

Centennial
of the IUSS



Florence - Italy
May 19 - 21, 2024

www.centennialius2024.org

Favre Boivin Fabienne

LASOL: A living lab to help integrate soil protection into spatial planning and construction

0.7 m² of soil disappear every second in Switzerland



1980



1992



2004



2013

Source web: *office fédéral de la statistique, 11.05. 24*

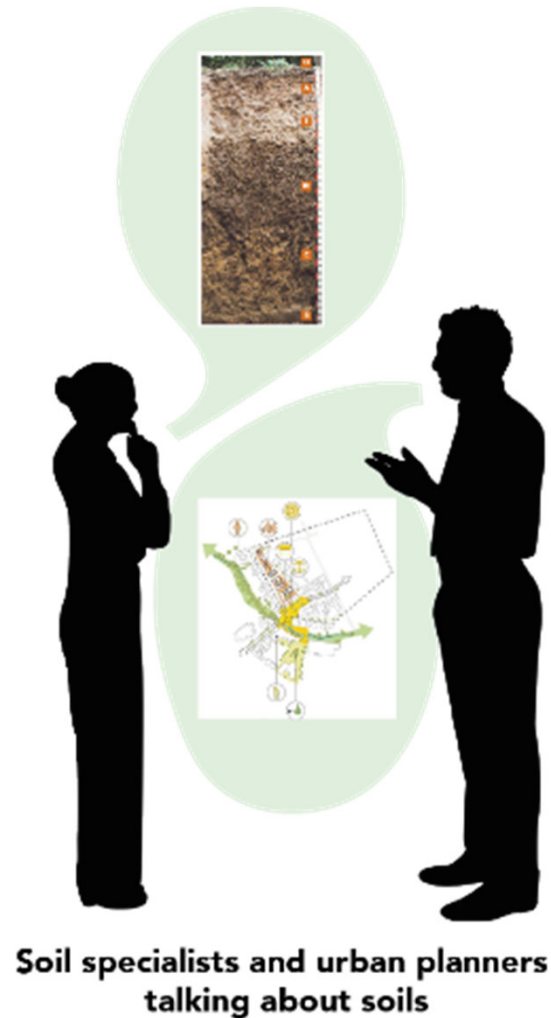
Swiss soil strategy

- Signed by the Federal Council
- How to manage Swiss soil to achieve law requirements
- 6 objectives, including:
 1. Reducing soil consumption
 2. Taking account of soil functions in spatial planning
 5. Raising awareness of the value and vulnerability of soil



First steps for integration of soils into spatial planning

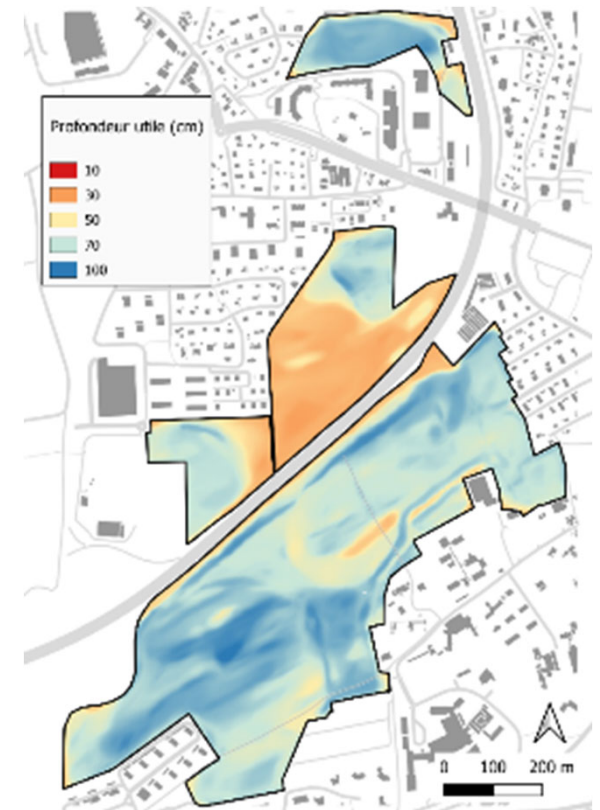
Difficulty to understand each other's perspective and vocabulary



How to proceed ?

