Ebro Resilience Strategy: Flood risk management through green infrastructures and adaptation measures

LIFE EBRO RESILIENCE P1 (LIFE20 ENV/ES/000327)























CONVEGNO NRL: Torino 2024

FLOODS

Floods are a recurrent natural event

Fast and torrential floods.

Slow or laminar floods.







ECONOMIC DAMAGE

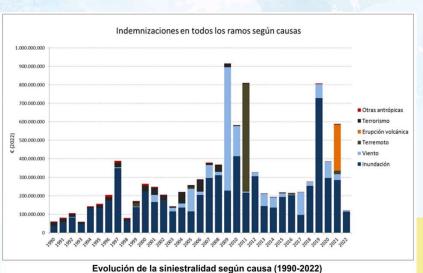


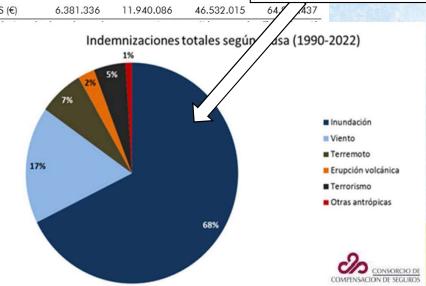


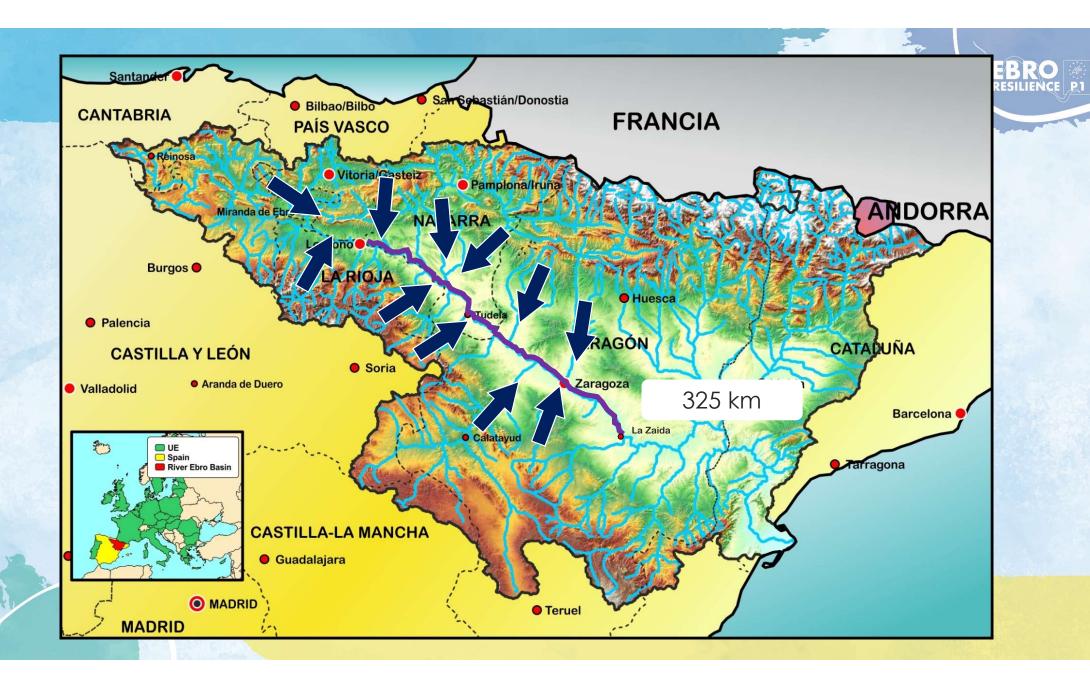
Floods generate significant economic damage in the study section:

