

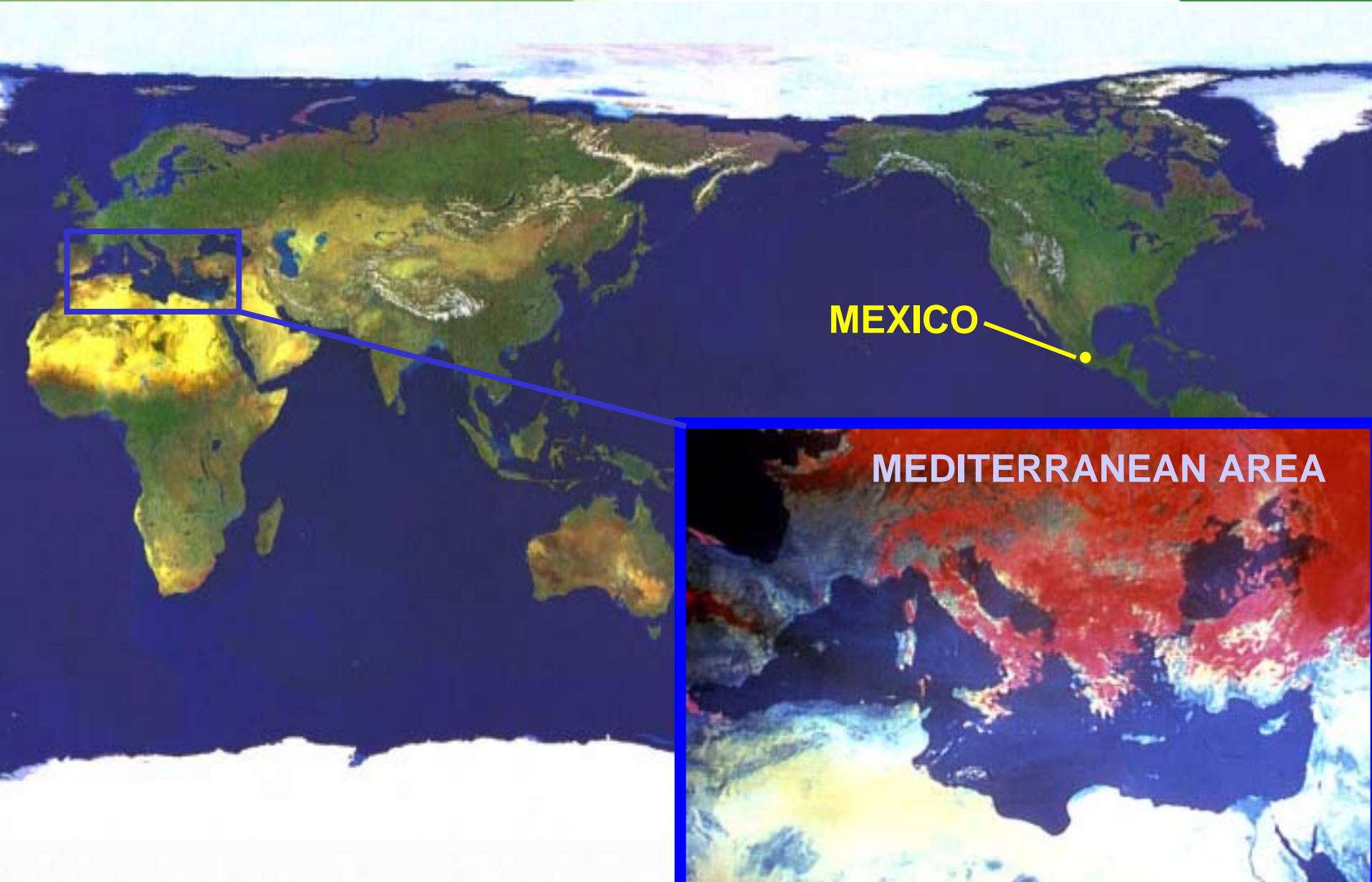
PILOT ACTIONS OF RISK MANAGEMENT
FROM FLOODING



Pole Environnement,
Eau, Cadre de Vie
et Aménagement Rural



