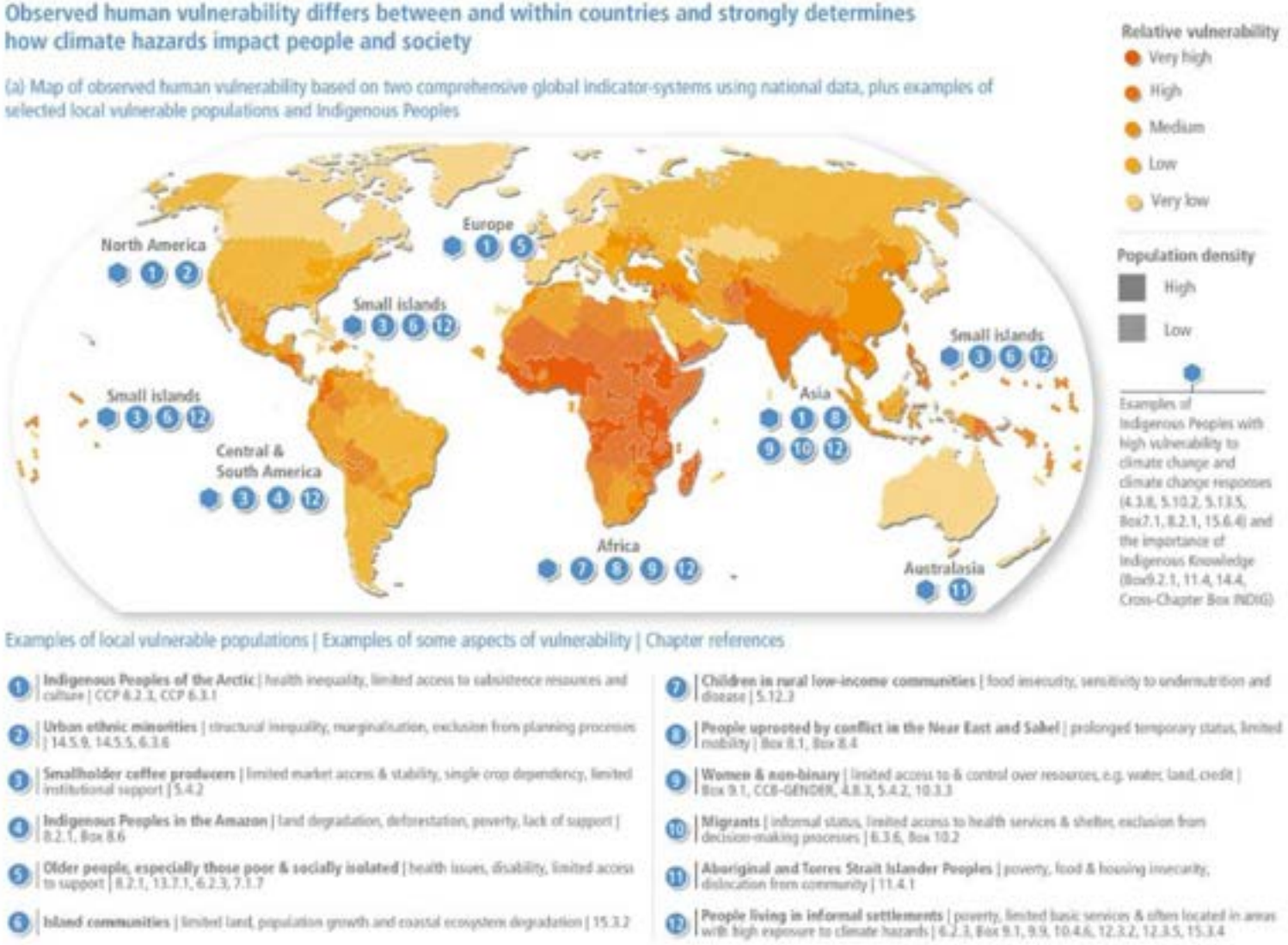


A draft map on observed human vulnerability which was deleted from the report's summary for policymakers. A similar map was published in the full report. (Source: Draft SPM IPCC Working Group II)

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

https://www.climatechangenews.com/2022/12/08/which-countries-are-particularly-vulnerable-to-climate-change/#:~:text=Climate%20change%20is%20felt%20by,to%20be%20the%20most%20vulnerable.

