

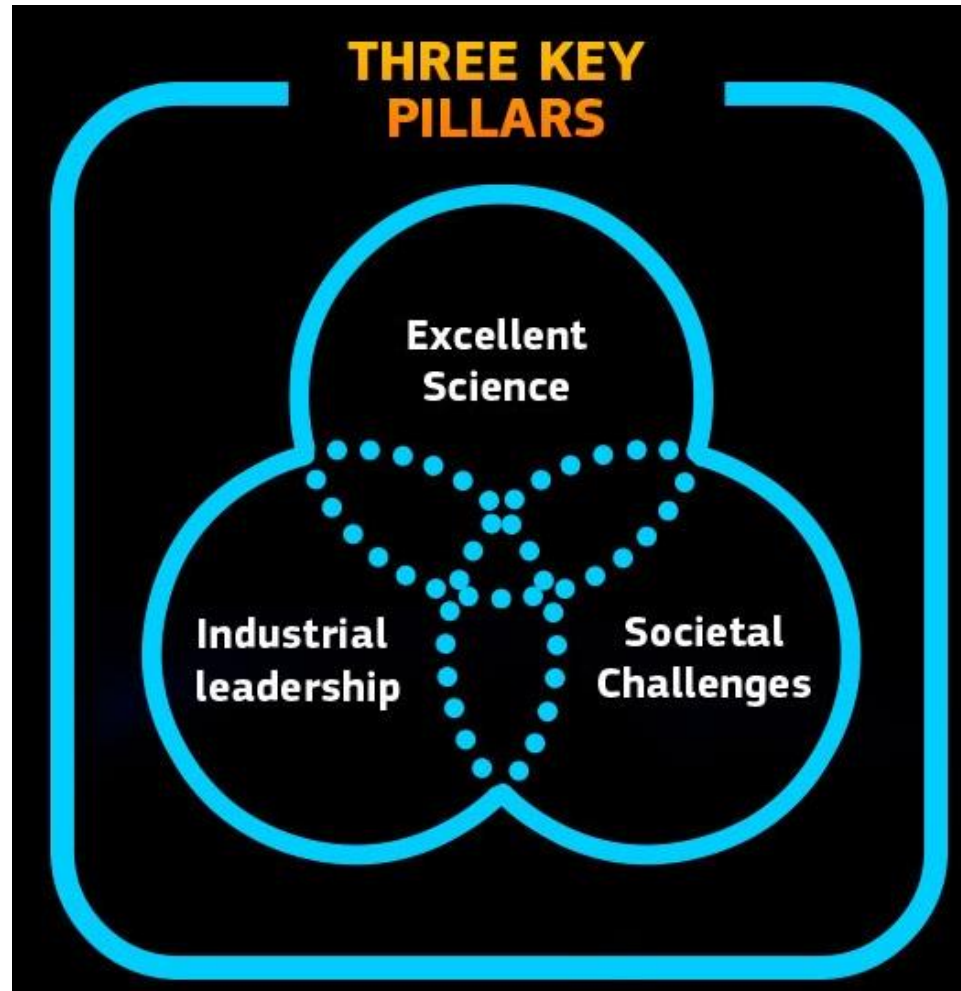
# Enabling International Research Infrastructures!

