

An abstract graphic featuring a network of interconnected hexagons in various colors (blue, orange, purple, pink, green, white) and circuit-like lines with arrows, suggesting a technological or scientific theme.

Welcome to Flanders

Johan Hanssens, Secretary General
Department of Economy, Science and Innovation (EWI)

FUST OCEAN 14 MAY 2018

► **FLANDERS**

FLANDERS & FUST

► **FUST**



United Nations
Educational, Scientific and
Cultural Organization



20th Anniversary of
UNESCO-Flanders
Cooperation Agreement

DEPARTMENT OF
ECONOMY, SCIENCE & INNOVATION



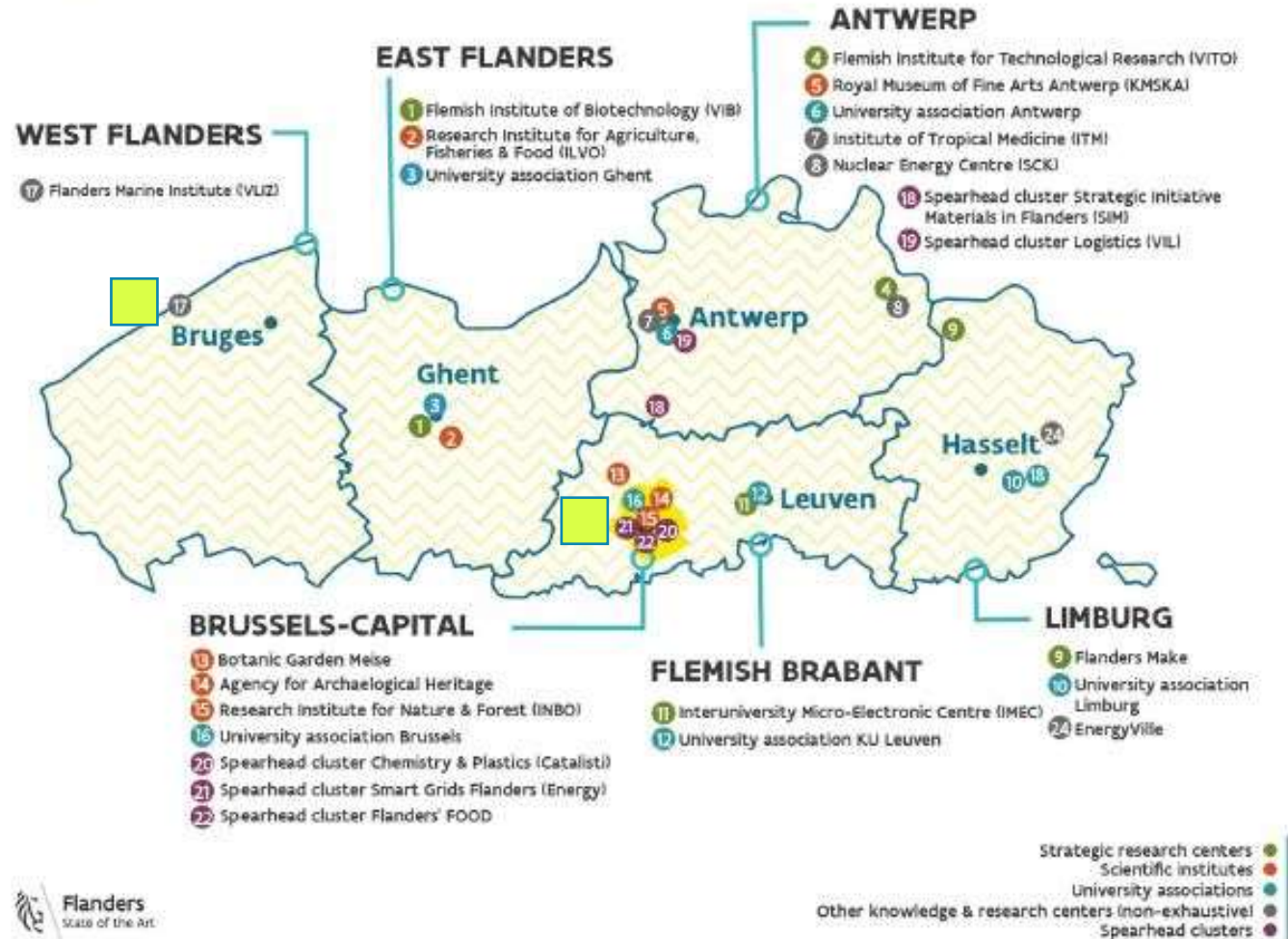
Welcome to Flanders...

