

ASPECT Data in action: Upscaling seamless climate information

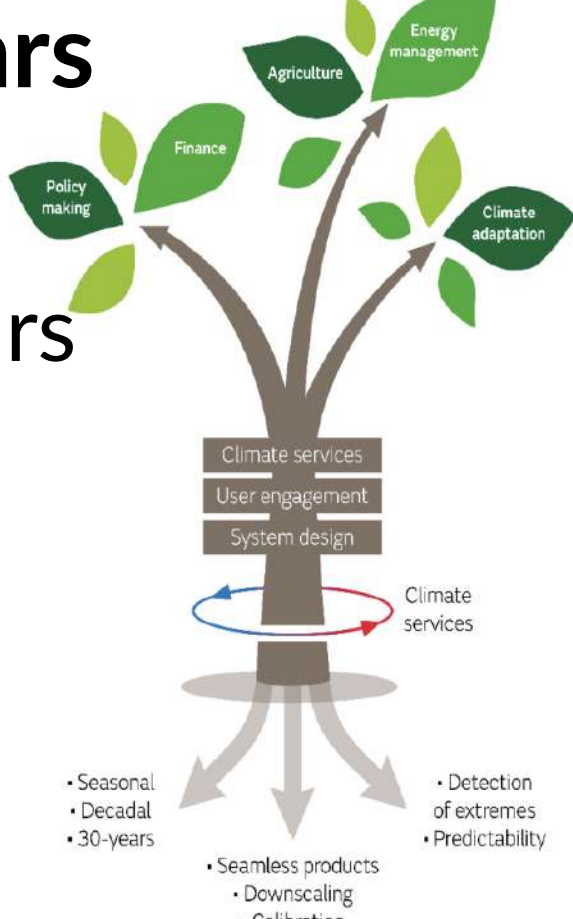
Charalampos Karvelis & Matthew Menary (ECMWF) on behalf of the ASPECT Team
C3S General Assembly, Valencia, 02–04 June 2025



Introduction and methodology

ASPECT aims to set up and demonstrate a seamless climate information system with a time horizon of up to 30 years

- Improving seasonal-to-decadal forecasts
- Pioneering new extended initialised forecasts up to 30 years ahead
- Pioneering new approaches to join the best forecasts on different time-scales together
- Designing and implementing new ways to extract high-resolution information on extremes



Building a legacy

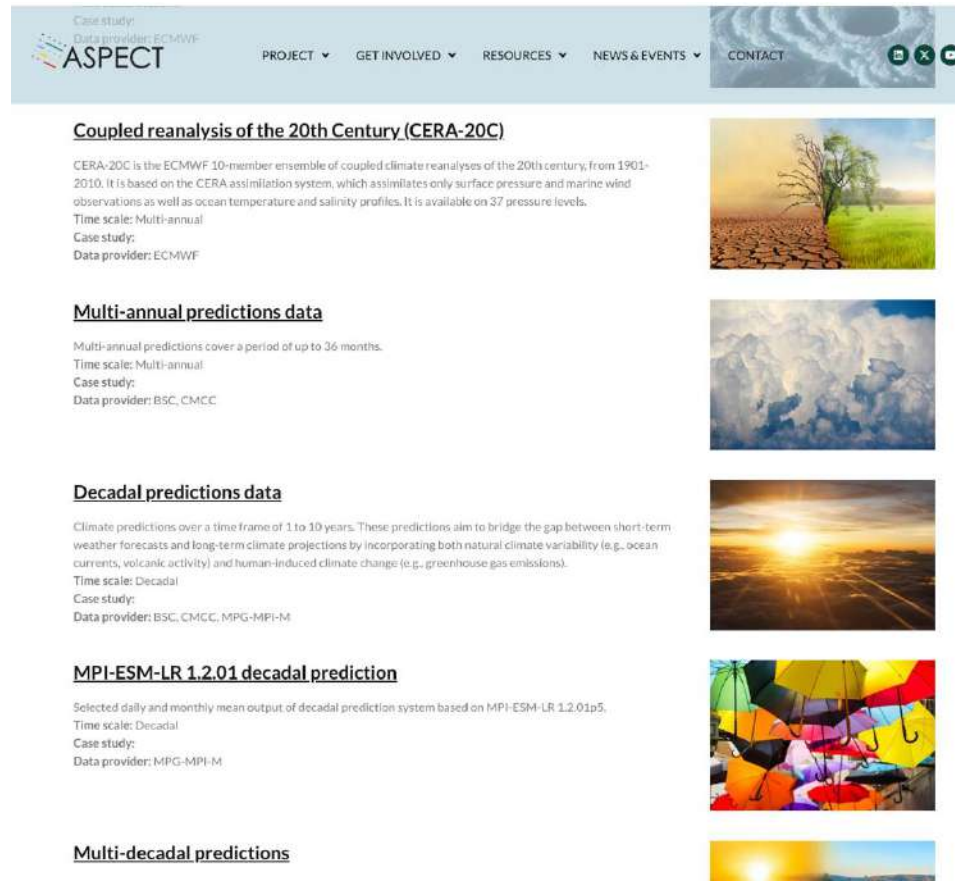
- Scientific methodologies developed with users (improving models and experimental design, downscaling, temporal merging)
- Improved data management and information (FAIR principles, encoding guidelines, extended initialised experiments, downscaled seamless event sets)
- Capable and enabled user community (user forum, case studies)
- Climate services prototypes (climate service solutions that work across different sectors of society, guidance around weather and climate risks)

