EUROPEAN WEEK OF REGIONS & CITIES

2003 - 2022

Protecting cultural heritage

Saving the past to preserve the future

New Challenges for Europe's Cohesion

ARCH Hyperion helter

What's the Task Force about?

New Challenges for Europe's Cohesion

R&I Task Force established by the Horizon 2020 projects **ARCH, HYPERION, and SHELTER** in 2021.

Aims to bridge the gap between **sustainable urban development, resilience planning, and heritage management**.

By bringing together **research projects, practitioners, and policymakers** to

→Identify and discuss **challenges, opportunities, and best practices** for resilient historic districts

→Give **recommendations** to researchers, practitioners, policymakers, funding bodies, and other for addressing challenges and opportunities as well as **better take-up of best practices**.

→Increase **awareness** of the role of historic districts in resilience planning – with their unique value and importance

With the end goal to **coordinate efforts on climate resilience** in accordance with **protection and preservation of heritage**.

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What's the Task Force about?

New Challenges for Europe's Cohesion

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ARCH

Hyperion

Shelter

3 SISTER PROJECTS

Topic LC-CLA-04-2018: **Resilience and sustainable reconstruction** of historic areas to cope with climate change and hazard events

Starting 19 June 2019

Budget around 6,000,000 euros

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ARCH at a glance

New Challenges for Europe's Cohesion

Type	H2020 Research & Innovation Action
Timeframe	June 2019 – August 2022
Budget	6,249,952.50 € (5,999,962.50 € from EU)
Partners	

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ARCH pilot cities

New Challenges for Europe's Cohesion

	Bratislava	Camerino	Hamburg	Valencia
Hazards	Extreme precipitation, pluvial flooding, extreme temperatures, erosion	Earthquakes, mass movements, extreme precipitation, air pollution	Subsidence, extreme temperatures, wave action, sea level rise, insects & microorganisms	Extreme temperatures, extreme precipitation, sea level rise, coastal erosion, insects & microorganisms
Pilot site(s)	Old town centre, Devin castle ruin	Old town centre, Santa Maria in Via Church, Ducal Palace	World Heritage Site Speicherstadt & Kontorhausviertel	Huerta de València & Albufera de València
Heritage type	Historical nuclei, historic and monumental buildings, archaeological sites	Historical nuclei, historic and monumental buildings, movable heritage	Historical nuclei, historic and monumental buildings, groups of separate or connected buildings	Cultural landscapes

HYPERION at a glance

New Challenges for Europe's Cohesion

A Decision Support System for Improved Resilience and Sustainable Reconstruction of historic areas

Budget 5 997 728.75 €

Timeline June 2019 to November 2022

Partners 18

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HYPERION test sites – use cases

- Granada
- Rhodes
- Tonsberg
- Venice

Use case classification

Timing

- Pre-event
- Trans-event
- Post-event

Knowledge

- None
- Given damage
- Given hazard

Time frame

- Short term
- Long term

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SHELTER at a glance

New Challenges for Europe's Cohesion

Sustainable
Historic
Environments
hoListic reconstruction
through
Technological
Enhancement &
community based
Resilience

Data-driven and community-based Resilience of Historic Areas

Budget 5.999.451 €

Timeline 4 years (June 2019-May 2023)

Partners 23

Partners: tecnalia Inspiring Business; Politecnico di Torino; Universidad del País Vasco Euskal Herriko Unibertsitatea; Faculty of Engineering Bilbao University of the Basque Country; IHE Delft; Zentrum für Risiko- & Krisenmanagement; Tower Insurance Brokers since 1988; UniSMART Padova Enterprise; Red; SITTER BSAR; estudios gis; Xunta de Galicia Consellería de Medio Ambiente e Ordenación do Territorio Dirección Xeral de Calidade Ambiental e Cambio Climático; LINKS; United Nations Educational, Scientific and Cultural Organization; Nobatek INEF4 Institut pour la transition énergétique; International Sava River Basin Commission; Sistema Environmental Information Modelling; EURONET Consulting; AlphaConsult; Liège université; Dordrecht; ekodenge

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SHELTER Open Labs

New Challenges for Europe's Cohesion

- Ravenna
- Seferihisar
- Dordrecht
- Baixa-Lima
- Sava river basin

5 Open Labs with different

→Scales
→Mix of hazards
→Cultural and Natural Heritage
→Governance structures
→Experience and availability of data and tools

to maximize replicability

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R&I Task Force **Process**

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New Challenges for Europe's Cohesion