A research and innovation friendly region

- With a very open and innovation-driven economy
- home to numerous research institutes, universities and a highly-trained workforce
- with a long history of innovative academic excellence
- Supporting a tight network of R&D clusters that offer interesting opportunities for collaboration
- In the heart of Europe

... a strong knowledge base ...

Figure 6 : Geographical presentation of the main public actors in scientific research and innovation in Flanders



... triple helix supports clustering...

Spearhead clusters

Innovative business networks

- **Cluster organisation** as facilitator
- **Removal of obstacles** for growth
- Activities along the **innovation spectrum** (all TRL-levels)

Strategic domain (6)	Bottom up (14)
Ambitious, large scale	Smaller scale
Long term vision – intermediate results	Short term results
Triple helix (comp, KI, gov)	All relevant actors, focus on businesses
Contractual agreement based on comp. progr.	Contractual agreement based on action plan
Commitment of all partners in clusterpact	
Max 10j, max 500 k€/y funding	Max 3j, max 150 k€/y funding
50% private investment	50% private investment

... with strong 'spearhead' clusters...



Catalisti – cluster for sustainable chemistry



SIM – Materials innovation



VIL – Smart Logistics



FLUX50 – Smart Energy region



Flanders' FOOD – cluster for agrofood

Recently approved

Blue Cluster – Maritime and Marine Industry

... and citizen involvement in science ...



Hoeveel zout zit er in de zee?

Nelson, 7 jaar

Stel je vraag op:
vraagvoordewetenschap.be

 Vlaanderen
verbeelding werkt

 VLAAMSE
WETENSCHAPS
AGENDA

... where we have just launched a campaign to invite citizens to reflect on questions that they expect science can help address.

How much salt is there in the sea?

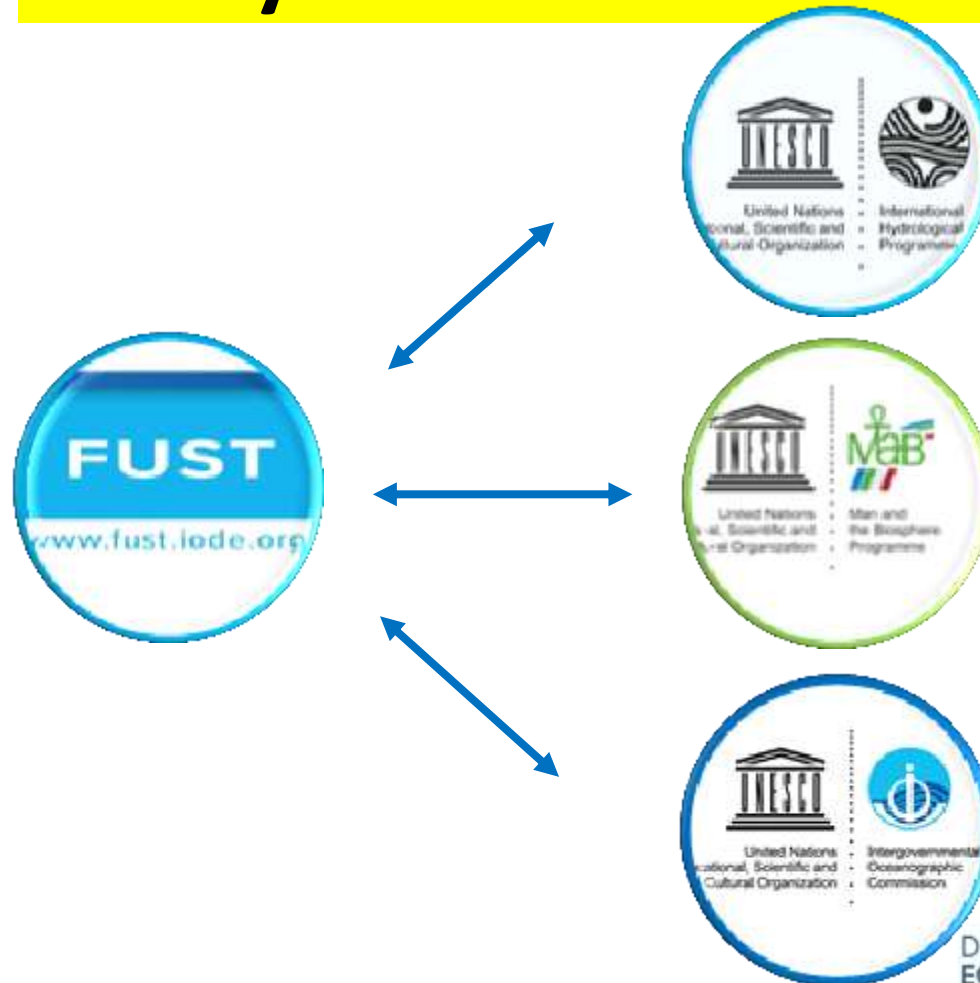
...gearing up to implementing SDGs...



