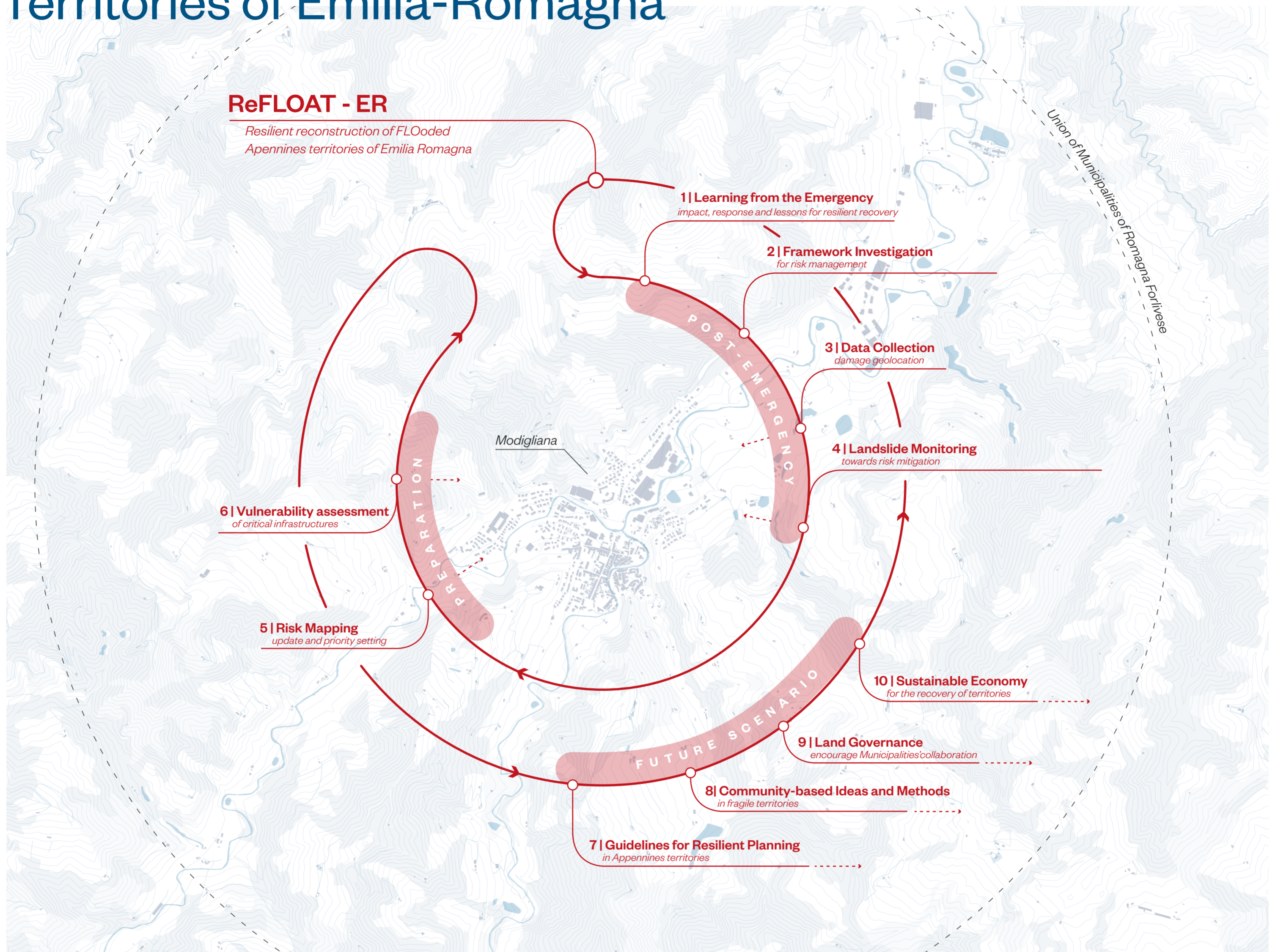


ReFLOAT-ER

Resilient reconstruction of Flooded Apennines Territories of Emilia-Romagna



1 | Learning from the emergency

Building on previous experiences, damage assessment, response evaluation and the analysis of hazard, exposure and vulnerability factors are conducted, in a dialogue with local stakeholders.

2 | Framework investigation

Study of the set of prevention and resource management regulatory frameworks for the disaster response and reconstruction in the Italian context.

3 | Data collection

Mapping of the environmental conditions of the territory before and after the flood through geo-referenced information contribute to the definition of guiding policies and to the simulation of different disaster scenarios. planning and reconstruction alternatives.

4 | Landslide monitoring

Mitigate the flood and landslide risk by monitoring buildings at risk, identify trigger factors and activation thresholds, based on the available meteorological and hydrological data.

5 | Risk mapping

Through proper damage assessment, the risk maps are updated, and critical hotspots and priority area are identified, towards the definition of structural and non-structural measures of risk mitigation.

6 | Vulnerability assessment

Identification of bridges at scour risk due to hydraulic actions near the piles and shoulders of bridges, and monitoring of changes in the dynamic behaviour of bridges.

7 | Resilient planning

Guidelines for the definition of resilient system, starting from the specificities of the territory and expectations and needs of local communities.

8 | Ideas and Methods

New reconstruction approaches are promoted, to support long-term resilience, boost community sense of belonging and engage with Politecnico di Milano's educational curricular.

9 | Land governance

Expand the territorial and urban regeneration from Modigliana to the Union of Municipalities of Romagna Forlì, through planning instruments, voluntary agreements, programs and actions, by involving communities and their local knowledge.

10 | Support the territory

Region-wide analysis of the ecological and economic resources to boost local supply chain, rediscover material and immaterial heritage and recover the local know-how manufacturing companies.

