EUROGEO WORKSHOP 2022



Last-mile delivery of climate services in cities: matching needs to solutions



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Learn more here:



The REACHOUT project has received funding from the European Union's Horizon research











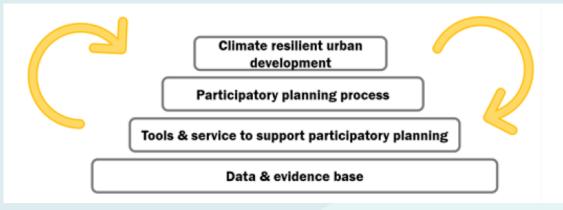
The Challenge

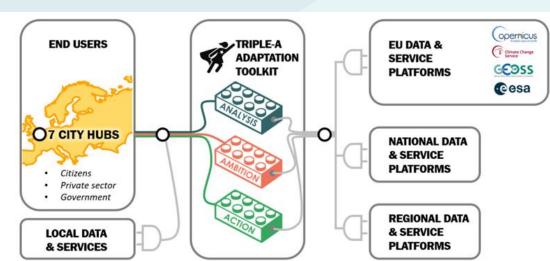






The Ambition

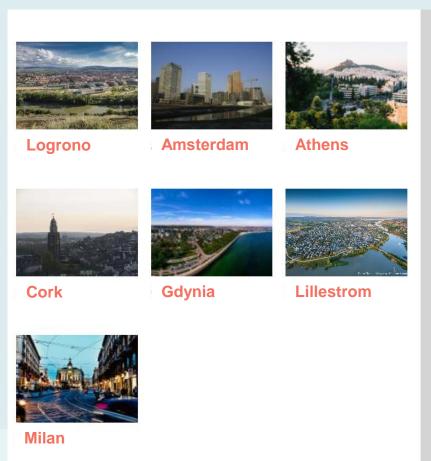




- 1) engage citizens and business in adaptation decision making in 7 city hubs
- 2) tailor services to local policy contexts
- 3) innovate the Triple-A toolkit building upon ~20 existing, successful open-source tools
- 4) upscale the use of the services to the wider city hub network
- 5) build a **robust evidence base** providing successful examples of implementations
- 6) extend and make it sustainable