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

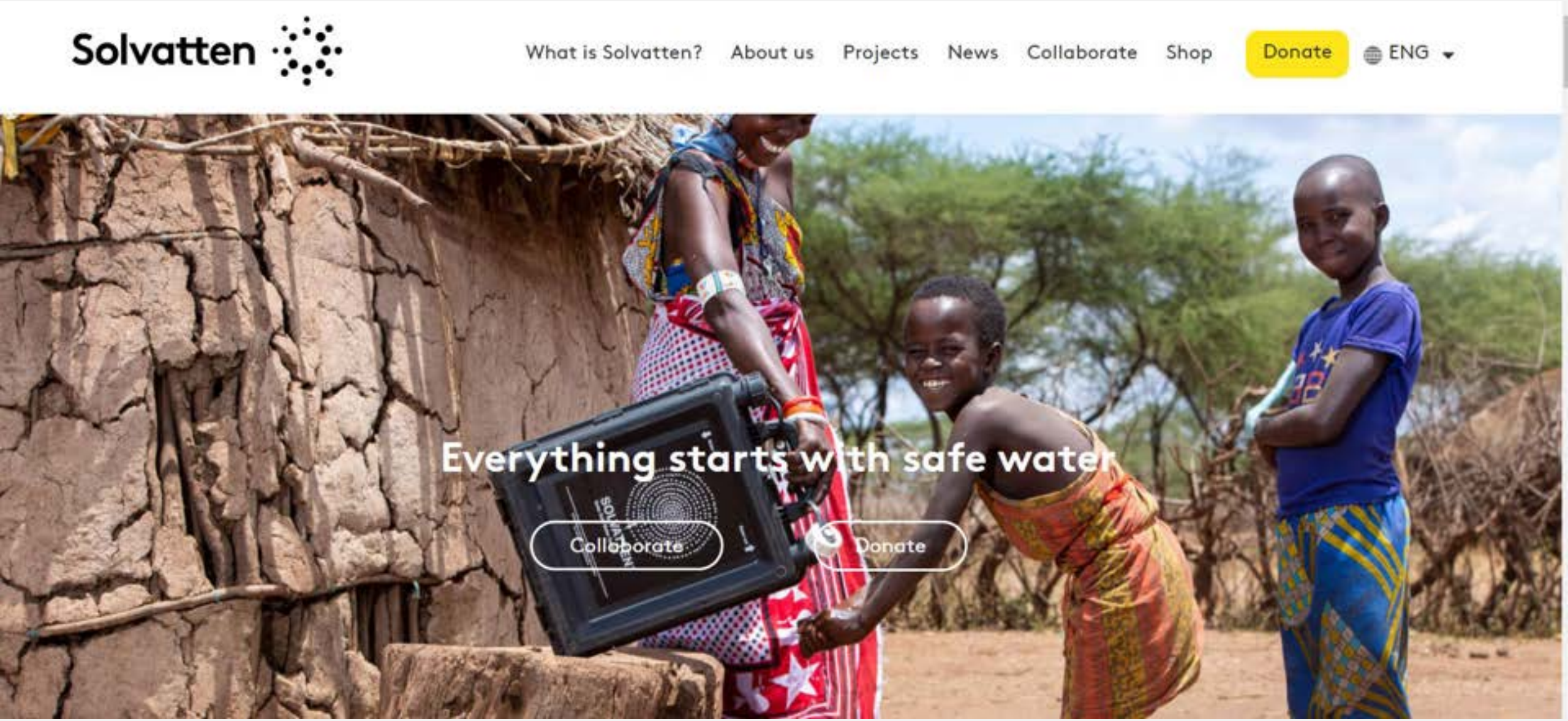
Solvatten

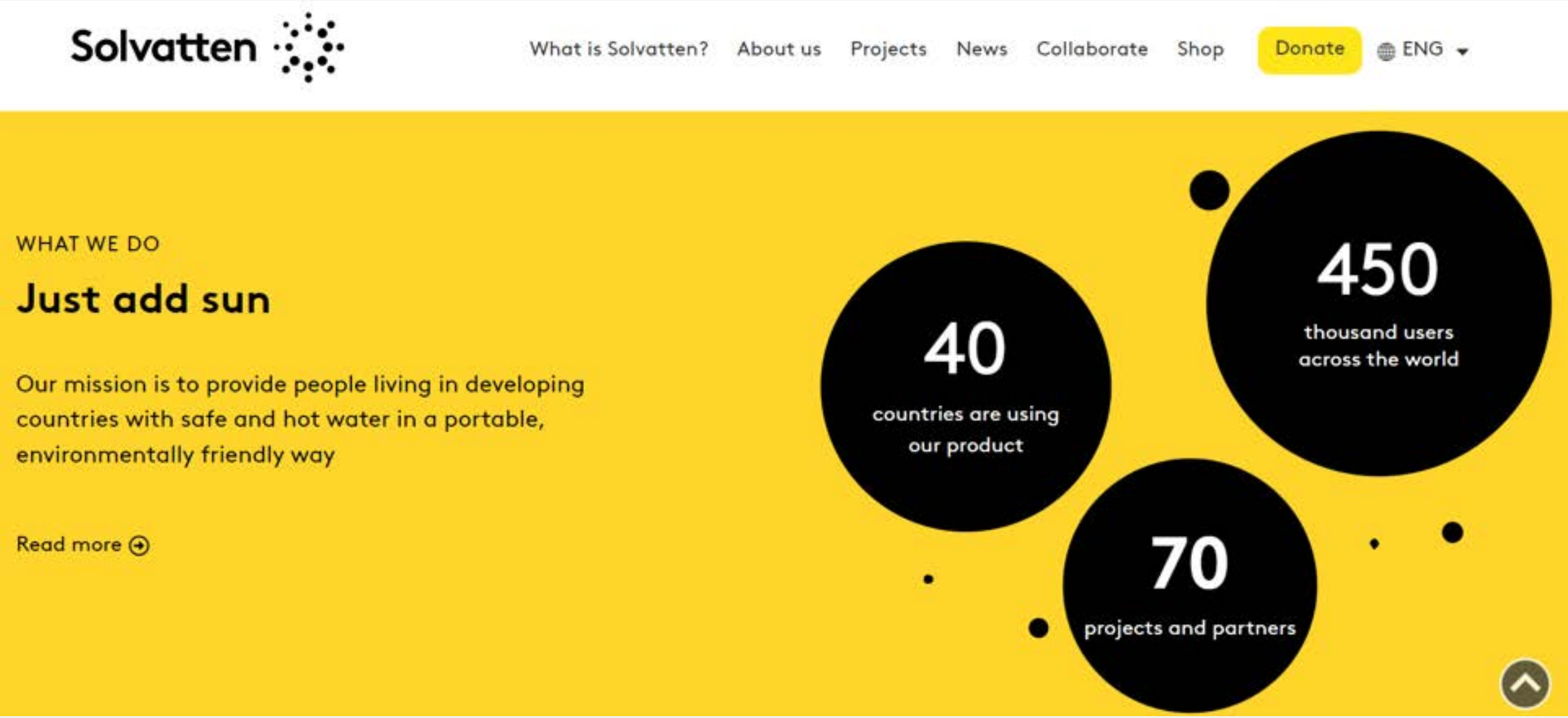
Swedish innovation
https://solvatten.org/

- 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


Solvatten
What is Solvatten?
About us
Projects
News
Collaborate
Shop
Donate
ENG
Everything starts with safe water
Collaborate
Donate


Solvatten
What is Solvatten?
About us
Projects
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Shop
Donate
ENG
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

CEO: jens.ohlsson@vitalsigns.se

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

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

https://www.storaenso.com/en

Latest innovations:

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 ...s 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