Kick-off Meeting: June 23, 2021
→ Policy perspective for resilient historic urban districts
→ Scientific gaps in achieving resilience for historic urban districts
→ On-the-ground challenges for resilient historic urban districts

Second Meeting: December 14, 15 2021
→ problems, opportunities, and best practices from their daily practice, as well as methods and tools
→ MIRO board exercise in the 3 thematic areas

Third Meeting: June 3, 2022
→ Validation of the identified challenges
→ MIRO board exercise linking challenges with recommendations

Presentation for feedback:
→ Symposium: Heritage for the Future / Science for Heritage: A European Adventure for Research and Innovation (March 15-16, Paris)
→ Urban Agenda CCH final event (Rome, 2022-06-21)

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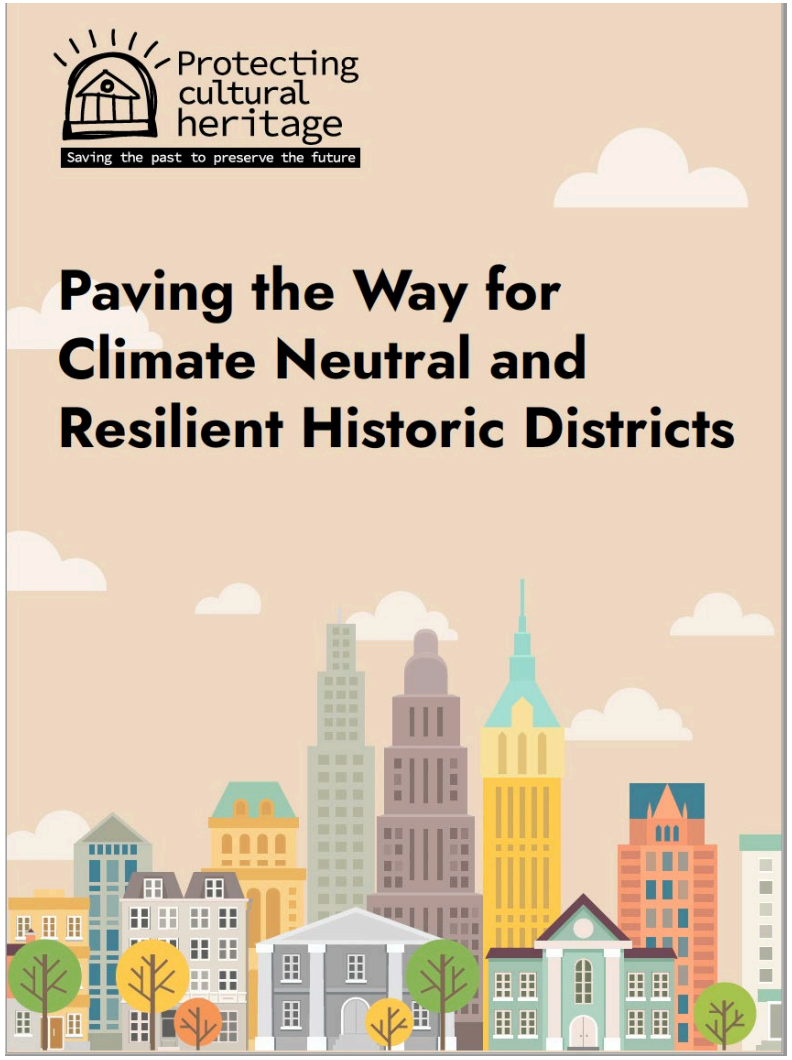
R&I Task Force **White Paper**

New Challenges for Europe's Cohesion



Authors

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Establishing

1. **The Framework**→ Historic Districts as Social-Ecological-Technical Systems, Resilience Concepts & their Relationship with Disaster Risk Management and Climate Change Adaptation
2. **Policy landscape** for resilience and historic districts
3. **Challenges + Recommendations**

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Recommendation from the task force

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CHALLENGE 1 **Data & Assessment**

New Challenges for Europe's Cohesion

- → How can we manage the **large amount of heterogeneous data**?
- → How can we **quantify the social, cultural, and economic value** - **and the loss of these values** - of heritage and how can we include?
- → How can we translate the **complex topic of resilience** **(**DRM+ CCA+HM +social-ecological aspects of organization, financing…) **into operative and easy to use models, methods, and tools?**

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RECOMMENDATIONS **Data & Assessment**

