

CLARITY climate service concept and mockups

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WHAT IS CLARITY ABOUT?

- [CLARITY](#) is a project under the EC Horizon-2020 framework to **enhance climate change adaptation** for (urban) **infrastructure projects** and investments <http://clarity-h2020.eu/>
- CLARITY “industrializes” climate change adaptation by developing a **digitized general workflow for climate impact assessment** and appraisal of adaptations measures; the methodology is inspired by the [EU-GL](#)
- This will serve as entry point to a [marketplace](#) where scientists, urban planners, architects, solution providers and project stakeholders can exchange data and services; projects and expert services will be matched <https://myclimateservices.eu/>
- The **marketplace** goes beyond the Demonstration Cases – the methodology is applicable anywhere where data and adaptation solutions are available; in Europe [Copernicus](#) data are least common denominator <http://www.copernicus.eu/main/services>



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The CLARITY partners derive from various **fields of expertise** such as

- Meteorology and Earth Sciences
- IT
- City Governments
- Transport Infrastructure
- Urban and Spatial Development - Architecture

CLARITY partners act as **role models** for players in climate change adaptation, who cover relevant parts of **the climate services value chain**

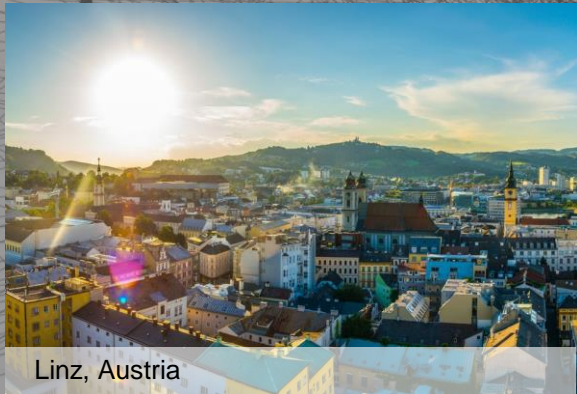


THE DEMONSTRATION CASES

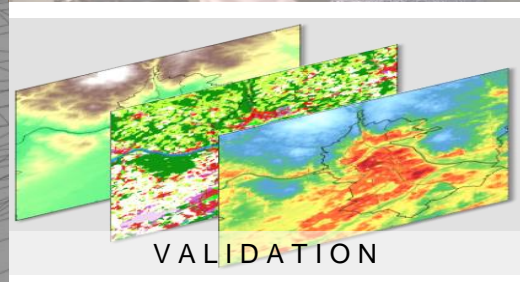
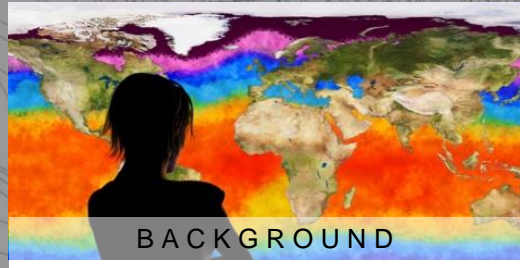
- **Linz:** The city suffers from heat waves, ventilation as well as green areas are needed to cool down the city
- **Sweden:** Stockholm is highly sensitive to future changes in river runoff as well as lake and sea levels – the concept for Stockholm can also be applied to the city of Jönköping
- **Spain:** The roads and transport infrastructure suffer from extreme oscillation in temperature, therefore roads have to be rebuilt and adapted
- **Naples:** The city has to deal with various issues at the same time – i.e. floods, droughts, and heat waves

HAZARDOUS ISSUES DEALT WITH IN THE DEMO CASES

- **Heat** waves in Austrian City of [Linz](https://myclimateservices.eu/heat-islands)
- **Flood** – pluvial, inland water, sea level rise – and **heat** events in [Sweden](https://myclimateservices.eu/showcase-ground-water)



- The effects of climate change on **roads**, transport infrastructure in [Spain](https://myclimateservices.eu/showcase-spain)
- **Floods**, **droughts**, and **heat** waves in Italian metropolitan region of [Naples](https://myclimateservices.eu/clarity-for-naples)



THE CLARITY METHODOLOGY

- **Digitized workflow** as backbone for project assessment
- **Localized** data packages
- Independent **Marketplace** for matching projects, data and experts
- **Co-creation** between experts from various sectors
- The Demo Cases provide reliable, structured, factual and data-based information on the effects of climate change in their specific areas; they are significant as well as **relevant** for multiple cities and regions on European and global scale
- Each Demo Case stands for European hazards, therefore they are examples as well as sources for methods, approaches, and **best** and **different procedures** for climate change adaptation



For more details about the EU-GL method please check:

<http://climate-adapt.eea.europa.eu/metadata/guidances/non-paper-guidelines-for-project-managers-making-vulnerable-investments-climate-resilient/guidelines-for-project-managers.pdf>

