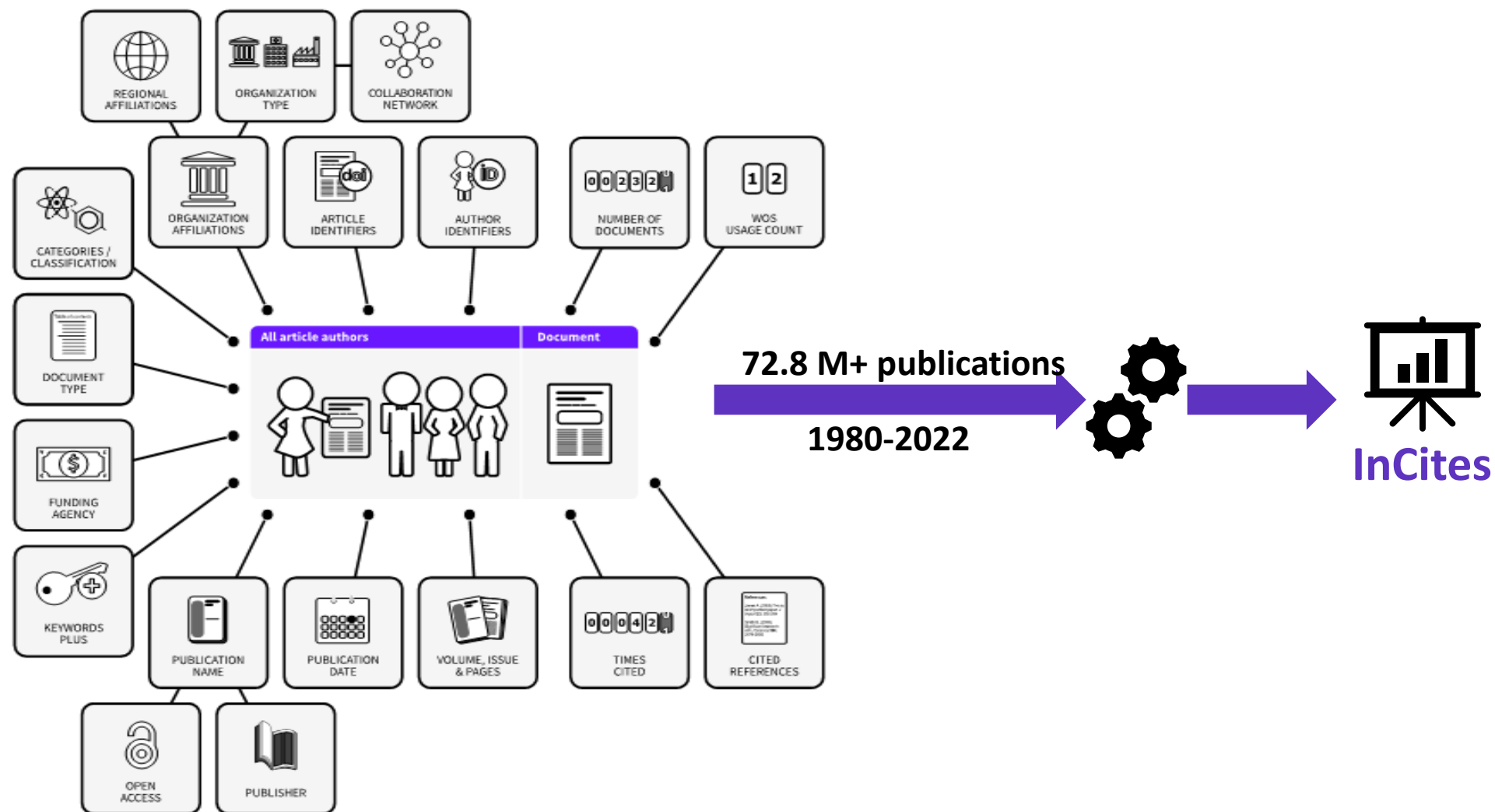
Assess your research using the same lens as your evaluators with over 13 localized regional assessment classifications used in national research assessment exercises



Multiple ways to view data

Quickly assess the research landscape on any topic to identify star researchers, centers of excellence, and major funders—worldwide or in your region of choice

InCites dataset: Consistent metadata feed for reliable analysis



70+ indicators

Updated monthly

223 countries/regions

22 schemas (SDG'S)

700+ categories

39 document types

5 Open Access versions

1200 + unified funders

5K+ unified publishers

14K+ unified organizations

InCites Benchmarking and Analytics

A diversity of indicators

Productivity and Impact	Normalization	Top Performance	Collaborations	Journal Intelligence
Web of Science Documents	Percentile and Average percentile	% Docs in Top 1%	Counts and % Industry Collaborations	Open Access counts, % for all types
Times Cited	Category Normalized Citation Impact	% Docs in Top 10%	Counts and % Int'l Collaborations	Publishing Country
Citation Impact	Impact Relative to World	Highly Cited Papers	Affiliation	Journal Impact Factor
h-Index	Journal Normalized Citation Impact	% Highly Cited Papers	Country/Region/Province/State	Journal Quartile
% Docs Cited		% Hot Papers		# Docs by Journal
Funding Agency				5-Year Journal Impact Factor
% Docs by JIF Quartile				Cited Half Life
Author Position (1 st , Last, Corresp.)				

[Learn more about indicators](#)

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Introducing SDGs in InCites



Indicators: Web of Science Documents. **Time Period:** 2016-2020. **Schema:** Sustainable Development Goals. **Dataset:** InCites Dataset
InCites dataset updated Dec 17, 2021. Includes Web of Science content indexed through Nov 30, 2021. Export Date: Jan 19, 2022.

- Mapping for all publication years (from 1980 onwards)
- 16 of the 17 SDGs included
- New visualization reporting 16 SDGs

