



Reinforcing civil protection capabilities into
multi-hazard risk assessment under climate change



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European Union
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A participatory and integrated approach for civil protection planning: the case study of Cinque Terre

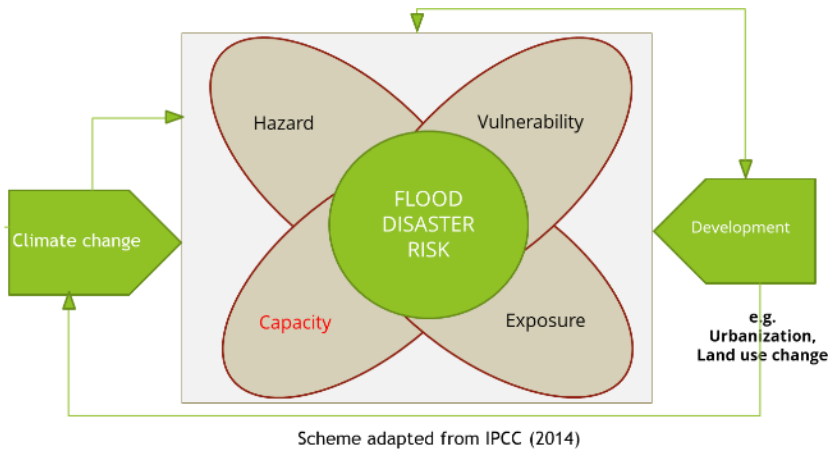
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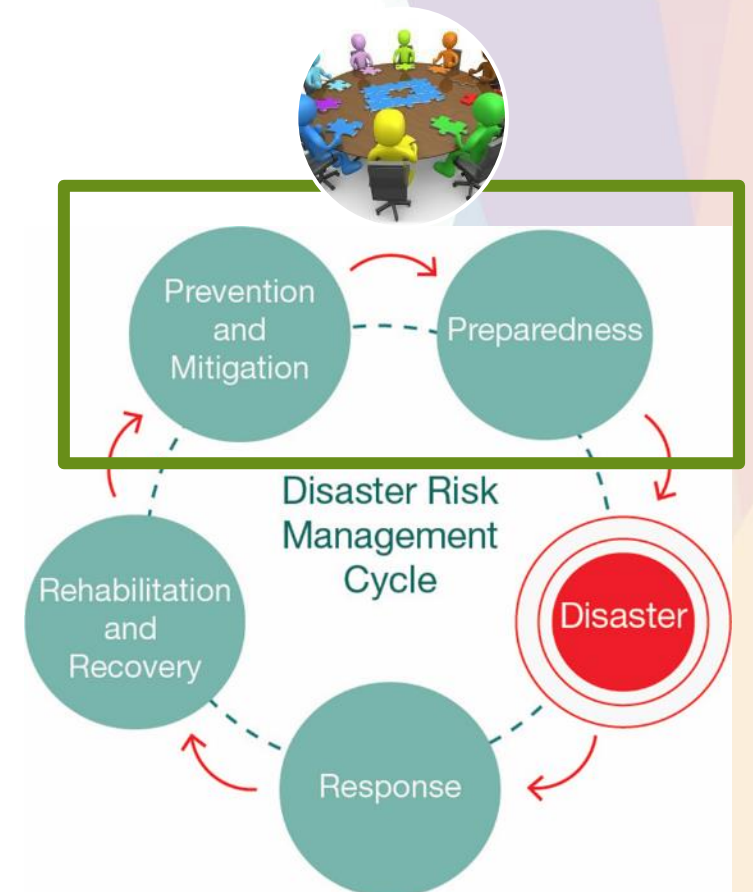
OUTLINE

- ▶ A BRIEF INTRODUCTION : CIVIL PROTECTION CHALLENGES IN THE CONTEXT OF CLIMATE CHANGE
- ▶ THE PROPOSED METHODOLOGY
- ▶ THE CASE STUDY: SOME IMPORTANT INSIGHTS
- ▶ CONCLUSIONS

A brief introduction: civil protection challenges in the context of climate change



- According to EEA, **pluvial floods and flash floods are likely to become more frequent** throughout Europe.