DIGITIZED WORKFLOW

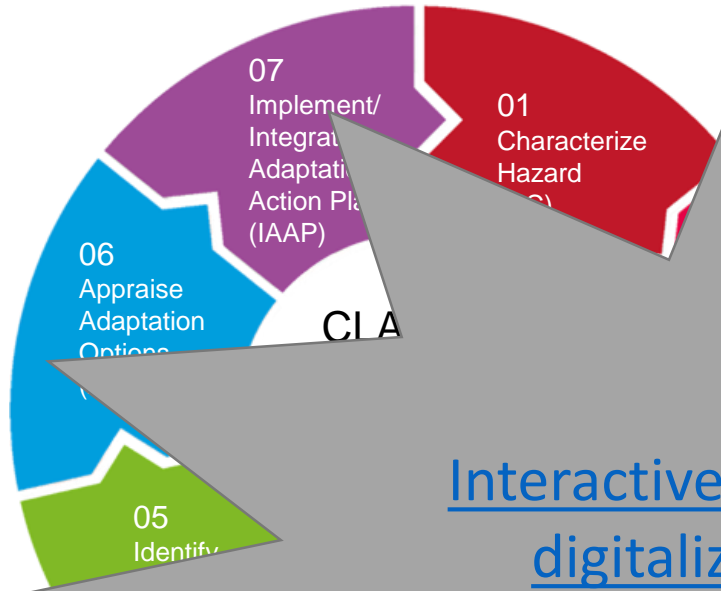
CLARITY will allow end-users to explore climate resilience of their projects through alternative planning and adaption scenarios considering:

1. variable **local context**
2. expert-based **climate intelligence**
3. customized **risk analysis**
4. varying **impact** scenarios
5. flexible **adaption** and alternative options
6. integration of data and model results into **action plans**



DIGITIZED WORKFLOW

will allow end users to explore
their projects



Interactive mock-up of the digitalized workflow

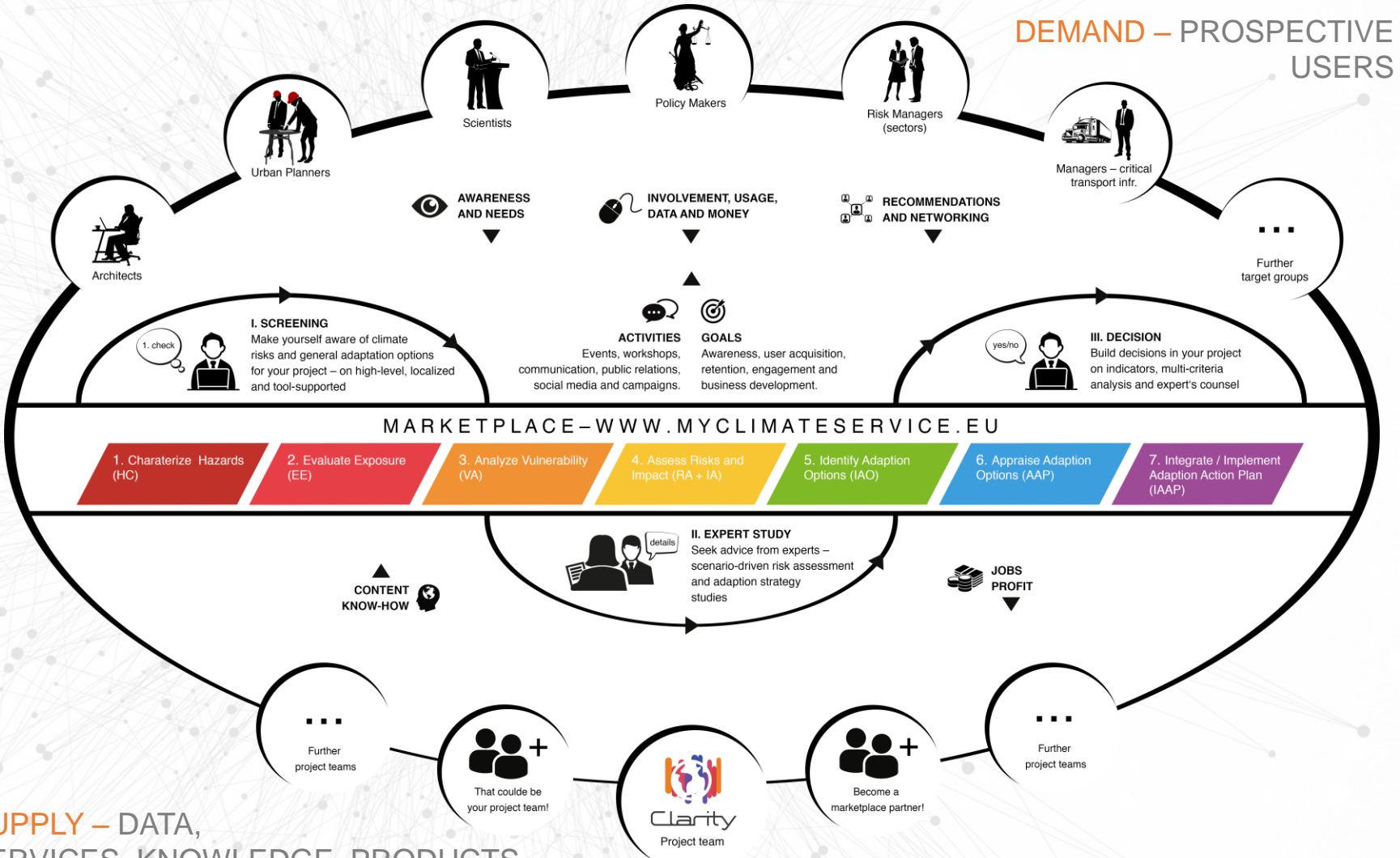
For more details about the...
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Intelligence
analysis

- 5. ... and alternative options
- 6. integration of data and model results into **action plans**



Clarity | MARKETPLACE AND ECO-SYSTEM



SUPPLY – DATA, SERVICES, KNOWLEDGE, PRODUCTS



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Please contact to explore **mutual** collaboration and business **opportunities** on the

marketplace



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