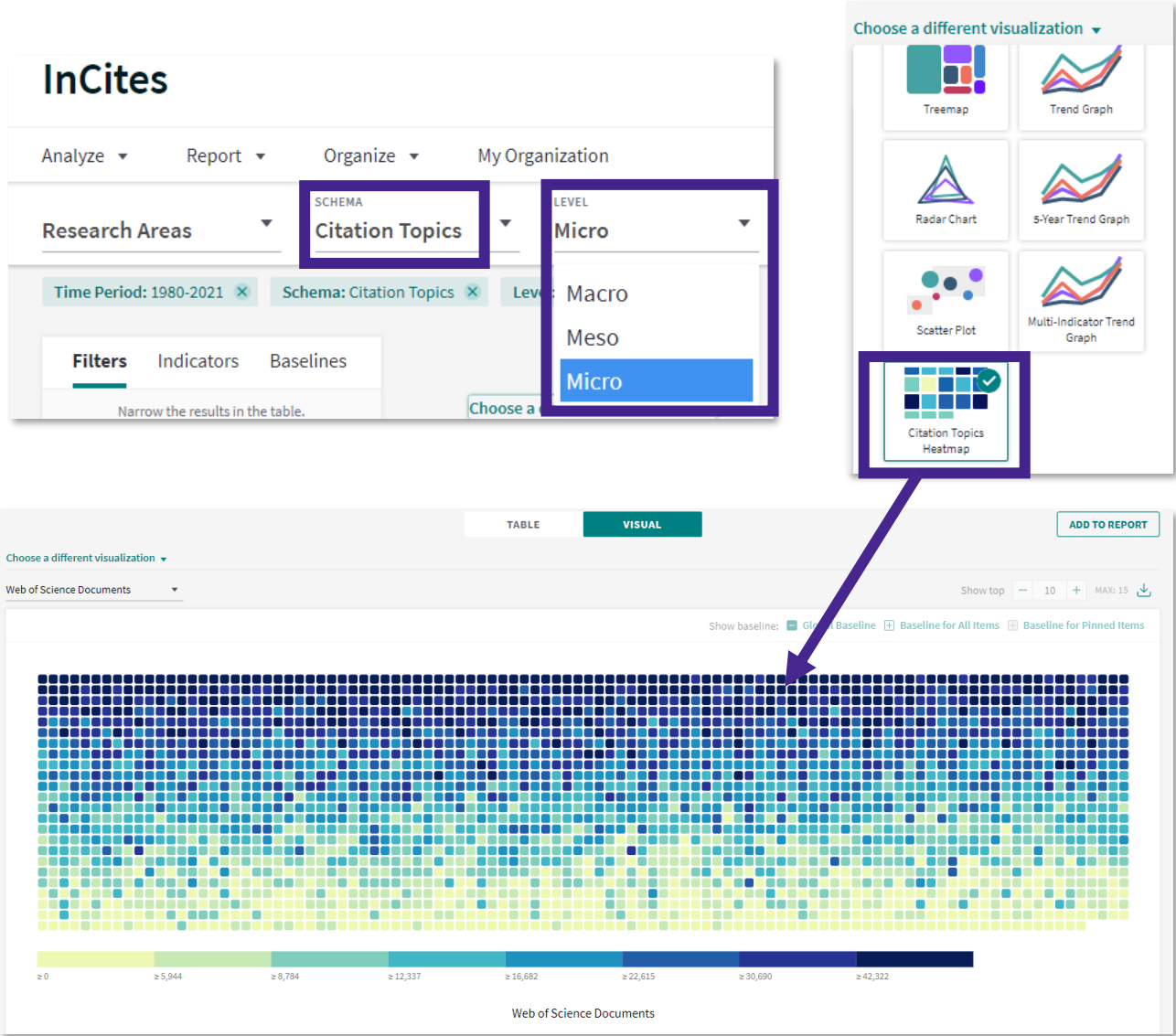
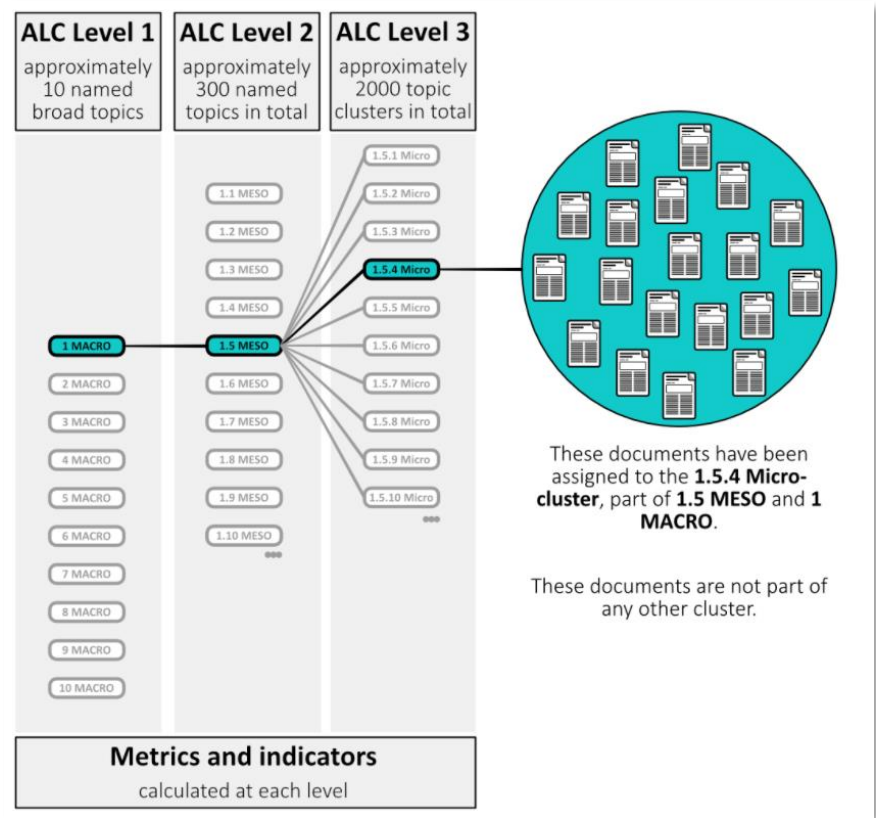
Our methodology

- In order to provide SDG classification of publications in InCites, we are mapping the Micro Citation Topics to the appropriate SDGs
- Mapping transparency (will be) available in the Help File

SDGs in InCites:

- Clarivate maps publications to the most relevant Micro Citation Topic
- Maintain relevancy: Yearly re-clustering of Citation Topics
- Transparent and high precision method: InCites publishes mapping document
- Community feedback: Our InCites team are open to feedback and suggestions in order to improve and evolve SDG analysis.
- Use SDG data in your systems: Data available via the InCites API

A quick look at Citation Topics in InCites



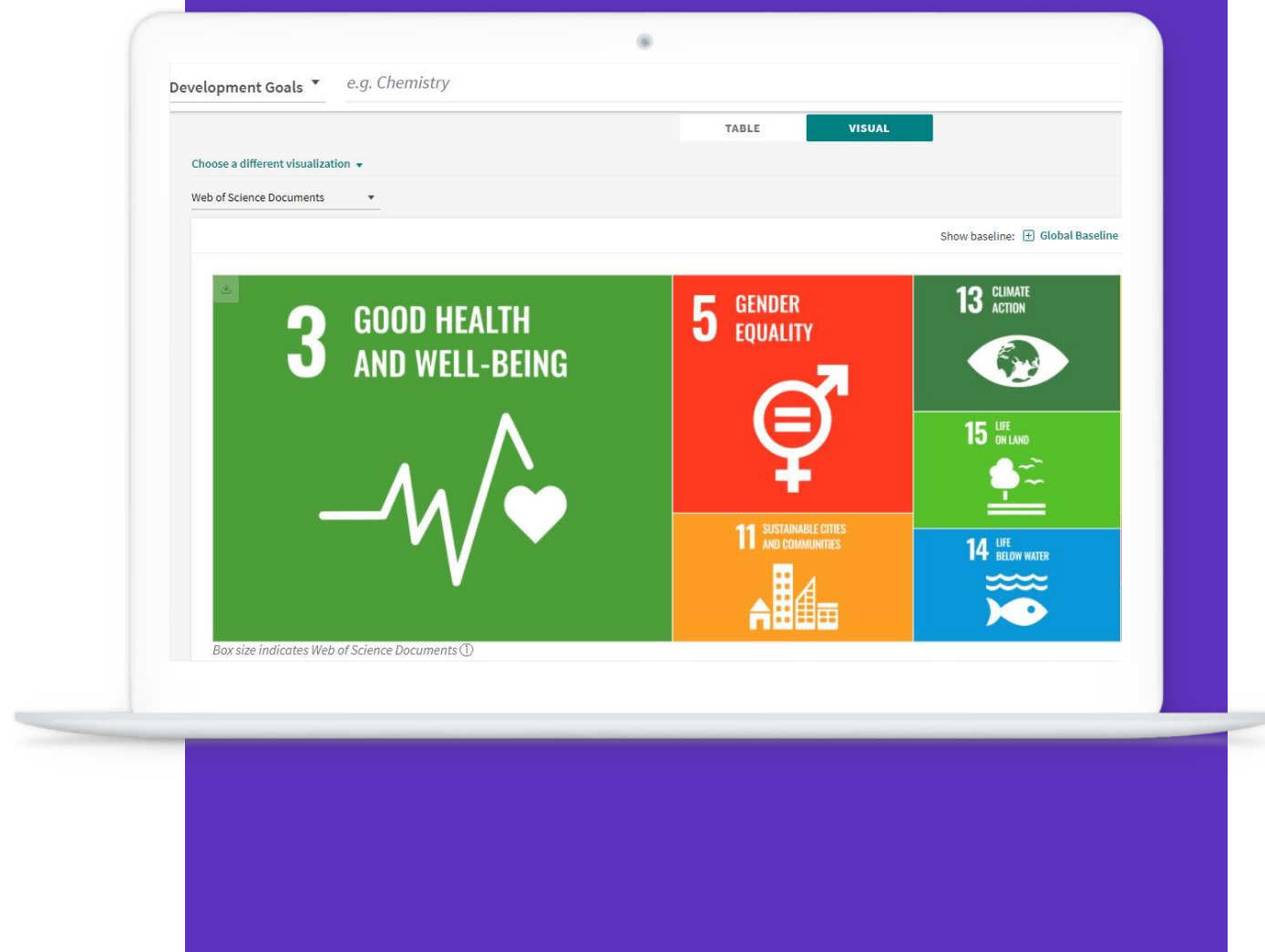
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Levels of Analysis

