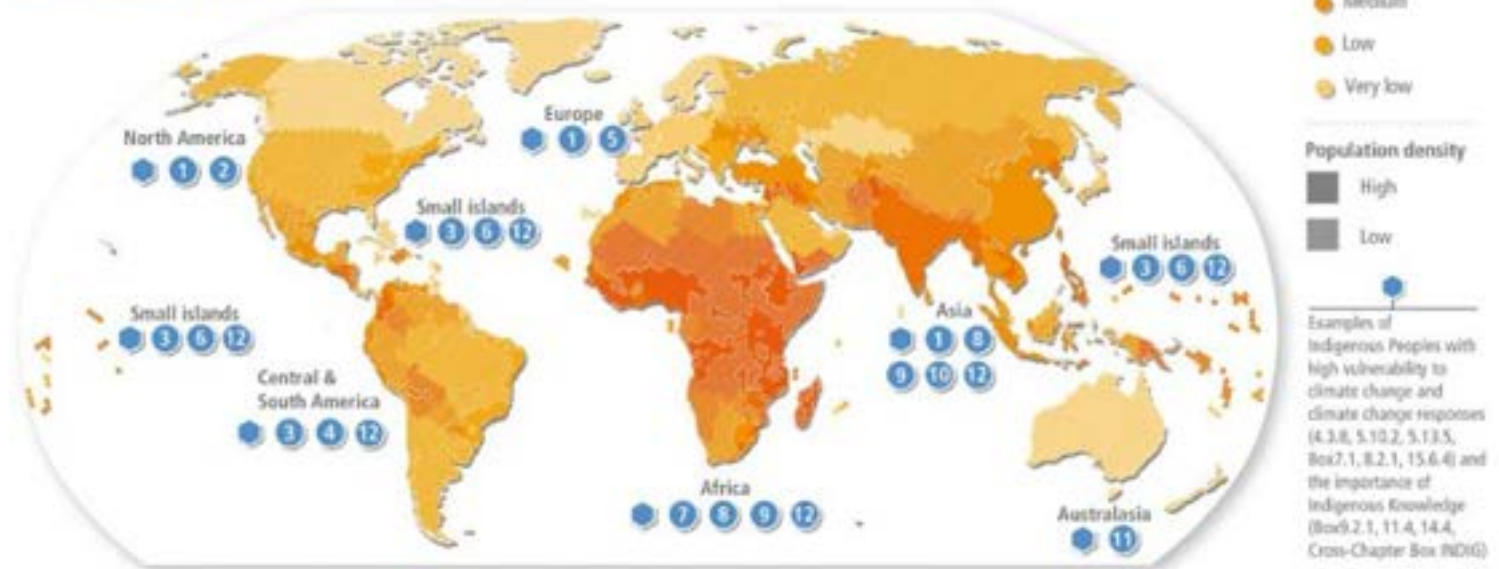


Observed human vulnerability differs between and within countries and strongly determines how climate hazards impact people and society

(a) Map of observed human vulnerability based on two comprehensive global indicator-systems using national data, plus examples of selected local vulnerable populations and Indigenous Peoples



Examples of local vulnerable populations | Examples of some aspects of vulnerability | Chapter references

- | | |
|--|--|
| <ul style="list-style-type: none"> 1 Indigenous Peoples of the Arctic health inequality, limited access to subsistence resources and culture CCP 6.2.3, CCP 6.3.1 2 Urban ethnic minorities structural inequality, marginalisation, exclusion from planning processes 14.5.9, 14.5.5, 6.3.6 3 Smallholder coffee producers limited market access & stability, single crop dependency, limited institutional support 5.4.2 4 Indigenous Peoples in the Amazon land degradation, deforestation, poverty, lack of support 8.2.1, Box 8.6 5 Older people, especially those poor & socially isolated health issues, disability, limited access to support 8.2.1, 13.7.1, 6.2.3, 7.1.7 6 Island communities limited land, population growth and coastal ecosystem degradation 15.3.2 | <ul style="list-style-type: none"> 7 Children in rural low-income communities food insecurity, sensitivity to undernutrition and disease 5.12.3 8 People uprooted by conflict in the Near East and Sahel prolonged temporary status, limited mobility Box 9.1, Box 8.4 9 Women & non-binary limited access to & control over resources, e.g. water, land, credit Box 9.1, CCB-GENDER, 4.8.3, 5.4.2, 10.3.3 10 Migrants informal status, limited access to health services & shelter, exclusion from decision-making processes 6.3.6, Box 10.2 11 Aboriginal and Torres Strait Islander Peoples poverty, food & housing insecurity, dislocation from community 11.4.1 12 People living in informal settlements poverty, limited basic services & often located in areas with high exposure to climate hazards 6.2.3, Box 9.1, 9.9, 10.4.6, 12.3.2, 12.3.5, 15.3.4 |
|--|--|

A draft map on observed human vulnerability which was deleted from the report's summary for policymakers. A similar map was published in the full report. (Source: Draft SPM IPCC Working Group III)

Which countries are 'particularly vulnerable' to climate change?