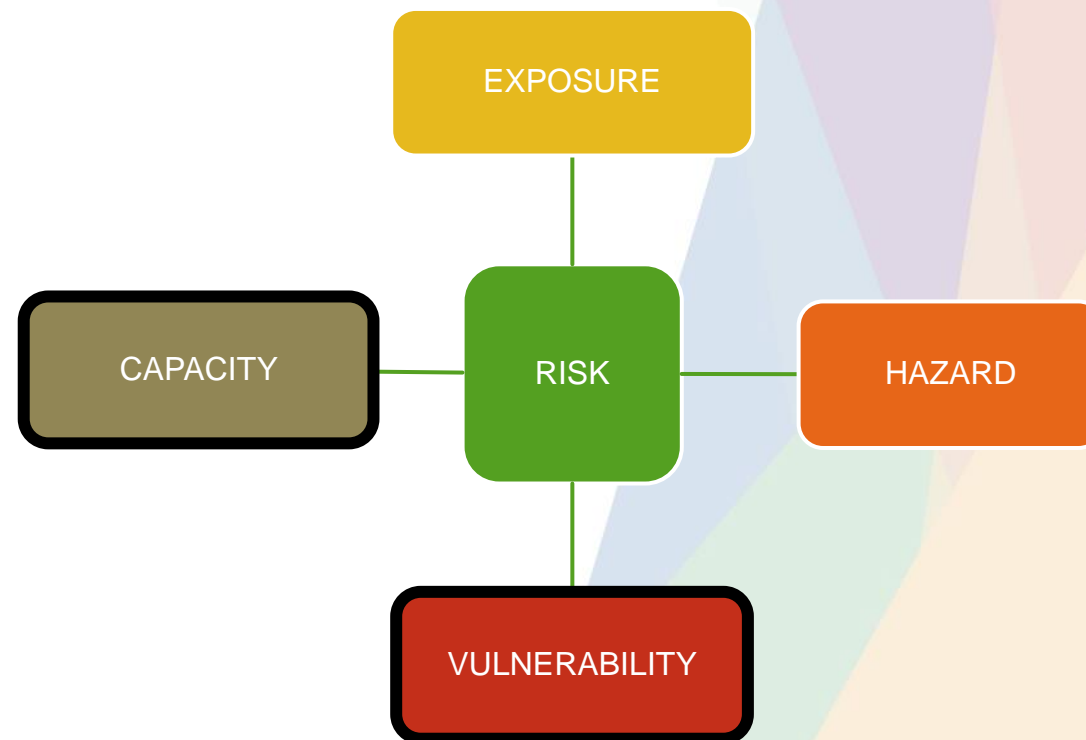


The methodology: a participatory and integrated approach

ISSUE

How to reinforce civil protection capabilities and emergency management to face extended, more severe, unprecedented, or extreme natural hazard events in a changing context

- ▶ **Participatory approach**
- ▶ aims to involve the different territorial actors of the Civil Protection System in **co-design and co-decision of civil protection actions**;
 - ▶ strengthens the local (Regional and Municipal) **civil protection capacity** and “reliability and trust ability” of the institutional bodies of CP
 - ▶ improves **risk knowledge and awareness** and the capacity building
 - ▶ favors actions more **shared and adapted**.

