

# ICARIA IMPROVING CLIMATE RESILIENCE OF CRITICAL ASSETS

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WHO



Promote the use of a comprehensive asset level modelling framework to achieve a better understanding about climate related impacts produced by complex, compound and cascading disasters and the possible risk reduction provided by suitable, sustainable and cost-effective adaptation solutions.



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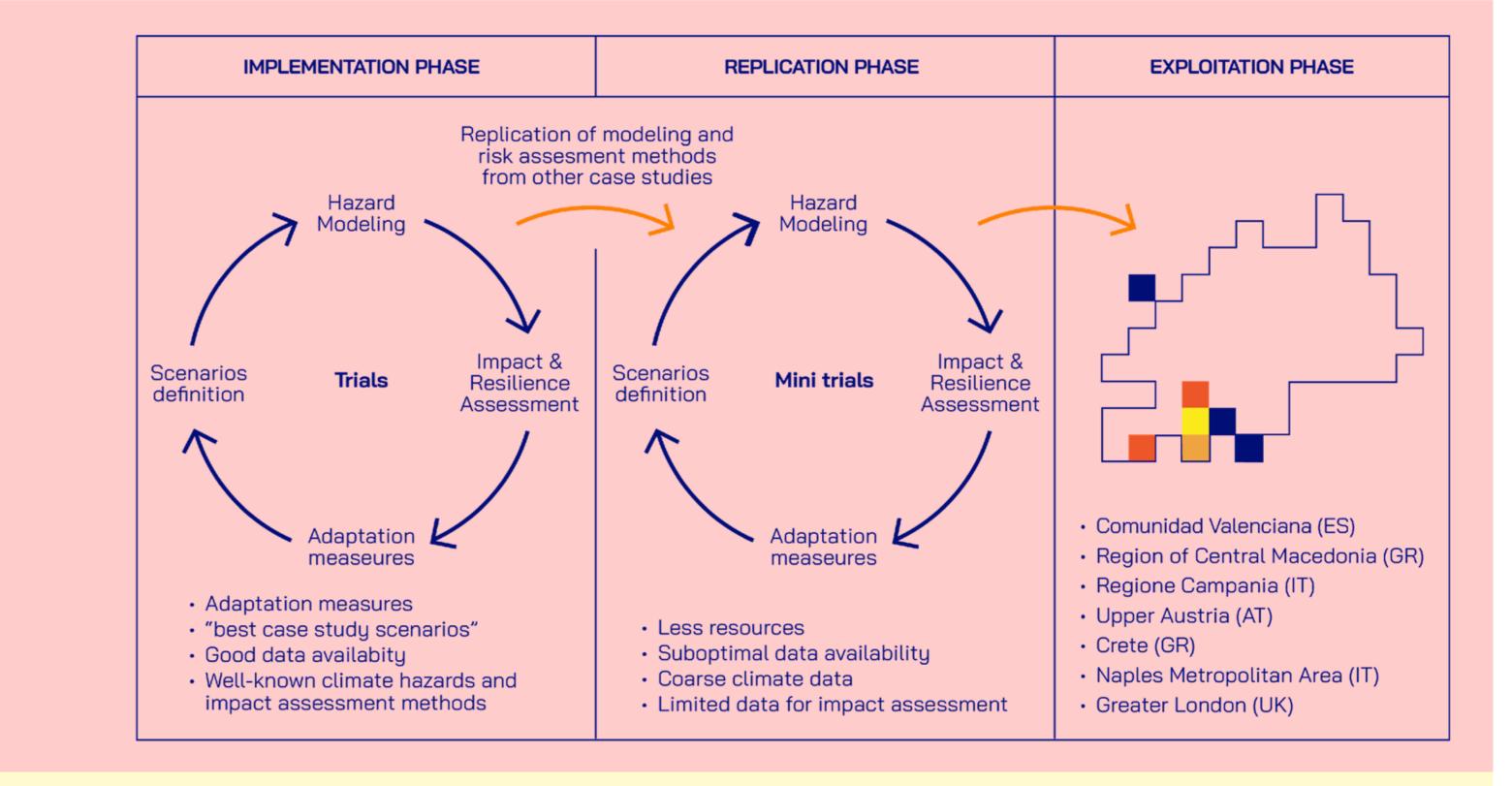
T. Sfetsos National Center For Scientific Research "Demokritos"