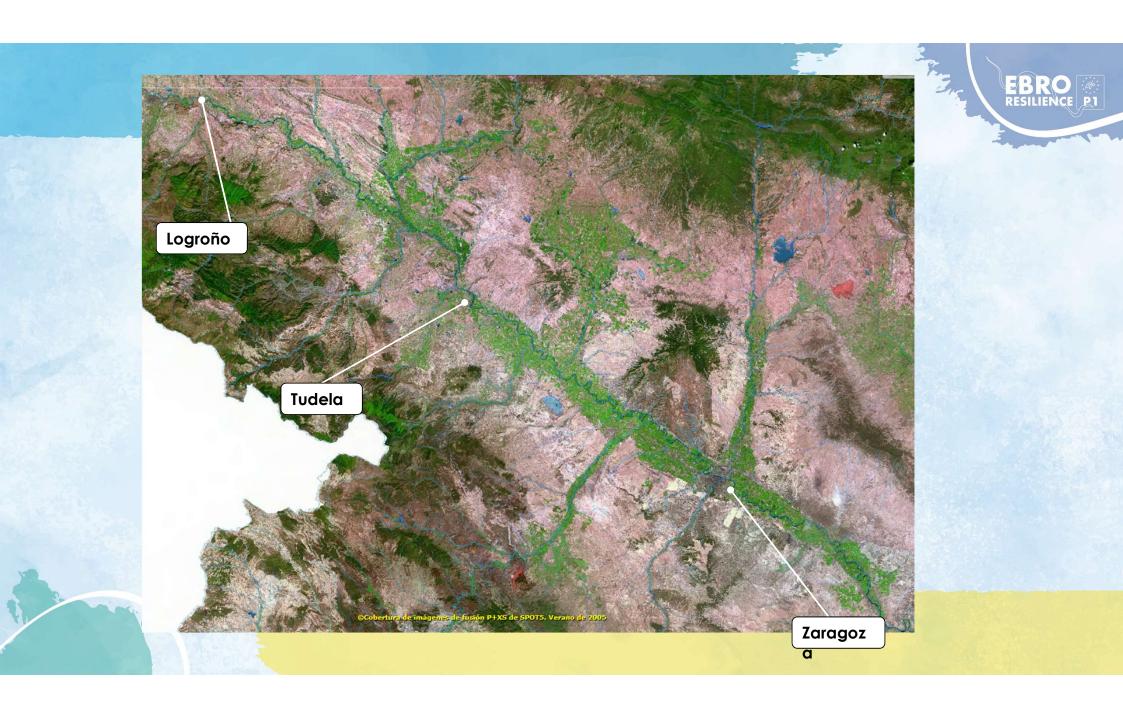


Hidrográfic

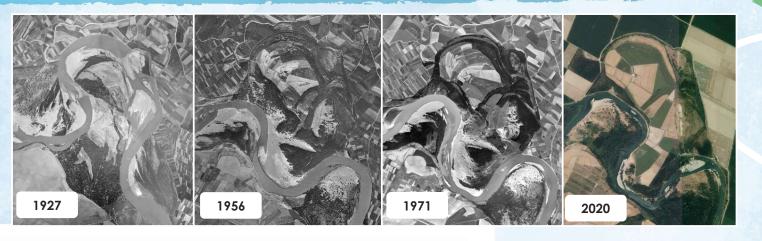






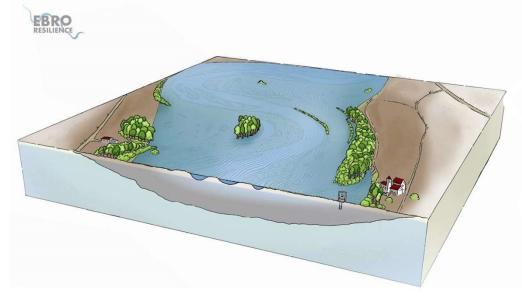


WHY IS THIS HAPPENING?