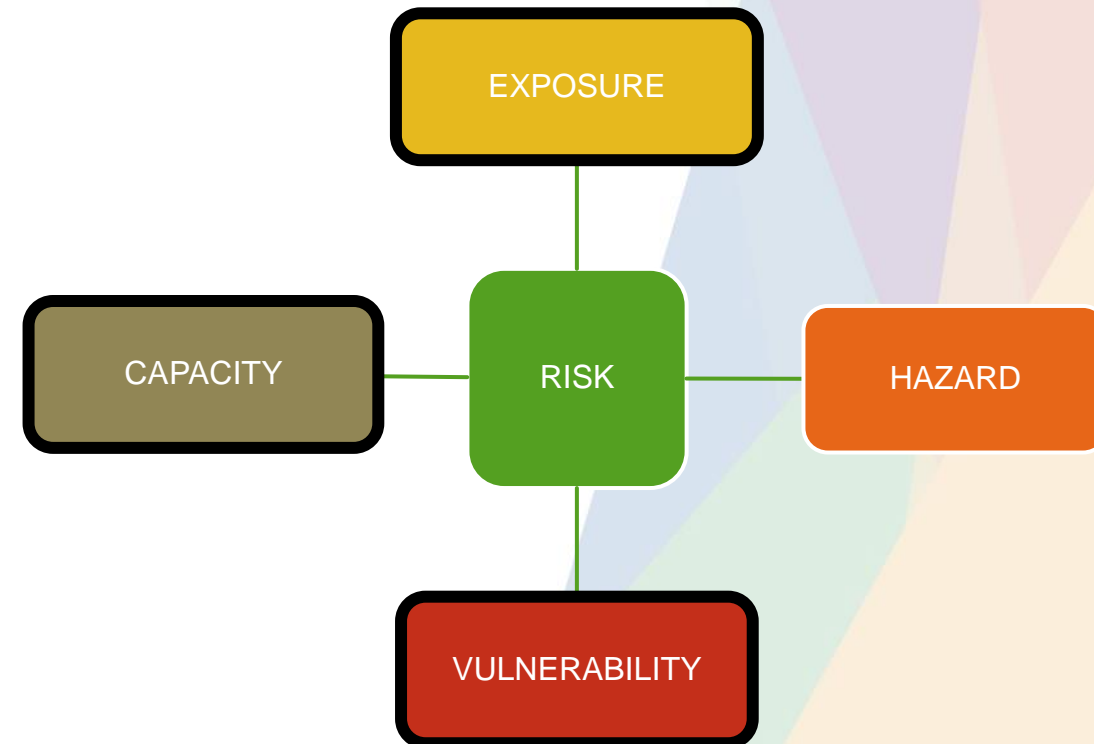


The methodology: a participatory and integrated approach

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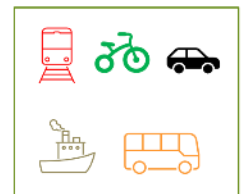
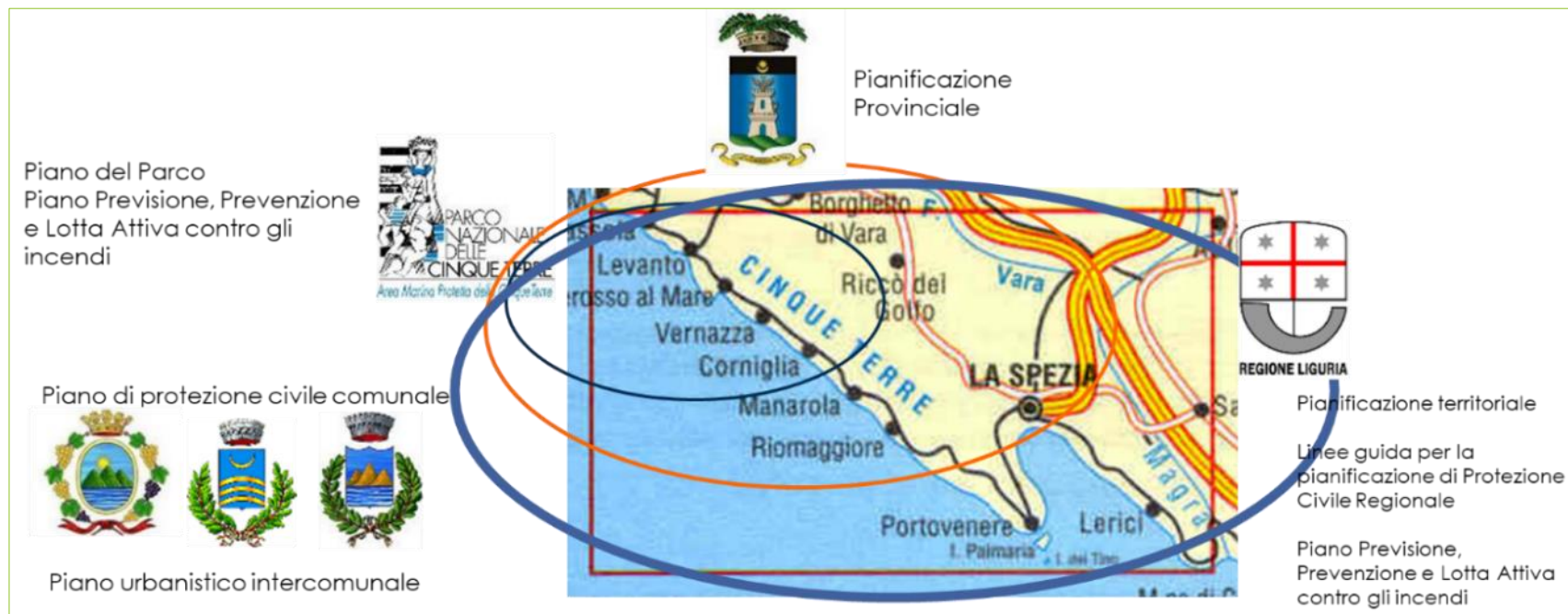
- ▶ **Integrated approach**
- ▶ aims to facilitate the enhancement and exchange of information between different sectors and favor interinstitutional cooperation.
 - ▶ decreases the “territorial vulnerability and exposure”, producing more aware territorial planning able to take into account the actual and future disaster risk.
 - ▶ favors greater collaboration and cooperation between different entities that are in charge of disaster risk management, also clarifying the different responsibilities



