

ITTECOP 2014 Seminar

Paired LTI

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Ressources, territoires, habitats et logement
Énergies et climat Développement durable
Prévention des risques Infrastructures, transports et mer

Présent
pour
l'avenir



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Ministère de l'Écologie, du Développement Durable, et de l'Énergie

www.developpement-durable.gouv.fr



Evaluating the effects of paired LTI on how the territory functions and is viewed.





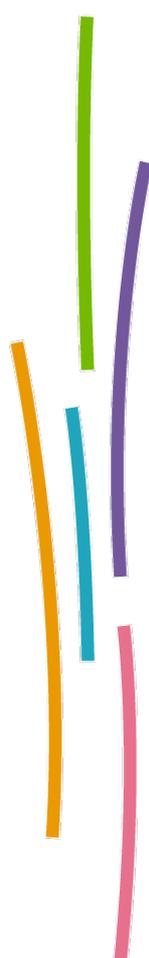
● Research question, objectives, organisation

● Landscape workgroup : presentation and first results

● Biodiversity workgroup : presentation and first results

● Societal analysis : presentation and first results

● Transversality workgroup : presentation and first results





Research question :

**Evaluating the effects of paired
LTI on how the territory
functions and is viewed.**

*Diachronic approaches, practical
examples and objectivization
methodologies*





The project aims to demonstrate that land-transport pairing is more than a mere juxtaposition, since it supposes a **wider advantage** :



LTI pairing should be considered as a situation when the negative impacts are lower than the impacts of two LTI separately and independently built

Or

The benefits for the region are multiplied





Objectives of the project:

1. Building the definition of LTI pairing



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2. Evaluating the effects of LTI pairing



Objectives of the project:

1. Building the definition of LTI pairing
 2. Evaluating the effects of LTI pairing
 3. Contributing to the elaboration of a tool which helps consultations, decisions and implemantations
- 

Project organisation : workgroups et study sites

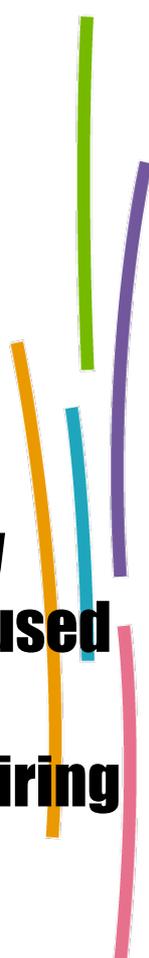


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4 workgroups :

- Landscape and land use
- Biodiversity
- Societal analysis
- Transversality



These three complementary approaches are used to evaluate the effects of LTI pairing

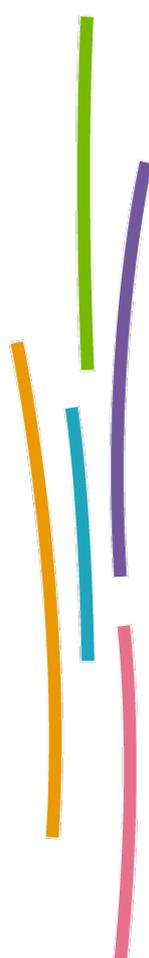
3 study sites



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Landscape and land use workgroup

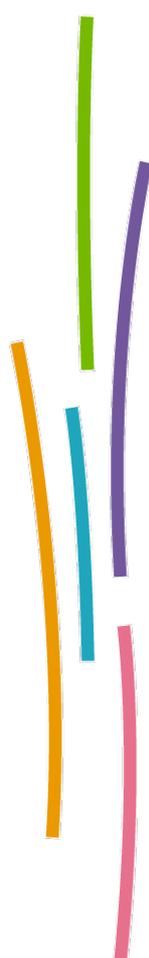


Main objectives :

- Completing very precise land use maps :
before the building of the first
infrastructure, after the building of the first
infrastructure, after the building of the
second infrastructure



Landscape and land use workgroup



Main objectives :

- Completing very precise land use maps :
before the building of the first
infrastructure, after the buiding of the first
infrastrucure, after the building of the
second infrastructure
- Statistical studies on demography and
agriculture evolutions



+ de
4 km

LGV
Sud-Est

A432

0 1 2 km

adg, av 2014

Zoom :

Statistical studies – some results

Comparison of the **demographic trends** between municipalities : villages and small towns close to the infrastructures / villages and small towns located more than 2 km apart

Is there some differences that we could identify and that would indicate an influence from the infrastructures ?

Site between Reims and Château-Thierry : A4 et LGV Est

The demographic trends are the same in the areas near the infrastructures, and in the areas far from the infrastructures.