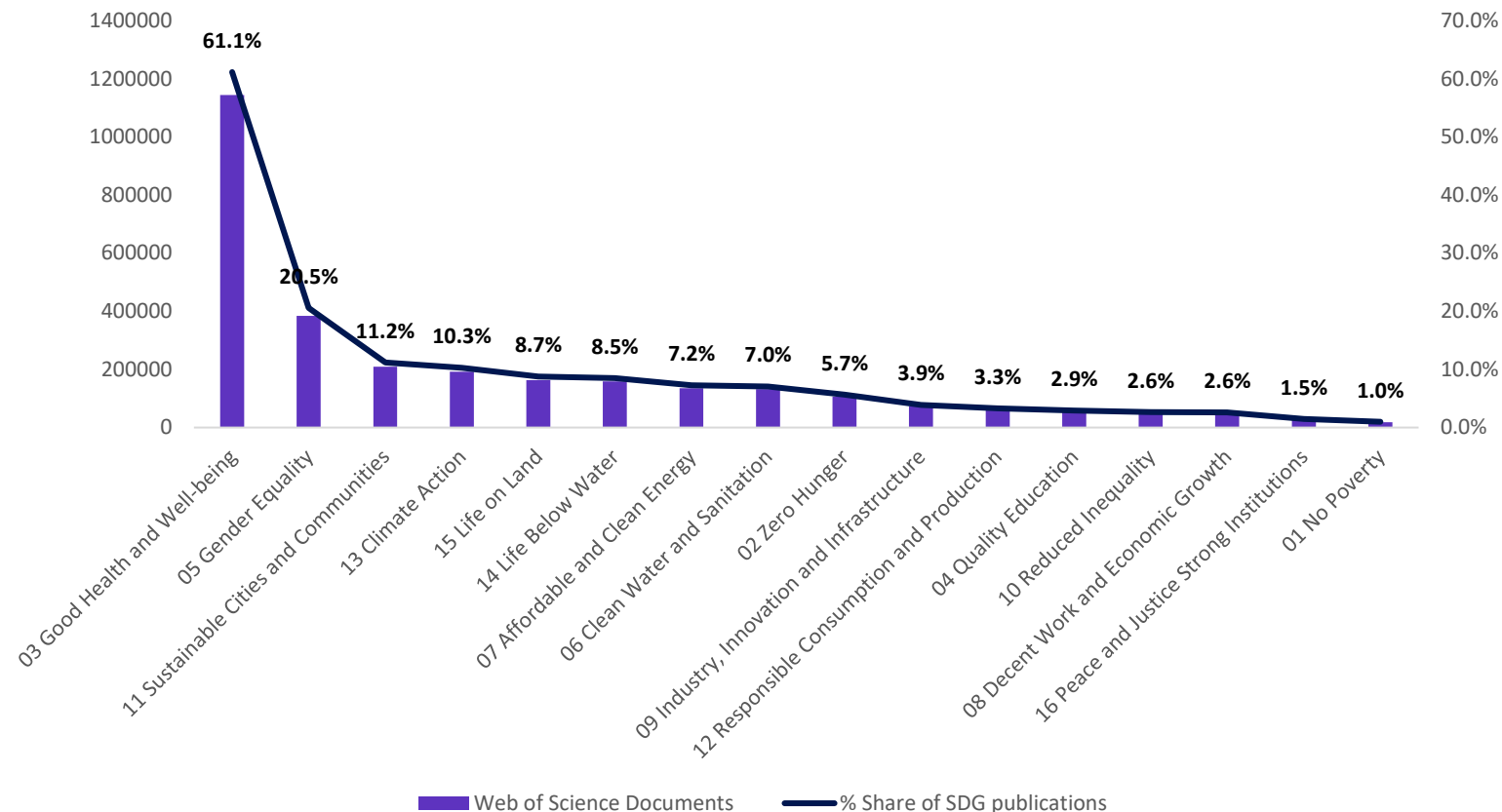
InCites offers multiple levels of aggregation of bibliographic metadata. In today's webinar we will look at the levels of aggregation below through various 'in house' reporting capabilities or by data extraction. The following analyses showcase interesting ways to explore SDG related research.

- SDGs overall
- Individual SDG
- Organization overall
- Organization internal
- Publisher



SDGs overall

- 1,869,896 SDG related documents produced between 2015-2021.
- ‘Good Health and Well-being’ has the highest % share of 61% in relation to total SDG output.
- ‘No Poverty’ is the smallest SDG with the lowest % share of 1% in relation to total SDG output.

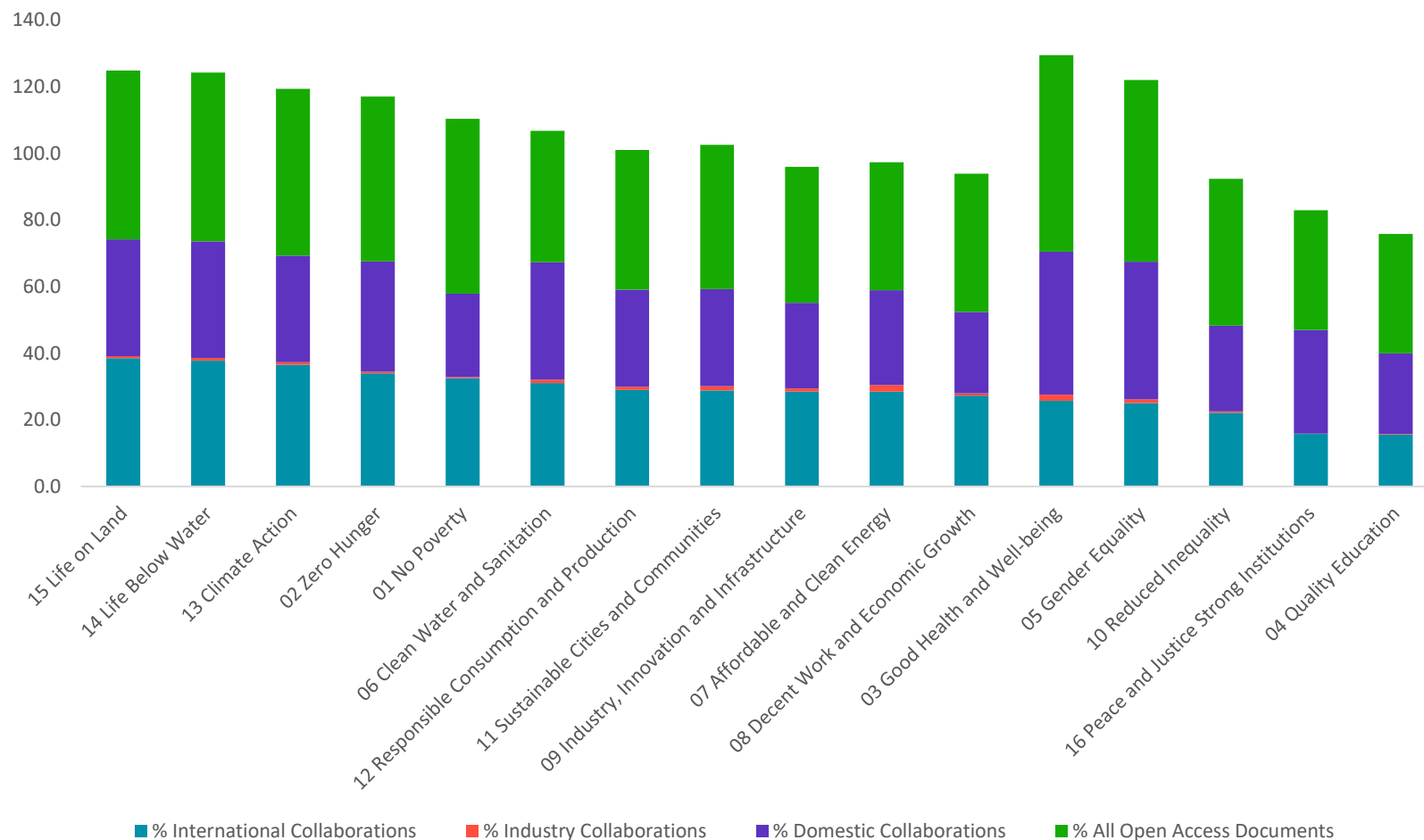


Using SDG data, InCites can help address global critical questions such as:

1. Is the global effort on track to deliver on the goals by 2030?
2. Where is there a gap in progress?
3. Which goals need improvement?