River basin regulation
Loss of river space
-50% in 100 years



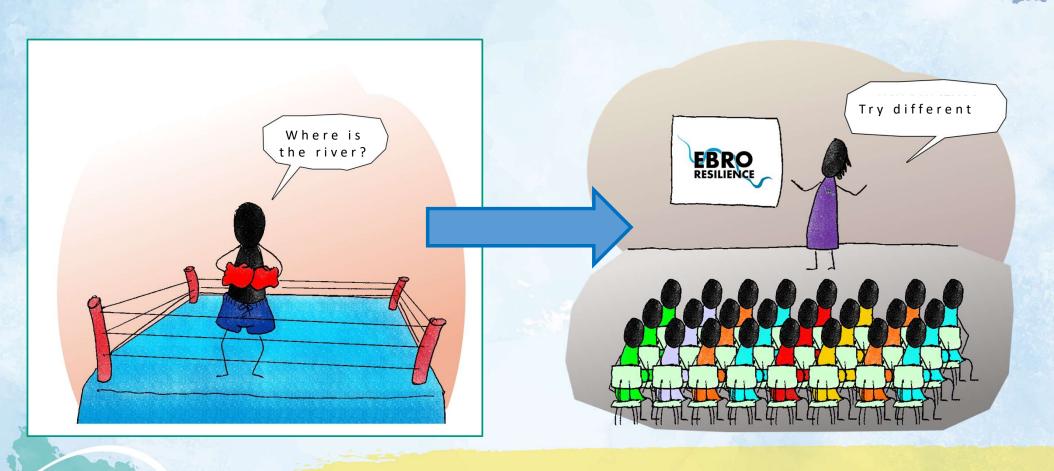
555 km of dykes on 325 km of riverbed

Occupation of space with **vulnerable** areas

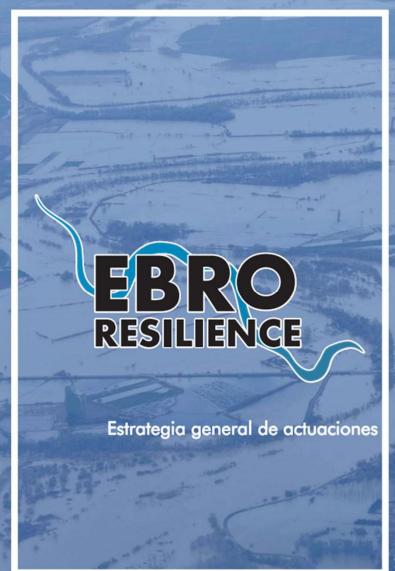


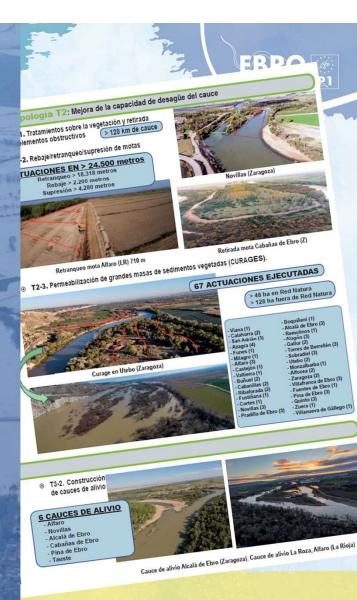
CHANGE THE MODEL





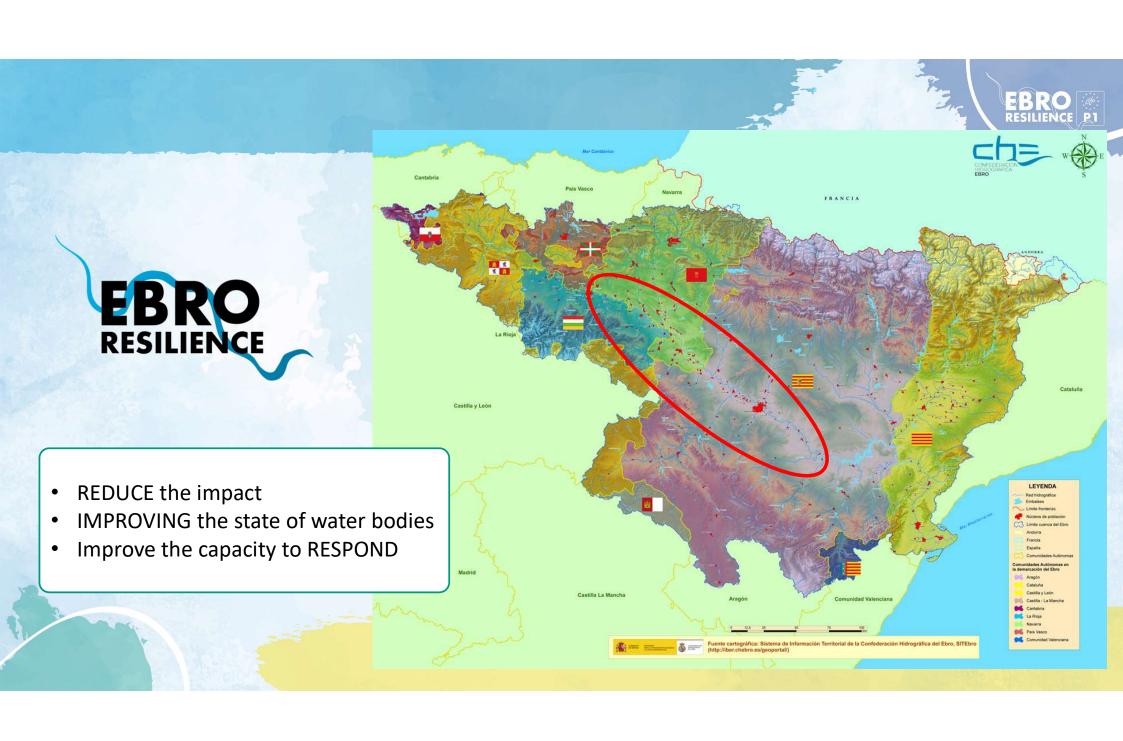






2018

Versión 1.0 Enero 2020