Département de l'Hérault



Département de l'Hérault

ARC LATIN



**FRENCH
DEPARTEMENTS**

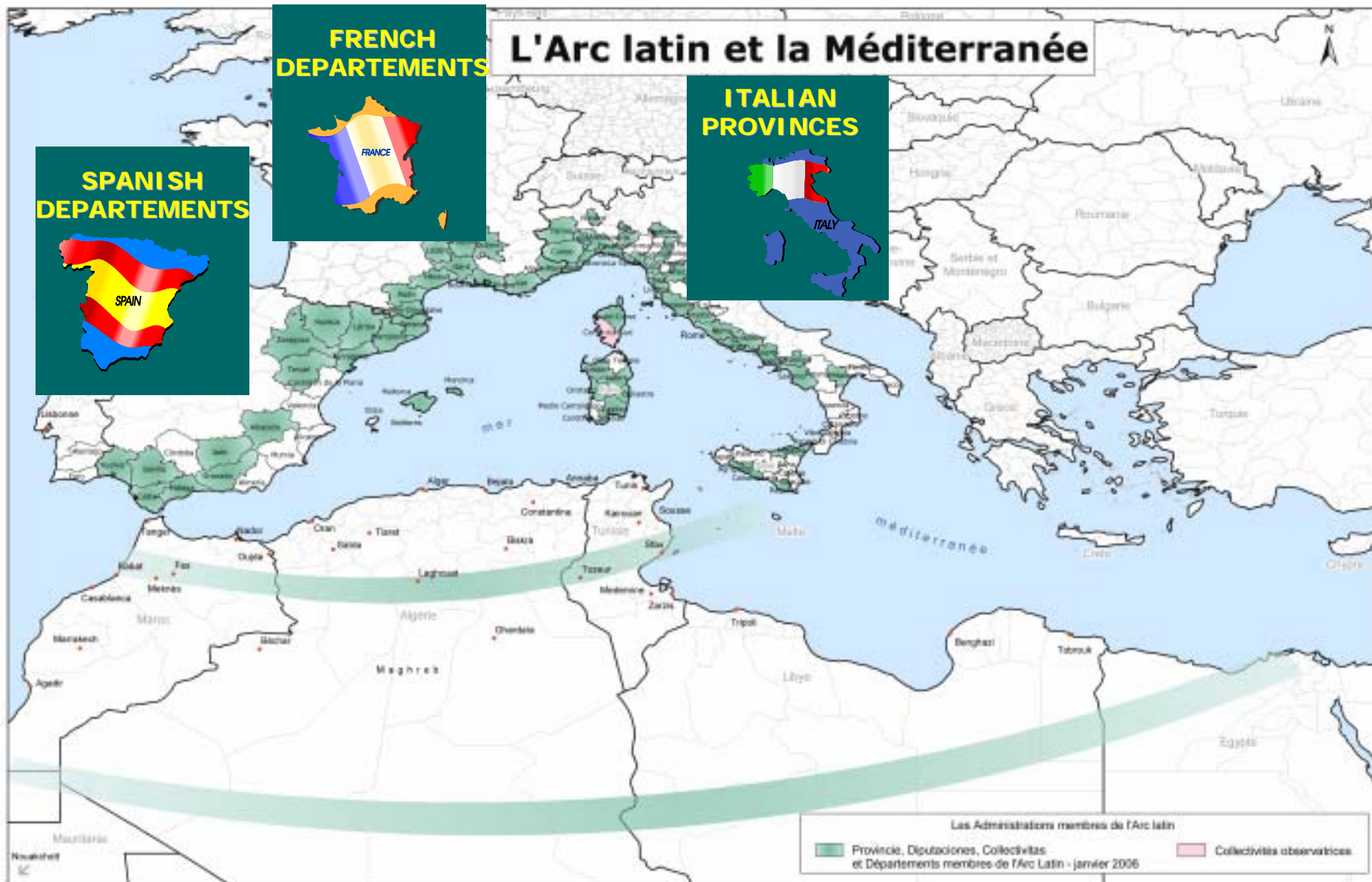


**SPANISH
DEPARTEMENTS**