... where the Government's future 'VISION2050' (2015) mainstreamed with the SDGs into a framework of objectives 'VISOR2030' (in process, 2018)



... while FUST supports IOC and other UNESCO Science Programmes, mainly MAB and IHP

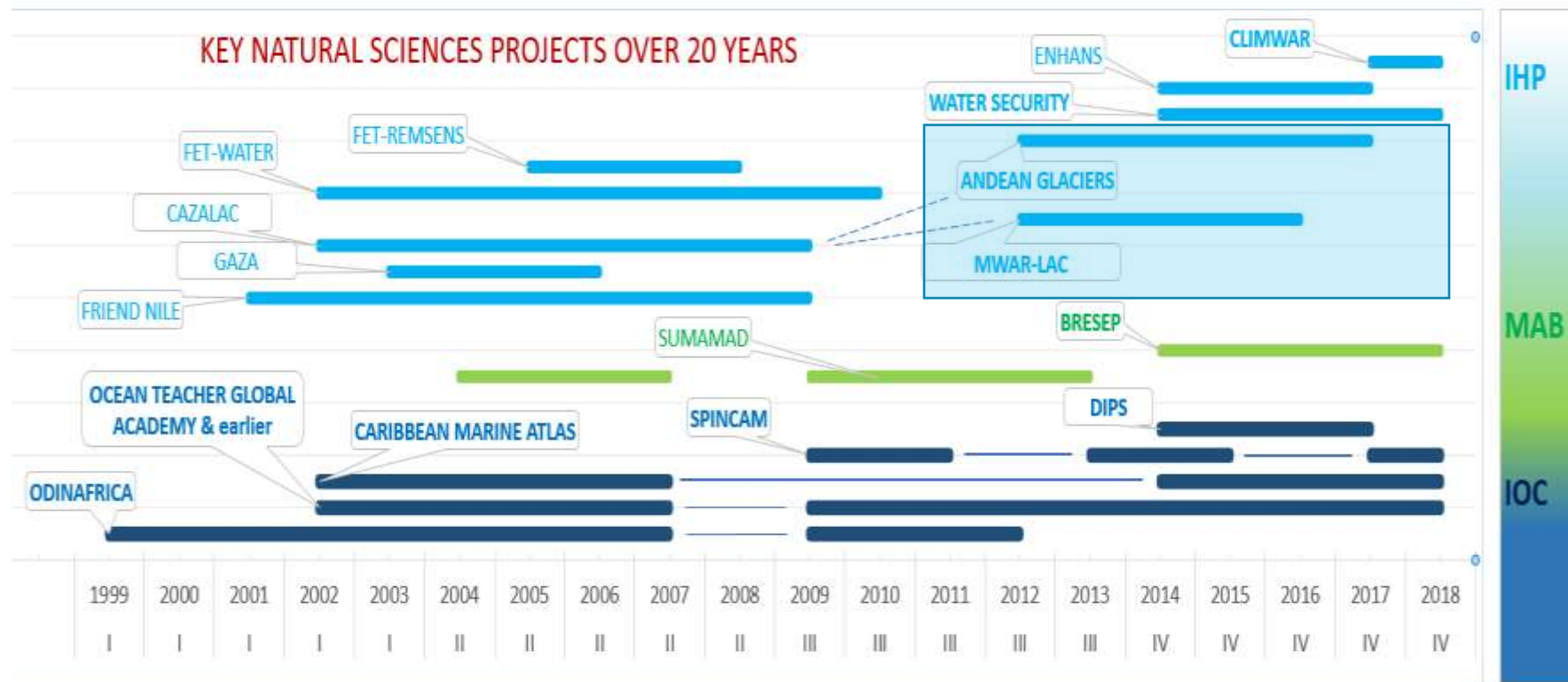


- Freshwater
- Several large projects over the years

- Biodiversity and soils
- 2 main projects so far

- Marine
- Main share of FUST in large project portfolio