SDGs overall

- 'Life on Land' has the highest % (38.51%) of papers with at least one international collaboration
- 'Affordable and Clean Energy' has the highest % (2%) of papers with at least one industry collaboration
- 'Good health and well being' has the highest % papers (43%) with domestic only collaborations
- 'Good health and well being' has the highest % (59%) of open access papers



Using a variety of contextual metrics, InCites can help address critical questions such as:

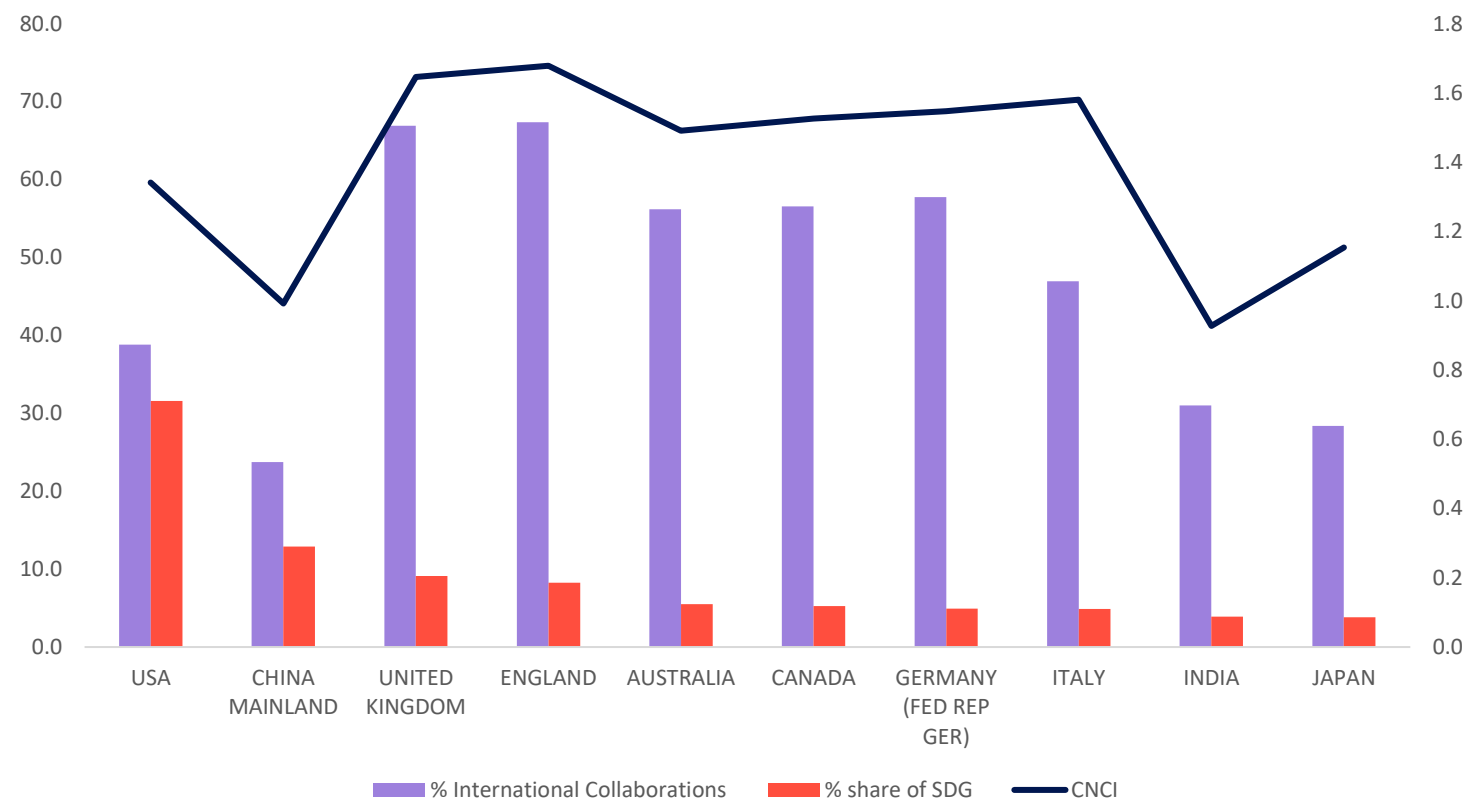
1. Are producers of research delivering on collaborative science?
2. Which goals need increased industry participation?
3. Is open access an equally distributed publishing strategy accross the goals?

Focus on SDG 3 'Good Health and Well-being'

- Analysis of the Top 10 countries with highest % share of papers for SDG 3
- USA contributes the highest % (31.6%) of papers for SDG 3
- England papers score the highest CNCI of 1.7
- England has the highest % (67%) of papers with an international collaboration



Goal 3. Ensure healthy lives and promote well-being for all at all ages



Using high quality address metadata from Web of Science and levels of aggregation applied by InCites, one can address critical questions such as:

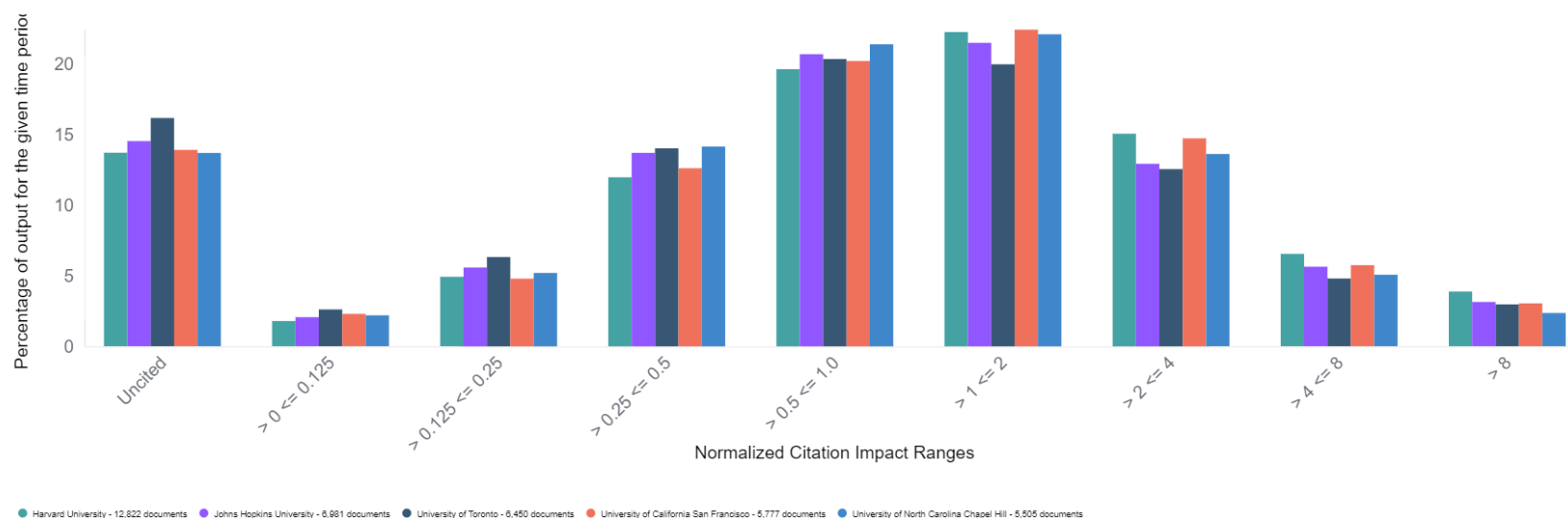
1. Which countries are contributing the most research in a given SDG?
2. What is the collaborative profile of the research at the national level?
3. Is the SDG research produced at the national level delivering on impactful science?

