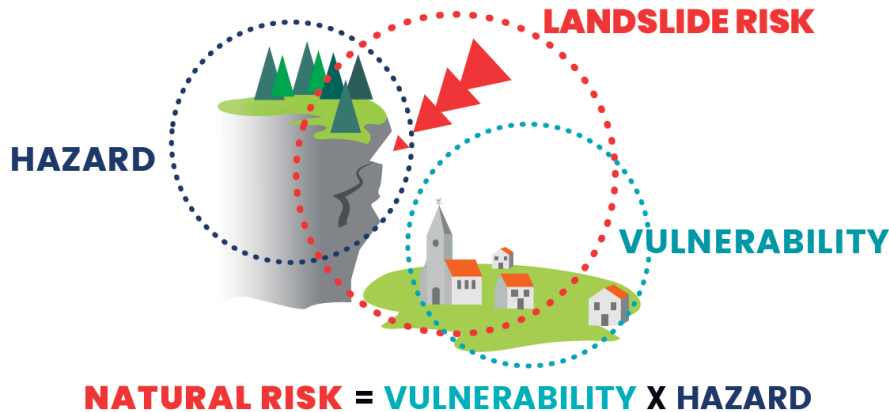



EUSALP "Climate, Risks, Energy" Conference
Chamonix, Sept. 30th – Oct. 1st 2020

Thematic Workshop 3

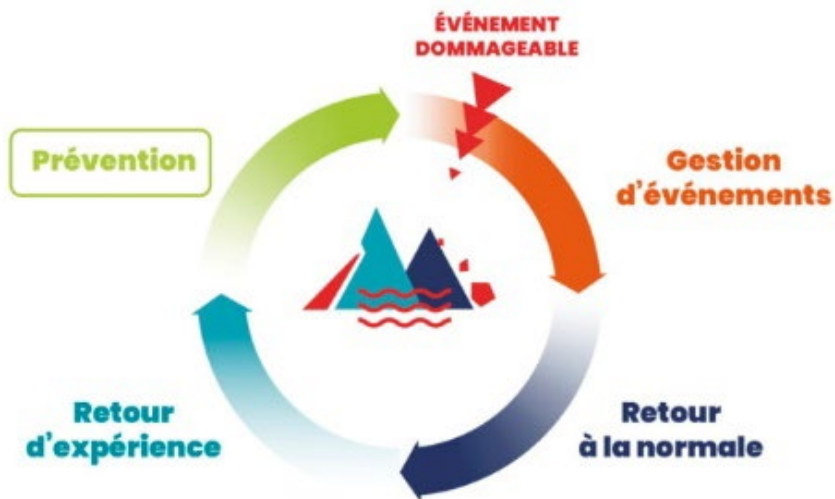
An integrated approach in territorial planning

Context



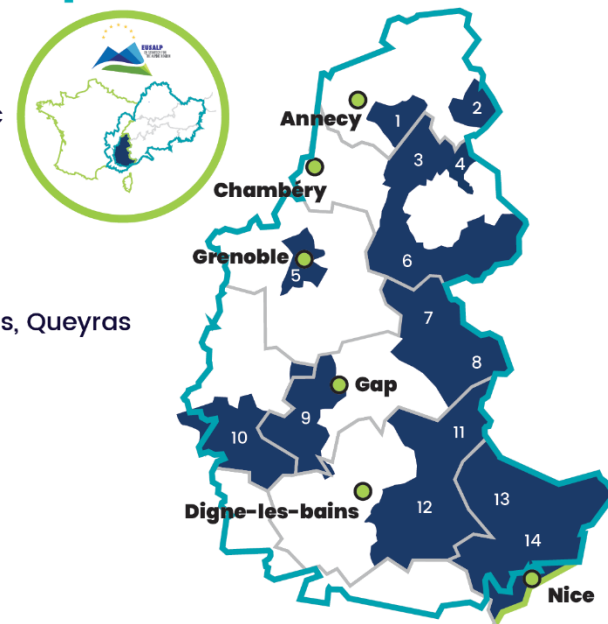
- Need for more integrated approaches in territorial planning for natural risk management and climate change adaptation
- Urban planning: a new topic for EUSALP AG8 
- EUSALP's objective to implement concrete actions

French Alps experience in Integrated Natural Risks Management (INRM)