**"Ideas pull the trigger,  
but instinct loads the gun"**



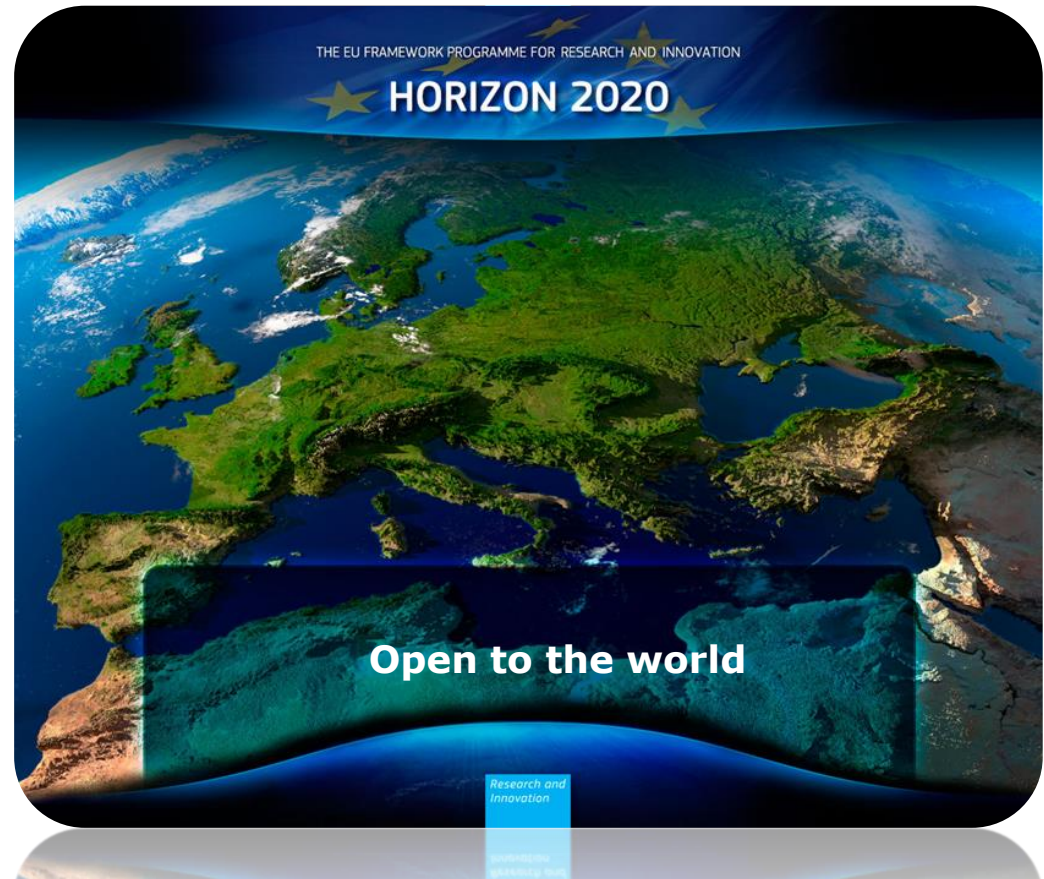
**.....some ideas!**

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# WHAT IS HORIZON 2020?

- A €80 billion research and innovation **funding program** (2014 -2020)
- A response to **economic crisis** by investing in future jobs and growth
- It addresses **people's concerns** about their livelihoods, safety and environment

