

# RITA – Risposta Impatti Tempesta Alex

## Increase the resilience of the ALCOTRA territories most exposed to risks

The project aims **to prepare the territory to the impacts of catastrophic events** such as storm Alex, both **intervening**, immediately, **from the structural point of view to restore the caused damage**, but also, longer term, **with management measures that allow to increase the resilience of the territory** through a cognitive phase aimed at mitigating the effects of future storms on the ALCOTRA territory.

The storm Alex highlighted the territorial critical issues from the point of view of protection from geo-hydrological risk.

These critical issues are mainly related to the **inadequate definition of risk areas, the lack of a solid and liquid flow modelling based on present digital ground models (DTM), and the presence of numerous alpine barriers** that have not been able **to regularize the inflows towards the valley** during this extreme event.

The RITA project wants to answer to some of these challenges, proposing a **mix of structural interventions and insights** that will allow, in the immediate future, **to predict with greater accuracy the effects of storms**, investigating the capacity of flood retention by alpine barriers and the propagation of floods along streams, starting from the experience and data of Storm Alex.

The results of these activities will be extended to the entire cross-border territory **to transfer the knowledge acquired in the form of "technical notebooks"**, addressed to professionals of the cross-border area and beyond.



RITA is a project funded under the European Territorial Cooperation Programme INTERREG ALCOTRA ITALIA – FRANCIA, the European Regional Development Fund (FESR) and the «Fondo di rotazione nazionale»



**Interreg**  
**ALCOTRA**

Fonds européen de développement régional  
Fondo europeo di sviluppo regionale



UNIONE EUROPEA  
FONDO DI ROTAZIONE NAZIONALE

### PROJECT DURATION

15 months  
(from 01/01/2022 to 31/03/2023)

### PARTNERS

- Regione Autonoma Valle d'Aosta – Struttura opere idrauliche (Capofila)
- POLITECNICO DI TORINO – DIATI
- INRAE - Institut national de recherche pour l'agriculture, l'alimentation et l'environnement
- CNR-IRPI - Istituto di Ricerca per la Protezione idrogeologica del Consiglio nazionale delle Ricerche
- USMB - Université de la Savoie Mont Blanc

### FUNDING INSTRUMENTS

- Programma di Cooperazione INTERREG ALCOTRA ITALIA – FRANCIA V A 2014-2020
  - Fondo Europeo di Sviluppo Regionale (FESR)
  - Fondo di rotazione nazionale

### BUDGET

Total funding € 987,770.72 of which € 61,301.73 allocated to DIATI

POLITO and DIATI role:

Politecnico di Torino is partner of the Consortium.

Scientific manager for DIATI:

**Prof. Carlo Camporeale**