Network of involved territories since 2009

1. CC Vallée de Thônes
2. CC Vallée de Chamonix Mont-Blanc
3. Arlysère
4. Bourg-Saint-Maurice
5. Grenoble-Alpes Métropole
6. Syndicat des Pays de Maurienne
7. PETR Briançonnais, Ecrins, Guillestrois, Queyras
8. PNR du Queyras
9. SMIGIBA (Buëch)
10. PNR Baronnies Provençales
11. CC Ubaye Serre-Ponçon
12. CC Alpes Provence Verdon
13. CC Alpes d'Azur
14. SMIAGE (Alpes Maritimes)



Workshop Objectives

To share:

- the main issues, findings, gaps and needs about **integrated approach in territorial planning**, in the field of natural risks management (and biodiversity)
- some experiences and innovative approaches
= good practice

To work out:

- possible proposals for future cooperation programs

Schedule

- Grenoble-Alpes Metropole testimony (15')



- Workshop exchanges (2h)



(short break)

- Synthesis (30') → Outcomes



→ Restitution : 5'

Sanitary challenges / Adaptation

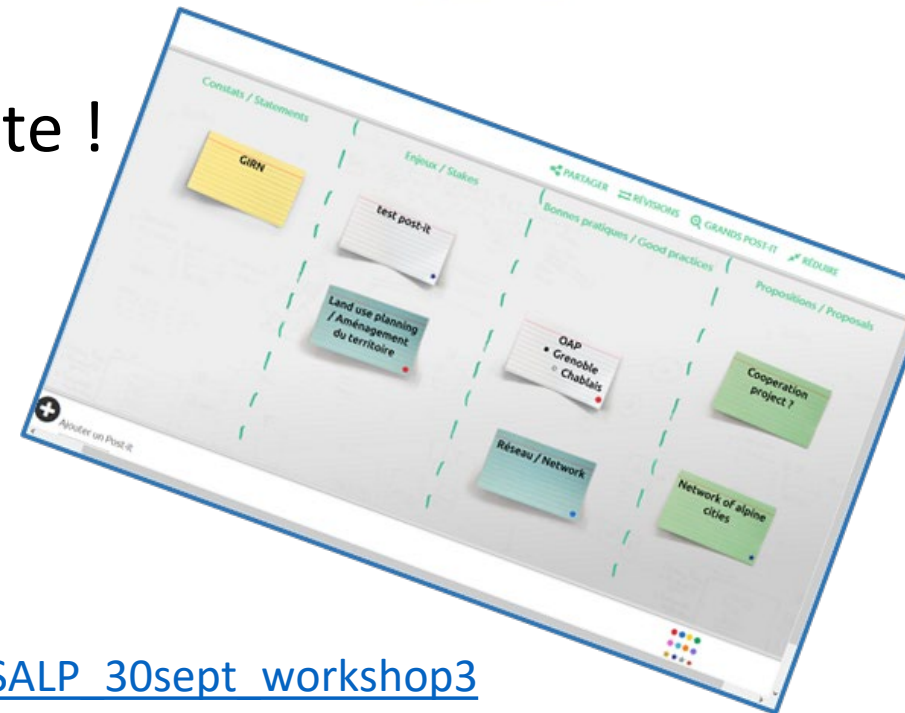
Presence / Distance : interactions ?



➤ Visioconference : participate !

➤ Interactive tool :

Post-it board



https://postit.colibris-outilslibres.org/EUSALP_30sept_workshop3

Thank you for participating!

Contact PARN (EUSALP AG8 Member):

- benjamin.einhorn@univ-grenoble-alpes.fr
- carine.peisser@univ-grenoble-alpes.fr



Pôle Alpin Risques Naturels

Alpine Center for Natural Hazards and Risks Prevention

Towards a Network of Resilient Alpine Cities?