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

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

Contact Products Sustainability

MAIN MENU INTERNATIONAL

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Solutions

Mass timber construction

Wood Products

Lignin

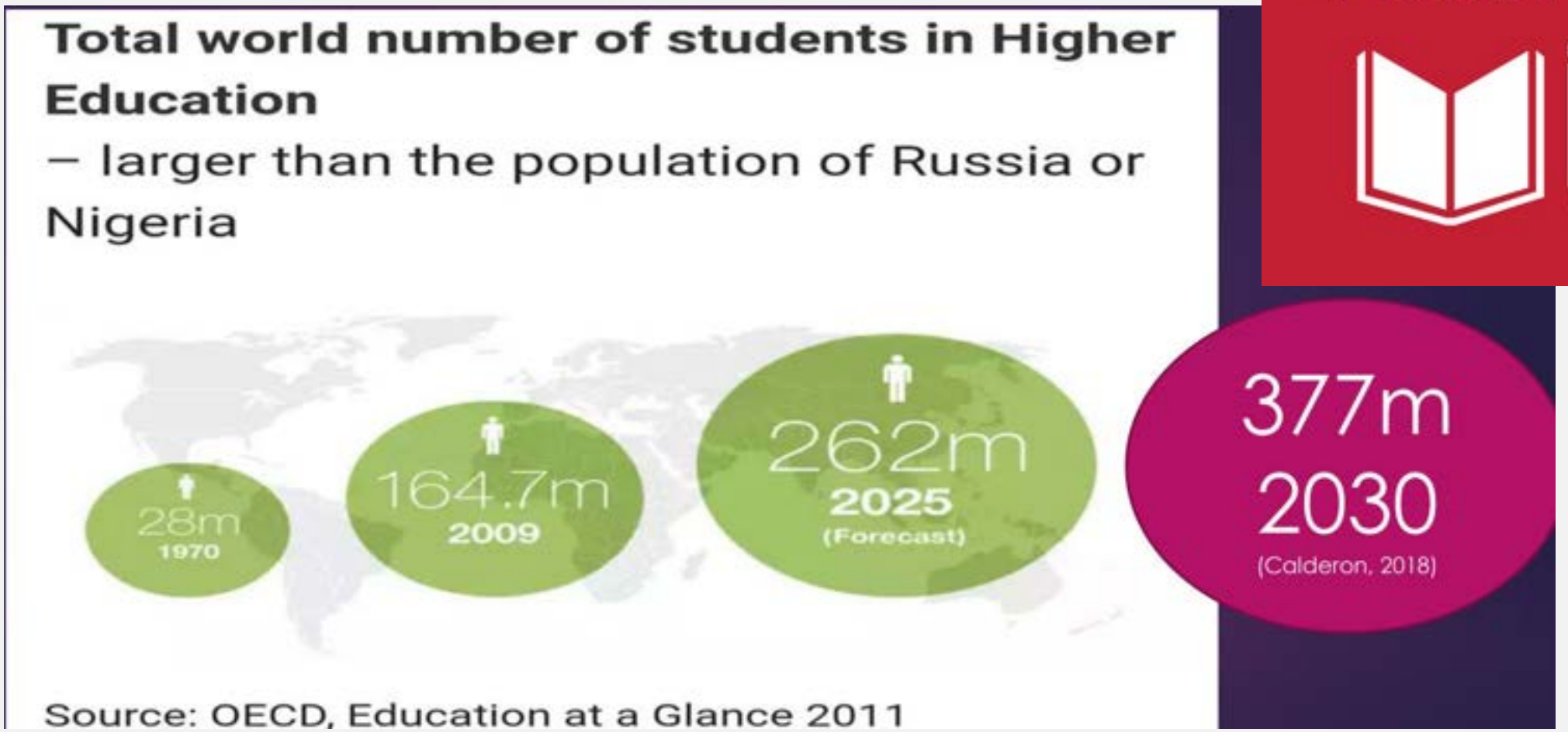
