



Digitalization, Science and Sustainability



Anders Karlsson, Vice President, Global Academic Relations APAC
 Ludivine Allagnat, Senior Academic Relations Manager
 Sarah Huggett, Analytical Services Product Manager
 Lei Pan, Analytical Services Product Manager

April 27, 2016



Elsevier in Numbers & Analytics in 2015



Authors:
1.8 million unique authors worldwide submitted 1.3 million manuscripts to Elsevier journals.
(For context, we estimate the total number of active researchers globally at some 7.8 million in 2015.)



Reviews:
 700,000 peer reviewers conducted **1.8 million article reviews**, under the guidance of approximately 17,000 'high level handling editors.'



Articles:
 Approximately **400,000** of those manuscripts were eventually published in approximately 2,500 active Journals.
400,000 is about 16% of the total number of scholarly articles published worldwide in 2015.



Access:
 These articles were accessed by around **12 million people per month**, with close to **900 million full text article downloads** for the year.



Competiveness of cities or regions

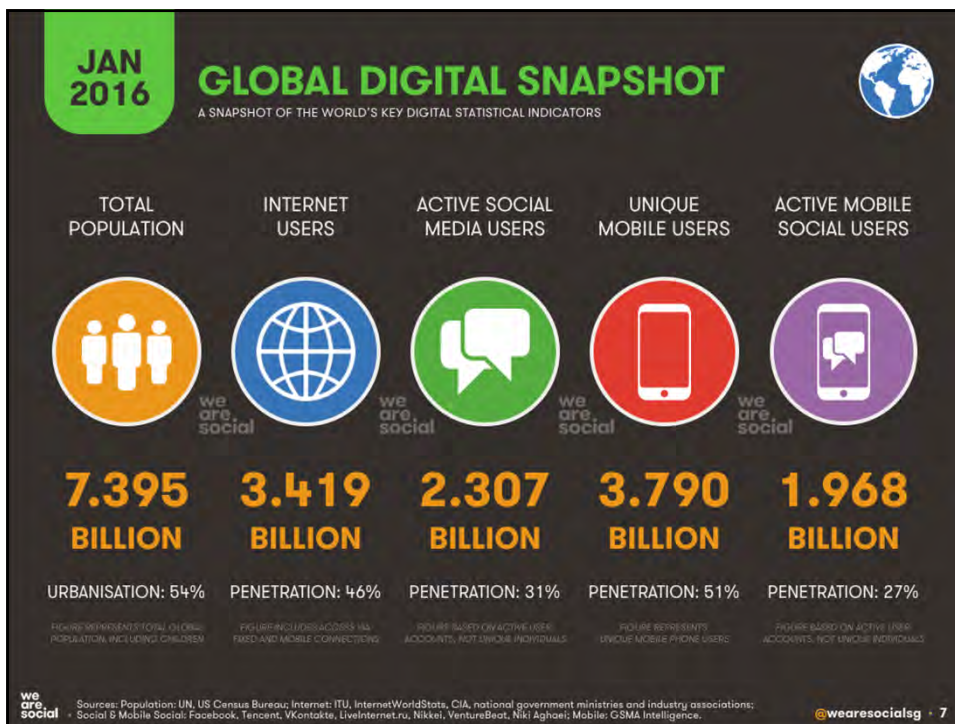


Mapping Sustainability Science

ELSEVIER 13

3 statements

- 1** Digitalization key enabler in science and sustainability
- 2** Science of sustainability if fast growing, especially in Asia
- 3** Sustainability, science and digitalization key for urban transition



ELSEVIER | 5

With infrastructure access science can be accessed..

research4life  HINARI  AGORA  OARE  ARDI 

Access to Research in the Developing World

HOME ABOUT ACCESS TRAINING CASE STUDIES NEWS CONTACT FAQS MEDIA CENTER BLOG

ABOUT RESEARCH4LIFE

What is Research4Life?

Research4Life is the collective name for the four programmes – HINARI, AGORA, OARE and ARDI – that provide developing countries with free or low cost access to academic and professional peer-reviewed content online.