EUSALP 2020 Chamonix

*Atelier 3 : Une approche intégrée dans la
planification territoriale*

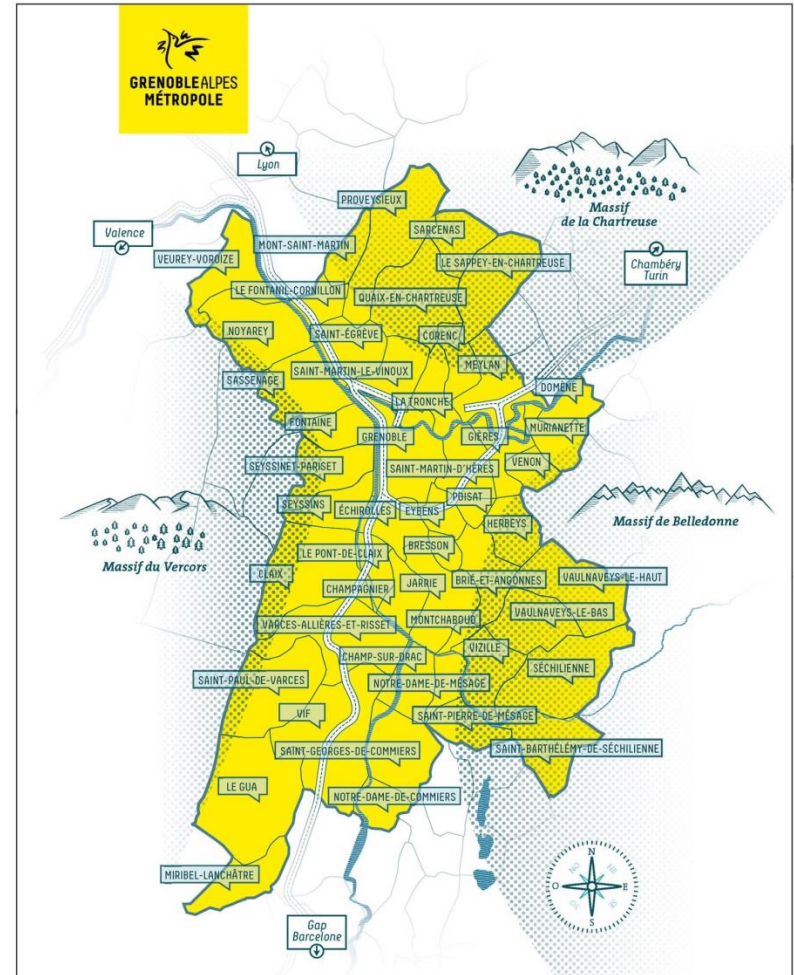
*Workshop 3 : Integrated approach in
territorial planning*



GRENOBLE-ALPES METROPOLE

What is it ?

- Grenoble-Alpes Métropole is a community of municipalities :
 - 49 communes : 80 to 160.000 inhabitants
- Designed to share :
 - Common vision of the territory
 - Public expenses
- The 119 councilors are not directly elected, they're nominated by their municipal councils



GRENOBLE-ALPES MÉTROPOLE, AN EXPOSED TERRITORY

- 3 big rivers (Isère, Drac, Romanche)
- Numerous torrents descending from the three mountains :
 - Chartreuse (🏔️ 2082m),
 - Belledonne (🏔️ 2986m),
 - Vercors (🏔️ 2341m)
- More than a half of the territory exposed to a natural risk
- More than a half of people living inside a natural hazard zone
- Diversity of hazard :
 - **Hydraulic : torrential, flooding due to dikes failures, flash floods, streaming...**
 - **Geologic/Mountainous : rockfall, landslides, suffosion, avalanches...**
 - **Seismic**



Crumbling of Ripaillère, 2011



Fire of Néron, 2003



Torrential flod of Doménon, 2005

GRENOBLE-ALPES MÉTROPOLE, EXPOSED TO INDUSTRIAL HAZARDS

- Numerous of **industrial plants** generating a diversity of risk : toxic, overspressure, thermic etc.
- A dense network of toxic materials **pipelines**
- Several **mining** areas
- Risks of **dam** break upon the three rivers
- **Nuclear** (Institut Laüe Langevin)



Chemical platform in Jarrie



Dam in Monteynard (Drac)



Institut Laue Langevin, Grenoble 4

METROPOLITAN STRATEGY

- A necessary territorial resilience
- **DO NOT DENY** risks or hazards
- **AVOID** and **RETREAT** from the most exposed zones
- **OBJECTIFY** and **CONTEXTUALISE** their analysis
- **ADAPT** (RAISE/ RESIST/ CEDE) in the constructible areas by handling :
 - People's security
 - Reducing the damaging
 - Insuring the back to normal situation as quick as possible