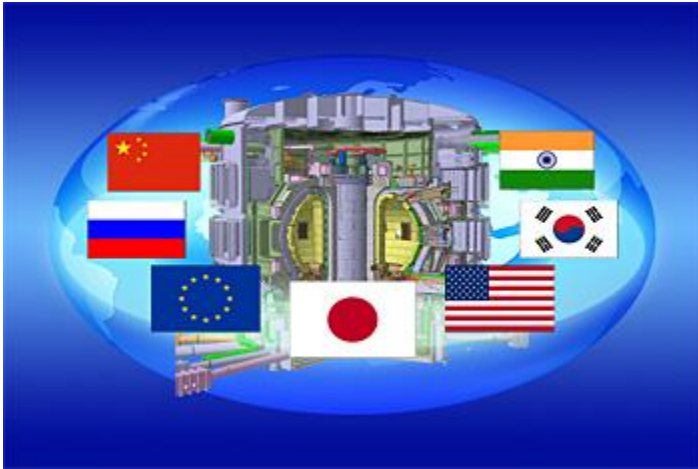




# SUSTAINABLE DEVELOPMENT GOALS



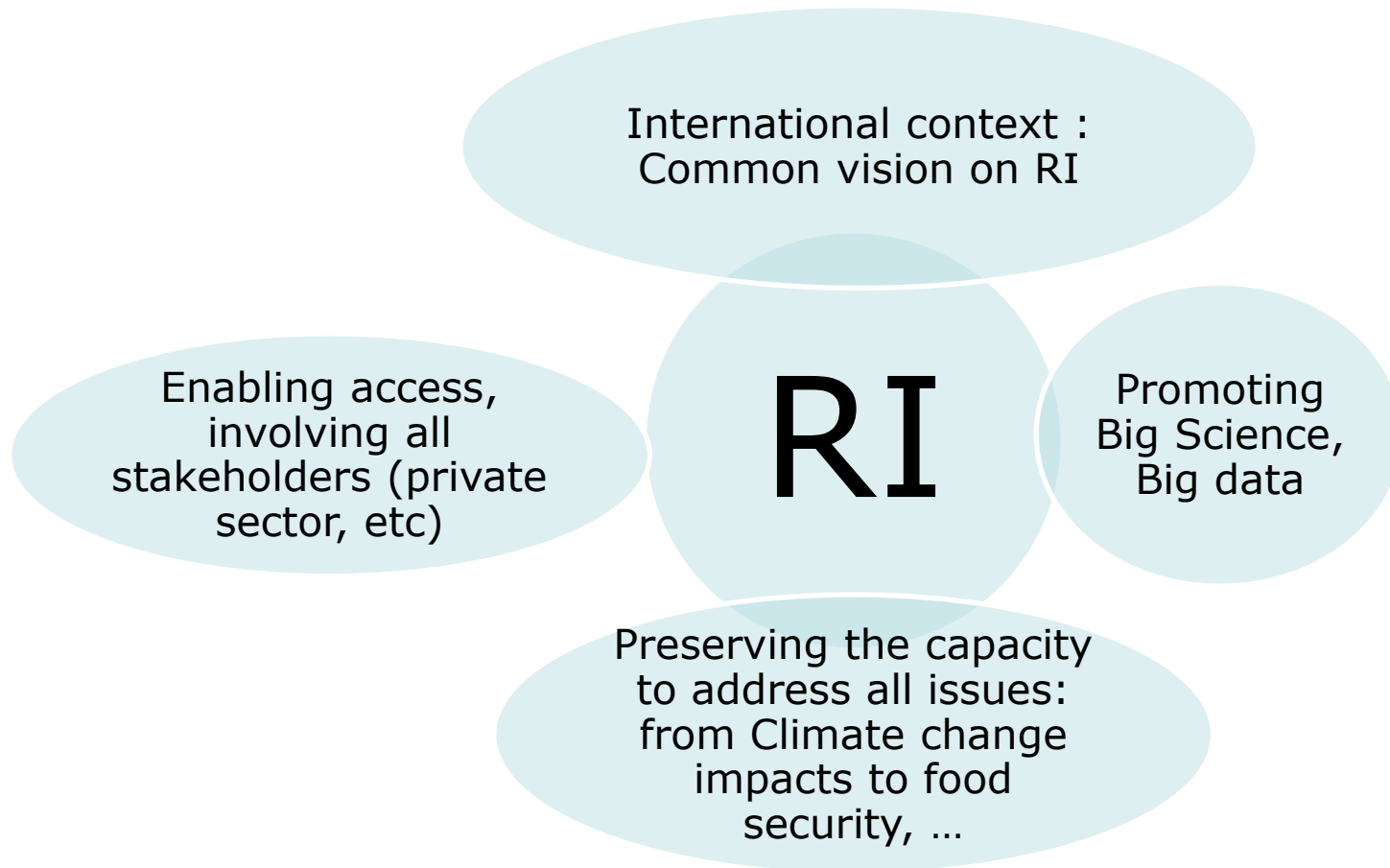


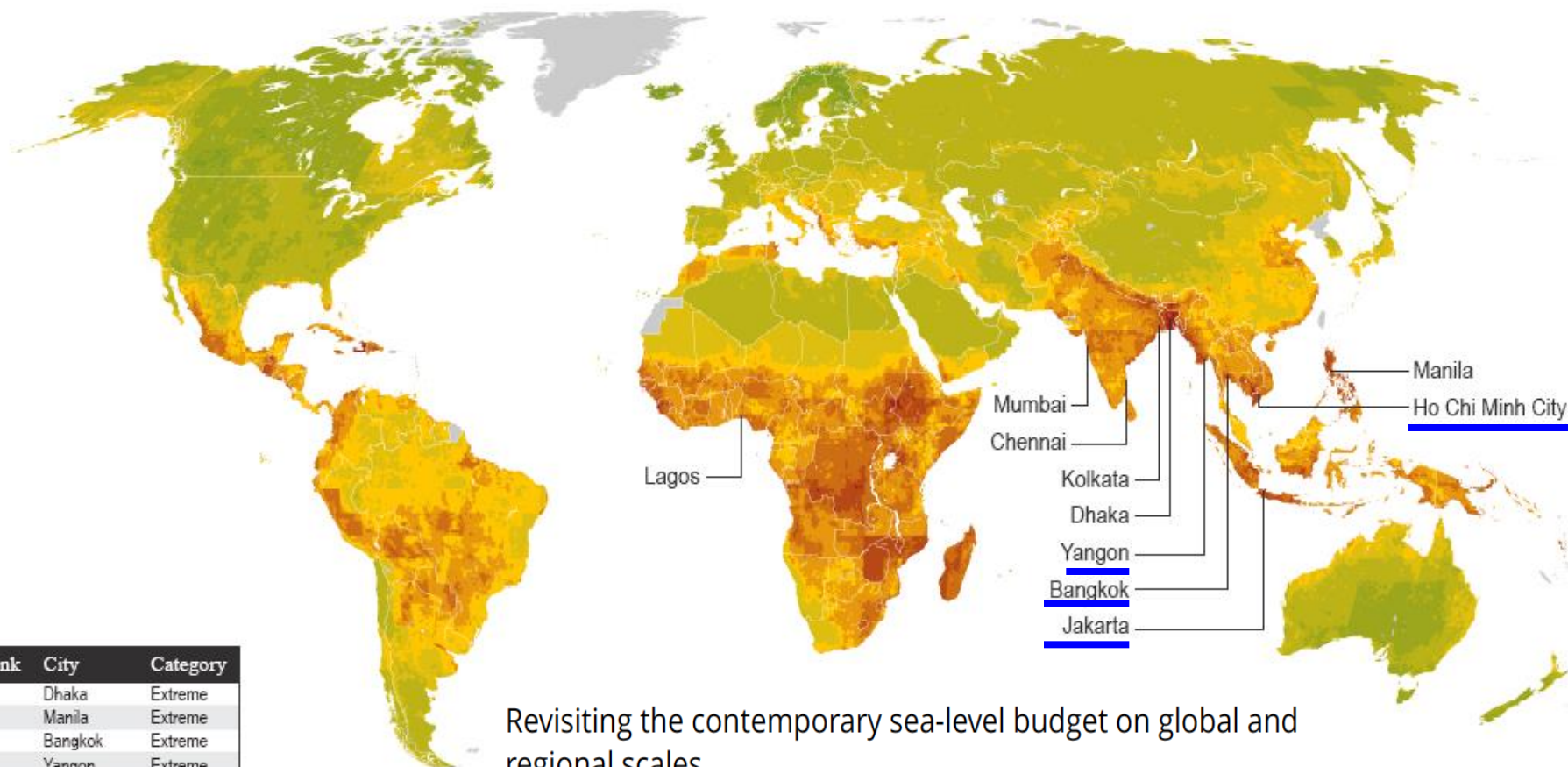


# The RI Challenge

**"setting the scene as a contribution  
to Science and Society"**

# Importance of RI





Rank	City	Category
1	Dhaka	Extreme
2	Manila	Extreme
3	Bangkok	Extreme
4	Yangon	Extreme
5	Djakarta	Extreme
6	Ho Chi Minh	Extreme
7	Kolkata	Extreme
