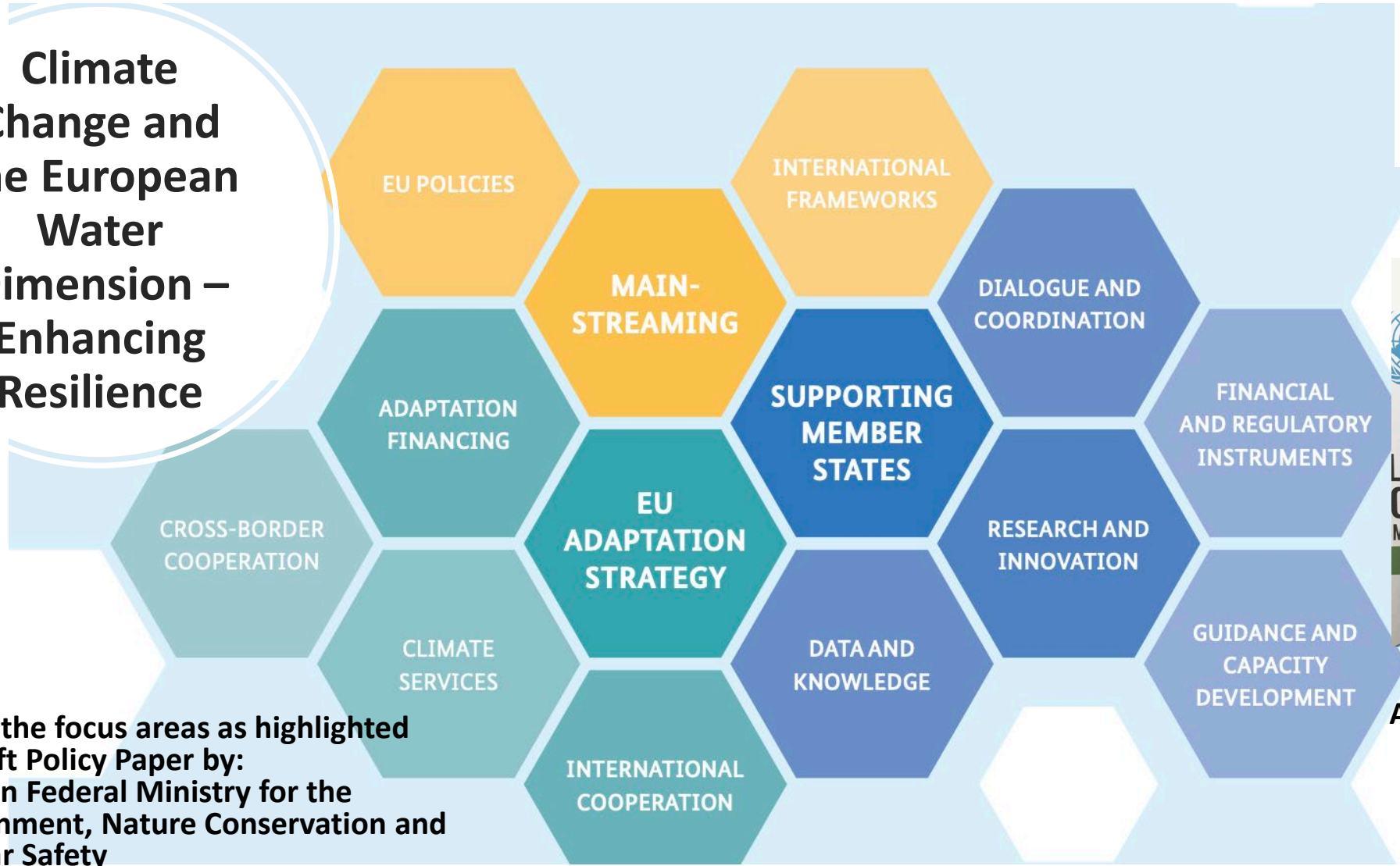




# Climate Change and the European Water Dimension – Enhancing Resilience



These are the focus areas as highlighted in the Draft Policy Paper by:

- German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety
- Portuguese Ministry of Environment and Climate Action
- Slovenian Ministry of the Environment and Spatial Planning

- Rapporteur on Climate Adaptation, EU Committee of the Regions (CoR)
- Former President of CoR
- President of Helsinki-Uusimaa Region

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**Markkula:**

**EU CO-CREATING THE FUTURE  
BASED ON THE BOTTOM-UP**

**HOW?**

**Resilience**

**European  
wide  
partnerships**

**EU to invest  
in rescue  
forces**

**Tackling  
climate  
as an emergency**

**Sustainability  
as our "new  
normal"**

**Cities & industry  
hand-in-hand**

**Main  
action  
is on city  
level**

**Public-private-  
people  
partnerships**

**Integrate  
adaptation and  
mitigation**

**More focus on  
RDI → knowhow**

**Rely on science  
and move to  
evidence-based  
policy**

**Every  
city & region  
needs its  
roadmap to  
carbon-  
neutrality**

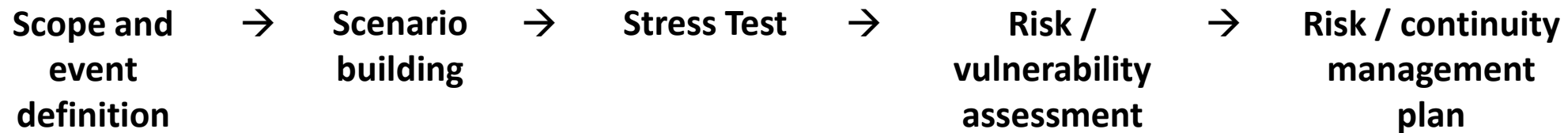
**Financing to  
accelerate  
bottom-up  
measures**