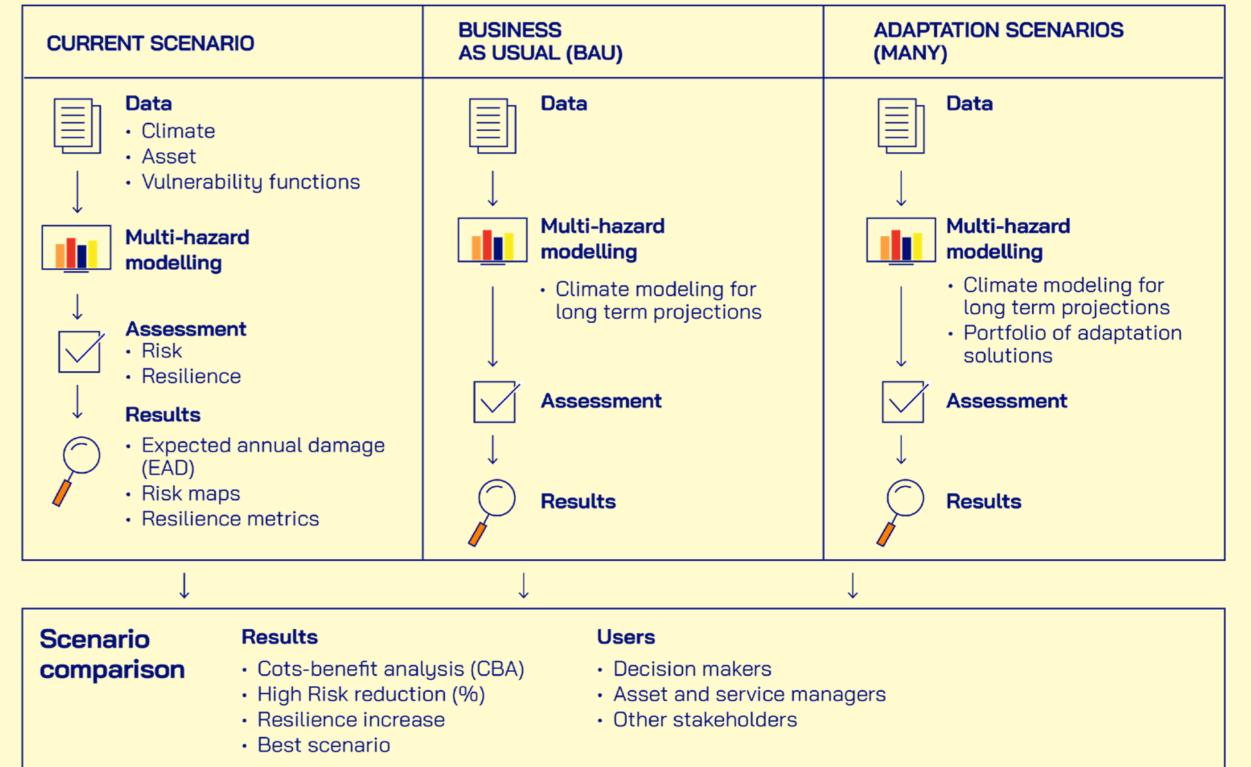
PROJECT PARTNERS			COPS	
ORGANIZATION	COUNTRY	ROLE	CoPs (communities of practices)	
1. AQUATEC	ES		created in each study:	
2. CETAQUA	ES		<ul> <li>Provide requirements</li> <li>Feedback on the methods</li> </ul>	
3. FIC	ES		and tools developed and implemented	
4. IREC	ES			
5. UNEXE	UK		CSF RO	
6. DEMOKRITOS	GR		CoPs	
7. LNEC	PT			
8. DRAXIS	GR		א א <sup>י</sup> ליי ה	
9. CERTH	GR		$\uparrow$	
10. PLINIVS	IT		• Local governments	
11. AIT	AT		<b>3rd</b> <b>parties</b> • Public and private	
12.AMB	ES		asset operators	Coordinator (C) Transversal cross-cutting partner (TCCP)
13.SAR	GR		Civil society actors     Other relevant stakeholders	Case study facilitator (CSF)
14.VERB	AT		• Other relevant stakenoluers	Risk owner (RO)

	BARCELONA MET	ROPOLITAN AREA	SOUTH AEGEAN R	SALZBURG REGION		
	Trial	Mini trial	Trial	Mini trial	Trial	Mini trial
Hazards	لم الم الم			<mark>لها</mark> {}		
Assets/ services						
Tangible impacts		2° (°		<i>с</i> <del>*</del> ₽		P





#### ICARIA Decision support system (DSS)



## More info: www.icaria-project.eu

• Decision Support System (DSS) for adaptation to extreme and compound events with cost-effective measures.

**KEY OUTCOMES** 

#### Scientific results:

**Technological results:** 

Climate Multi-Hazard modelling tools

Portfolio of adaptation solutions

Holistic climate resilience assessment tool

- Project framework for climate multi-hazard holistic assessment at a regional level
- Regional climate projections in long term considering the local socio-economic dimension
- Methods for mending the data gaps and uncertainty analysis for the risk and impact models
- Climate-related multi-risk tangible impact assessment method
- Multi-risk and resilience assessment for the 3 case studies
- Replication, sustainability and explorations of ICARIA results.



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