Workshop to define soil and its constraints

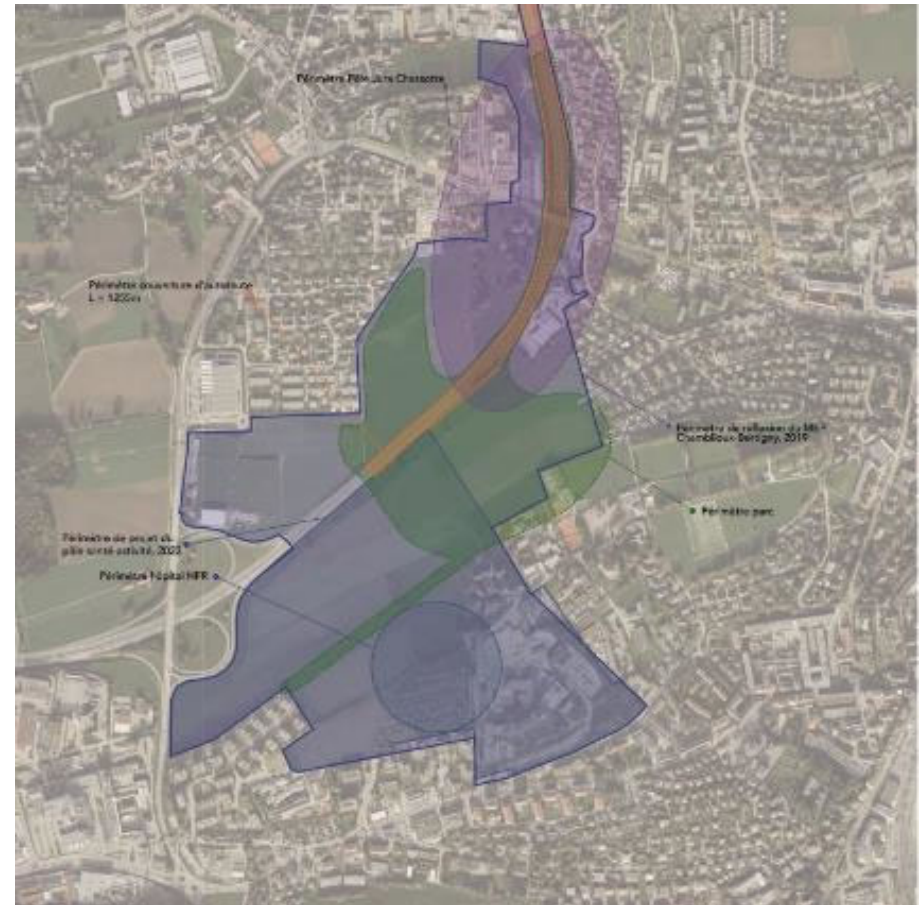
Workshop to present soil maps made by soil scientists



↳ How to translate these informations into land use planning constraints ?

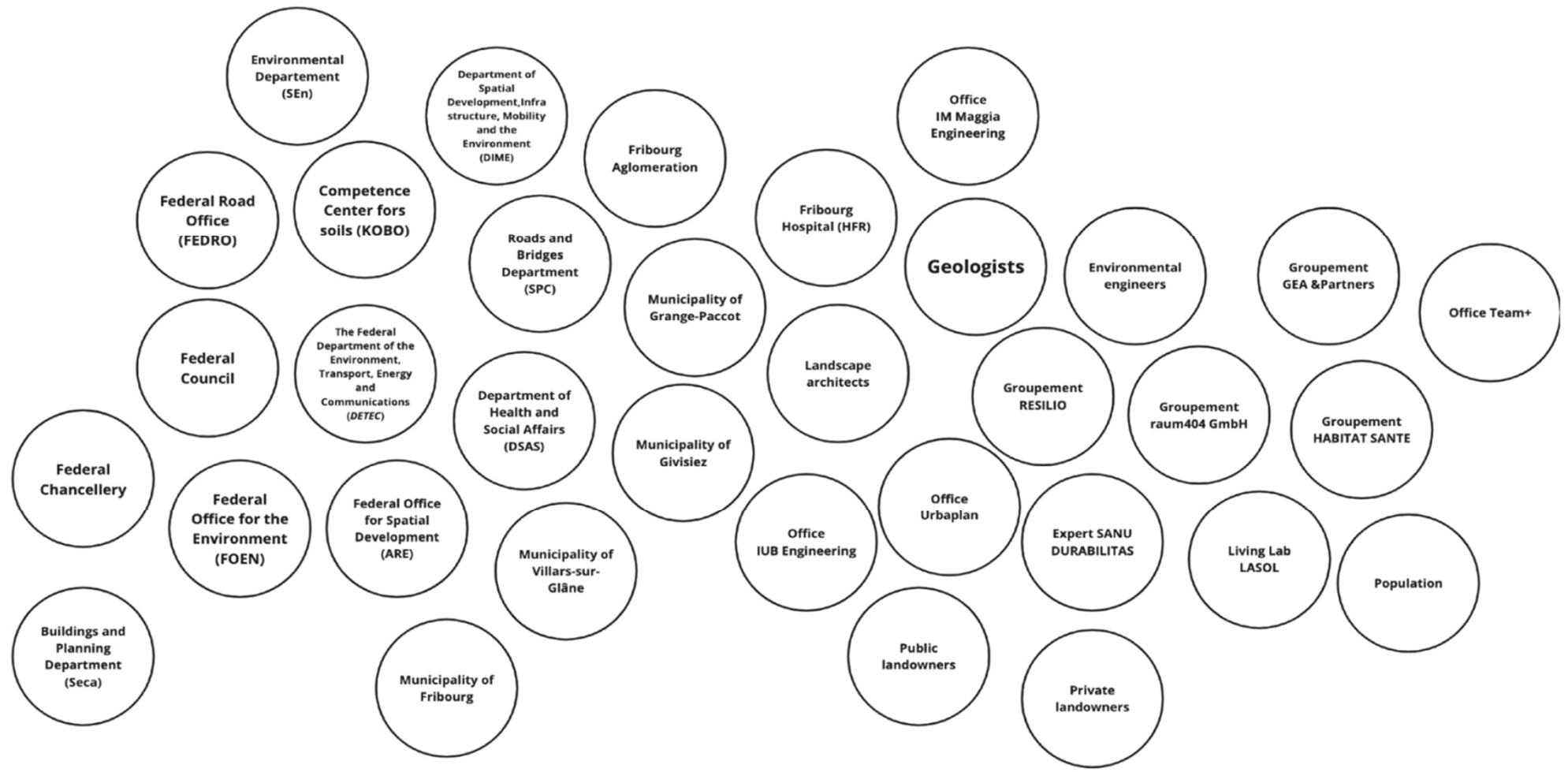
LASOL: A living lab to help integrate soil protection into spatial planning and construction

Opportunity:
71 ha of SDA, soils with the highest protection status.