Focus on SDG 5 'Gender Equality'

- Impact profile 'unpacks' a single metric and exposes the % of papers with no, low, or high impact.
- Impact profile displaying top 5 producing Organizations and the % papers at grades of CNCI value from uncited to 8 and above
- Harvard University has the highest % of papers with a high CNCI value
- University of Toronto has the highest % of uncited papers in SDG 5



Goal 5. Achieve gender equality and empower all women and girls

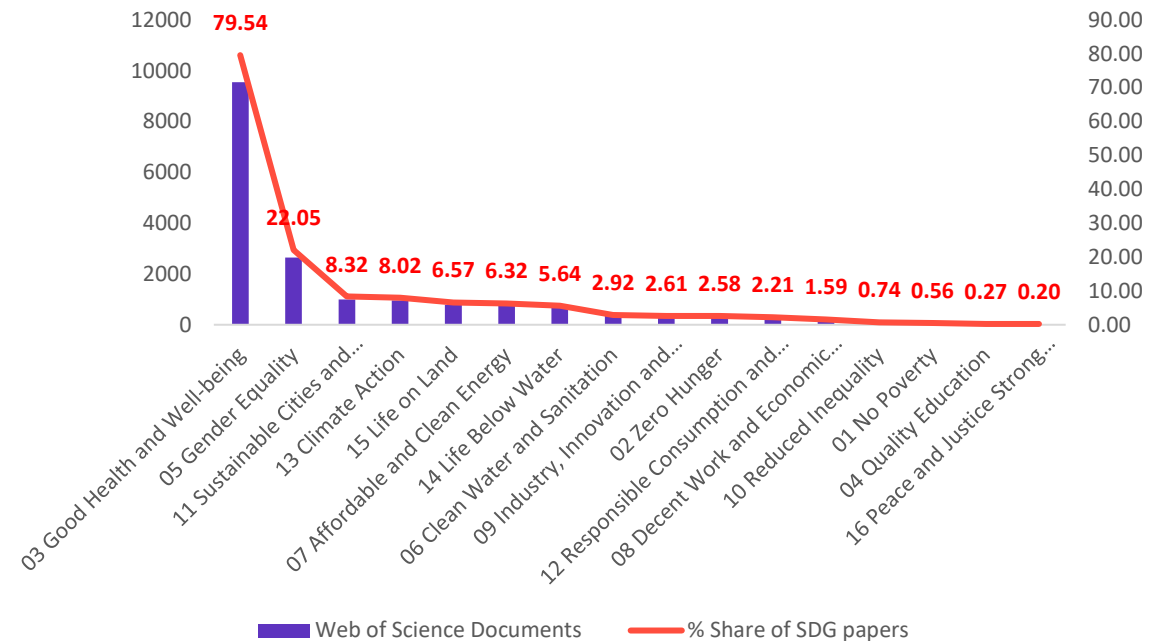


Using an Impact Profile visualization one can uncover:

1. Which Organizations are producing more impactful (higher CNCI) research?
2. Which Organizations are generating more no to low impact research ?

Organization Top Level

- ICL produces more papers (9456) in SDG 'Good Health and Well-being' which equates to 80% of ICL's SDG related research 2015-2021
- Goal 16 Peace and Justice is the smallest SDG, contributing just 0.2% of ICL SDG related research.

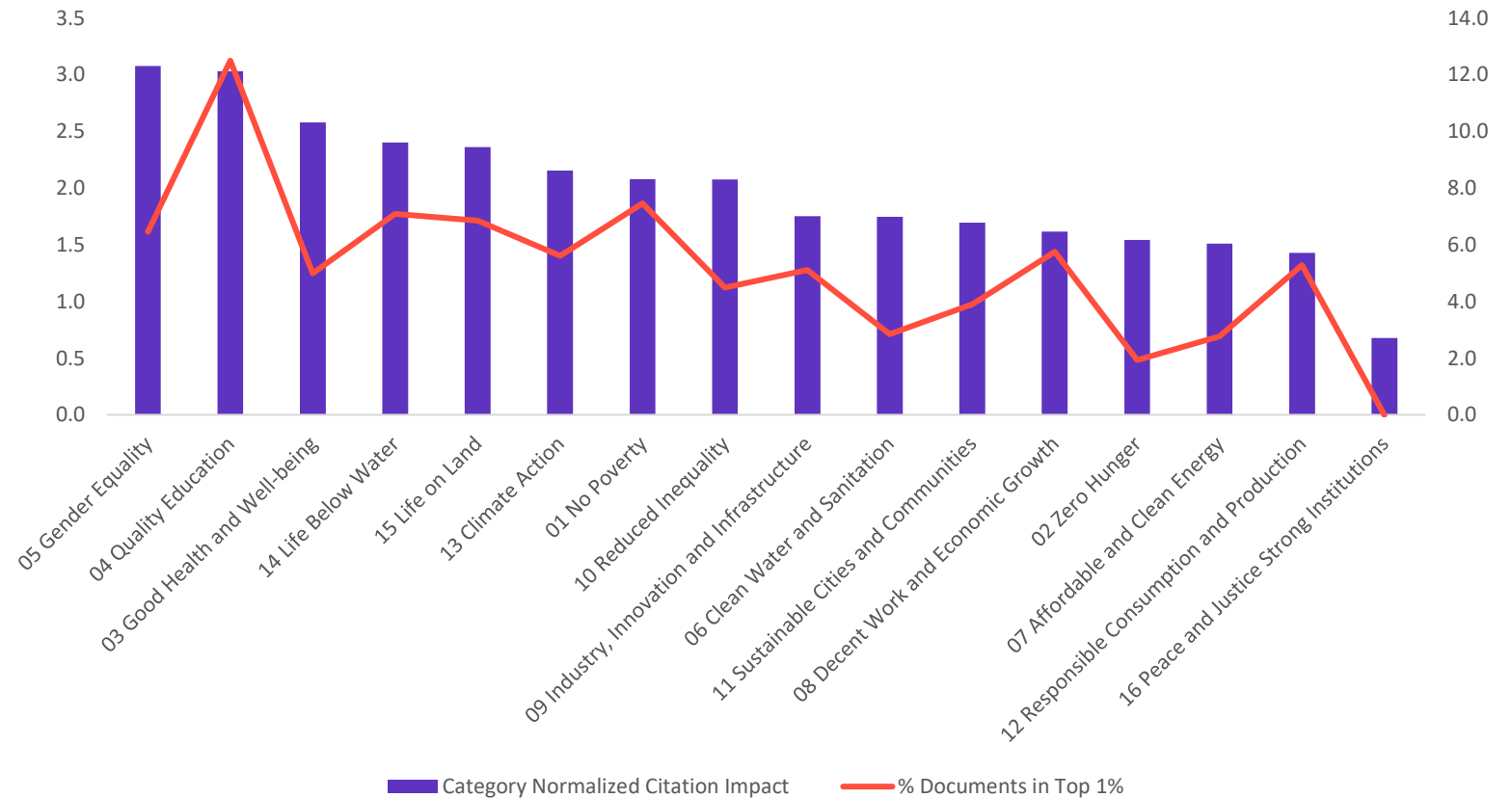


Using unified Organizational data, Organizations can inform research planning decisions :

1. Are we on track to deliver on our SDG research strategy?
2. Where are the gaps?
3. Which SDGs need improvement?

Organization Top Level

- Goal ‘Gender Equality’ scores the highest CNCI with a value of 3.1
- ‘Peace and Justice Strong Institutions’ scores the lowest CNCI with a value of 0.7
- ‘Quality Education’ is the SDG with the highest % (12.5%) of papers ranked in the Top 1%



Using multiple impact indicators generated by InCites, Organizations can identify:

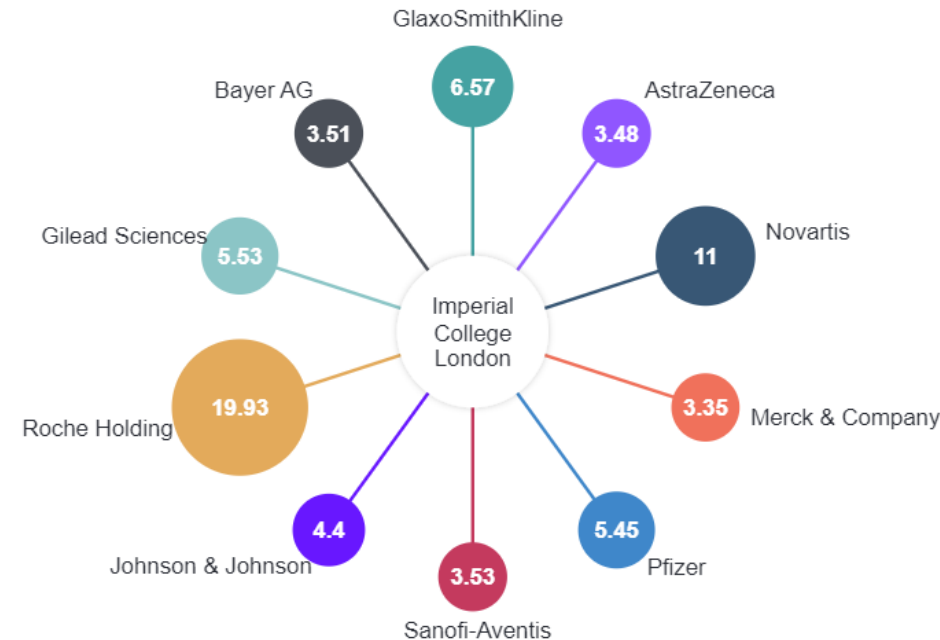
1. Are our SDG related research projects producing impactful outcomes?
2. Are our Centres of Excellence delivering on producing research of the highest quality?
3. Which goals are underperforming and require a change in research strategy ?