The European Union pushed to restrict loss and damage funds to "particularly vulnerable" nations, but the definition is still up for debate

Changes needed

- **Reduce greenhouse gases.** The European Climate - Europe's economy and society to **become climate-neutral by 2050**. The law also sets the intermediate target of **reducing net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels**.
- Climate neutrality by 2050 means achieving net zero greenhouse gas emissions for EU countries as a whole, mainly by cutting emissions, **investing in green technologies** and **protecting the natural environment**.
- **System changes: Economy, Technology, Social, Education**
- **Rules, regulations, taxes, incentives, behavior, work,**

INNOVATIONS

- Circularity
- Sufficiency
- Resilience

- Recycle
- Repair
- Regenerate

Digitalisation

- Preventive
 - Early warning systems, sensors, IOT, satellite data
 - Education: primary schools, upper secondary schools, higher education, Public
 - Media, social media
 - Research
 - Decision-making systems and data for decision-makers, transparency, inclusion
- Disaster action
 - Monitoring systems; collaboration, resources, timing, skills, maps
 - Media, social media; public information, social
- Recover, restore, rebuild, renew
 - Longterm action and planning
 - Local resources and needs



Swedish innovation
<https://solvatten.org/>

- 💧 Clean, heated water in 2-6 hours
- 💧 Provides approximately 6,000 liters per year
- 💧 An indicator shows when the water is clean
- 💧 Can be used several times a day
- 💧 Simple to use and easy to carry
- 💧 Lasts a long time, 7-10 years
- 💧 Needs no batteries, spare parts or chemicals



3 GOOD HEALTH
AND WELL-BEING



6 CLEAN WATER
AND SANITATION





Everything starts with safe water

[Collaborate](#)

[Donate](#)

WHAT WE DO

Just add sun

Our mission is to provide people living in developing countries with safe and hot water in a portable, environmentally friendly way

[Read more](#) 

40

countries are using
our product

450

thousand users
across the world

70

projects and partners



Vital Signs: First Aid Platform (FAP)

Swedish innovation



Sensors applied to the individual transfer data directly to emergency care:

- Trauma
- Elderly
- Relatives
- Medical treatment follow up

Data such as: oxygen saturation, pulse and body temperature from the scene of the accident to the emergency healthcare

Substituting plastic with bio-material Stora Enso innovations (Sweden-Finland)

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Contact

Products

Sustainability

MAIN MENU



Latest innovations:

<https://www.storaenso.com/en>



Next generation eco-products to replace plastic

PureFiber™ by Stora Enso is a new selection of formed fiber products for single-use food packaging items such as plastic-free and PFAS-free cups, bowls and coffee cup lids as well as for non-food items.



A new eco-friendly material for folding cartons

Performa Light™ by Stora Enso is a plastic-free, lightweight and low carbon material for premium folding cartons. Performa Light™ can be used for chocolate boxes, confectionery packaging, cosmetics packaging and personal care



A food-safe kraftliner for corrugated packaging

AvantForte™ by Stora Enso is a 3-layer structured kraftliner for corrugated packaging, made from 100% virgin fibers. It meets brand owners' need for high-performing, safe and plastic-free packaging while using less material.



