THE NATIONAL ACTION PLAN FOR THE PYRENEAN DESMAN
(*Galemys pyrenaicus*): ecology, distribution and conservation issues.
Methodological approach

The recommendations for management are difficult to implement due to the very poor knowledge about the biology, ecology and distribution of Pyrenean Desman

PNAD:
- 25 actions dispached in 3 parts
  - Knowledge: 12 actions
  - Conservation: 3 actions
  - Communication: 10 actions

** ACTIONS 1-3:** the genetic characteristics of the species
** ACTION 4:** to characterize the preferred habitats of the species
** ACTION 7:** distribution map of the Pyrenean Desman
** ACTIONS 8-9-10:** to study the impact of human activities including hydro-electric power plants

What protocols should be considered to ensure reliable and robust results (procedures, frequency over time, representative sample size, etc) in response to the conservation issues?

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**I. SAMPLING DESIGN**

1. Historical transects (*Bertrand, 1994*) = 641 transects

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**II. METHODOLOGICAL APPROACH**

**I. TRANSECT**

- Upstream
- Downstream

**II. PROTOCOL**

- 8 HABITAT PARAMETERS measured
  - GENETICS
    - Non-invasive method: faeces

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2000 transects in the French Pyrenees (2011-2013), 20 field workers for Desman survey, 2 theses... a true dialogue between researchers, managers and naturalists

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