Upscaling

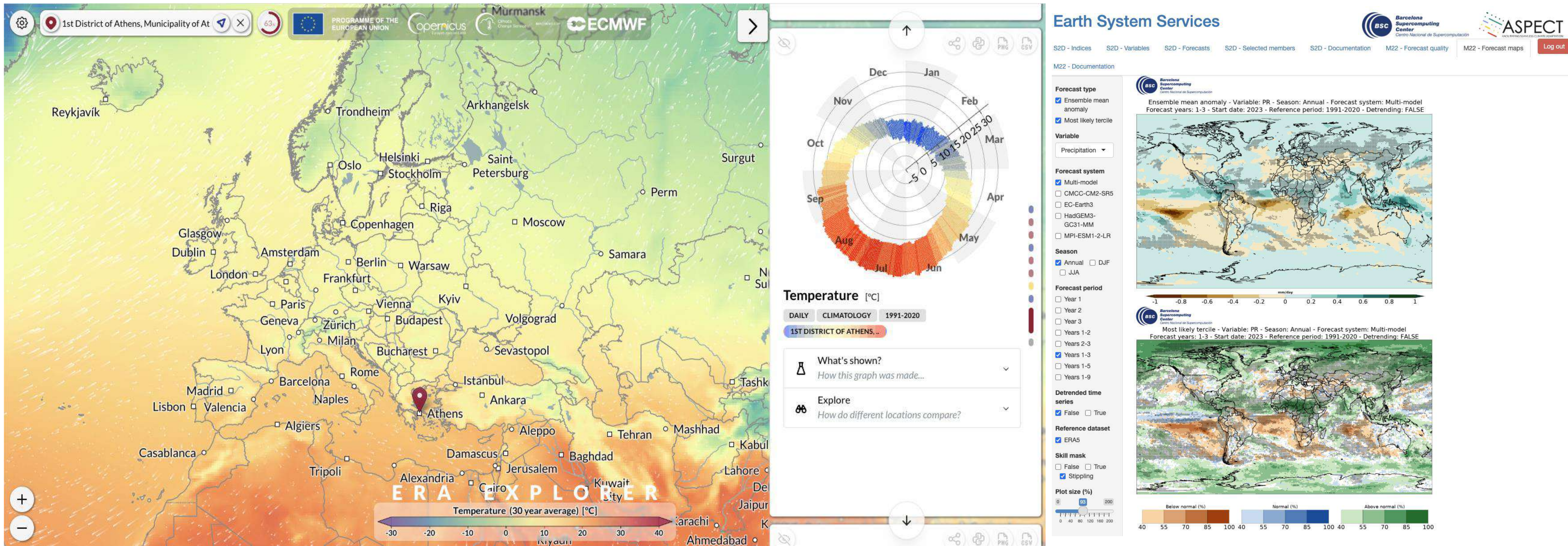
- Building capacity in a larger number of potential users
- Programme of training events, workshops and webinars
- Easy access to the data, methods and knowledge produced by the project
- Workflows implementing methods applicable to the data generated during the project
- Engage and interact with the users
- Engage with several national MET Services