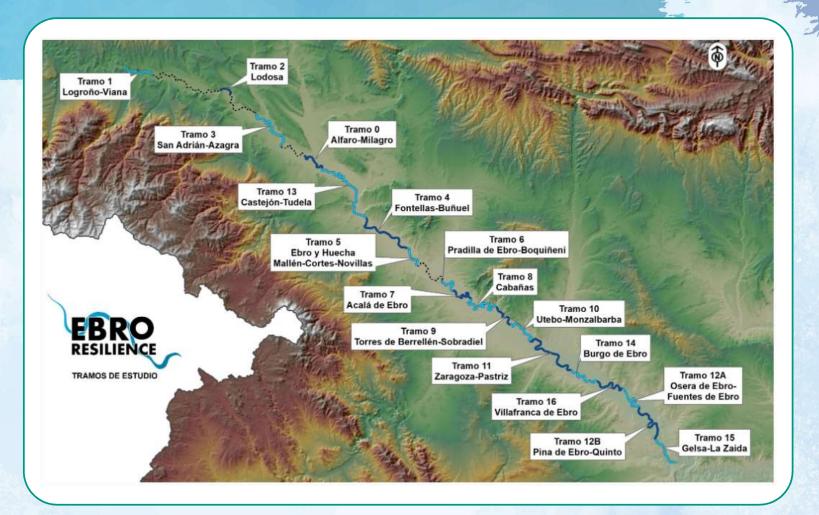


Water framework Directive 2000



Assessment and management of flood risks Directive 2007

Poministrations coordination



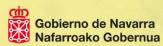


















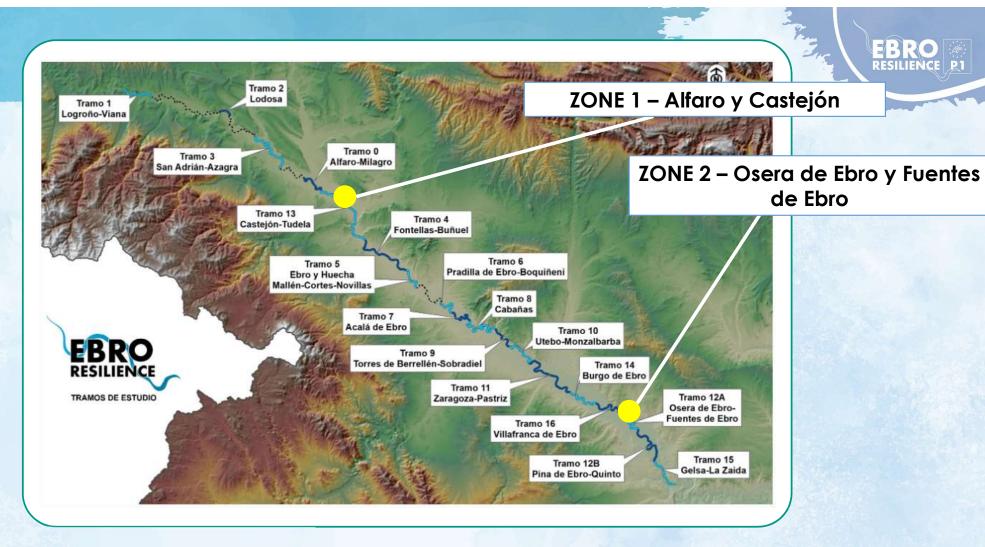








Sept 2021- Aug 2027
Budget: 13,3 M € (EU contribution: 7,3 M €)
National authority plus 3 regional governments