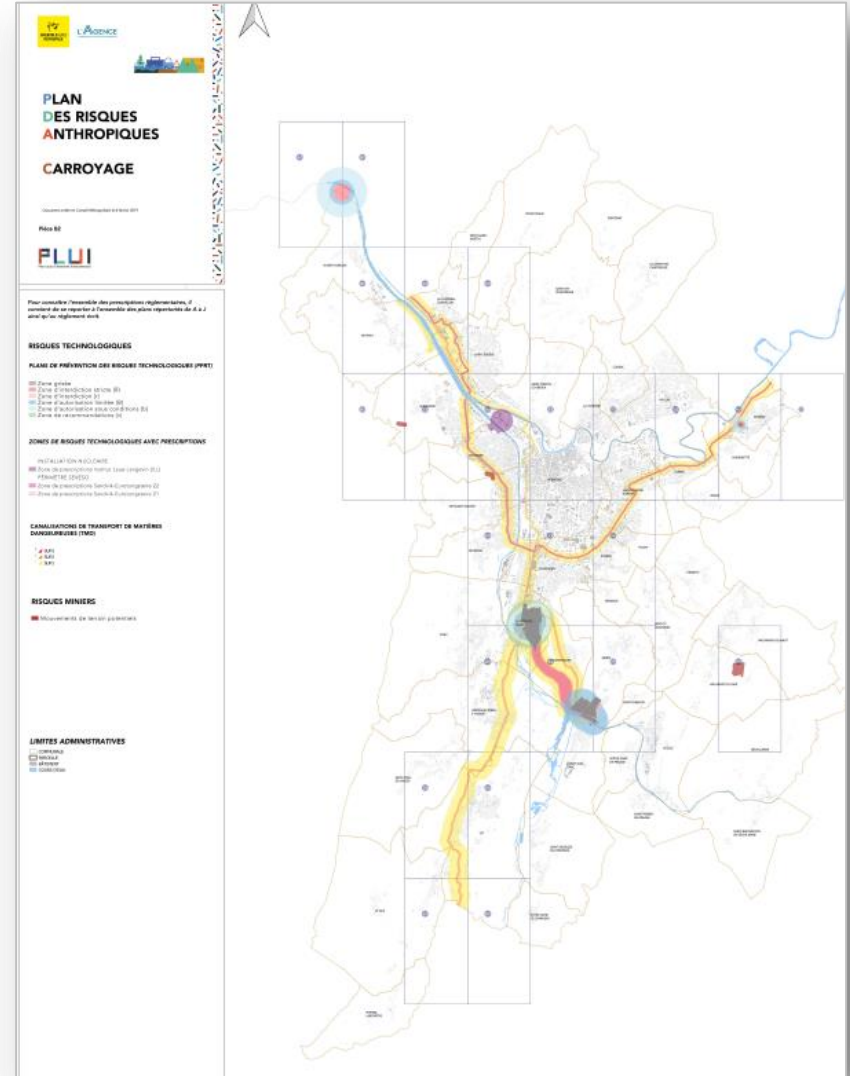
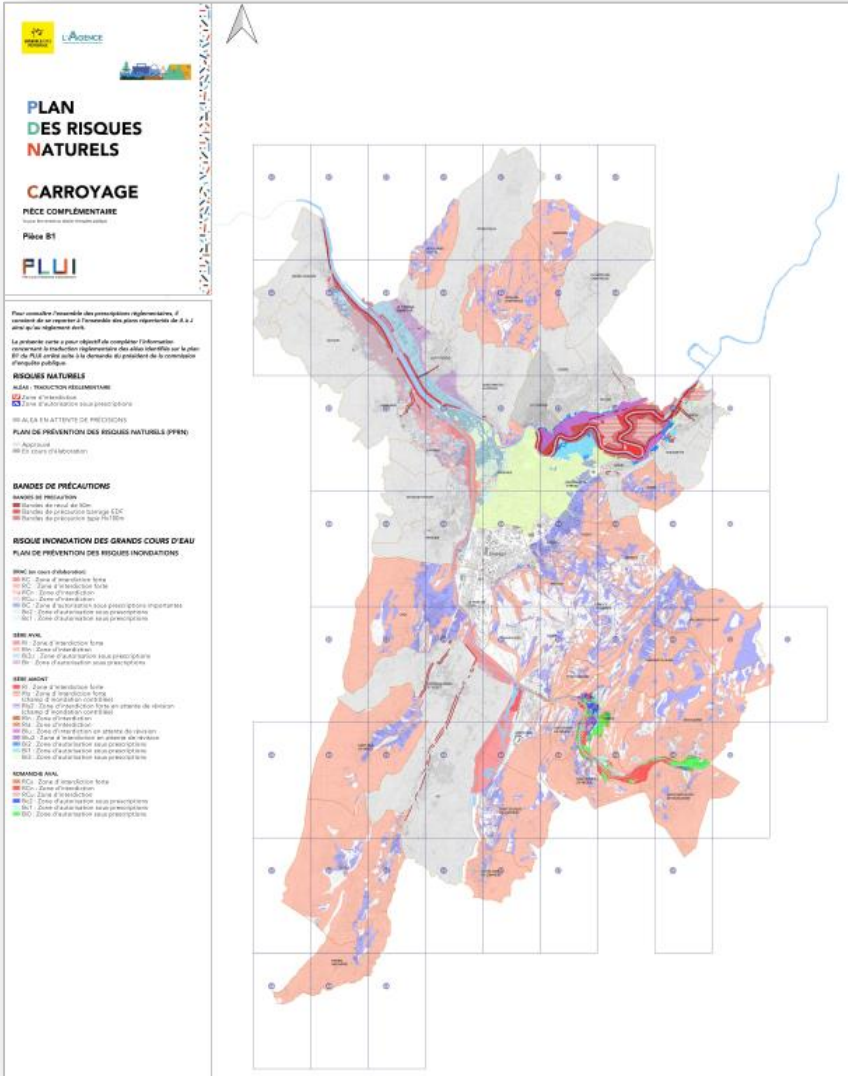
Flood of the Isère river, Grenoble