... with several network creating multi-annual projects over the last two decades.





United Nations
Educational, Scientific and
Cultural Organization



International
Hydrological
Programme



Flanders
State of the Art



**“Managing Water Resources in Arid and Semi Arid Regions
of Latin America and Caribbean” (MWAR –LAC)**

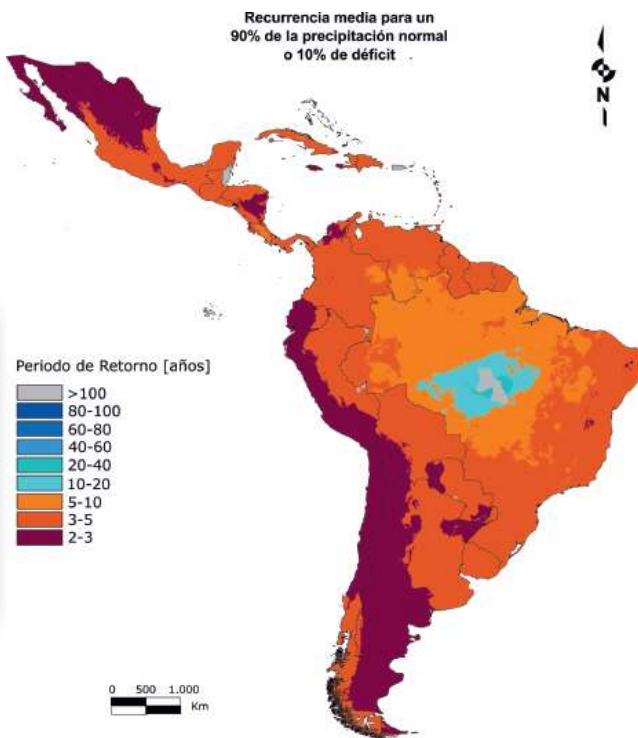
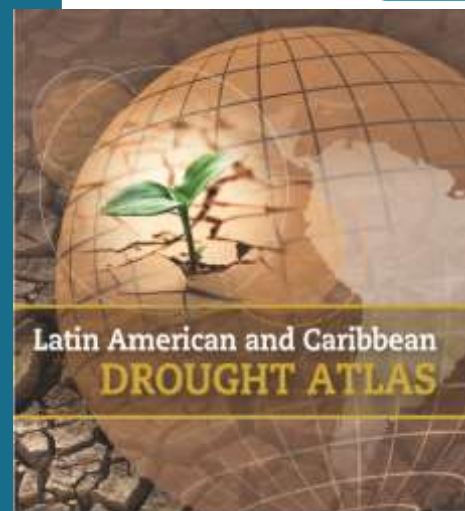