8	Mumbai	High
9	Chennai	High
10	Lagos	High

Revisiting the contemporary sea-level budget on global and regional scales

**Proceedings of the National Academy of Sciences**

*...well above average sea-level rise is found regionally near the Philippines (14.7+/- 4,4 mm/yr) and Indonesia (8,3+/-4.7mm :yr)..*

## Legend

Low Risk

Extreme Risk





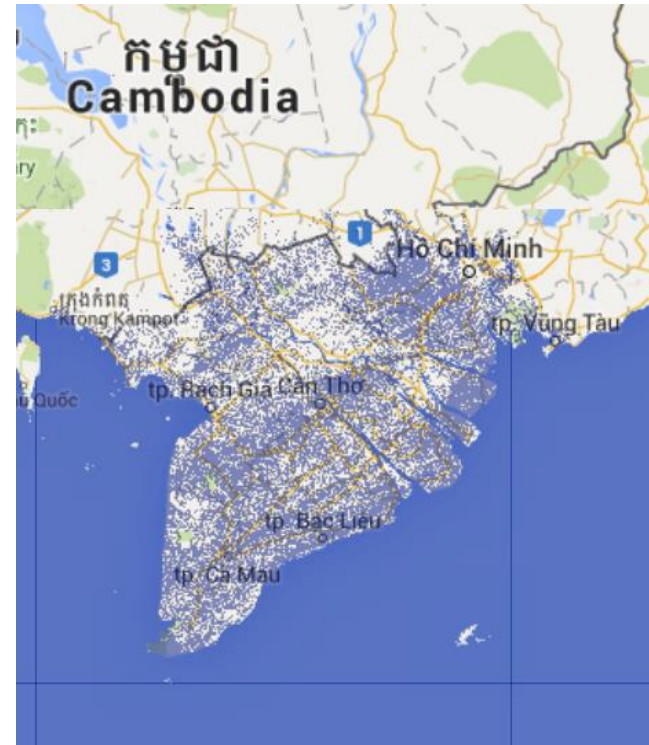
# Climate change, flood and sea water rise