Confluence of Drac and Isère river, Grenoble

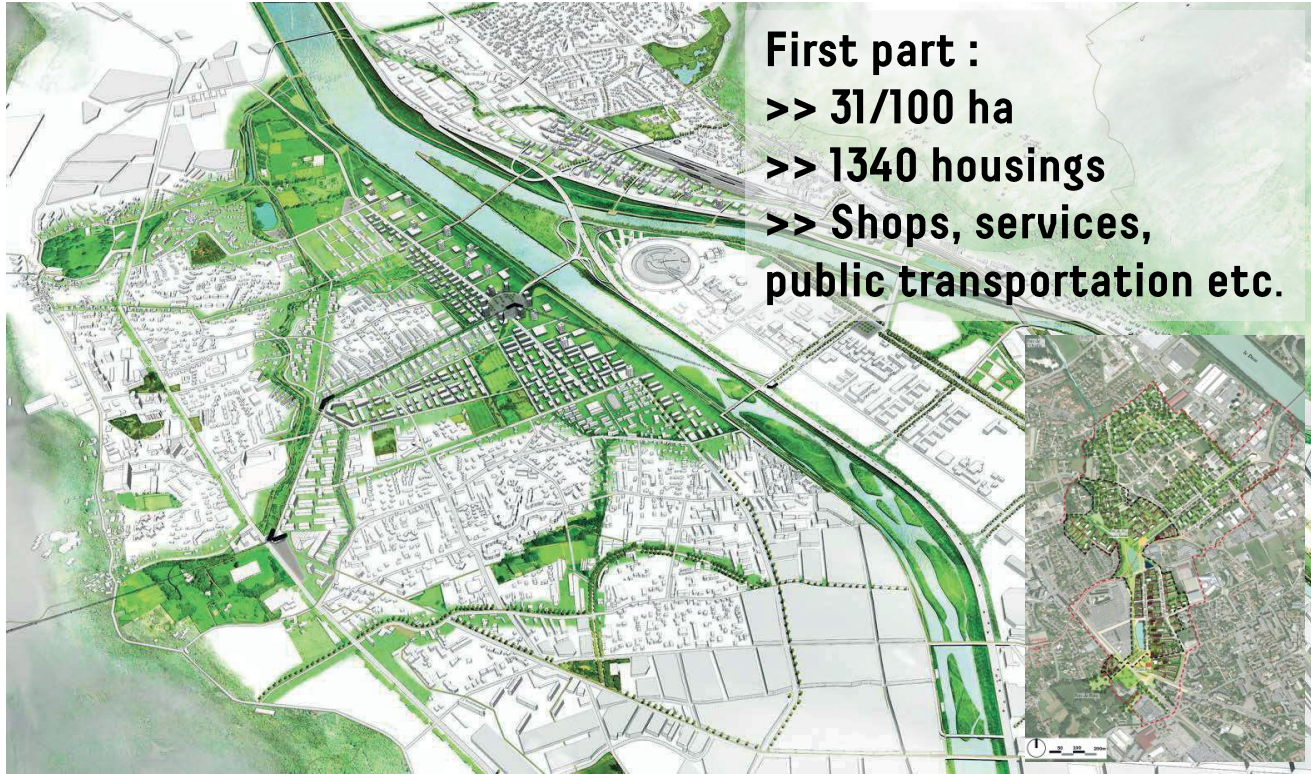
THE GRAPHIC RULES

Natural and anthropical risks cartography



EXAMPLE OF PROJECTS

Portes du Vercors – Resilient urban restructuring



First part :
 >> 31/100 ha
 >> 1340 housings
 >> Shops, services,
 public transportation etc.

