

# An assessment of the societal impacts of French soil databases

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# An assessment of the societal impacts of French soil databases

M. Bardy, A. Gaunand, N. Saby, D. Arrouays, L. Colinet, N. Munier-Jolain

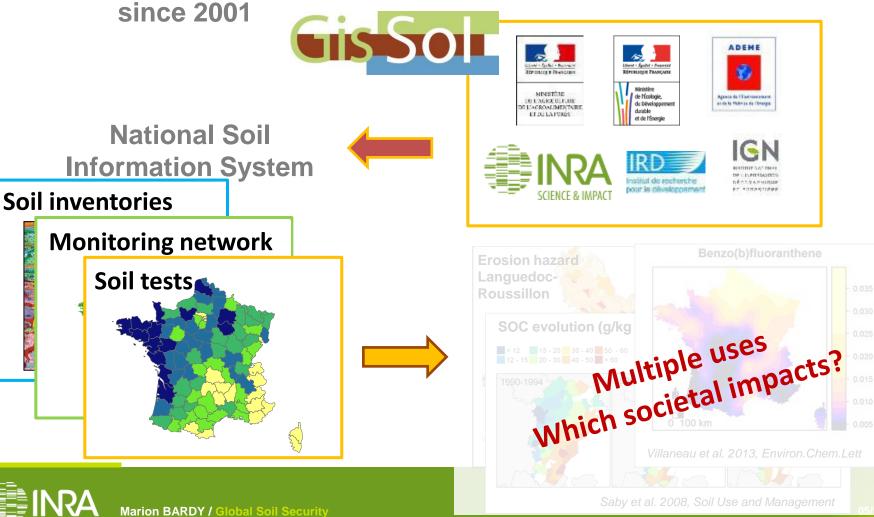


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# French soil data

Collection coordinated by the French Soil Interest Group



# The Asirpa method (1/2)

Research Evaluation Advance Access published July 25, 2015

Research Evaluation (2015) pp. 1-14

doi:10.1093/reseval/rvv015

# ASIRPA: A comprehensive theory-based approach to assessing the societal impacts of a research organization

Pierre-Benoît Joly<sup>1,\*</sup>, Ariane Gaunand<sup>2,3</sup>, Laurence Colinet<sup>4</sup>, Philippe Larédo<sup>5</sup>, Stéphane Lemarié<sup>2,3</sup>, Mireille Matt<sup>2,3</sup>

- Based on case studies
- Standardized description
- Scaling-up to the organization level

ASIRPA = Socio-economic analysis of the diversity of Impacts of Public Research for Agriculture