The Latin American and Caribbean Drought Atlas

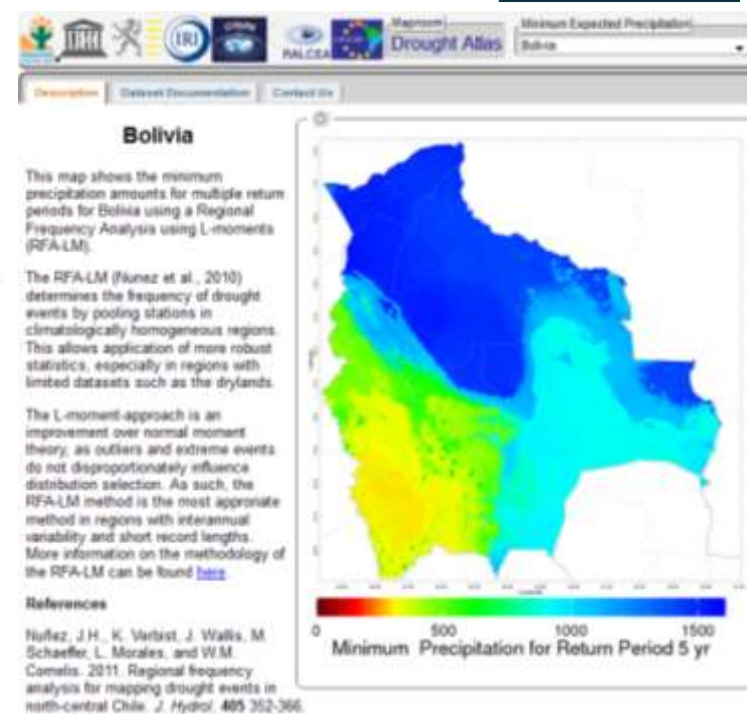
Supporting countries towards proactive drought management

Identifying the frequency of drought events:

- How large a drought should we plan for?
- How rare is the current drought occurring in the country?
- How often do severe droughts occur?



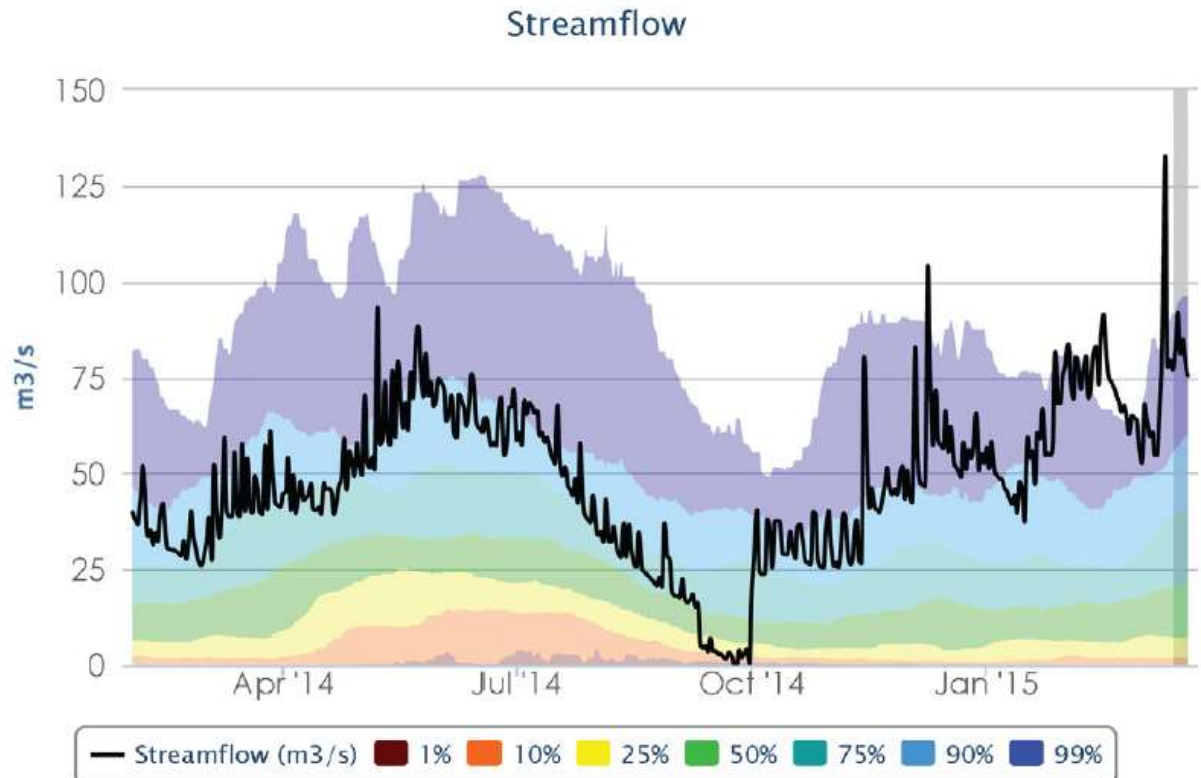
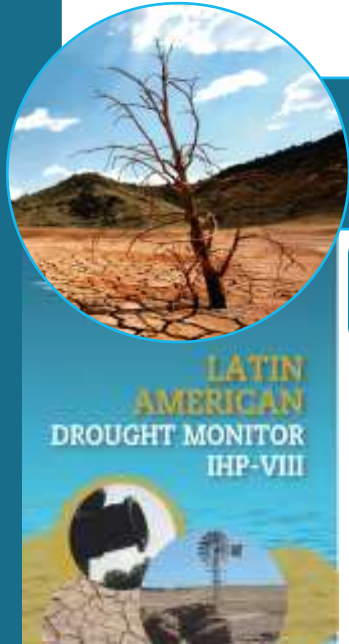
Detailed information for 21 countries