The case study of 5 terre

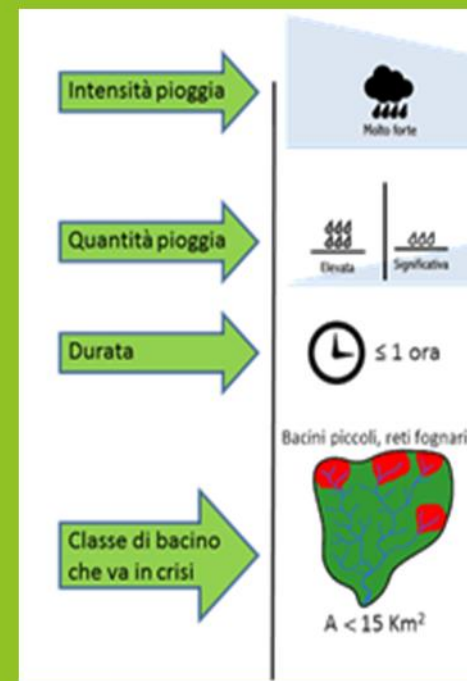


Hydrogeological and socioeconomic remarks



TOURISM SECTOR

SMALL RIVER BASINS

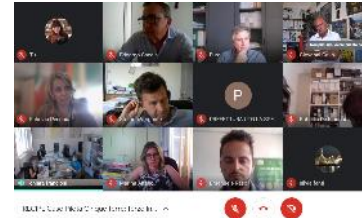


Response time:
20 min - 1h

Road map for participated and integrated approach

Context
analysis
including CC
impacts

SWOT Analysis and
Definition of
participation
objectives for CP
planning
(flood risk and
tourism sector)



Process
implementation

Civil Protection Plan
improved, more
suited to local
context (Capacity)
and to DRM/CCA
framework

DRM
Actors
mapping



Formalization
of the inter
institutional
working group

Some insights | Working group composition and scope



MUNICIPALITIES

Local institutional bodies
in charge of local civil protection



PREFECTURE

Territorial institutional body
in charge of coordination of
municipalities and civil protection



REGIONE LIGURIA

Region

Regional institutional body
in charge of regional civil
protection



National Park

National institutional body
in charge of territorial planning



Regional agency for the
protection of the Ligurian
environment.

Regional institutional body
in charge of regional civil
protection (forecasting and
monitoring the events)