# Examples of Water Management Processes



Source: VTT Technical Research Centre of Finland Ltd

## How to Prepare for Extreme Weather Events?



## How to Solutions to Reduce Flooding & Stormwater?



## How to Critical Infrastructure Protection via Real-Time Management?

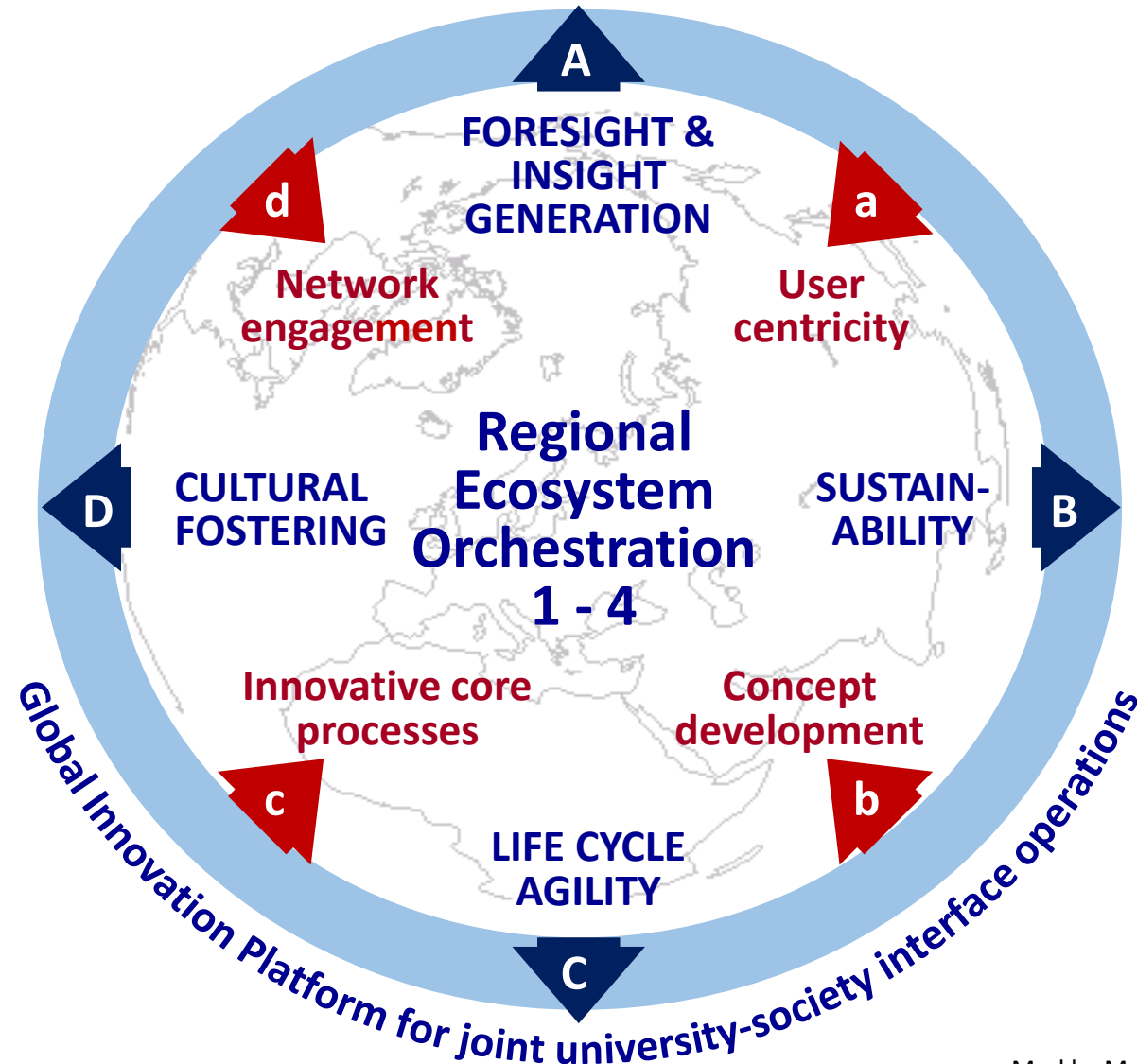


# Painting the Frame for the Regional Innovation Orchestration: Strengthening Ecosystemic Capabilities

## Innovation Ecosystem Orchestration

1. Network centric working culture
2. Ecosystemic architecture
3. Targeted orchestration of all operations
4. Collaborative value creation

- LEADERSHIP CAPABILITIES: A, B, C, D
- Management capabilities: a, b, c, d



# Summary: Europe Needs More Regional Innovation Ecosystems

**European Partnerships:** We **need new entities which combine broad stakeholder networks and bottom-up experimenting and stakeholder engagement, social media and new insights into renewal capital.**

**Bottom-up → New Openings:** Through innovation instruments like Incubators and Accelerators, Living Labs, Social Innovation Labs, Societal Innovation Learning Camps and Future Centres regions can become smart and citizens smarter, **leading to a widespread entrepreneurial discovery mentality in society.**

→ Move to the *science/society dialogue*, the so-called ***“dance of research with practice”***.

→ Use global knowledge: we can call this ***“the circular economy for knowledge”***.

→ Innovation strategies should focus on ***“catalysing open innovation”*** and encouraging individuals and communities towards an ***“entrepreneurial mindset”*** and effective use and creation of new digitalised services.

→ Universities % research centres play a key role as centers of ecosystems: the best laboratories for breakthrough innovations today are no longer traditional university facilities, but ***“regional innovation ecosystems operating as testbeds for rapid prototyping”*** of many types of user-driven innovations, based on transformative and scalable systems.

→ Digitalisation integrated to process development is the key instrument in increasing the ***“impact of processes”***.

**Markku Markkula**  
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