New Challenges for Europe's Cohesion

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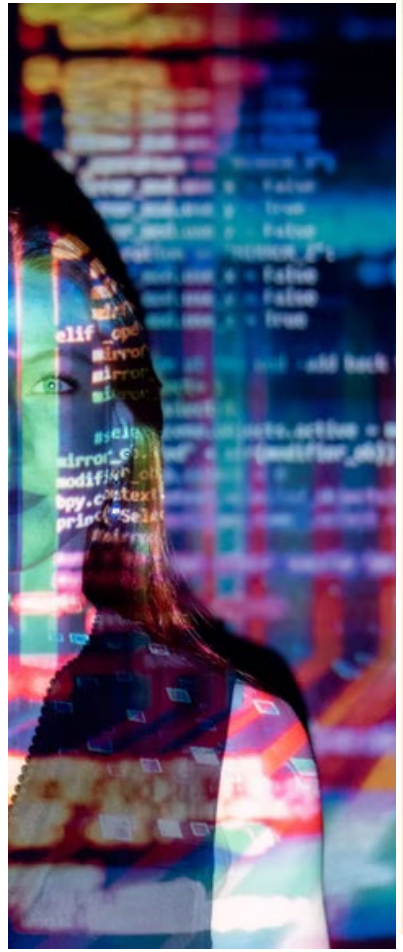
→ **Improve access** to reliable data with **harmonised formats**, gathered in a consistent way across multiple scales

→ Advance the **harmonization of methods, the integration of heritage values** and subsequently **enhance the usability** and reliability of information.

→ Provide more and **better training, education, and capacity building**



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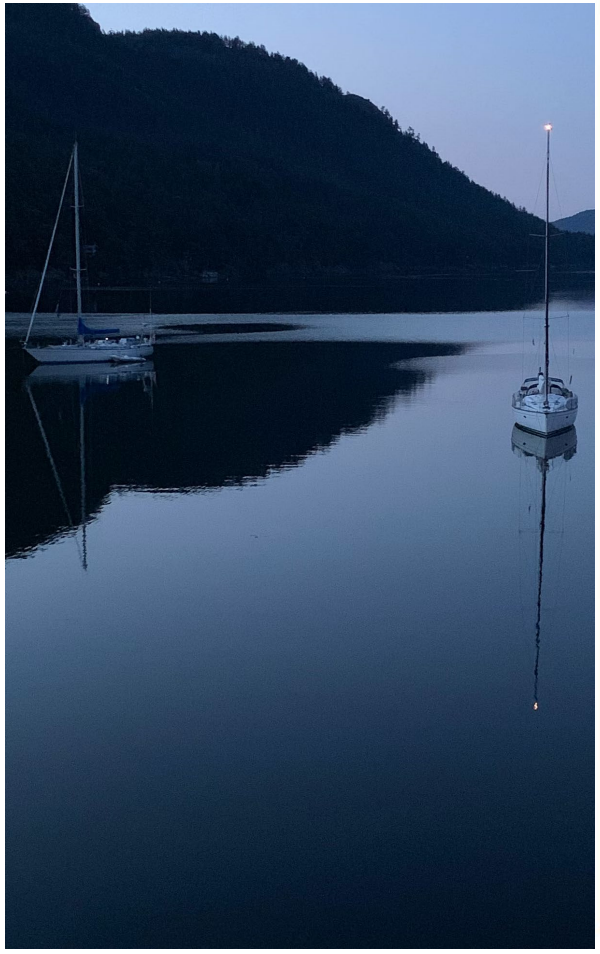
CHALLENGE 2 **Fragmentation**

New Challenges for Europe's Cohesion

- → How can we **breakdown the silos** on national, regional, and local level between DRM, CCA, and HM?
- → How can we **consolidate methodological concepts** across the fields of **DRM, CCA, and HM**?
- → How can we **mainstream** **DRM, CCA of CH** into European, national, regional, and local policies?