Eligible libraries and their users benefit from:

- Online access to up to 68,000 peer-reviewed international scientific journals, books, and databases
- Full-text articles which can be downloaded for saving, printing or reading on screen
- Searching by keyword, subject, author or language
- Resources available in several languages
- Training in information literacy and promotional support



HOW TO REGISTER

ABOUT

[Programmes](#)

[Partners](#)

[Advisory Council](#)

[Strategic Plan](#)


[Kindred Organisations](#)

Source: www.research4life.org

ELSEVIER | 6

Internet technologies speeds up knowledge interaction

Open use and reuse of data
Scholarly Collaboration Networks
Citizen Science
Crowdsourced science
Artificial intelligence for discovery
Sensors everywhere – IOT
Big Data



<http://compendia.com/2012/03/12/what-is-a-scientific-social-network-6-examples/>

ELSEVIER | 7

What can Research do for the SDGs?

Research

- as diagnostics
- towards solutions
- as a societal institution

Source: Måns Nilsson, Stockholm Environmental Institute, Report 2016 (in Swedish)

Visualization of Academia-Corporate Collaboration on SD
Source: Elsevier & SciDev.Net Sust. Sci. Report

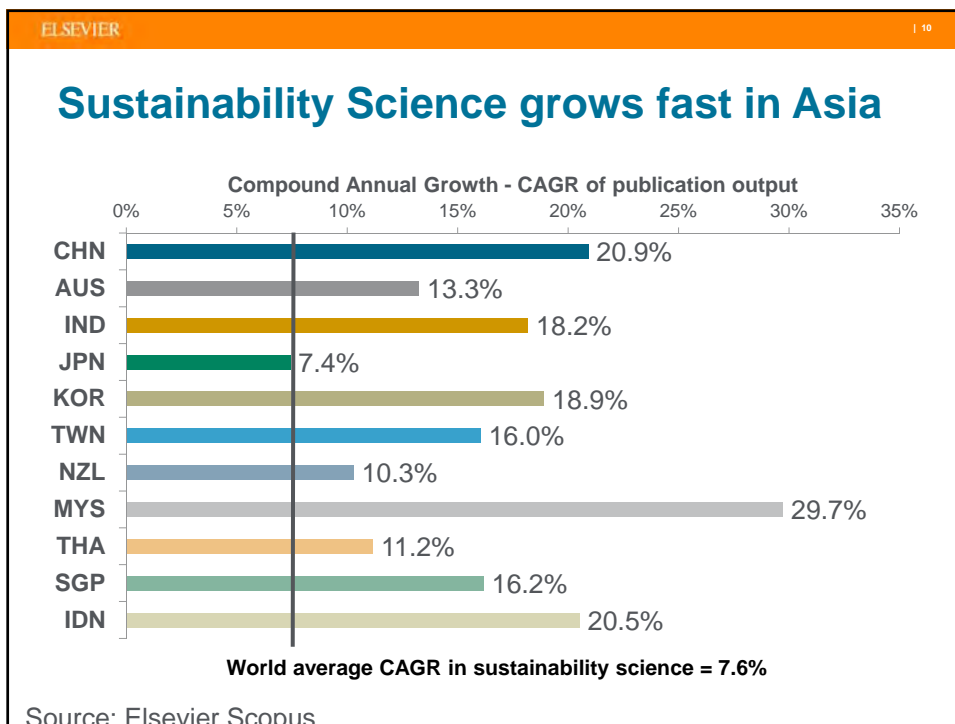
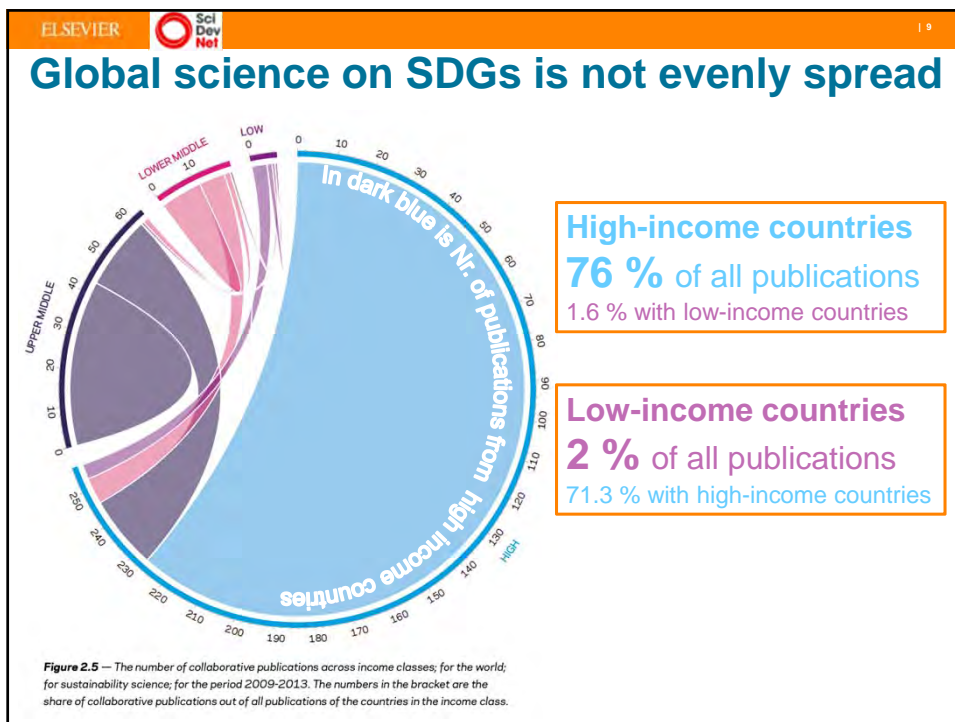
ELSEVIER | 8

