

# RAINBO: monitoring and predicting severe rainfall events and their impact

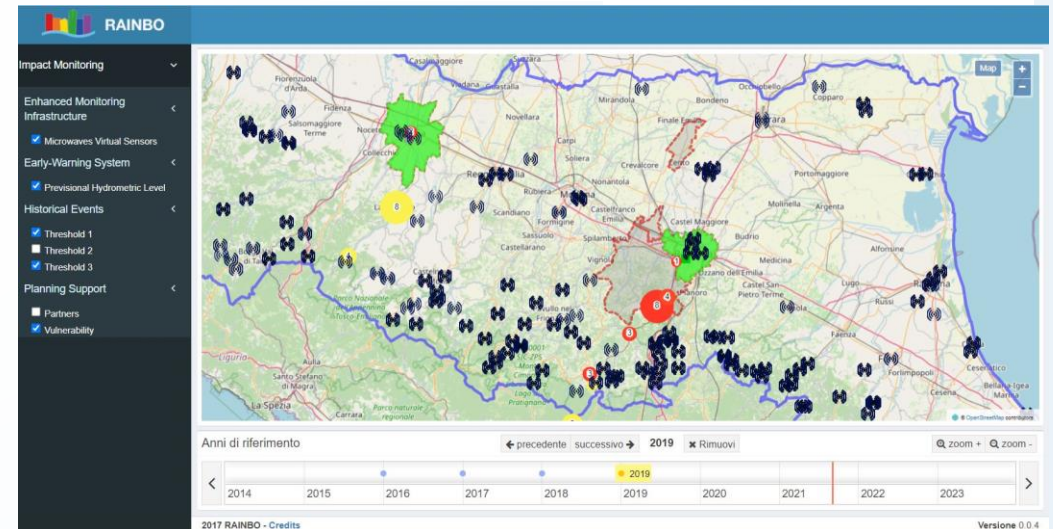


- User: municipalities, public authorities
- Challenge/Needs: to improve knowledge, methods and tools in response to extreme weather events.
- Initiative: RainBO (LIFE15 CCA IT 000035), coordinated by LEPIDA SpA.
- Results: monitoring framework (web platform) based on an integrated network of traditional sensors (river hydrometric information, radar and raingauge rainfall data etc) and new technologies (microwave link technology for precipitation estimation). API available to integrate outputs within other services/platforms; possibility to scale-up with new monitoring modules to extend the geographic domain.
- Service Provider: LEPIDA SpA for the whole RainBO platform (API available). MEEO Srl for the near-real time rainfall monitoring based on microwave link technology.

Target 11.5: By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.



**LIFE15/CCA/IT/000035**  
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RainBO webGIS interface – historical events monitoring on the project pilot areas of the Emilia Romagna region (Italy): vulnerability areas in green, microwave link sensors in black, yellow and red dots for river level alert threshold overcoming.

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<http://webgis.rainbolife.eu/impactmonitoring/>  
<https://www.rainbolife.eu/>  
<https://www.lepida.it/>