Organization Top Level

- Top 10 industry collaborations for SDG 3 'Good Health and Well-being', as measured by numbers of WOS documents, 2015-2021
- The collaboration with 'Roche Holding' yields research with the highest CNCI of 19.93



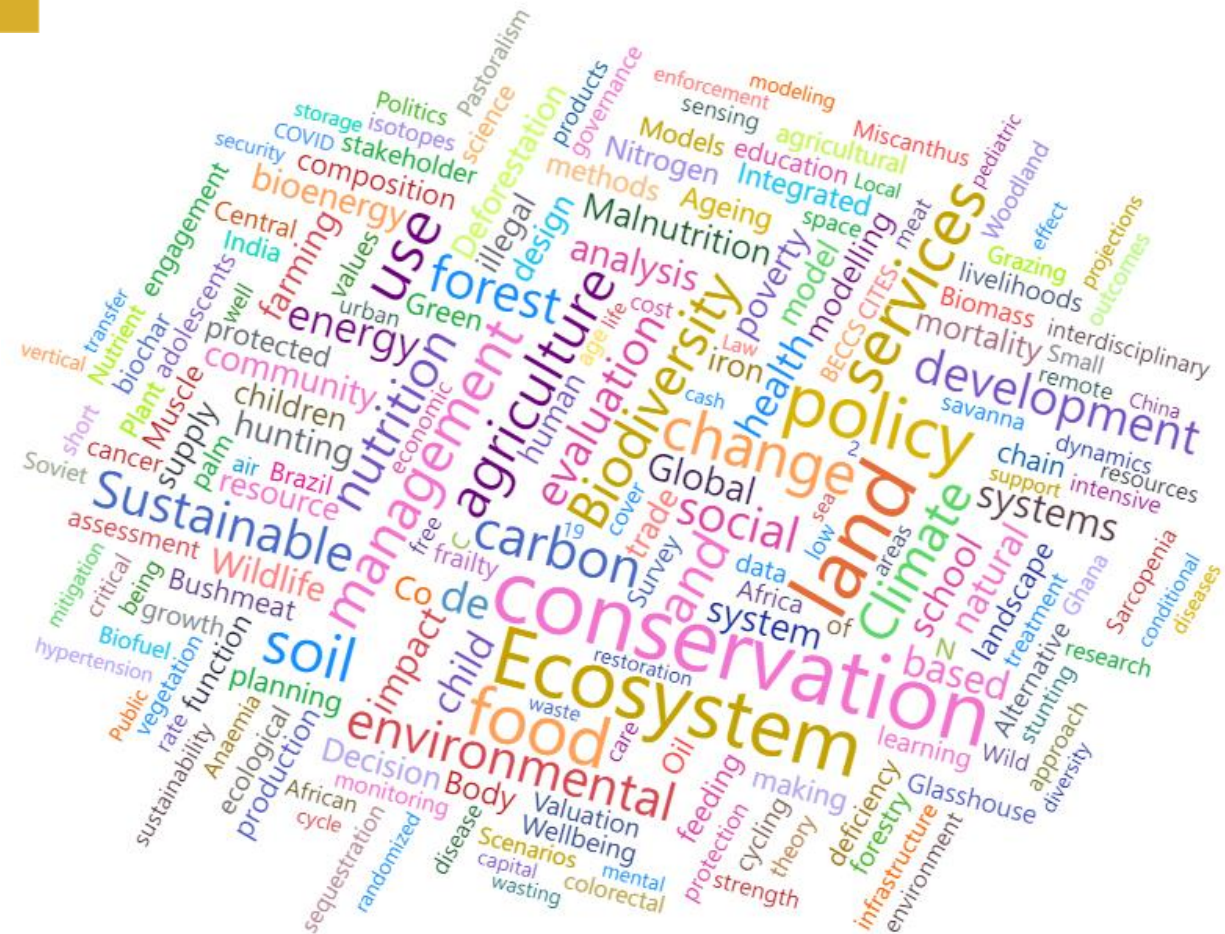
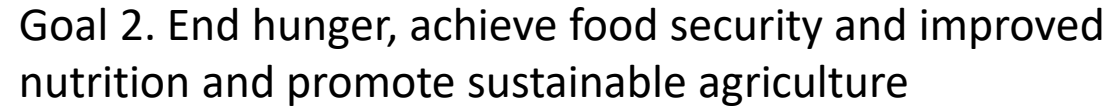
Goal 3. Ensure healthy lives and promote well-being for all at all ages



Using levels of Organizational classification applied by InCites, Organizations can measure:

1. Are our collaborative decisions providing a return on investment?
2. Can we make smarter decisions when exploring new collaborations and partnerships?

- Using the InCites to WOS Core connection, one can inject papers that compose an SDG into WOS Core, then export an Excel containing Author Keywords to a BI tool.
- By using a Word Cloud visualization, it is possible to view the most prolific keywords related to a given SDG
- ICL has produced 251 papers related to SDG 2 'Zero Hunger'. Opposite is a Word Cloud presenting the major topics of these papers based on an analysis of the author keywords.



Using the SDG schema of InCites and the rich bibliographic metadata provided by WOS Core an Organization can identify:

1. What are the major topics of the research we produce in a given SDG?

Organization: internal

- The 'My Organization' module of InCites permits the analysis of publications using a **custom structure** based on your **Organization's hierarchical structure**.
- Self service curation
- Additional subscription required
- My Organization dataset can be crafted using:
 - File upload
 - Push from a CRIS (using InCites My Org RESTful API)
 - Faculty Match (we build the dataset for you)
 - Push from Converis 6

University of Rijeka

View and update your organization information.

Organizational Metrics	
DOCUMENTS	DEPARTMENTS
20,783	17
RESEARCHERS	
2,776	

Last updated: 1 December 2021 | 1:31 PM by Guillaume Rivelle

Sample dataset (not real data)

Organizational departments and researchers

Download report(s) Upload Export

ORGANIZATIONAL HIERARCHY	DEPARTMENTS	RESEARCHERS	DOCUMENTS
<input type="checkbox"/> ▶ Academy of Applied Arts	0	6	9
<input type="checkbox"/> ▶ Department of Biotechnology	0	123	407
<input type="checkbox"/> ▶ Department of Informatics	0	62	191
<input type="checkbox"/> ▶ Department of Mathematics	0	35	207
<input type="checkbox"/> ▶ Department of Physics	0	57	404
<input type="checkbox"/> ▶ Faculty of Civil Engineering	0	105	500
<input type="checkbox"/> ▶ Faculty of Dental Medicine	0	26	16
<input type="checkbox"/> ▶ Faculty of Economics and Business	0	137	522
<input type="checkbox"/> ▶ Faculty of Engineering	0	344	1175
<input type="checkbox"/> ▶ Faculty of Health Studies	0	279	87
<input type="checkbox"/> ▶ Faculty of Humanities and Social Sciences	0	279	1240
<input type="checkbox"/> ▶ Faculty of Law	0	78	351
<input type="checkbox"/> ▶ Faculty of Maritime Studies	0	179	801
<input type="checkbox"/> ▶ Faculty of Medicine	0	1168	4518
<input type="checkbox"/> ▶ Faculty of Teacher Education	0	32	112
<input type="checkbox"/> ▶ Faculty of Tourism and Hospitality Management	0	180	681

My Organizations' hierarchical structure and breakdown

Analyze ▾ Report ▾ Organize ▾ My Organization

Research Areas ▾

Time Period: 2015-2021 ✕ Schema: Sustainable Development Goals ✕

Filters Indicators Baselines

Narrow the results in the table.