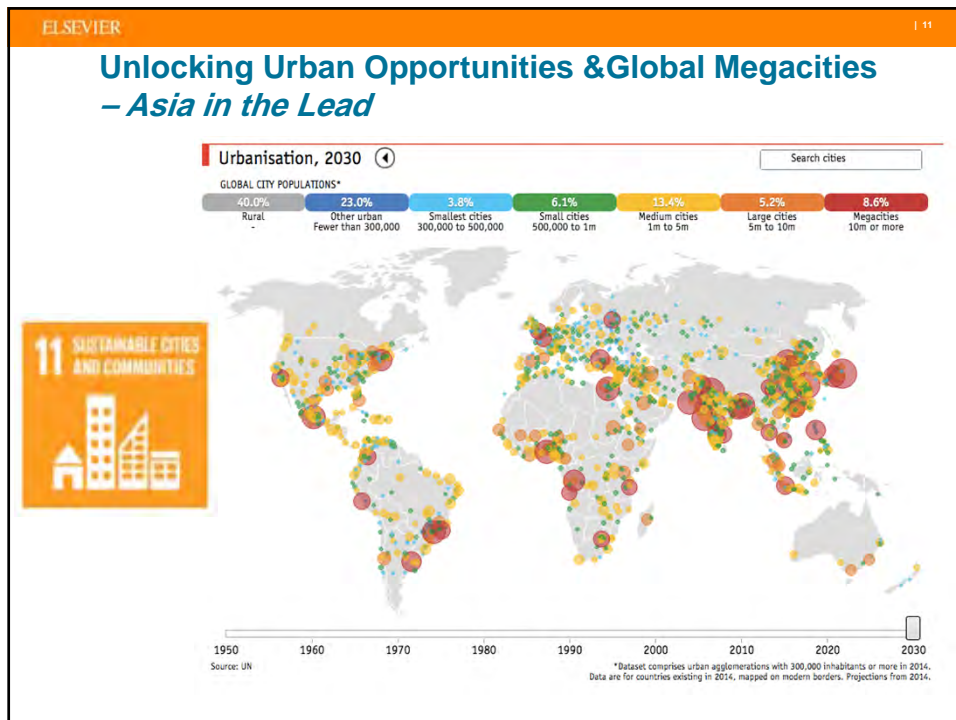
Science Collaborations on the rise

Singapore 60 %
Japan 40 %
Indonesia 80 %

Computed by Olivier H. Beauchêne and SCImago Lab, data by Elsevier Scopus

<http://olihb.com/2014/08/11/map-of-scientific-collaboration-redux/>





ELSEVIER | 13

3 points for further discussion

- 1** Inclusiveness to fully benefit from Digitalization
– stronger public-private partnerships on Open Science
- 2** Sustainability science grows fast in Asia
– a win-win for all
- 3** Sustainable urban development
- Cities are the knowledge hubs

ELSEVIER | 14 | 14

Thank you!