Many stakeholders





Many stakeholders

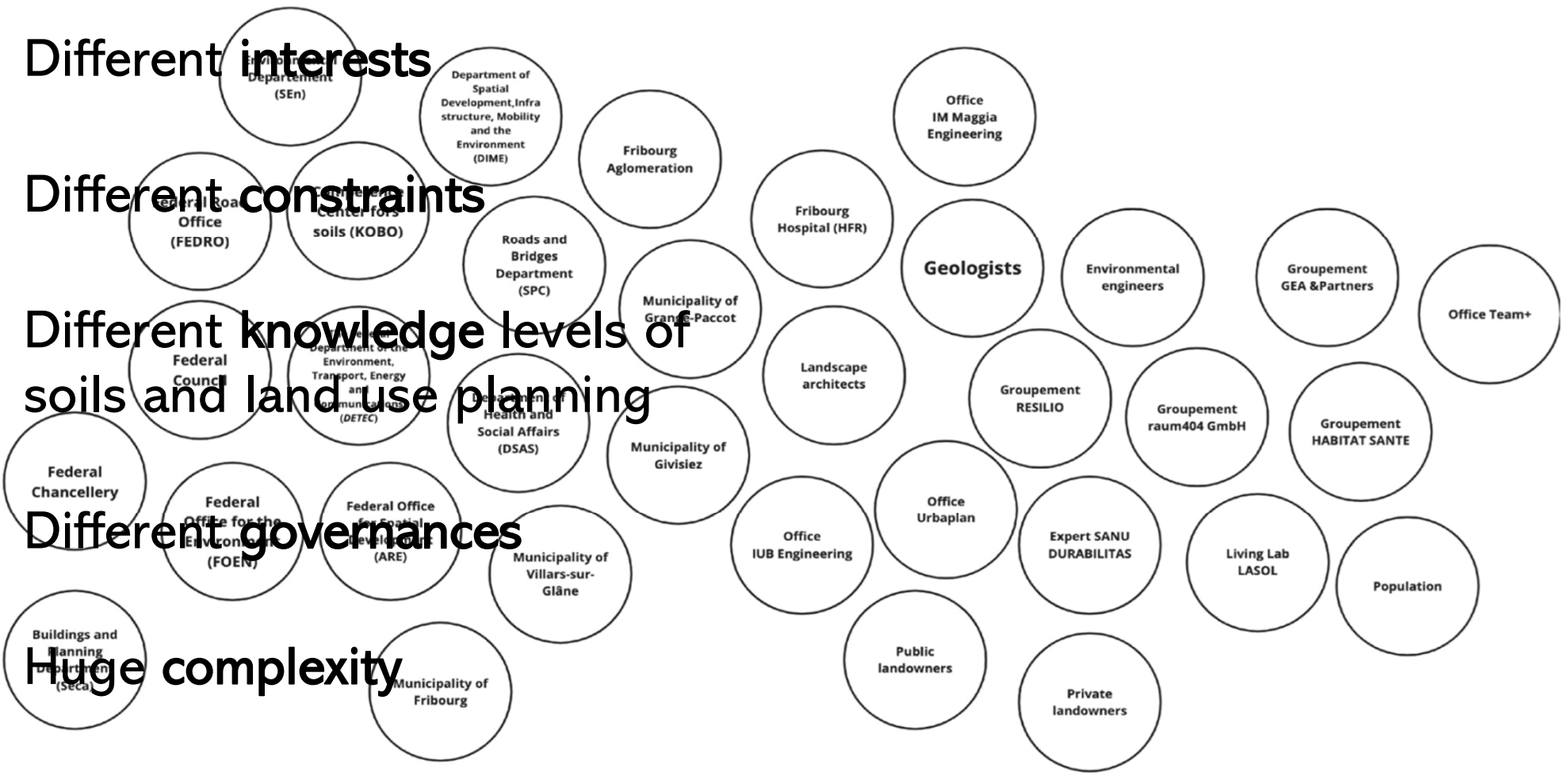
Different interests

Different constraints

Different knowledge levels of soils and land use planning

Different governances

Huge complexity





Source : AI generated

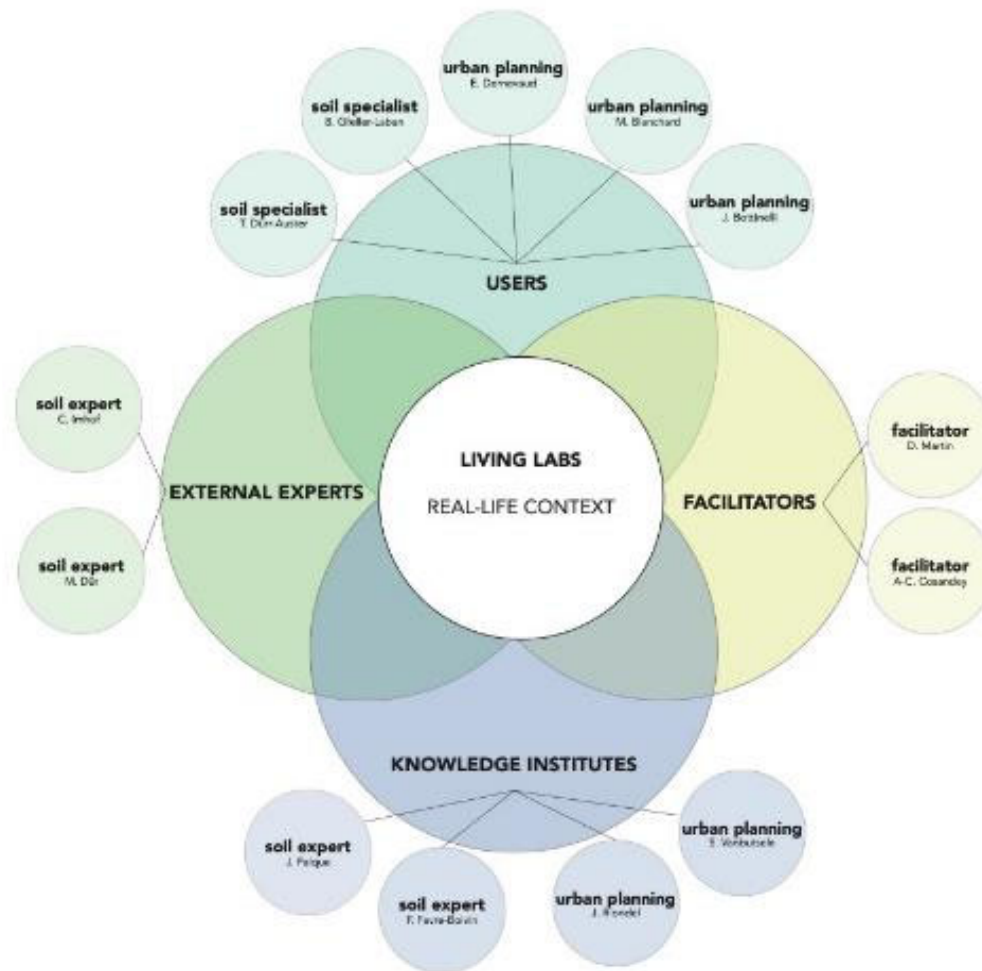
Objectives : Who has to do what, when and with what tools ?

A Living Lab is the right research tool to address such a complexity

Each stakeholder knows how to construct within its own constraints

The Living Lab allows to co-construct solutions and a common understanding

Living Lab members



Identified needs

Establishing the timelines of the 4 projects and key moments to apply the Swiss soil strategy