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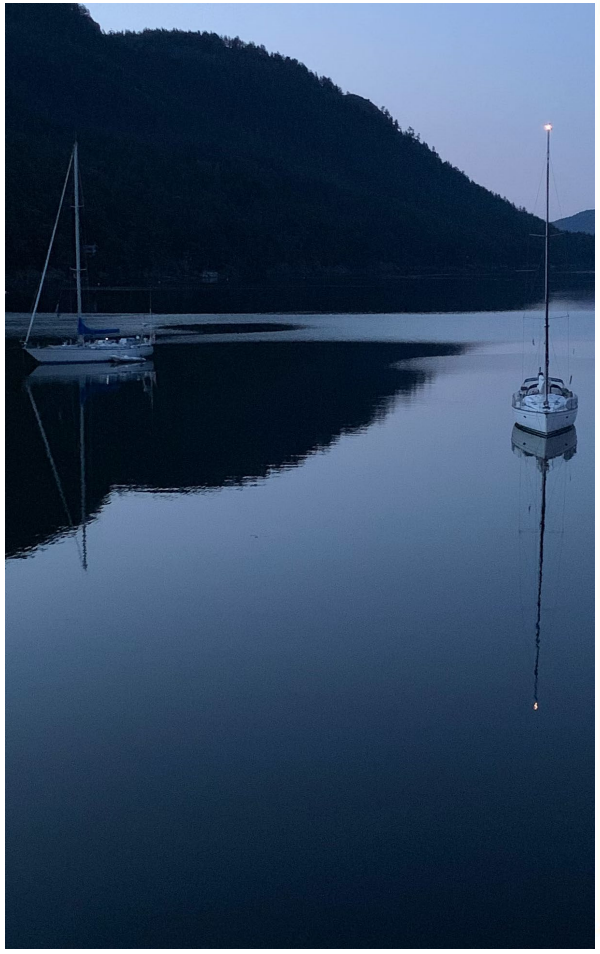
RECOMMENDATIONS **Fragmentation**

New Challenges for Europe's Cohesion

→ Harmonisation and **standardisation** of terminology and practices

→ **Co-ownership** of the resilience goals and management strategies.

→ Raise **awareness** at policy level → make it a priority!



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CHALLENGE 3 **Local Knowledge**

New Challenges for Europe's Cohesion

→ How can we better **include local / community knowledge** and the use of **traditional techniques** into DRM, CCA, and HM?

→ How can we **integrate narratives / storytelling** with more quantitative approaches?

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RECOMMENDATIONS **Local Knowledge**

New Challenges for Europe's Cohesion

→ Engagement techniques for **participative methods**,

→ more research into **mixed-method approaches**

→ Incorporation of **narratives and storytelling**

→ as a means for **better engagement**

→ a way to include **diverse knowledge** in assessments approaches

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CHALLENGE 4 **Governance**

New Challenges for Europe's Cohesion

→ How can we **better communicate** highly complex approaches / results to a broader audience?

→ And how can we **facilitate real ownership of research outputs by end-users?**

→ How can we include - and do justice to - the **diverse viewpoints, interests, and expectations of the many diverse stakeholder** groups and their perceptions of what as heritage value?

→ How can we **engage people to take responsibility**?

→ And how can we achieve a state where the **governing institutions support people taking responsibilities**?

→ How can we **manage the** resource / attention "competition" between multiple different initiatives?

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RECOMMENDATIONS **Governance**

New Challenges for Europe's Cohesion

- → Better and **more tailored engagement techniques**
- → Engage local communities **on their terms**
- → **Co-identify what is protection worthy, which risk levels** might be acceptable, and how to cope with the **dynamic nature** of development in municipal districts
- → **Shift the focus** of policy and research-policy strategies from the often strong and narrow economic-technological aspect to a focus on the whole **social-ecological-technical system**
- → Research projects need to be **designed to be more inclusive**

CHALLENGE 5 **Role of CH**

New Challenges for Europe's Cohesion

→ Getting from theoretical concepts to **actionable strategies**

→ CH heritage as a powerful contributor in the **resilience narrative**

→ not merely an asset to protect, but a part of the solution CH as a driver to change
→ a driver to support transformational changes

→ **Urgency for change**
→ the need to change within the CH sector

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RECOMMENDATIONS **Role of CH**

New Challenges for Europe's Cohesion

- → Need to make **better use of the heritage sector + CCI**, in **creating momentum** for climate and disaster action
- → Using the **unique values of heritage** - and the potential loss of these - as a **communication tool** for creating **urgency + hope**
- → **Involve routinely** the **culture and heritage sectors in climate resilience planning** → to ensure actions are in line with the – community-agreed – protection goals + local traditions
- → Heritage sector need **to move away from its strict focus** on preservation → make engagement with DRM, CCA, and urban planning colleagues **an integral part of its practices**
- → Establishment of **a joint resilience team** or office at local level → official mandate to coordinate the resilience planning process across all involved departments