L'Arc latin et la Méditerranée

**ITALIAN
PROVINCES**



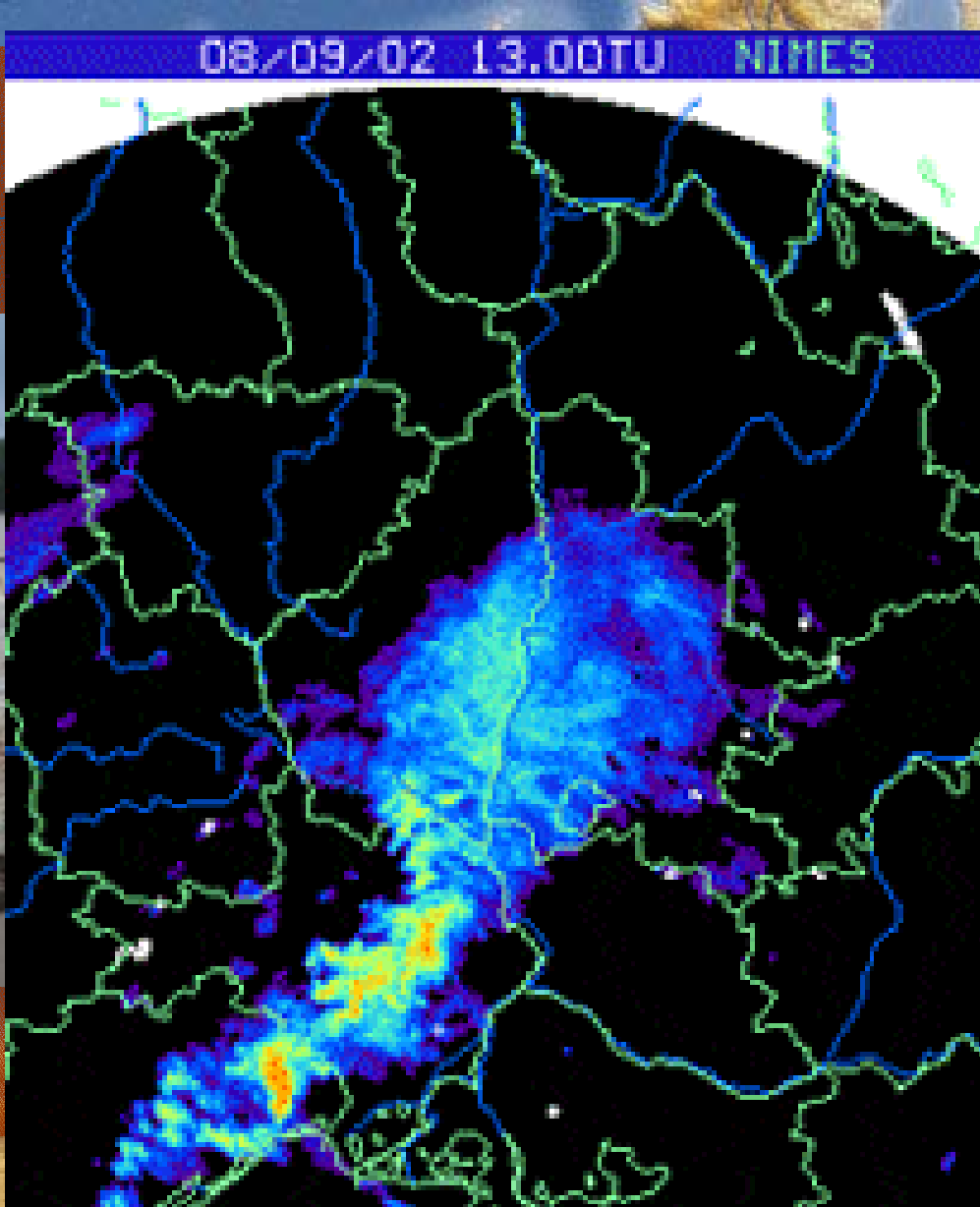
Partners have interests in common that allows:

1. To use one's influence with European Institutions by exposing Mediterranean specificities
2. To facilitate knowledge transfers between its members
3. To share co-operation projects with South Mediterranean bank countries

INTERREG IIIC INUNDA
is linked to the second mission



08/09/02 13.00TU NINES



Most affected Europe
in ten years

In 2004, Europe suffered
major flooding causing:

➤ **700 Fatalities**

➤ **The displacement
of 0,5 million people**

➤ **At least 25 billion €
in insured economic
losses**

Major devastating floods
in the Mediterranean area

- To provide panel of actions and criteria of intervention to minimize fatalities and flood damages
- To reduce risk from flooding to an acceptable level
- To minimize flood impact on infrastructures and fatalities
- To avoid building in flood-prone areas
- To reduce flood damages to those which are inevitable
- To improve risk assessment



➤ *Beginning of the program: July 2004*

➤ *End of the program: October 2006*

Province of the
Flemish Brabant

Wallone Region

Department of
Herault

Province of Alessandria

University
of Aveiro

Region of
Valencia

Region of Sardinia

Region of Murcia



➤ ***Leader of the project:***



PATRICOVA

**Similar to French Method of
Risk Management**

➤ ***Objectives:***

**Reduce as much as possible
potential damages from floods**

- ✓ Analyse the mechanisms of floods and assess the risk
- ✓ Determine shared levels of protection and objectives of risk management
- ✓ Propose justified measures (costs compared to benefits)
- ✓ Gives priority to areas seriously concerned
- ✓ Assess the environmental impact of the measures proposed

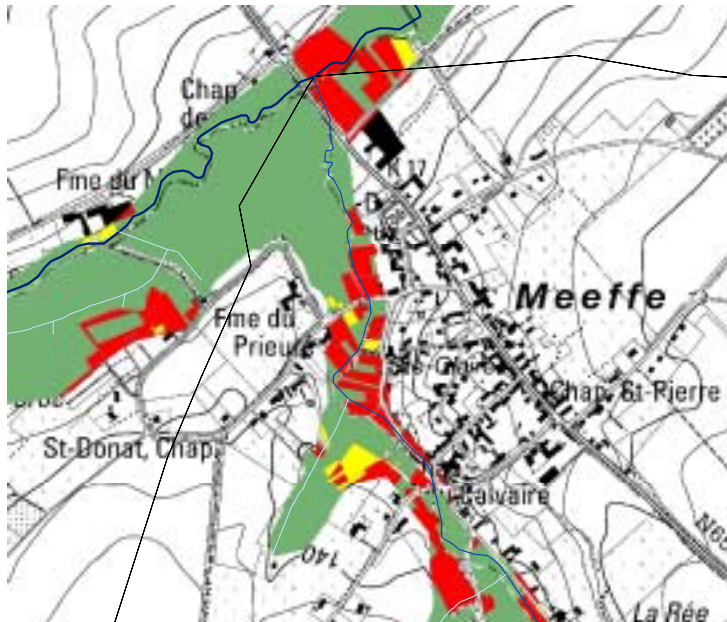
➤ **Step 1:**

Exchange knowledge and experience of each partners and collect the results of previous European projects; adapt the method adopted to conduct the local projects