Paper

Market pulp

Pellets

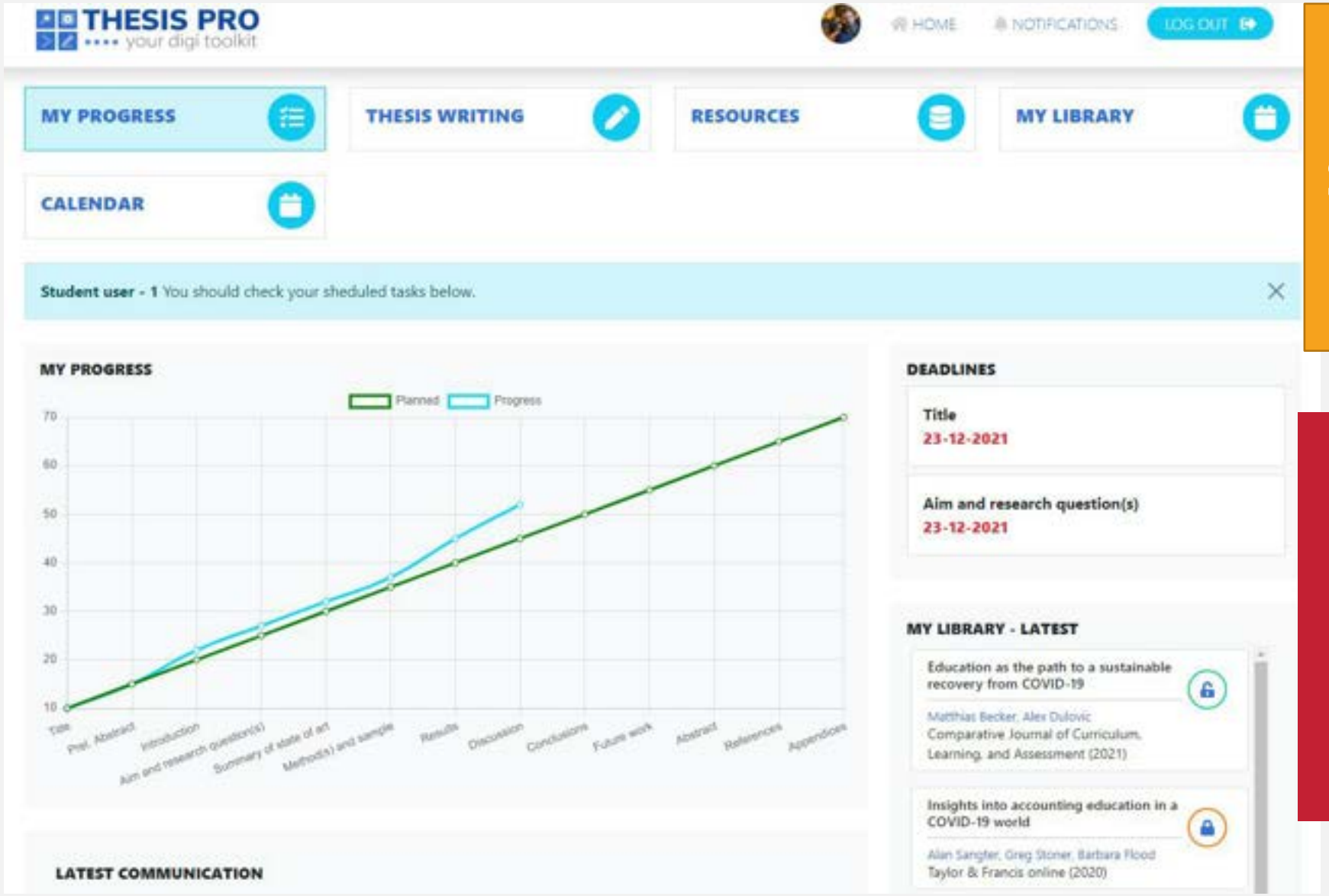
Services

Get in touch


Total world number of students in Higher Education
– larger than the population of Russia or Nigeria
28m
1970
164.7m
2009
262m
2025
(Forecast)
377m
2030
(Calderon, 2018)
Source: OECD, Education at a Glance 2011