Data portal

- Data legacy (navigating the project's results, accessing ASPECT integrations)
- Science legacy (Scientific publications)
- User legacy (workflows and recipes, demonstrating ASPECT data use, ERA explorer notebooks, digital handbook)

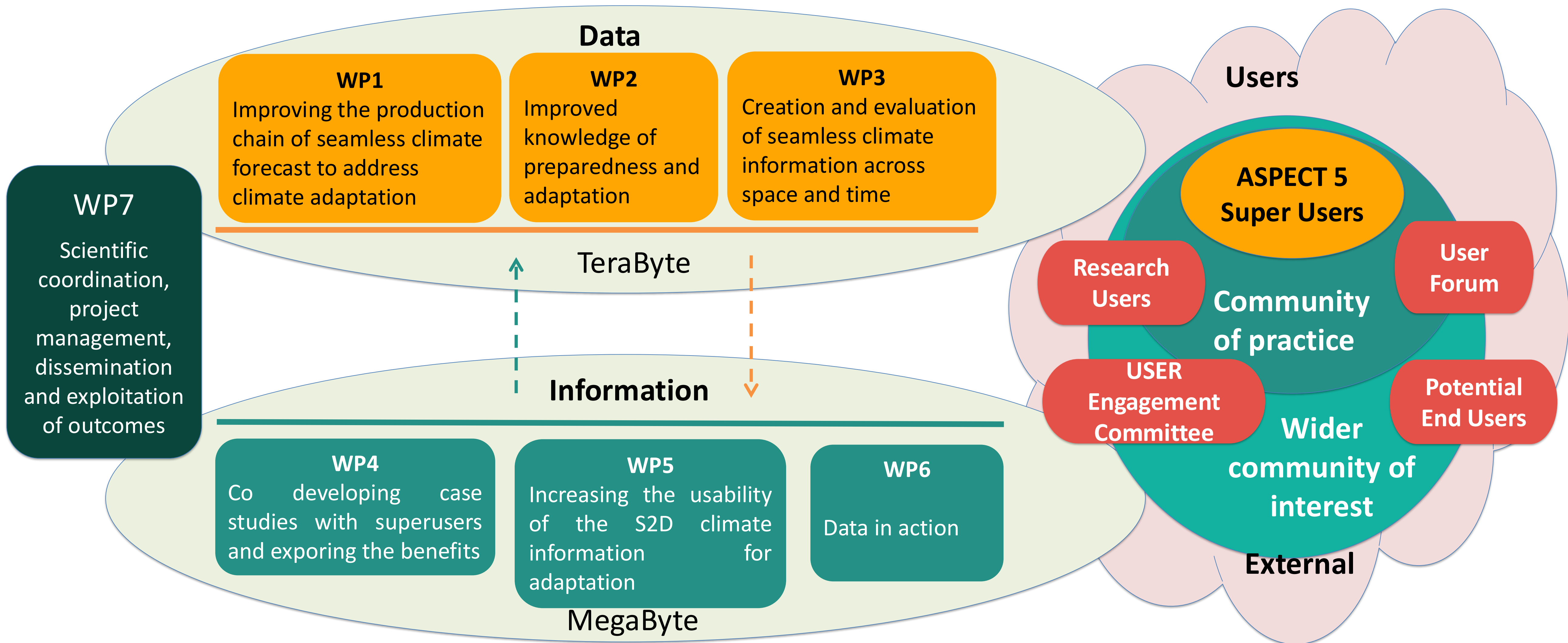


Applications



- Provide better information
- Climate applications across different socio-economic sectors
- Balancing users' needs with scientific feasibility
- User engagement and upscaling

Workplan and strategy



Acknowledgement

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