My Organization Dataset ▾

☒ Include ESCI documents ⓘ

Publication Date

16 research areas (2,1

Research Area

☐ 03 Good Health

☐ 05 Gender Equa

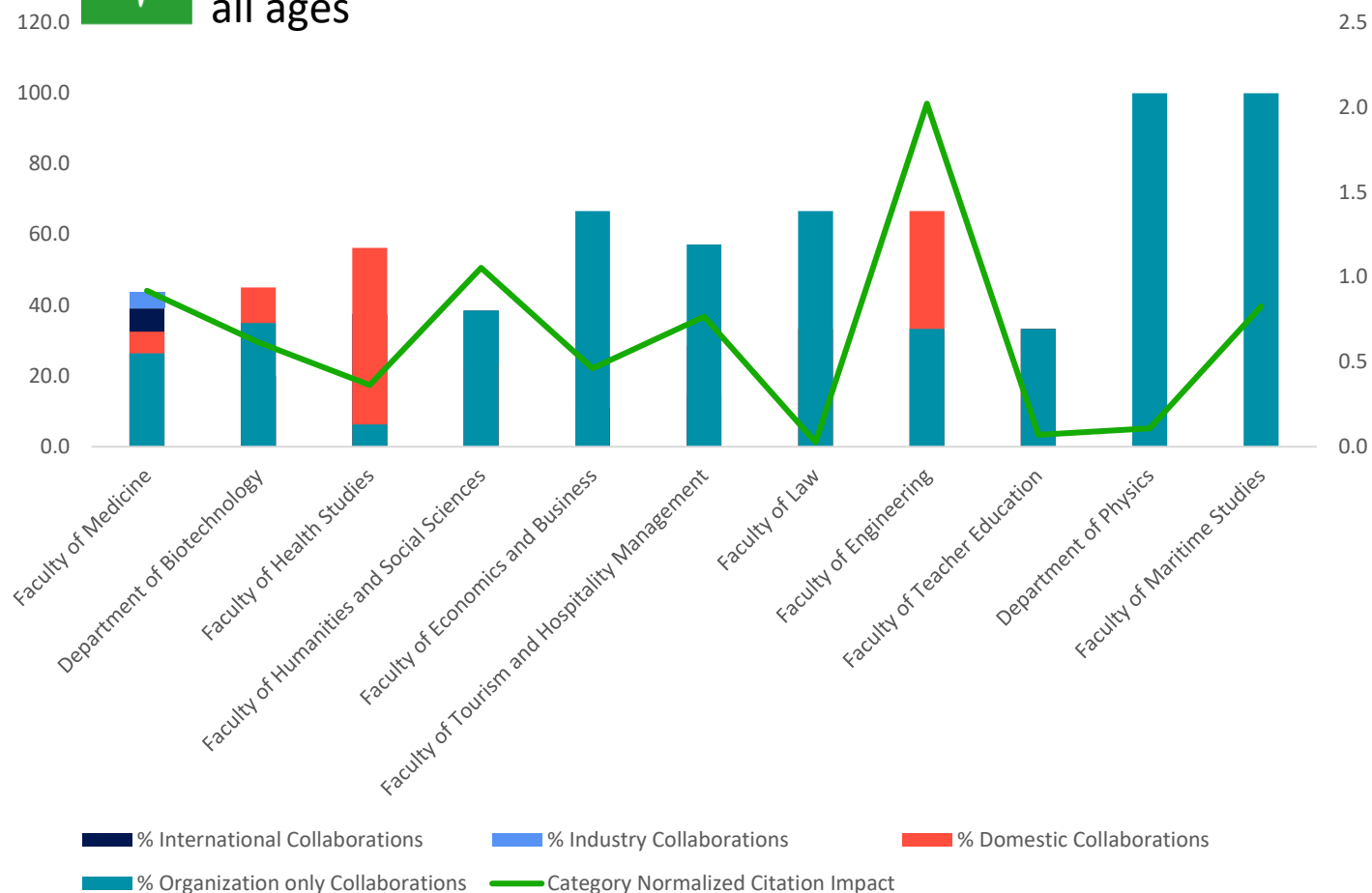
Select the 'My Organization' dataset from the dataset menu from any reporting environment in InCites

Organization: internal

- The least externally collaborative departments are the Department of Physics and Faculty of Maritime Studies which both produce research in SDG 3 with internal collaborations only.
- The most externally collaborative entity is the Faculty of Medicine which demonstrates multiple levels of collaboration for the research it produces in SDG 3.
- Faculty of Engineering produces the most impactful research in SDG 3



Goal 3. Ensure healthy lives and promote well-being for all at all ages



Using custom department data delivered by My Organization and contextual metrics computed by InCites, Organizations can identify:

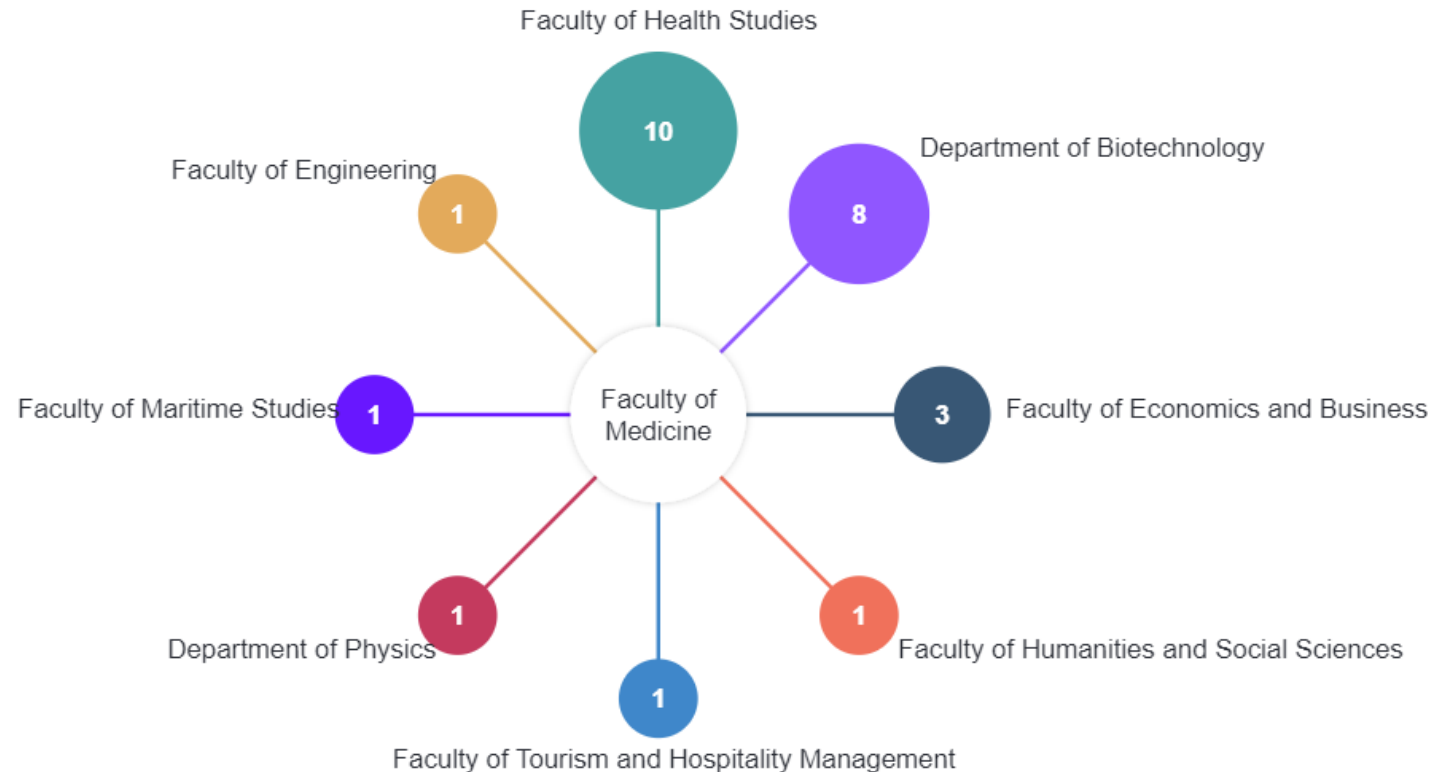
1. Are we achieving our internal and external collaboration goals?
2. Which departments produce research with no, low or high external collaboration?
3. Which departments are producing the most impactful research (higher CNCI) in a given goal ?

