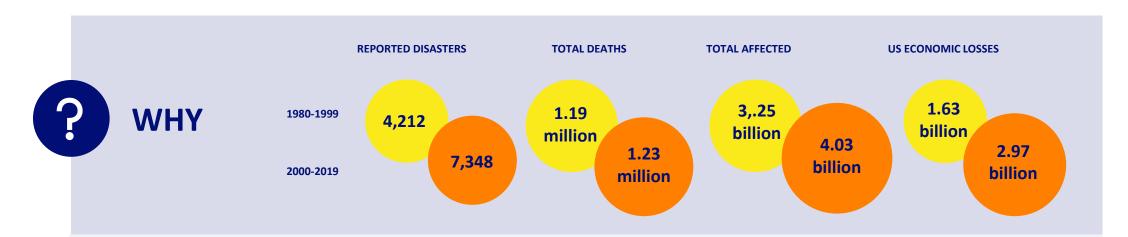


ICARIA: IMPROVING CLIMATE RESILIENCE OF CRITICAL ASSETS





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.

Hazards				Assets/services						Tangible impacts			Includes				
	الى \\\			***				Q_{λ}^{λ}			***			\$P	T		
Floods	Storm surges	Heat waves	Forest fires	Droughts	Storm winds	Turism	Properties	Natural areas	Transport	Water assets	Electricity assets	Waste assets	Flood Damage	Water demand / supply	Energy demand / supply		Cascading effects on assets

COPS



ORGANIZATION COUNTRY ROLE CoPs (communities of practices) created in each study: 1. AQUATEC ES Provide requirements ES 2. CETAQUA Feedback on the methods 3. FIC ES and tools developed and implemented 4. IREC ES 5. UNEXE UK 6. DEMOKRITOS GR CoPs 7. LNEC 8. DRAXIS GR 9. CERTH GR 10. PLINIVS Local governments 3rd 11. AIT Public and private 12.AMB ES asset operators Civil society actors 13.SAR GR

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14.VERB

	BARCELONA MET	ROPOLITAN AREA	SOUTH AEGEAN R	SALZBURG REGION			
	Trial	Mini trial	Trial	Mini trial	Trial	Mini trial	
Hazards					A A A		
Assets/ services							
Tangible impacts	<u>^</u>	~ P	<u>^</u>	£ \$\psi\$		T T	

Other relevant stakeholders

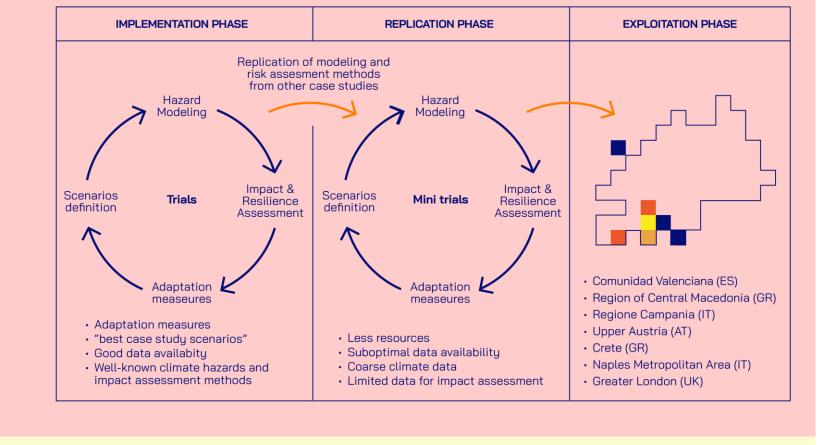
Coordinator (C)

Risk owner (RO)

Transversal cross-cutting partner (TCCP)

Case study facilitator (CSF)







KEY OUTCOMES

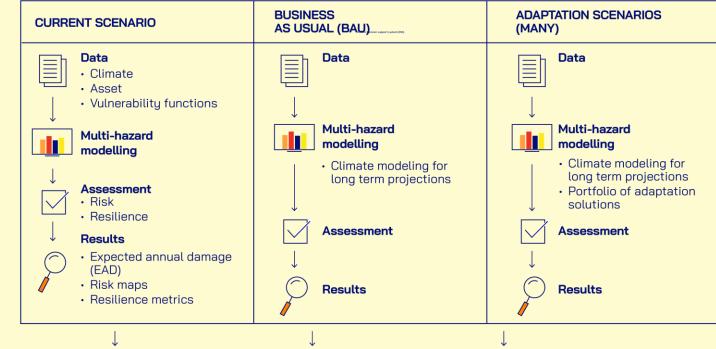
Technological results:

- Climate Multi-Hazard modeling tools
- Holistic climate resilience assessment tool Portfolio of adaptation solutions
- Decision Support System for adaptation to extreme and compound events with costeffective measures.

Scientific results:

of ICARIA results.

- 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
- the 3 case studies Replication, sustainability and explorations
- Multi-risk and resilience assessment for



Scenario comparison

- Results
- Cots-benefit analysis (CBA) High Risk reduction (%)
- Resilience increase
- Best scenario

- Decision makers
- Asset and service managers
- Other stakeholders

More info: www.icaria-project.eu



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CETAQUA

Algües de Barcelona

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