The Latin American Flood and Drought Monitor

Regional Monitoring and Early Warning of Floods and Droughts

- a. Monitoring of Precipitation, Streamflow and Vegetation
- b. Short term forecasting and early warning (7 days)
- c. Longer term seasonal forecasts (3-6 months)





Capacity Buildings and International Conferences

Countries involved in Capacity Building



Participants from 26 countries



324 participants

Brazil / Mexico / Colombia / Argentina / Peru / Venezuela / Chile / Guatemala / Ecuador / Cuba / Haiti / Bolivia / Dominican Republic / Honduras / Paraguay / Nicaragua / El Salvador / Costa Rica / Panama / Uruguay / Jamaica / Bahamas / Saint Lucia / Trinidad and Tobago / United States



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Flanders
State of the Art

ACCOMPLISHMENT REPORT

THE IMPACT OF **GLACIER RETREAT** IN **THE ANDES**

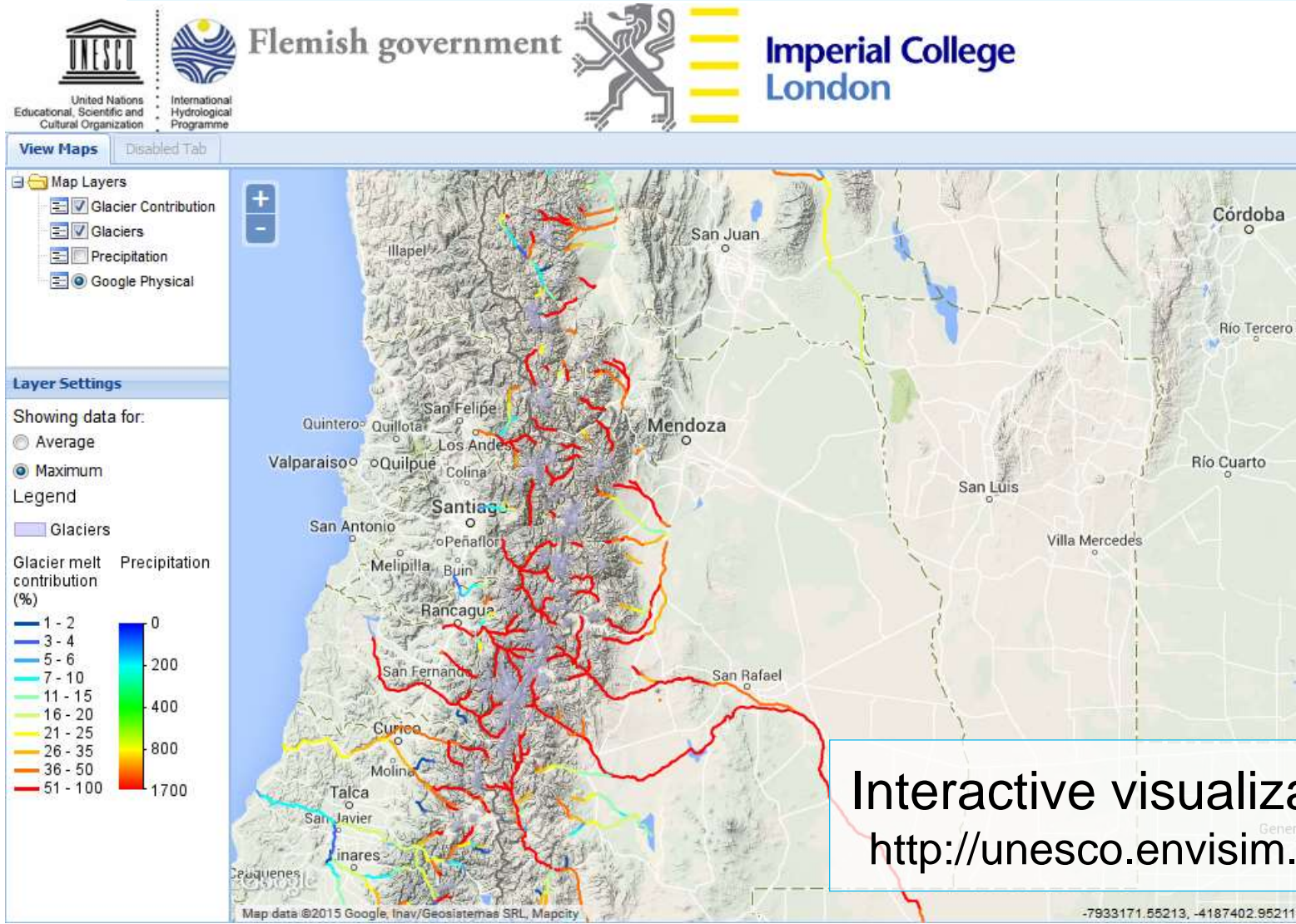
International Multidisciplinary Network
for Adaptation Strategies