*More intense rainfall and typhoons*



Bangkok, 2011

*Sea water rise + soil subsidence  
End century*



*Salinization rice fields*

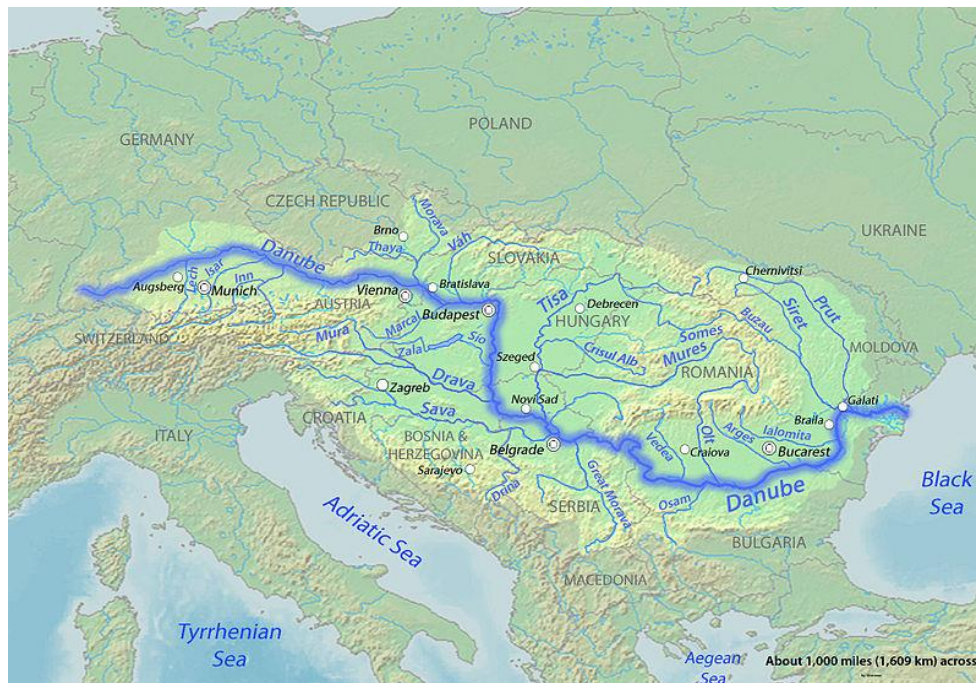


<http://flood.firetree.net/>



European  
Commission

# Research Infrastructures: Danubius



*Research Infrastructure  
supporting the EU Strategy for  
the Danube*

*Key focus on river-delta-sea  
systems*

*Link to JPIs –Joint Platform  
Initiatives (WATER JPI JPI  
OCEANS)*



## Examples!? Where to start

→ *Support from Research & Innovation,  
Danube-Mekong expertise  
Potential of identification or future RI actions*



# Thank you!

**Nb: Thanks to Vietnam –CARE (FR) research center for the photos**

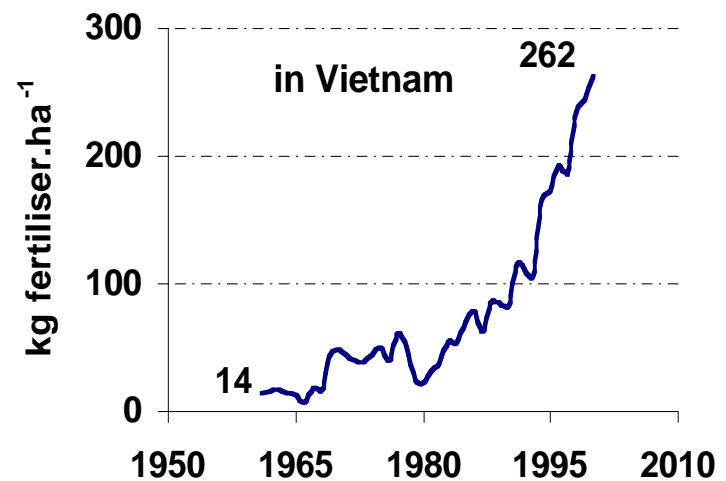


## Contamination of rivers, impact on human health and ecosystems

**Cities** Hanoi: 700.000 m<sup>3</sup> /day, 90% untreated



**Countryside:** Increased use of fertilizer and pesticides



# Other water-relevant international initiatives

- **PRIMA** : sustainability of food production and processing and water provision -Mediterranean Area
- **Belmont Forum**: Forum of funding agencies - global environmental change research (Nexus, e-Infrastructures, Transformations to sustainability)
- **International cooperation with India, China, Africa** (water supply and sanitation)
- **International 2017 Year of Water (in Brazil).**