Building a common language

Identifying all stakeholders and their constraints and needs

An inventory of the tools already available

Creating new tools as required

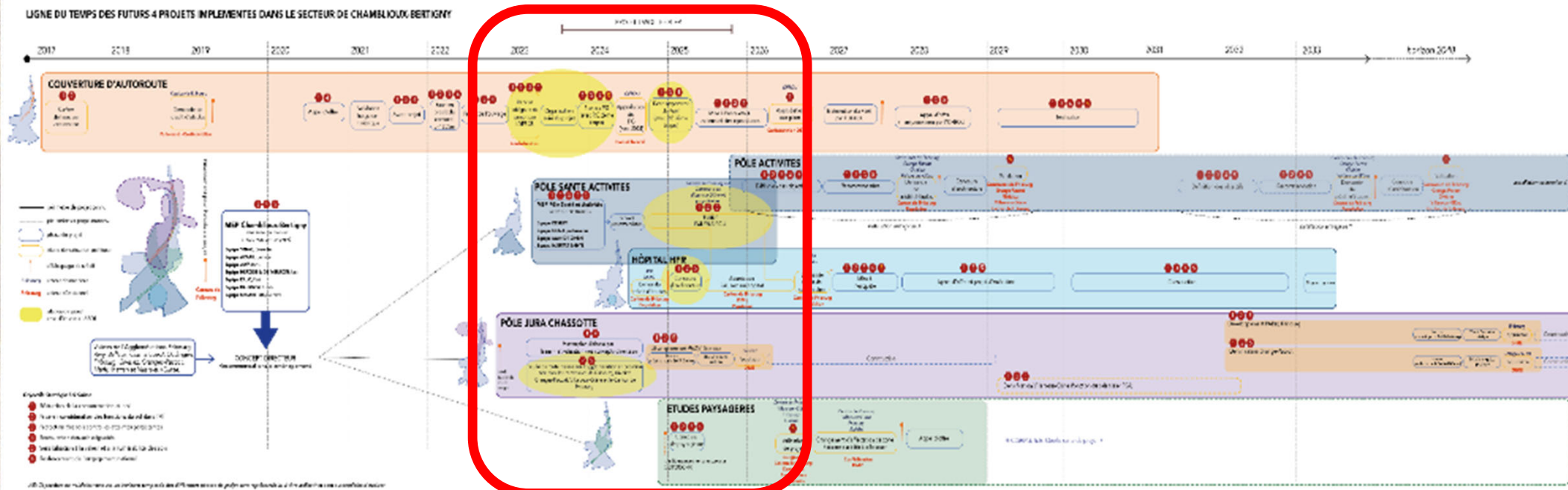