The Impact of Glacier Melt on Water Resources: International Network for Adaptation Strategies

Vulnerability Assessment – Contribution of glacier/snow melt to streamflow

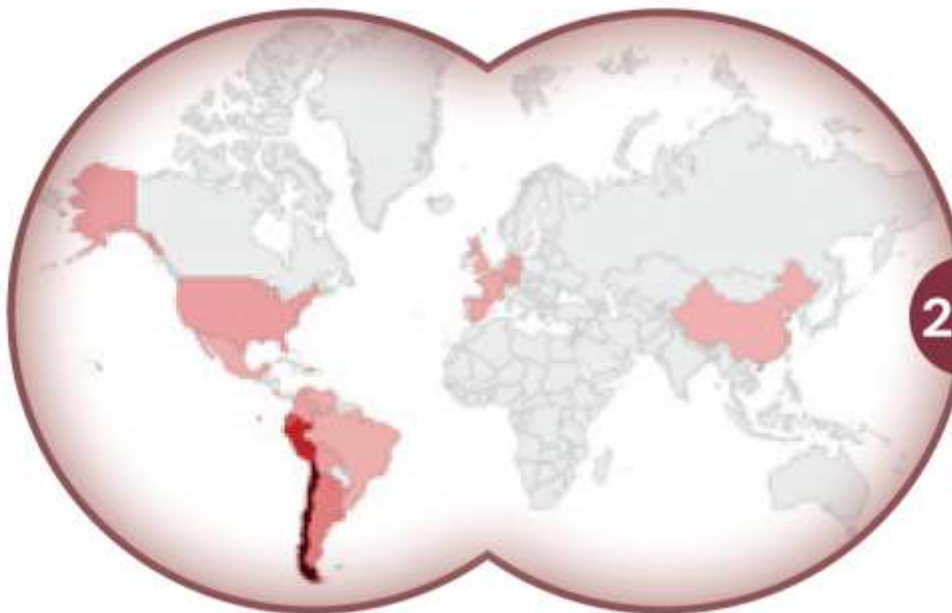




The Impact of Glacier Melt on Water Resources: International Network for Adaptation Strategies

Countries involved in Capacity Building

Participants from **19** countries received training



235 participants were involved

Argentina / Belgium / Bolivia /
Brazil / Chile / China / Colombia /
Costa Rica / Dominican Republic
/ Ecuador / France / Germany /
Mexico / Peru / Spain / United
Kingdom / Uruguay / United States
/ Venezuela