Some insights | Tourism sector



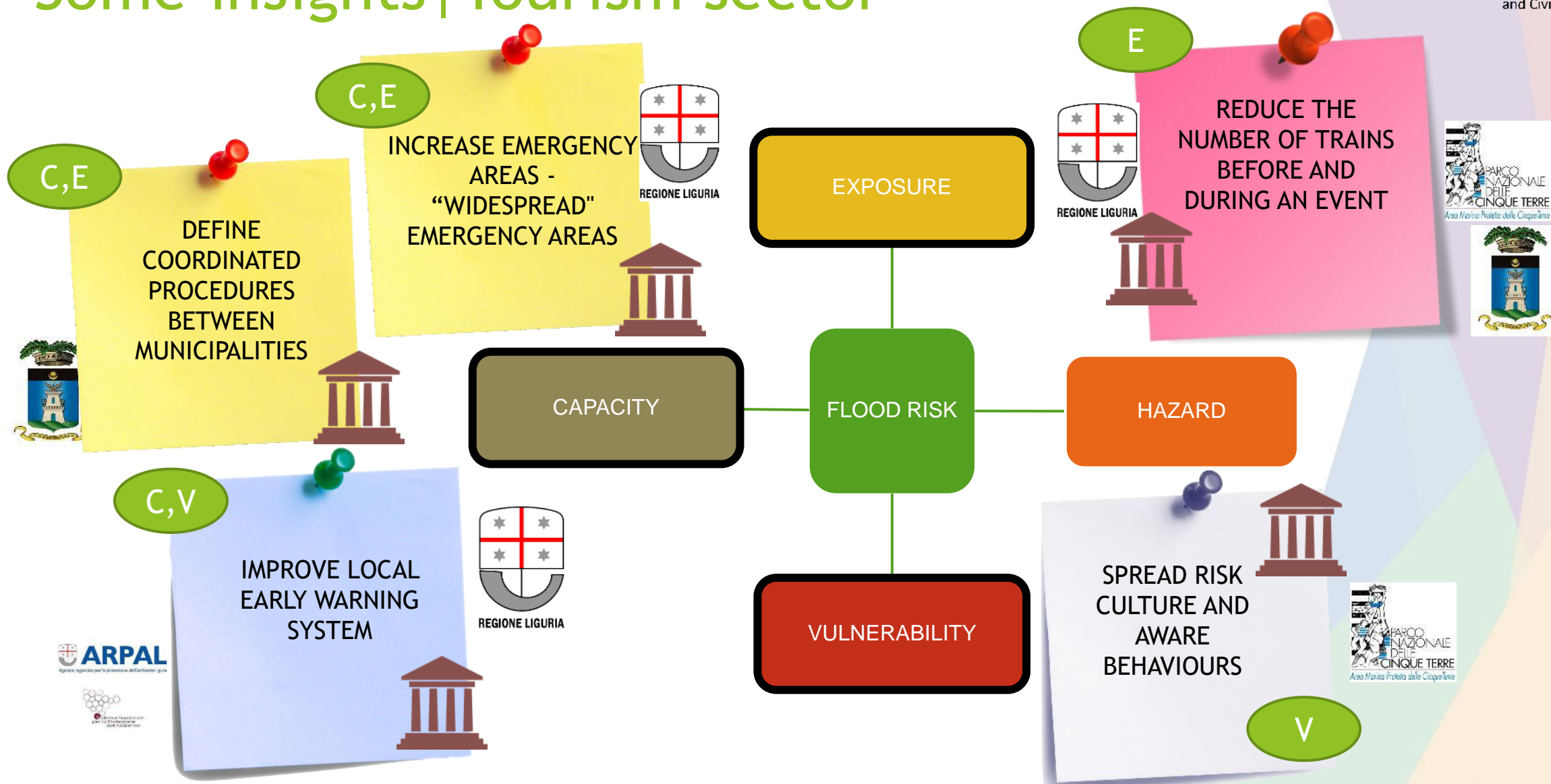
Climate Change impacts

Increased Flood risk

Increased Tourism sector vulnerability

*CAN ADDRESSING TOURISM SECTOR RISK MANAGEMENT BE AN
OPPORTUNITY FOR IMPROVING TERRITORIAL RESILIENCE?*

Some insights | Tourism sector



Conclusion II

PARTICIPATED AND INTEGRATED Civil Protection Plan

the Cp plan could be seen as a tool of Preparedness but also of Prevention and mitigation, focusing on the efforts of reducing the risk vulnerability and exposure. In this way a civil protection plan could enrich and could have a WIDER and OVERALL view and impact on risk reduction.



Civil Protection Plan

► **How to reinforce civil protection capabilities and emergency management to face extended, more severe, unprecedented, or extreme natural hazard events in a changing context**



RECIPE

REINFORCING CIVIL PROTECTION
CAPABILITIES INTO MULTI-HAZARD
RISK ASSESSMENT UNDER
CLIMATE CHANGE

Thank you!



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