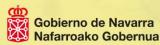




















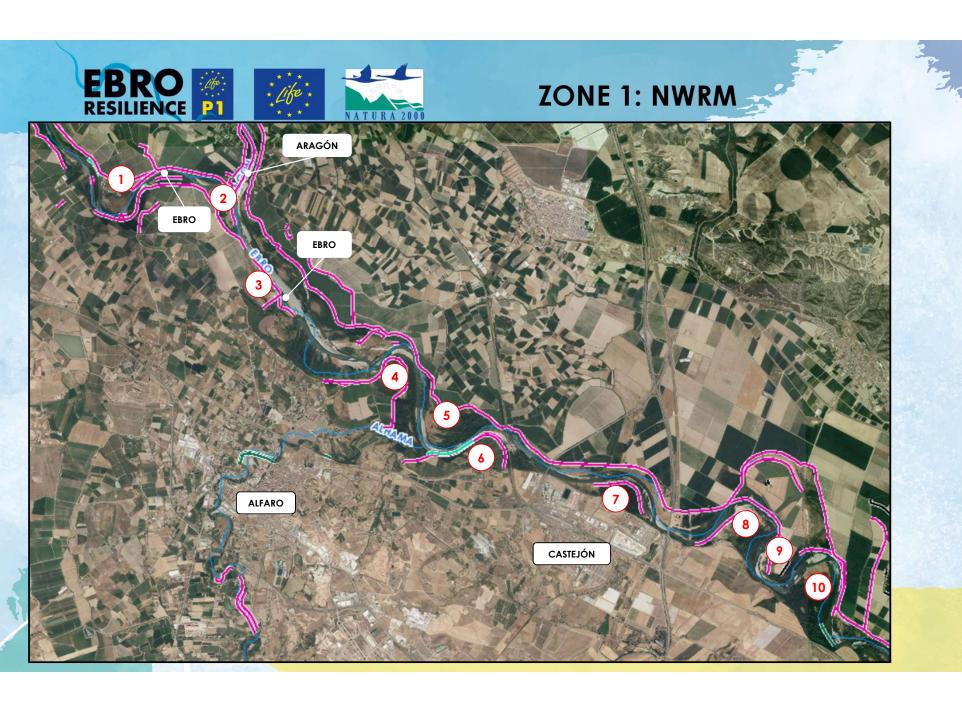






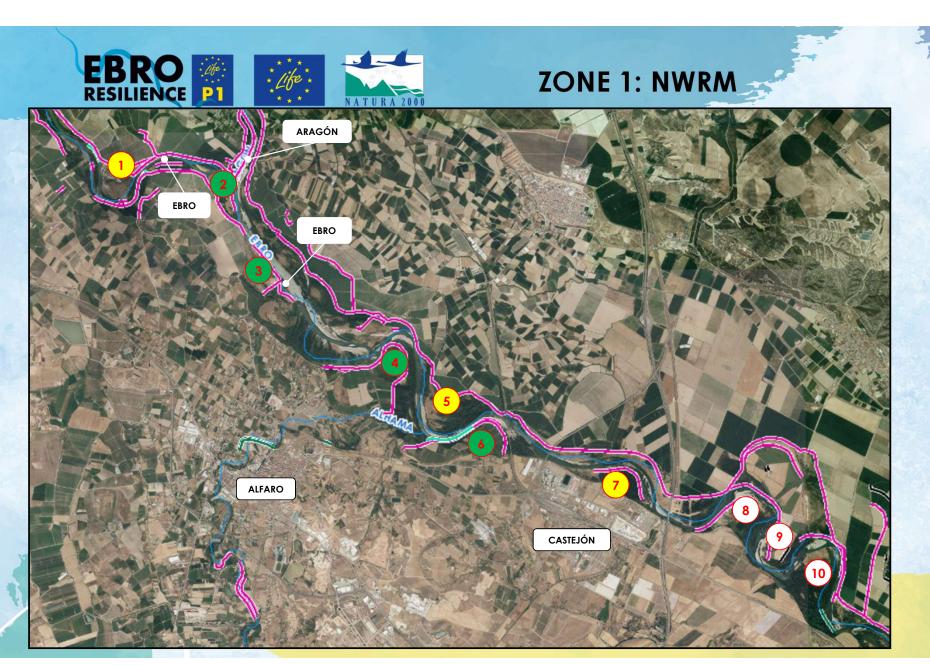
















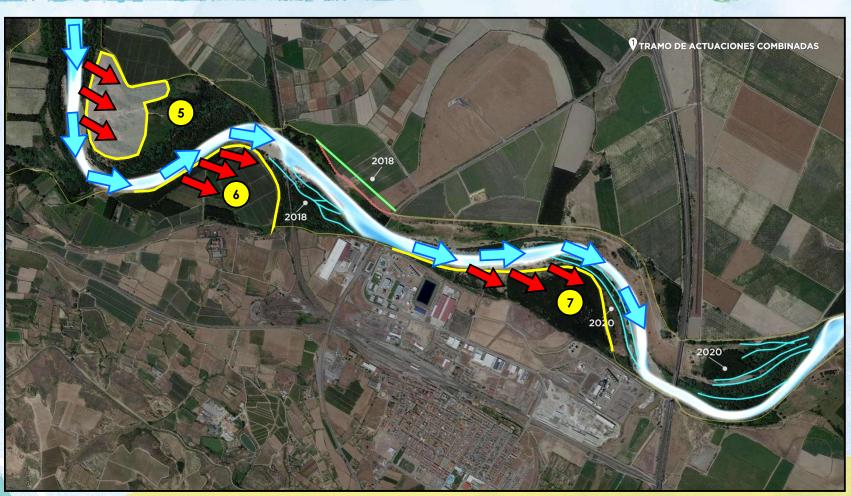


























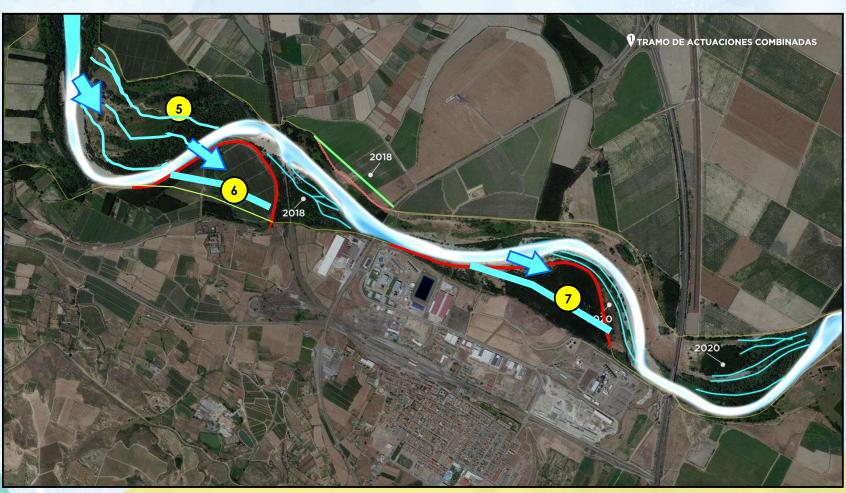