First workshop: establishing timelines



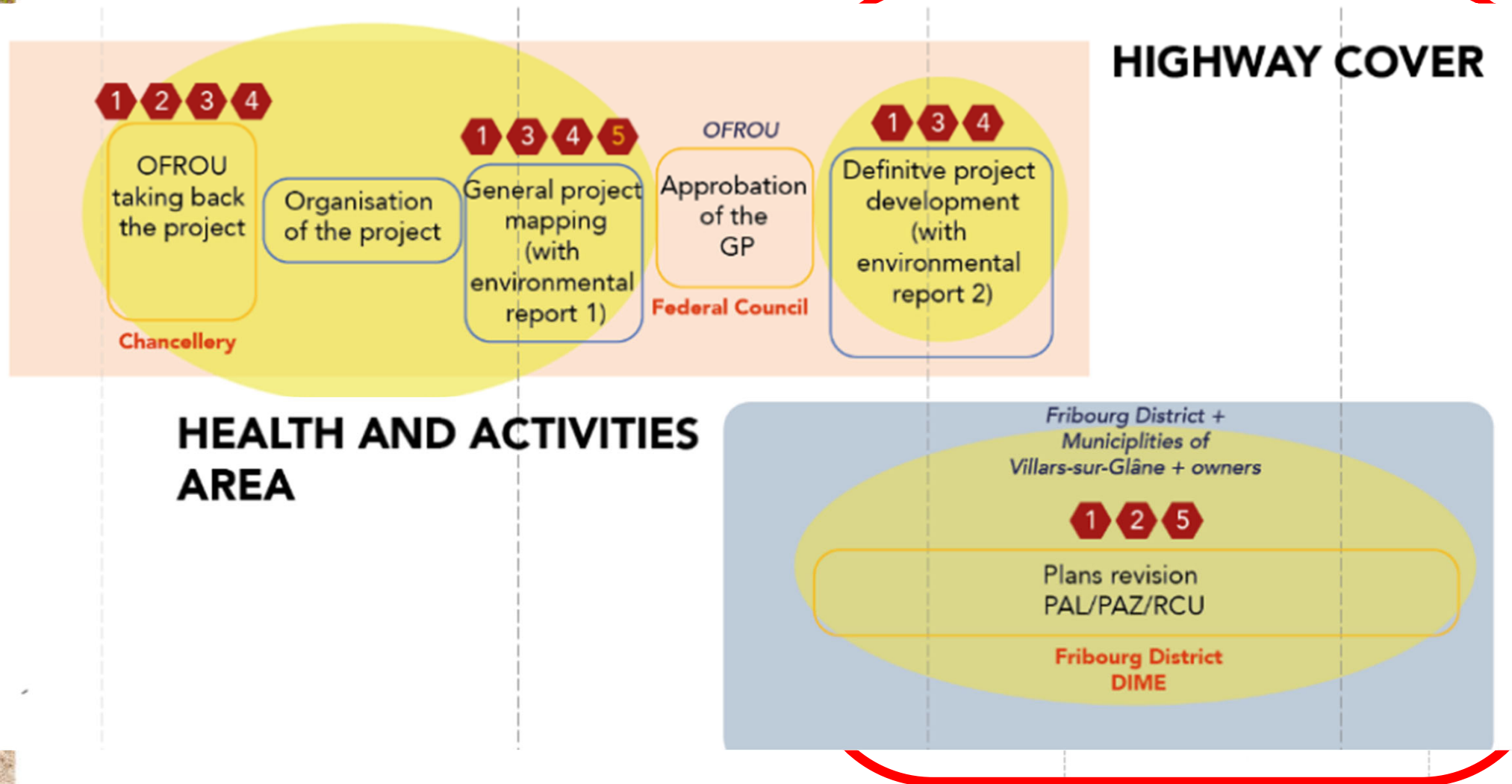
First workshop: establishing timelines



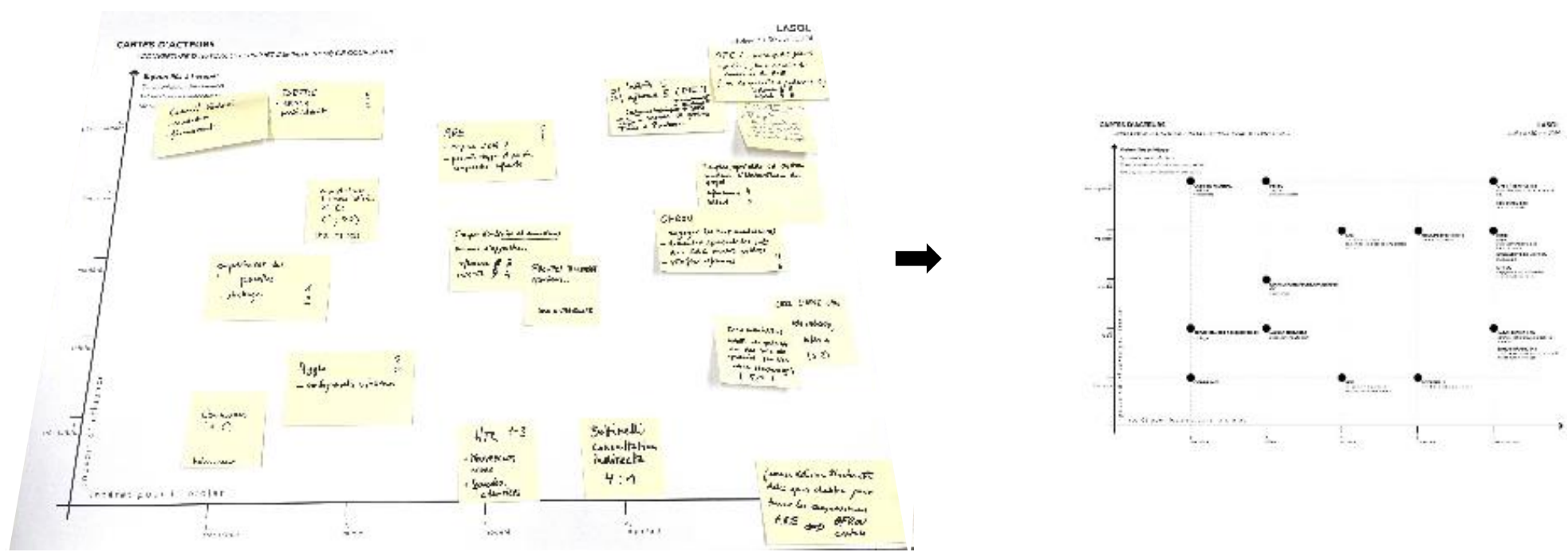
Results – General timeline