Organization: internal

- For research in SDG 3, Faculty of Medicine collaborates the most with the Faculty of Health Studies



Goal 3. Ensure healthy lives and promote well-being for all at all ages



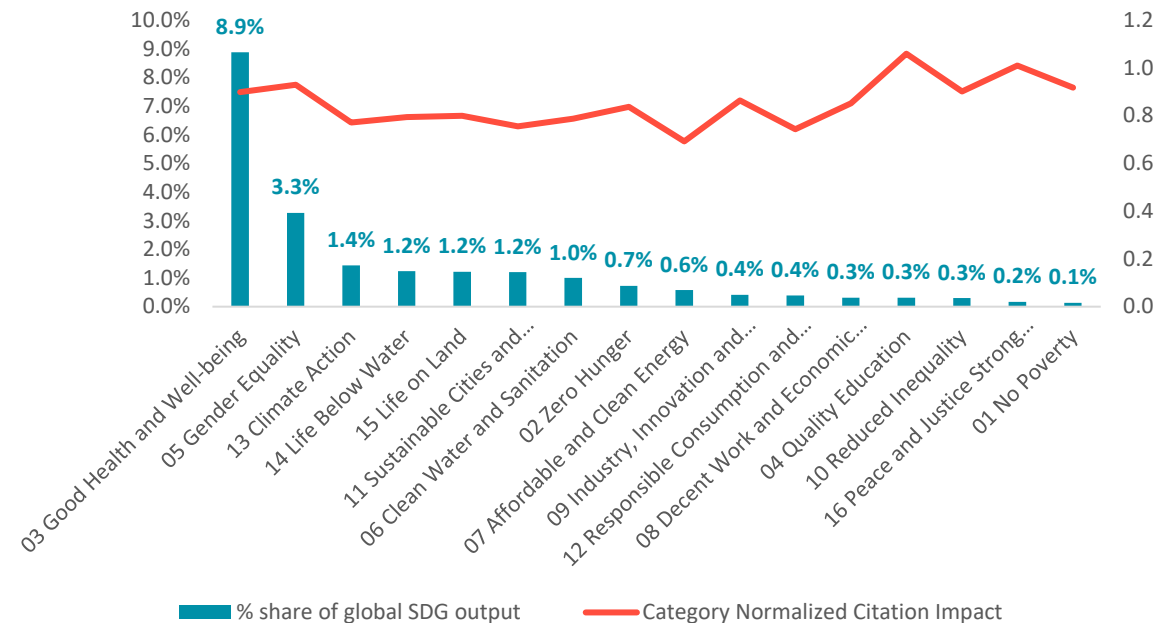
Using custom department data delivered by My Organization and powerful metadata filters in InCites, Organizations can identify:

1. Which of our departments are the least or most inter-collaborative?
2. With which departments does department X collaborative with?

Publisher: Springer Nature

- Springer Nature publishes 8.9% of global research for SDG 3 'Good Health and Well-being'
- Springer Nature papers in SDG 4 'Quality Education' have the highest CNCI of 1.1

SPRINGER NATURE



Using unified Publisher data, Publishers can determine:

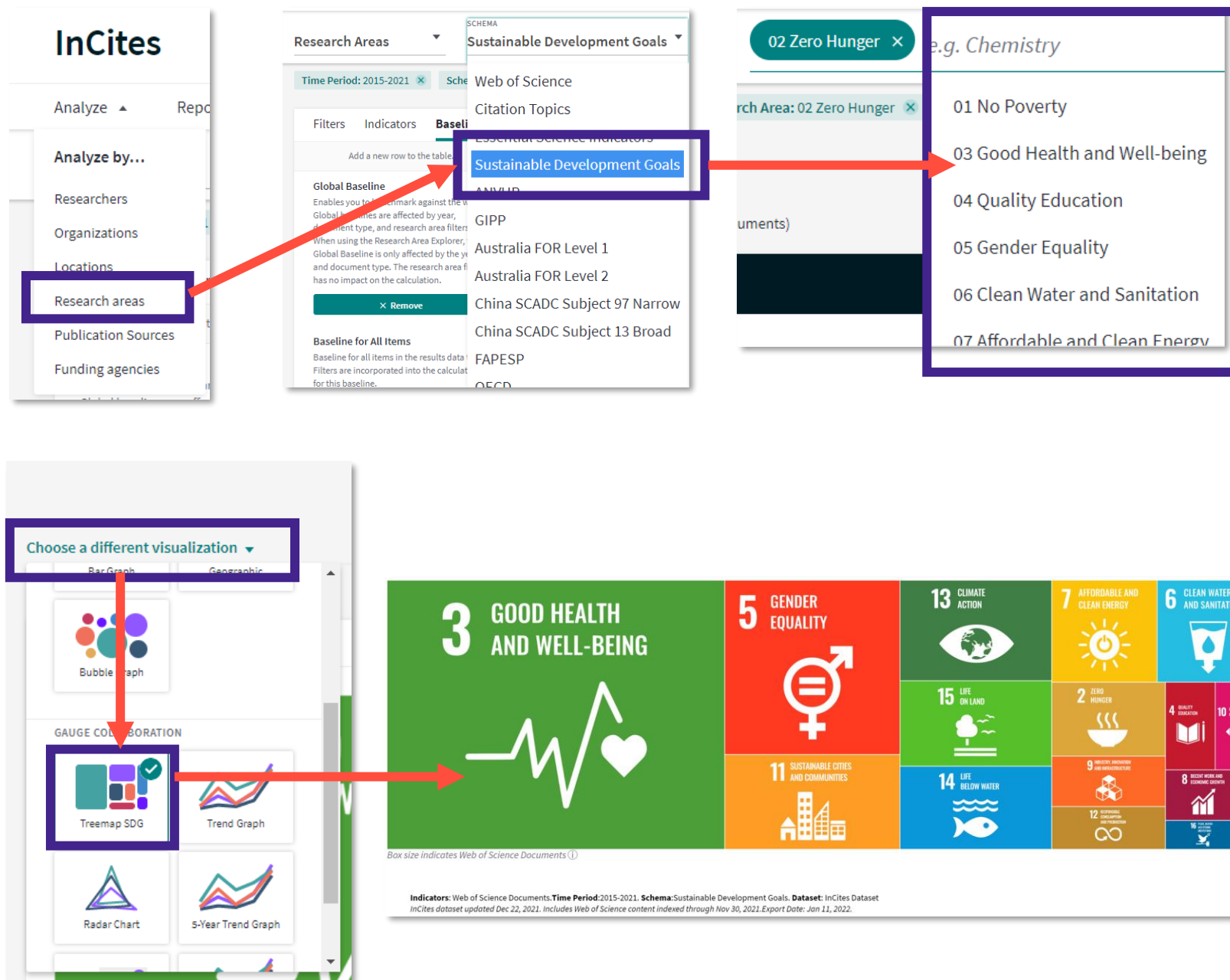
1. What proportion of SDG research is published by our portfolio and how do we compare to competitors?
2. Are we publishing impactful research in a given SDG?
3. Can we be smarter in making decisions with regard to the research we accept to publish?

Product demonstration

InCites Benchmarking & Analytics

How to analyze SDGs in InCites

1. Go to Analyse by:
Research Area
2. Select 'Sustainable
Development Goals'
from schema
3. View all 16 SDGs or
any combination
4. Select the new
Treemap SDG
visualization
5. View up to all 16 SDGs
in the tree map



Additional Resources

[ISI Report 'Navigating the Structure of Research on Sustainable Development Goals' >](#)

[Clarivate Webinar 'Demonstrating your contribution towards the Sustainable Development Goals' >](#)

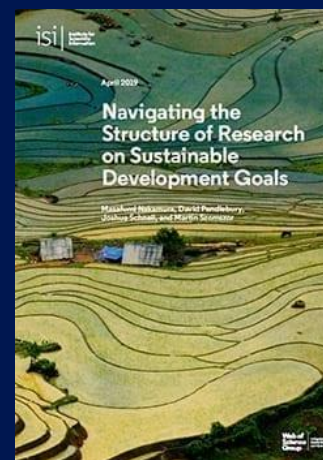
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Demonstrating your contribution towards the Sustainable Development Goals



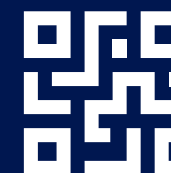
SIMON PRATT
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JON STROLL (HOST)
Director, Research Analytics Web of Science,
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Questions

Thank you!

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