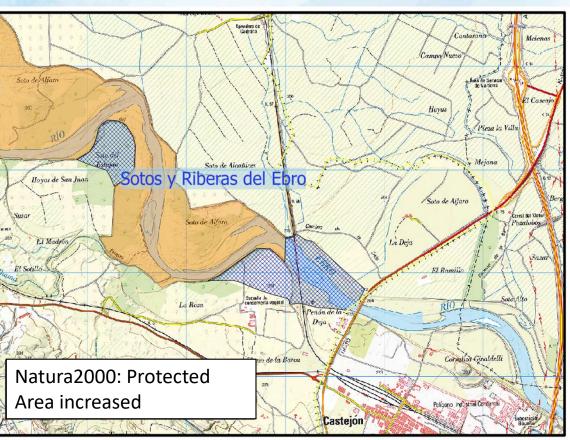


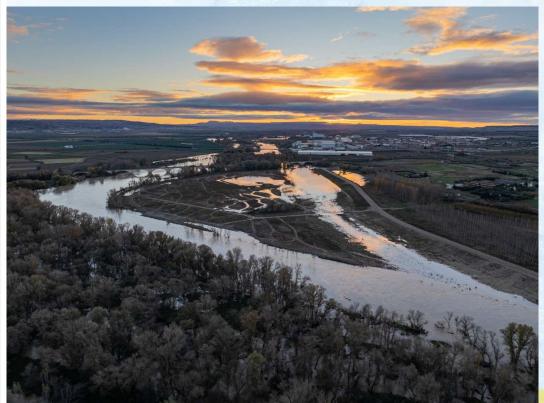


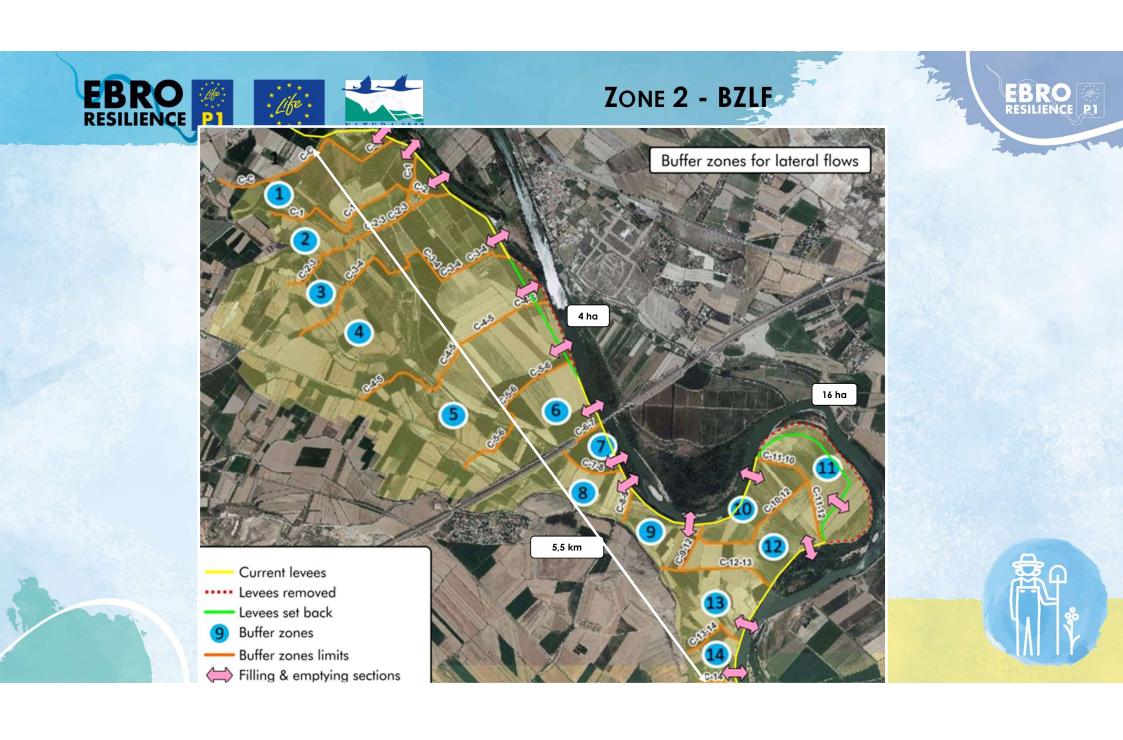




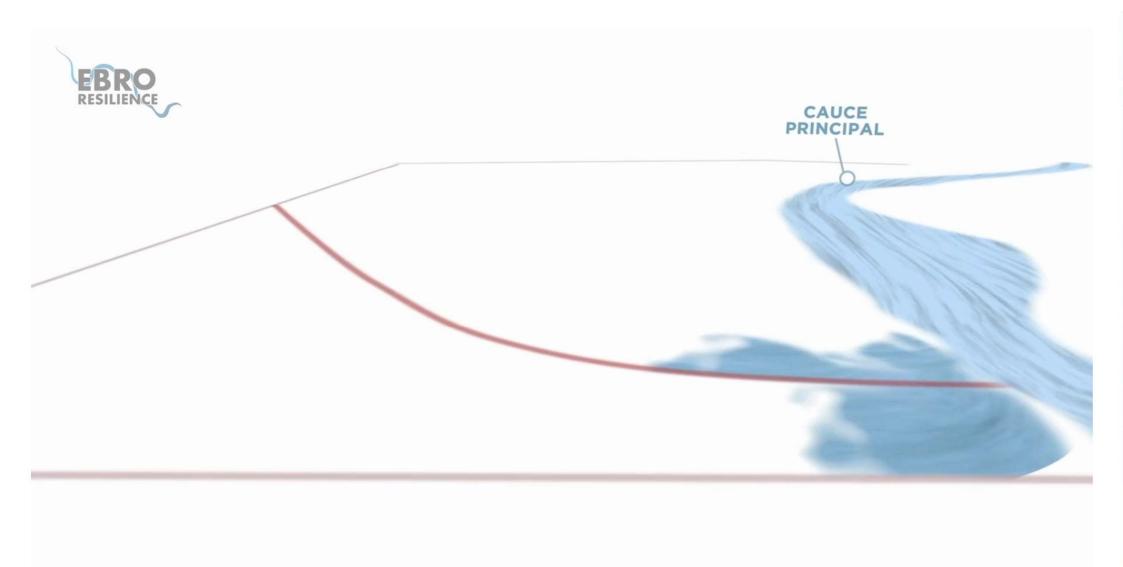




















Experiences and lessons learnt



- Flood risk management and river restoration can be combined for mutual benefits.
- <u>Inter-administrative coordination</u> facilitates the implementation of interventions, both in terms of processing and social acceptance.
- Working teams should be professional, broad-based and multidisciplinary.
- <u>Public participation</u> processes are essential for the understanding and acceptance of major river restoration actions, as long as these processes are real, truthful and take place at a time when all options are still open.
- Negotiation skills allow agreements to be reached even if they are not optimal.
- Patience and good sense of humour.





THANK YOU!