# The Asirpa method (2/2)

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actors

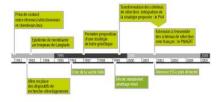
2. Impact pathway

External context

From research to impact

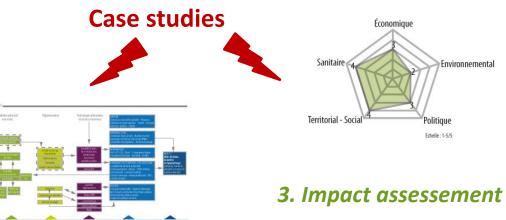
Contributions of various

# Three main deliverables



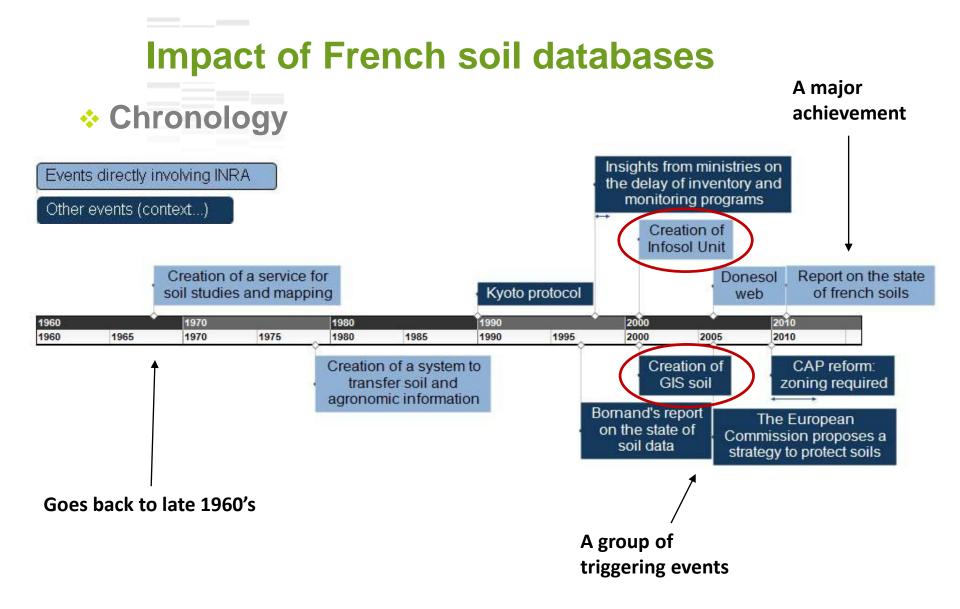
#### 1. Chronology

- Long term investments
- Capacity building
- Key events



- Various dimensions of impact:
  - ✓ Economy
  - ✓ Public health
  - ✓ Environmental
  - ✓ Territorial social
  - ✓ Public policies







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# Selected case studies

## Identification of potential impacts:

- Direct relationship with end-user
- Direct relationship with intermediary organisations (provision of data + regular surveys)
- « By chance »: spontaneous feedback
- Description of confirmed impacts:
  - Series of interviews... sometimes many intermediaries before reaching THE end-user
  - Impact confirmed (and described)... or not



# Selected case studies

#### **Public policies**

- Zoning habitats to implement biodiversity conservation measures
- Revision of the delineation of less favoured areas

#### **Territorial impact**

Set-up of the bypassing of built-up areas around Lyon for high-speed rail

#### Environment

Calculation of the recharge of the Beauce groundwater table as an element of negotiation for the allocation of irrigation quotas

#### Economy

French Fertilizer Industries Union: market research based on national analysis of soil liming requirements

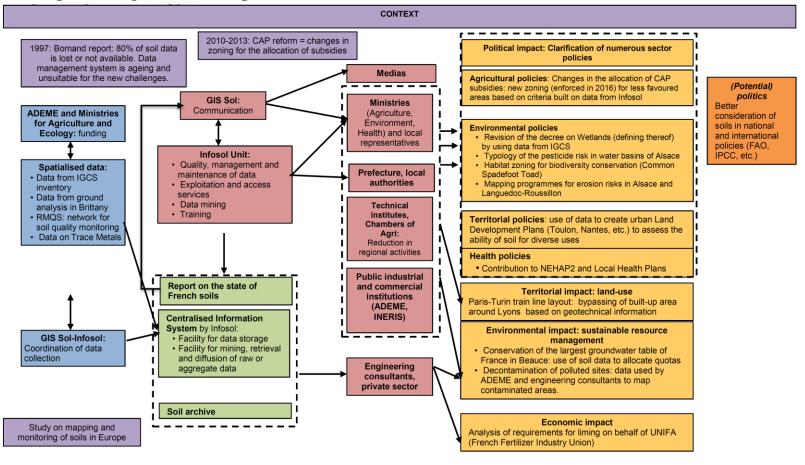
#### Health

Implementation of environmental inequality characterisation tools, with risk prevention plans including exposure to soil trace elements



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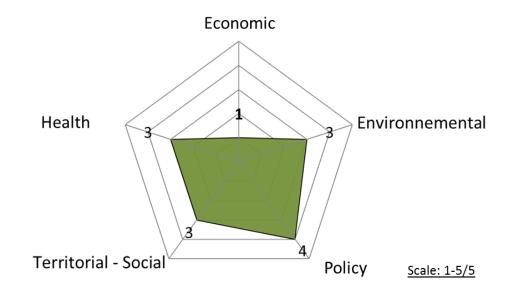
# Impact pathway



INPUTS	OUTPUTS	INTERMEDIAIRES	IMPACTS 1	IMPACTS 2	
Λ					

SCIENCE & IMPACT

## Impact assessment



- Balanced impacts on the various dimensions
- Economic impact acknowledged but difficult to quantify



# **Conclusions and perspectives**

# Ist assessment of societal impacts of French soil databases

# More than the impacts themselves:

- Better knowledge of data end-users
- Enhanced recognition of the usefulness of French soil databases
- Basis for setting up a new communication strategy regarding soil databases: very successful national conference with testimonies of end-users

# Perspectives :

- Add new impact descriptions
- Gather testimonies of end-users in a booklet or a documentary





# Thanks for your attention!

For any question regarding :
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✓ The Asirpa methodology: ariane.gaunand@inra.fr

