



IMPETUS

DYNAMIC INFORMATION MANAGEMENT APPROACH FOR THE IMPLEMENTATION OF CLIMATE RESILIENT ADAPTATION PACKAGES IN EUROPEAN REGIONS:

Towards Climate Adaptation & Mitigation

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climate-impetus.eu

Her sjokkeres Anne-Berit og Gunnar: - Skremmende å se



- The headline reads: «Anne Berit (opposition leader) and Gunnar (mayor of Tromsø) are shocked: - It is frightening to see»
- This is an example of how virtual reality presentations contextualise sea level prognoses (year 2100) in the actual city space

The big picture

7 countries, 32 partners

Leader: David Fernandez, EURECAT, The
Technology Center of Catalonia, Barcelona, Spain

7 DEMO-SITES in different European regions:

DS 1: Berlin-Brandenburg metropolitan region

DS 2: Coast of Catalonia

DS 3: Attica, Greece

DS 4: Zeeland and Rijnmond, the Netherlands

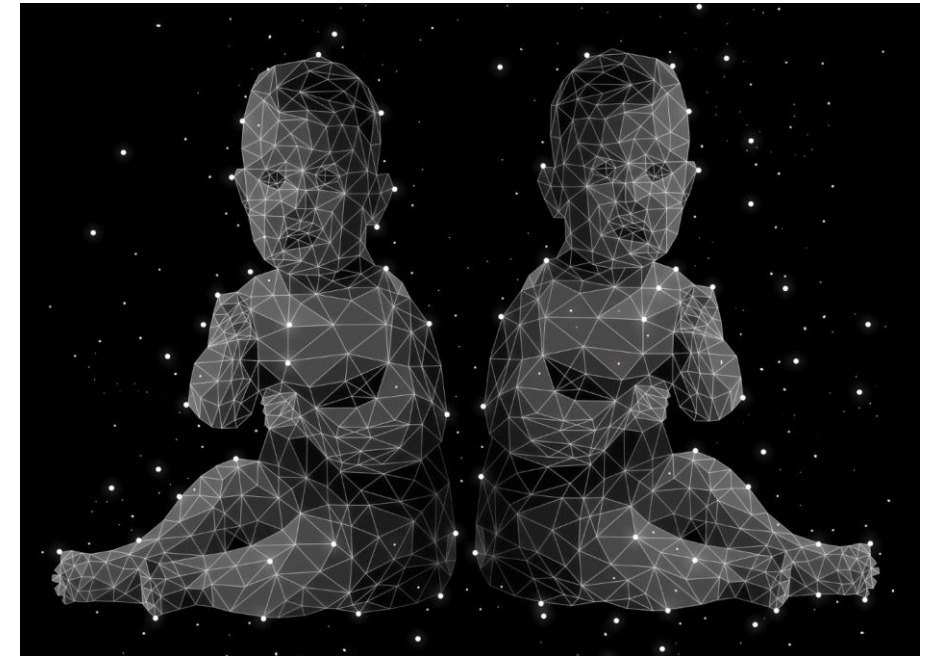
DS 5: Arctic demosite w/ 3 sub-cases:

- Sea level rise, storm water mgmnt, and storm flood – Tromsø city
- Mass movements/slides, avalanches
- Marine spatial planning - Troms og Finnmark counties

DS 6: Zemgal, Latvia

DS 7: Valle de Laghi, Italy

DIGITAL TWINS



Three sub-cases in the Arctic demo site

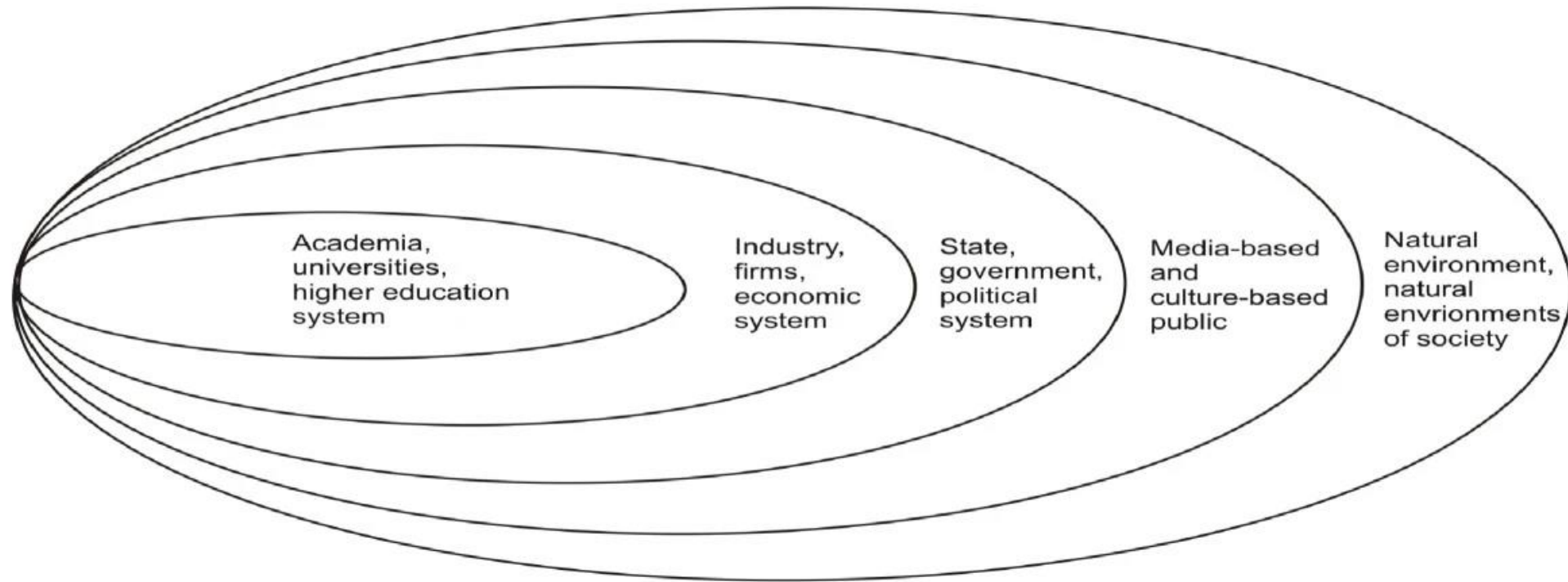
- Co-design of a coastal area «digital twin» and co-development of marine spatial planning and environmental protection solutions
- Demonstrate early warning systems allowing safe evacuation of risk sites
- **Adaptation and climate-proofing of Tromsø city's infrastructural systems and urban water management**

Water challenges, both sea level and rain/ melting snow



- Strengthen medium and long term planning to safeguard the region re: the consequences of climate change
- Enhance climate related risk assessments in political decision making processes.
- Develop, expand and improve «digital twins» (and other forms of visualisation) as a tool for co-creation in local/regional planning through including stakeholders and exposing them to visualisations of new data and modelling.
- Overall aim is **the institutionalisation** of a «regional knowledge booster»

The quintuple helix: Model of different stakeholders and interests/values





BarePrat: Klimatilpassede byrom

Next step

- Nov 28th: Workshop (no 2) with Tromsø municipality on:
- How the digital twin will be developed for the city centre of Tromsø
- Integration with another EU project NATALIE (on nature based solutions)
- Discussing how a citizen panel should be set up for «bringing the public in»

Thank you for your attention.

Questions are welcome!