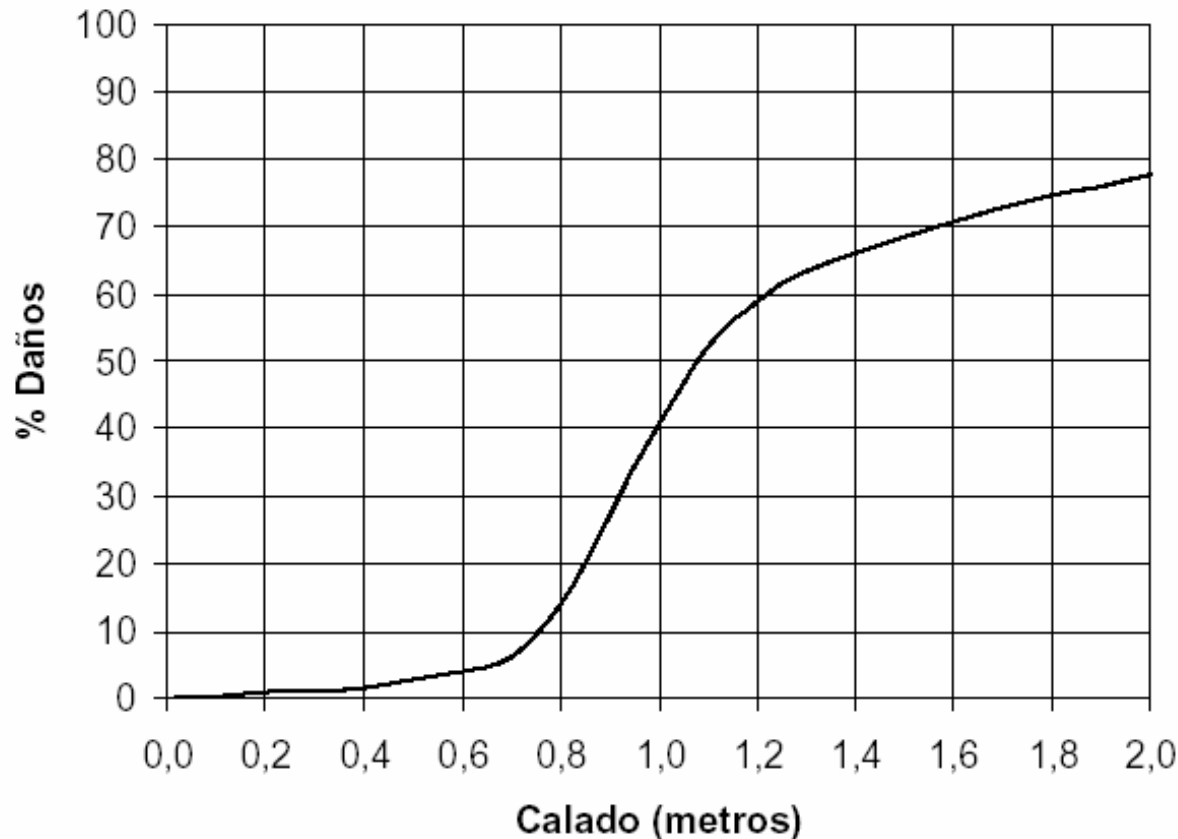
➤ **Step 2:**

Each partner has to assess the risk from flooding on a selected area (local project)

a) Elaborate multi-purpose maps: soil use, past flood extension, geomorphologic specificities, map of flood risks, ...



b) Assess the cost of potential damage from flooding: calculate an annual medium cost and map the economical impacts of floods



Example: curve of damage (PATRICOVA)

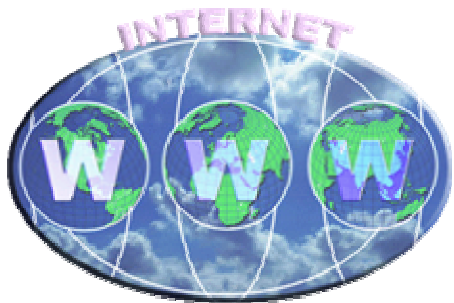
➤ Step 3:

Propose risk management measures and give priority to the most efficient of them

🚧 Prevention:

✓ Improvement of knowledge

✓ Increasing public awareness of flood risks : information and communication campaigns



✓ Soil use rules

✚ Prepare for a flood: flood forecasting, emergency plans including evacuation, recovery

✚ Works

- ✓ Reducing flows and discharge systems (dams, ...)
- ✓ Defense structures to protect urban areas
- ✓ Mitigation (housing, roads, enterprises, ...)



Aramon –
Embankment



✚ Elaboration of a

- ✓ Panel of measures
- ✓ Best practices book
- ✓ Soil use rules proposition



➤ **Step 4:**

Results communication



📄 **Web site :**

<http://inonda.info/dnn/>



📄 **CD-Rom**



📄 **Séminars**

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