A renewable, fiber-based box for fresh berries

In Finland, fresh berries are an essential part of summer. Stora Enso introduced EcoFreshBox, a berry box made from corrugated board, to combat global plastic waste problem. The raw material of the box is made from sustainably



Our renewable products



Formed fiber



Biocomposites



Bio-based chemicals



Bio-based materials



Paperboard materials



Corrugated Packaging Solutions



Other packaging products



Wood foam



Get in touch



Solutions



Mass timber construction



Wood Products



Lignin



Paper



Market pulp



Pellets



Services



Get in touch

Total world number of students in Higher Education

– larger than the population of Russia or Nigeria



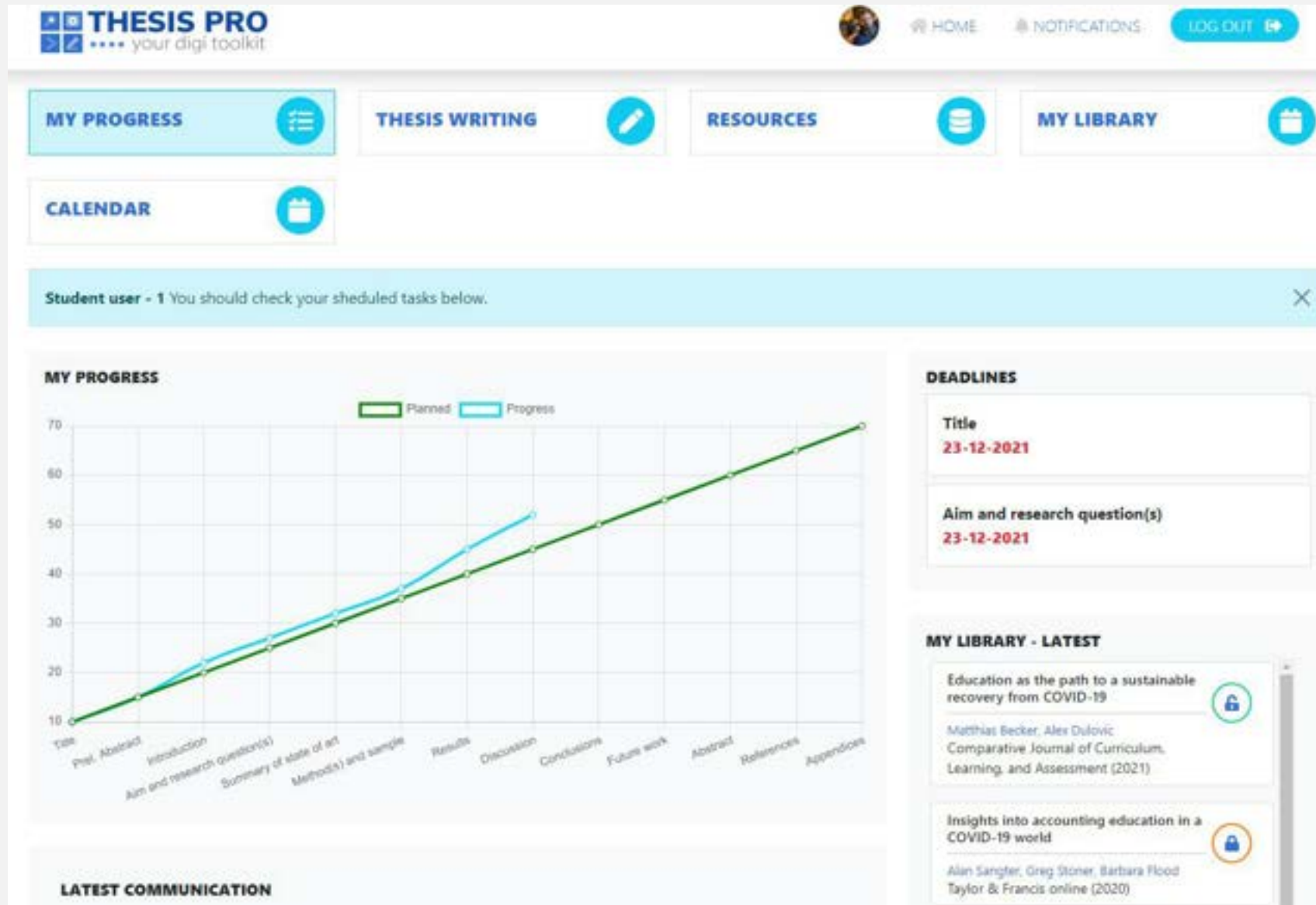
Source: OECD, Education at a Glance 2011

4 QUALITY EDUCATION



377m
2030
(Calderon, 2018)

Screen shot from system



ThesisPro
Swedish Edtech
innovation

4 QUALITY
EDUCATION



Connect 100 000 students in Sri Lanka with companies and create micro-project contributions to the sustainability goals. See Chaminda Wijesinghe's PhD thesis (2022)