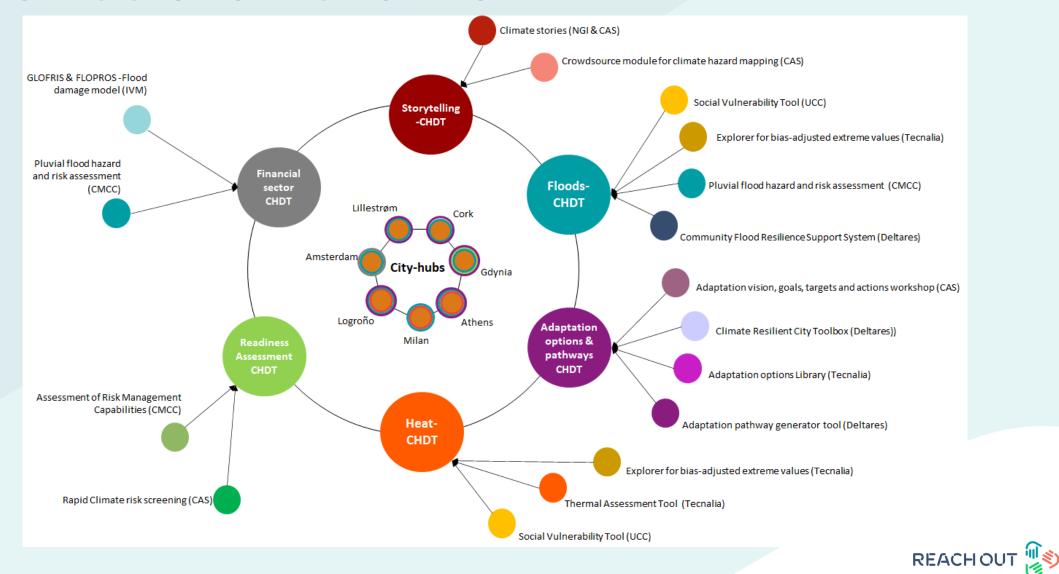
City hubs participating



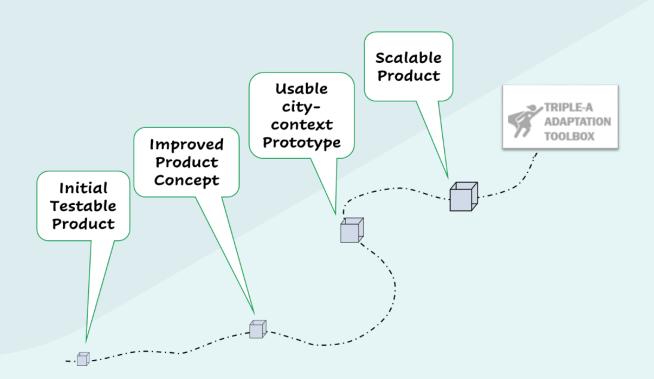




The Tools: an overview



Roadmaps for Tools and Toolbox

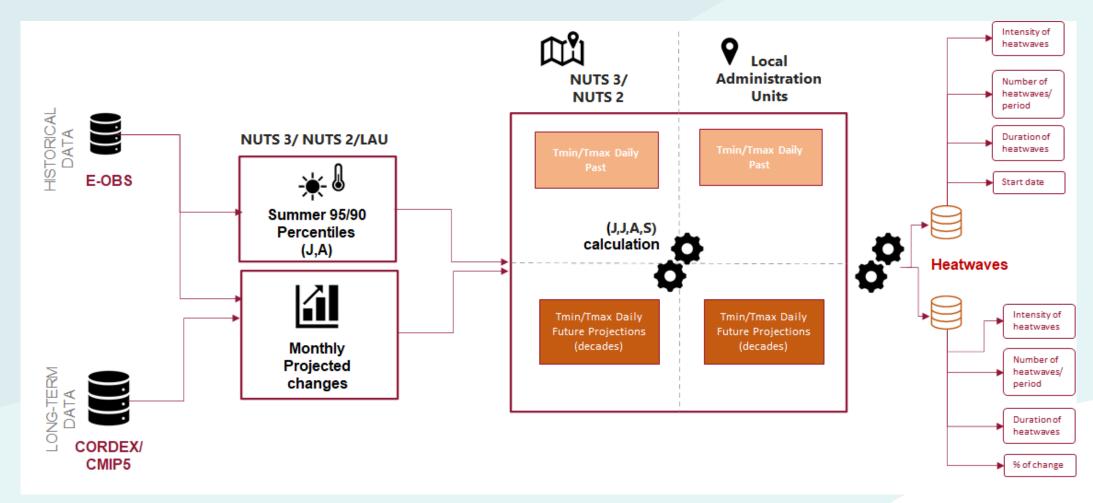


Lessons so far... or tips:

- Move our focus away from own tools to empathize with stakeholder's broader challenge.
- Consider possible tool combinations and additional data sources that respond to these challenges
- Engage with stakeholders to provide highly relevant services

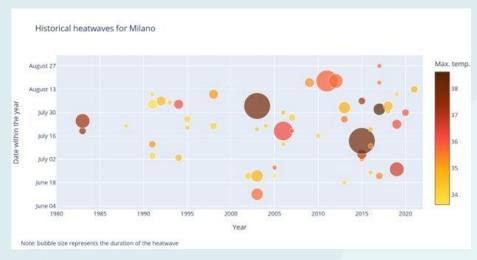


Tools (1): Thermal Assessment Tool

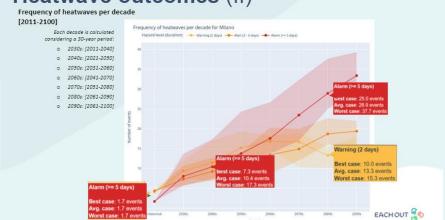




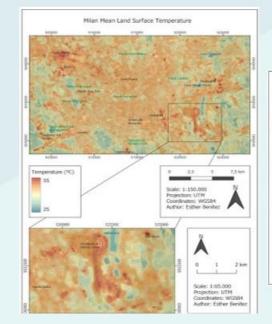
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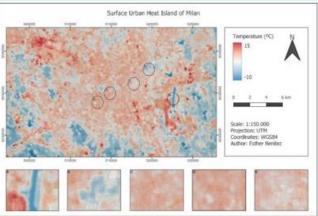


Heatwave outcomes (II)