Results – General timeline



Results – Map of stakeholders



Results – Map of stakeholders

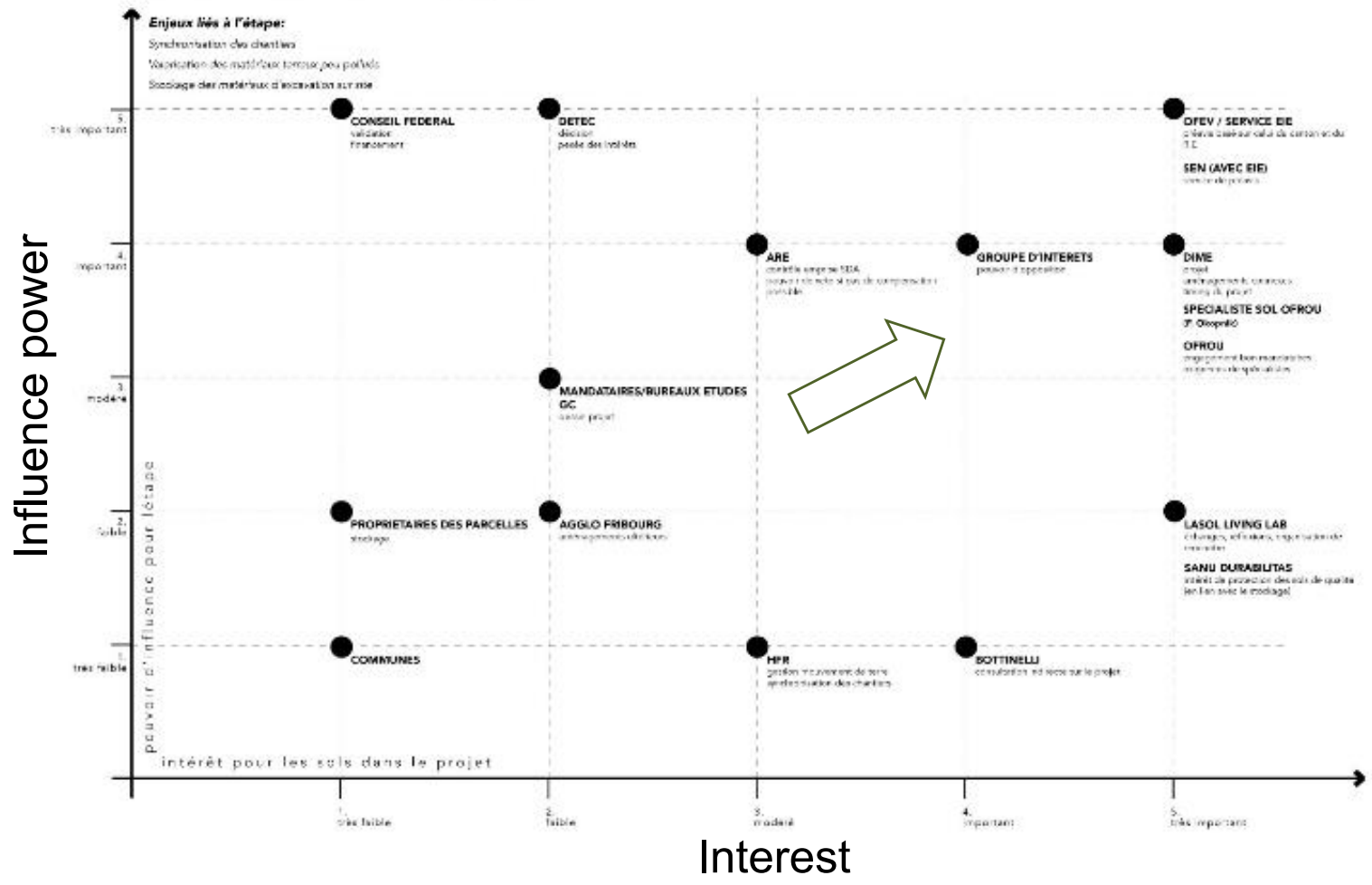


CARTES D'ACTEURS

«COUVERTURE D'AUTOROUTE: PROJET DEFINITIF (PDM) DE COUVERTURE»