STUDENT: PROGRESS

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)

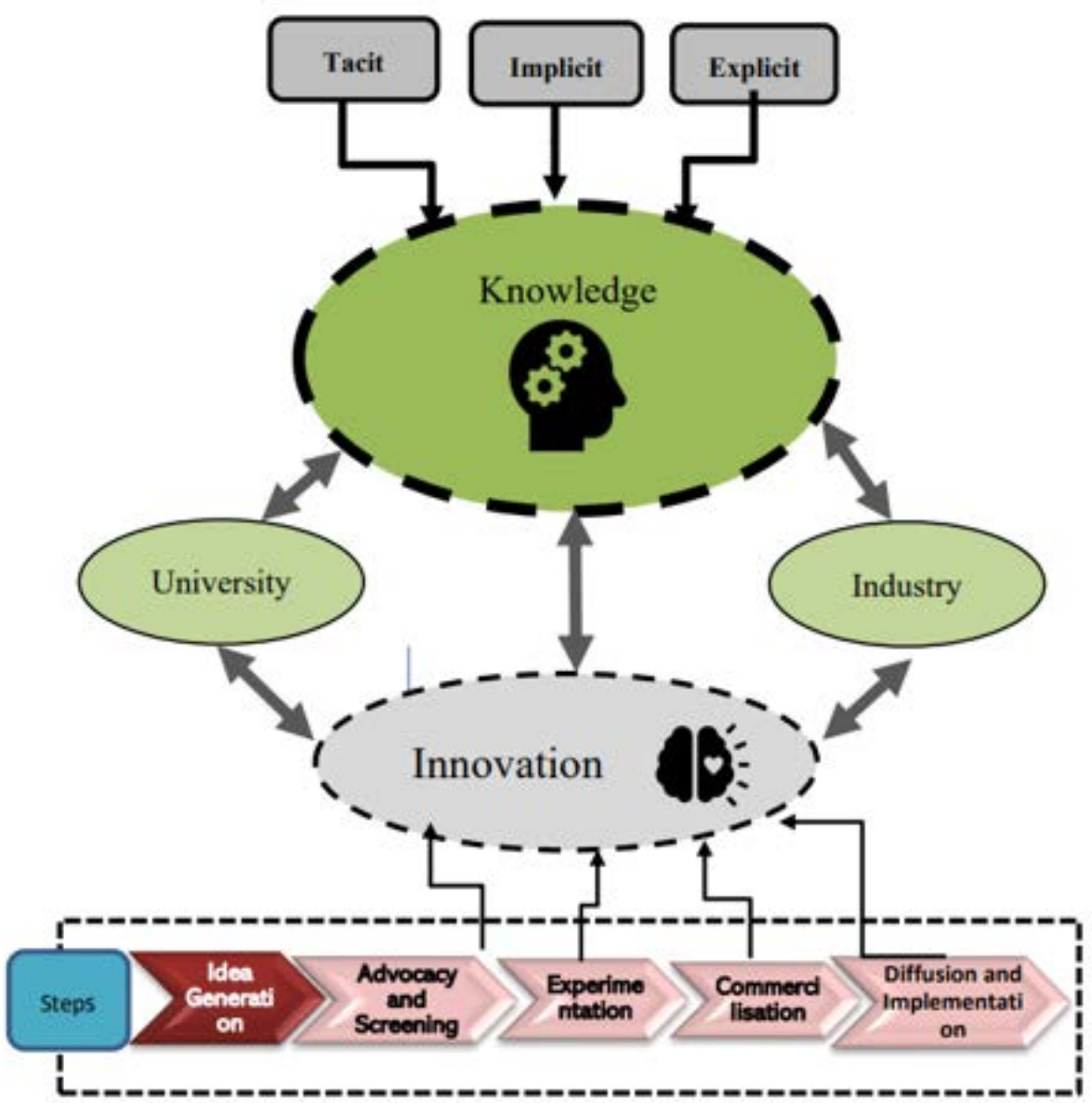


Figure 4: University-industry collaboration conceptual map

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

4 QUALITY EDUCATION