Heatmaps outcomes for Milano



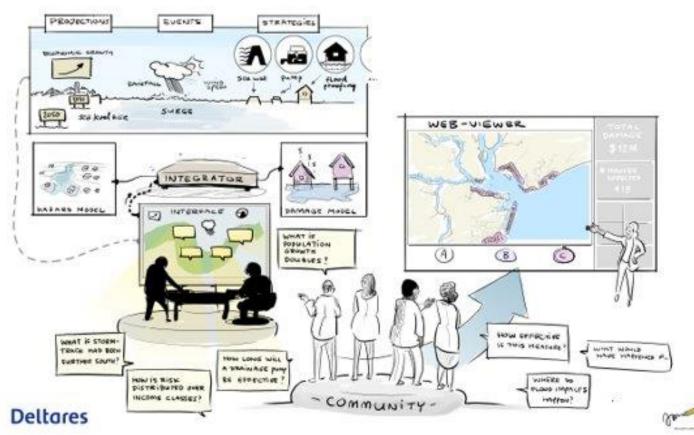


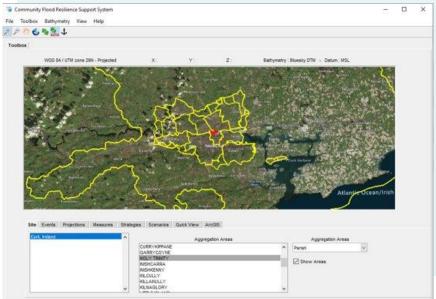




Tools (2): Community flood resilience support system

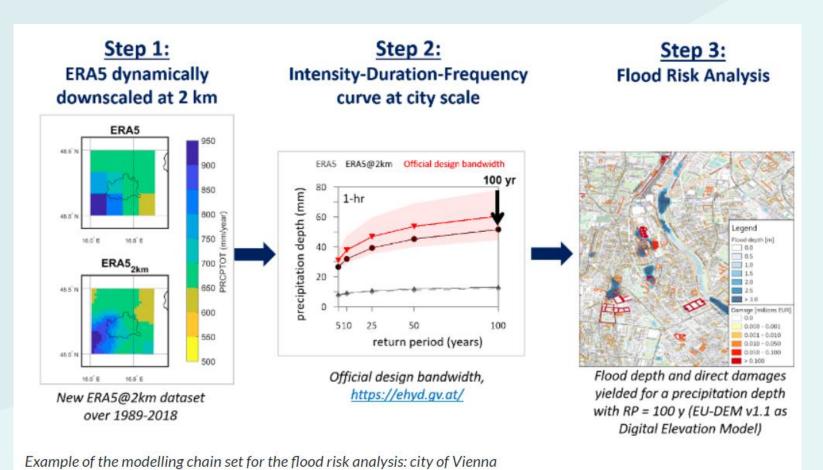
COMMUNITY FLOOD RESILIENCE SUPPORT SYSTEM







Tools (3): Pluvial Flooding Analysis



Cities feedback:

It is not just about flooding... it about blue-green potential =>

CMCC connecting this to a NBS opportunity identification Tool



Tools (4): Climate Resilient Cities Tool



Planning oriented, multi-stakeholder engagement focused

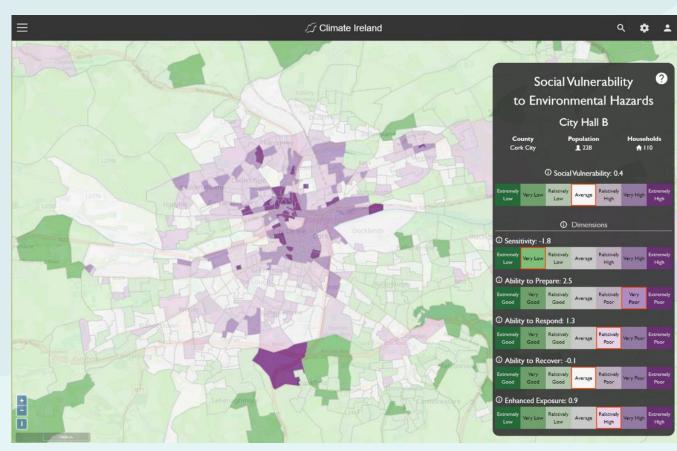
Input:

- Pan-European datasets (soil, weather)
- Google Maps
- Connect to hydrological model

DELTARES



Tools (5): Social Vulnerability Indexing



University College Cork

Analyses the ability to:

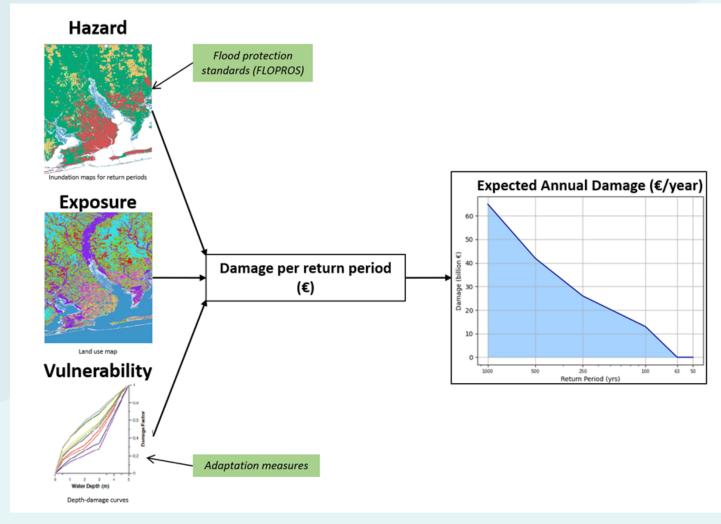
- Prepare
- Respond
- Recover

Input:

- Demographic data
- Socio-economic data
- Hazard, modeling data
- Diverse other (Mobility, Road density, Proximity to emergency/key services, Flood Warnings, Flood insurance, Floors in households, Green/Blue area)



Tools (6): GLOFRIS & FLOPROS



From tools to services:

- Understand economic damage
- Assess insurability/premiums
- Assess portfolio exposure

Input data:

- Hazard: inundation maps
- Exposure: building type/land use value and location

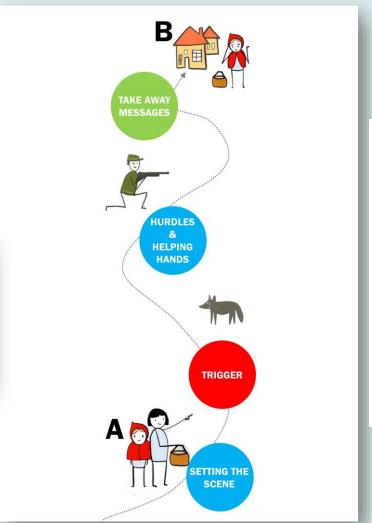


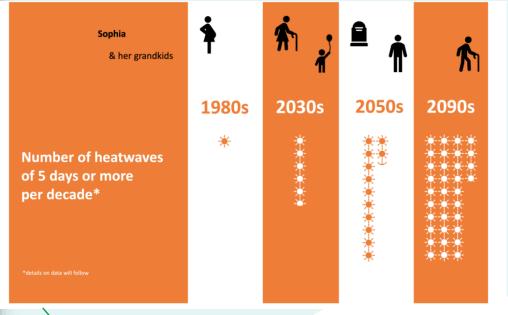




Tools (7): Storytelling







Communicable!



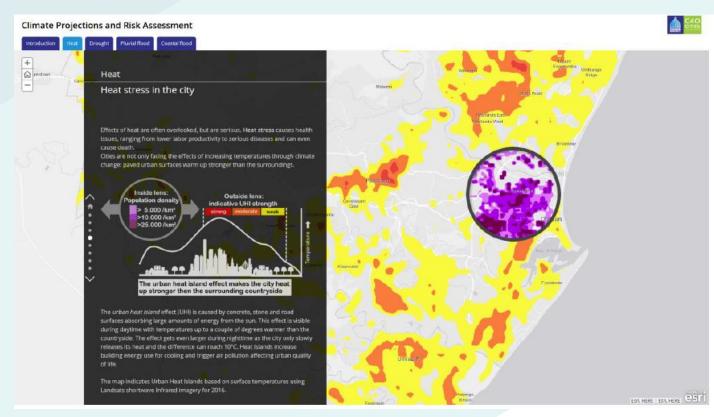
Tools (7): Storytelling

Tools:

ArcGIS Climate Stories & Crowdsource module climate hazard mapping

Input:

- Some sort of geo-files (e.g., geopackage /shapefiles),
- Some forms of graphics (images, video, background maps etc.) and
- Text (city narrative etc.).
- Input from other climate service outputs



Climate Adaptation Services



Take-away messages

- 1. Use of tools each on its own will probably have limited relevance for cities
- 2. Facilitate cities to integrate across tools
- 3. Use toolbox to build capacities in cities
- 4. Support understanding of data availability, particularly those publicly available
- 5. Use services to think strategically and move from narrowly defined DRR to Resilience Building



REACHING OUT to YOU!

- 1. What climate services have you developed?
- 2. What data do you use?
- 3. Do you wish to contribute to the Triple-A toolkit?

Guiding Questions **Entry points** Triple-A Toolbo Tool **Technical Descriptions** Guidance X Learning **Programme** REACHOUT

Get in touch!

Project partners



































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