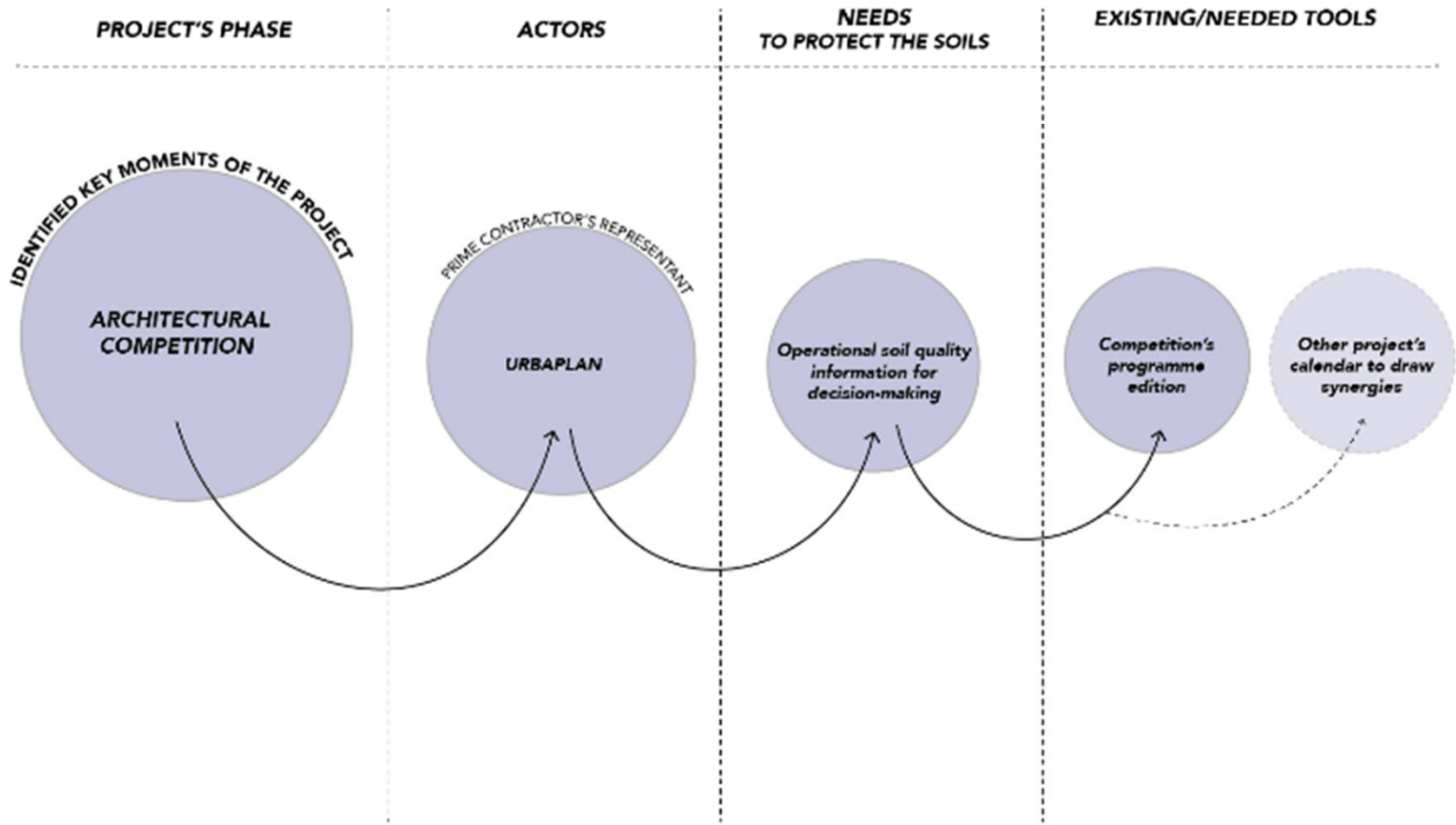
LASOL

atelier du 30 avri 2024



Tools – Identified needs

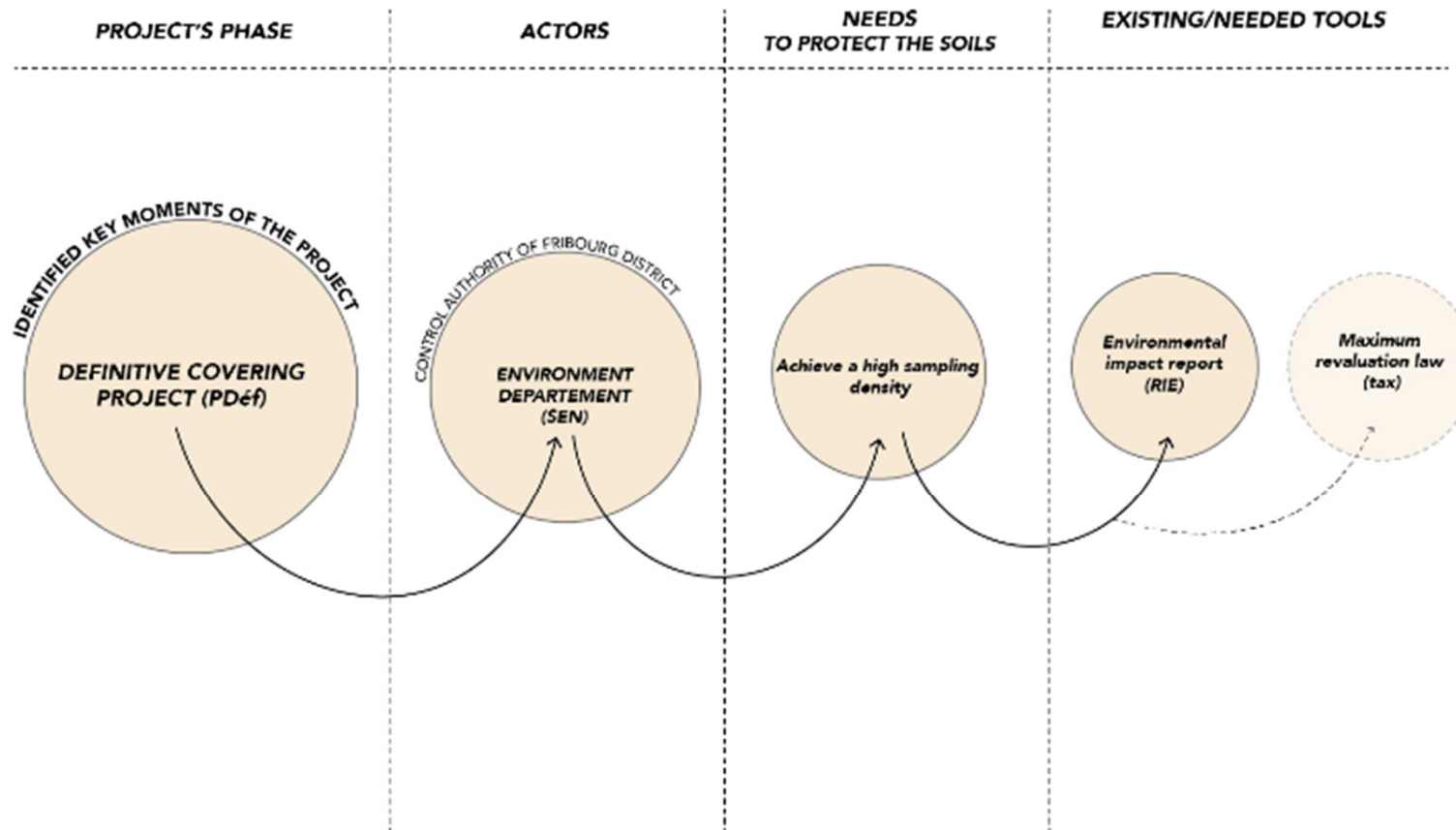
PROJECT: BUILDING A NEW HOSPITAL FOR THE FRIBOURG DISTRICT
Taking the soils' values into consideration: When ? Who ? What ? How ?



Tools – Identified needs

PROJECT: HIGHWAY COVER

Taking the soils' values into consideration: When ? Who ? What ? How ?