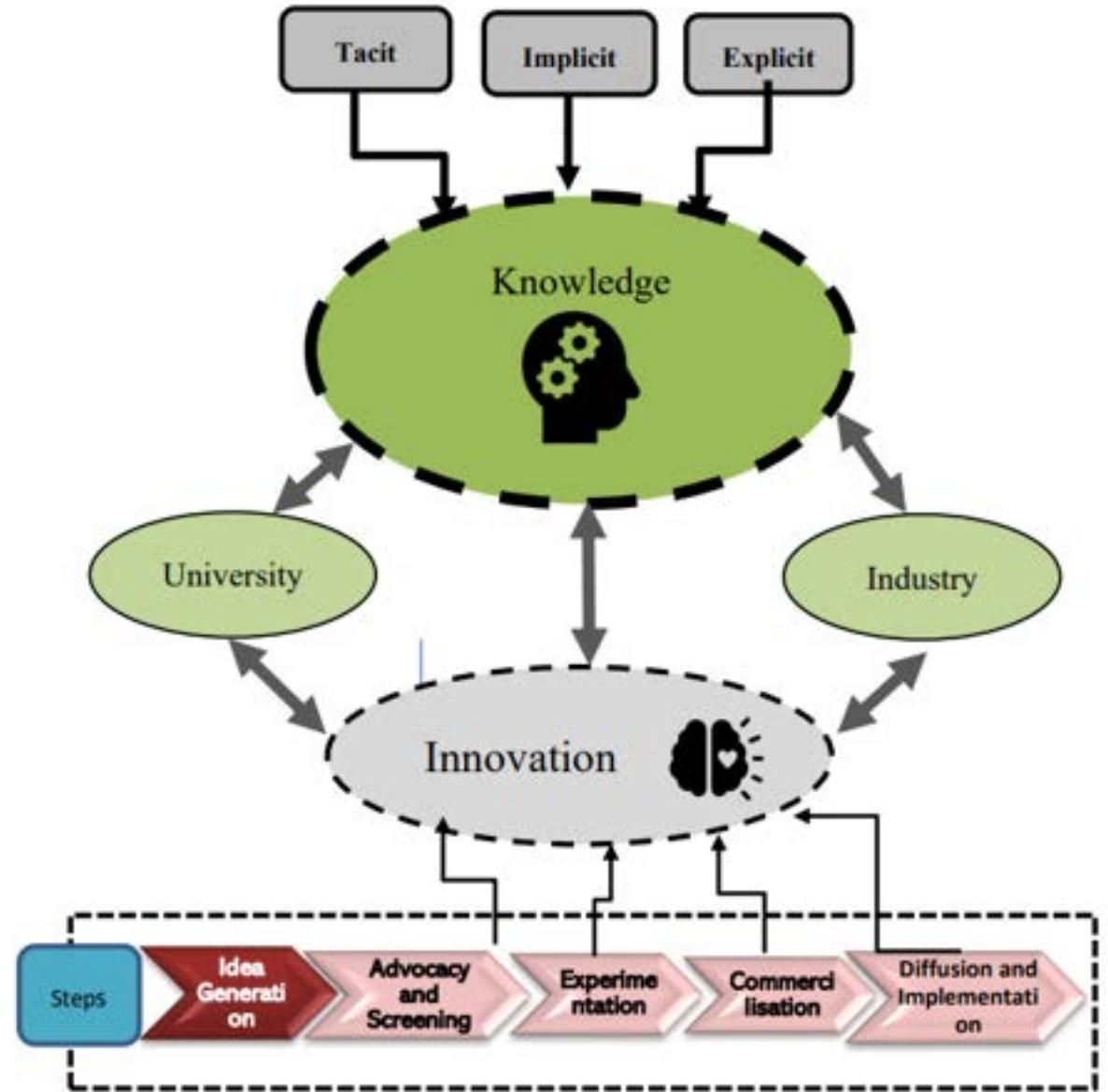


Figure 4: University-industry collaboration conceptual map

Digitalise the matching between stakeholders

Local, national and global development



Triple benefits:

- 1. University benefits**
-Student, supervisor, department; get questions/problems from the wider society
- 2. Partner benefits**
-Businesses; get access to students and researches
- 3. Society benefits**
- development; city, village, citizens

ALUMNAE

CIVIL SOCIETY

IMPACT

REAL-LIFE ISSUES



Researchers/teachers/admin

Facilitates collaboration

- Between universities
- Between departments
- With external organisations
- Connect R&D to students' exam work

Bachelor, Master, PhD students exam work aligned to SDGs