Conclusion

We need stakeholders to play together

we need stakeholders to find the virtuous path through diversity and complexity that makes this possible

Define everyone's room for manoeuvre and try to put them on the same timeline



Academic team

Anne-Claude Cosandey

David Martin

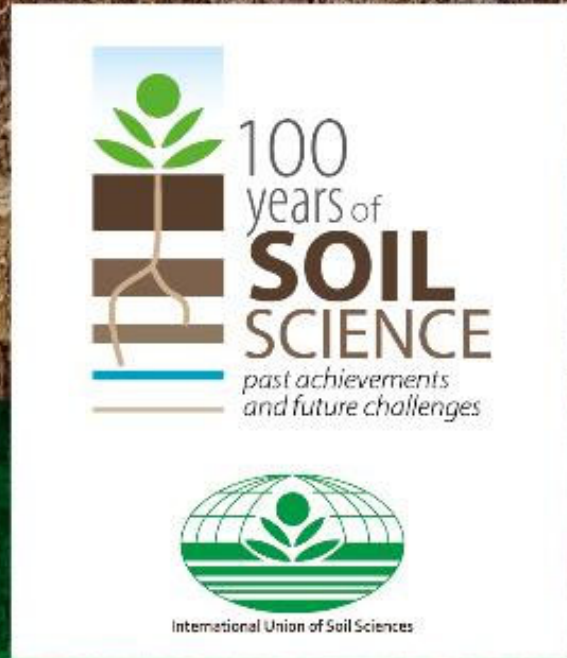
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THANK YOU FOR YOUR ATTENTION