Statistical studies – some results

● Evolutions of agriculture :

Site between Reims and Château-Thierry : A4 + High Speed Line (LGV) Est

Site « East of Lyon » (Les Echets – La Boisse) : A 432 + HSL Sud-Est

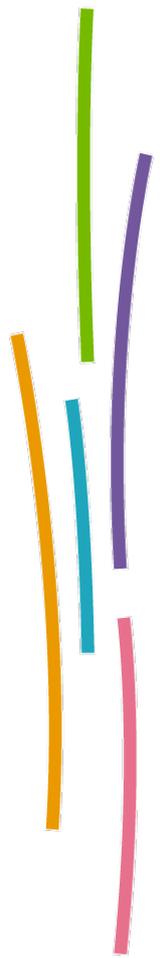
On the two analysed sites, **no particular trends have been identified at the cantonal level**



Biodiversity workgroup

Main objectives :

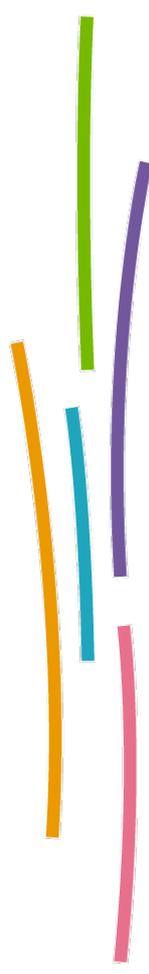
- Biodiversity on 'isolates'
('isolates' = areas between paired-LTI)





Biodiversity workgroup

Main objectives :

- Biodiversity on 'isolates'
('isolates' = areas between paired-LTI)
 - Impacts of LTI pairing on landscape composition, landscape structure and natural habitat fragmentation
- 

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- Biodiversity on 'isolates'
('isolates' = areas between paired-LTI)

- Impacts of LTI pairing on landscape composition, landscape structure and natural habitat fragmentation

2014

Biodiversity on 'isolates':

Main land cover in 'Isolates'
= Herbaceous **Fallow** Land



Biodiversity on 'isolates':

Taxonomic groups :

PLANT

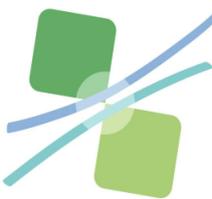


BUTTERFLY



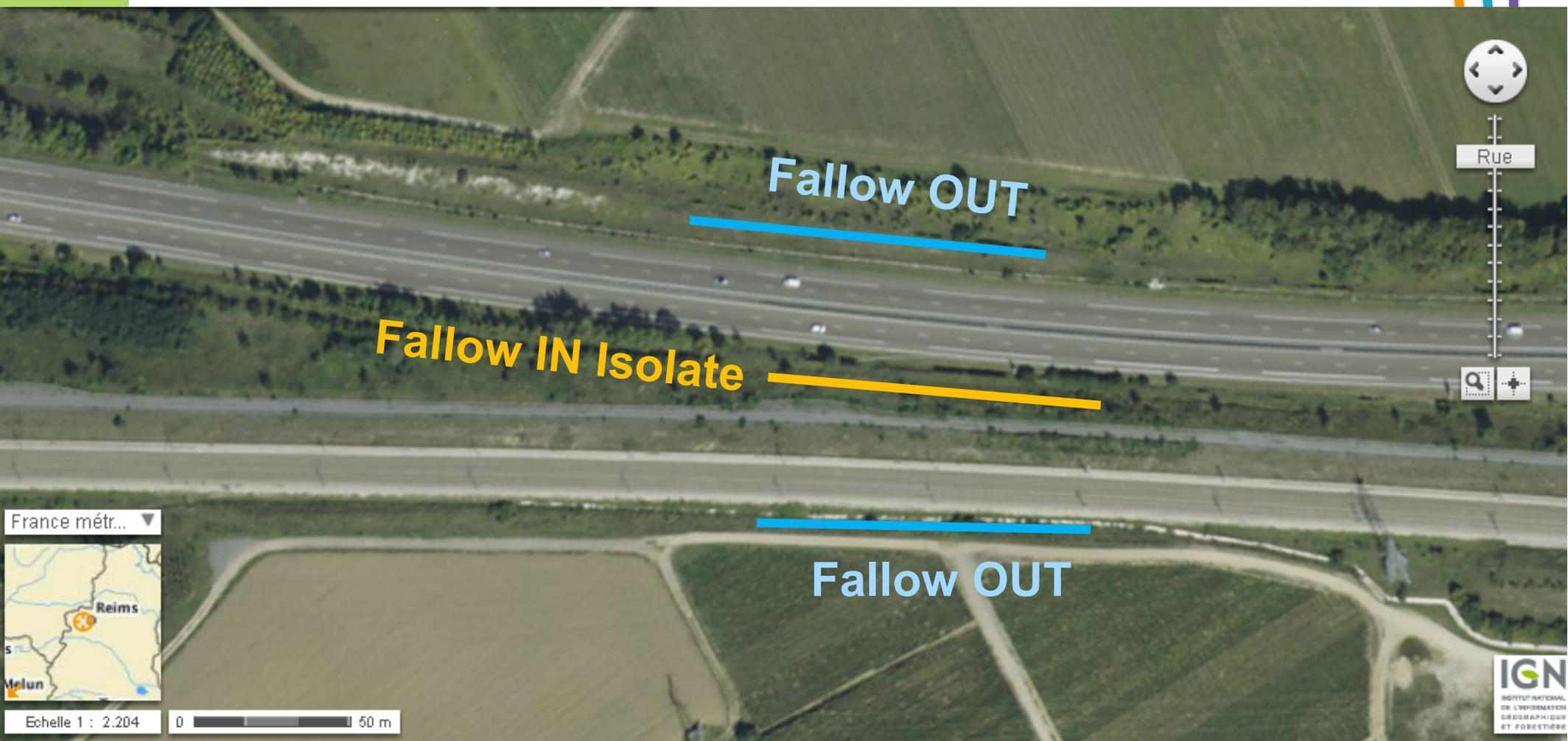
REPTILE





Biodiversity on 'isolates':

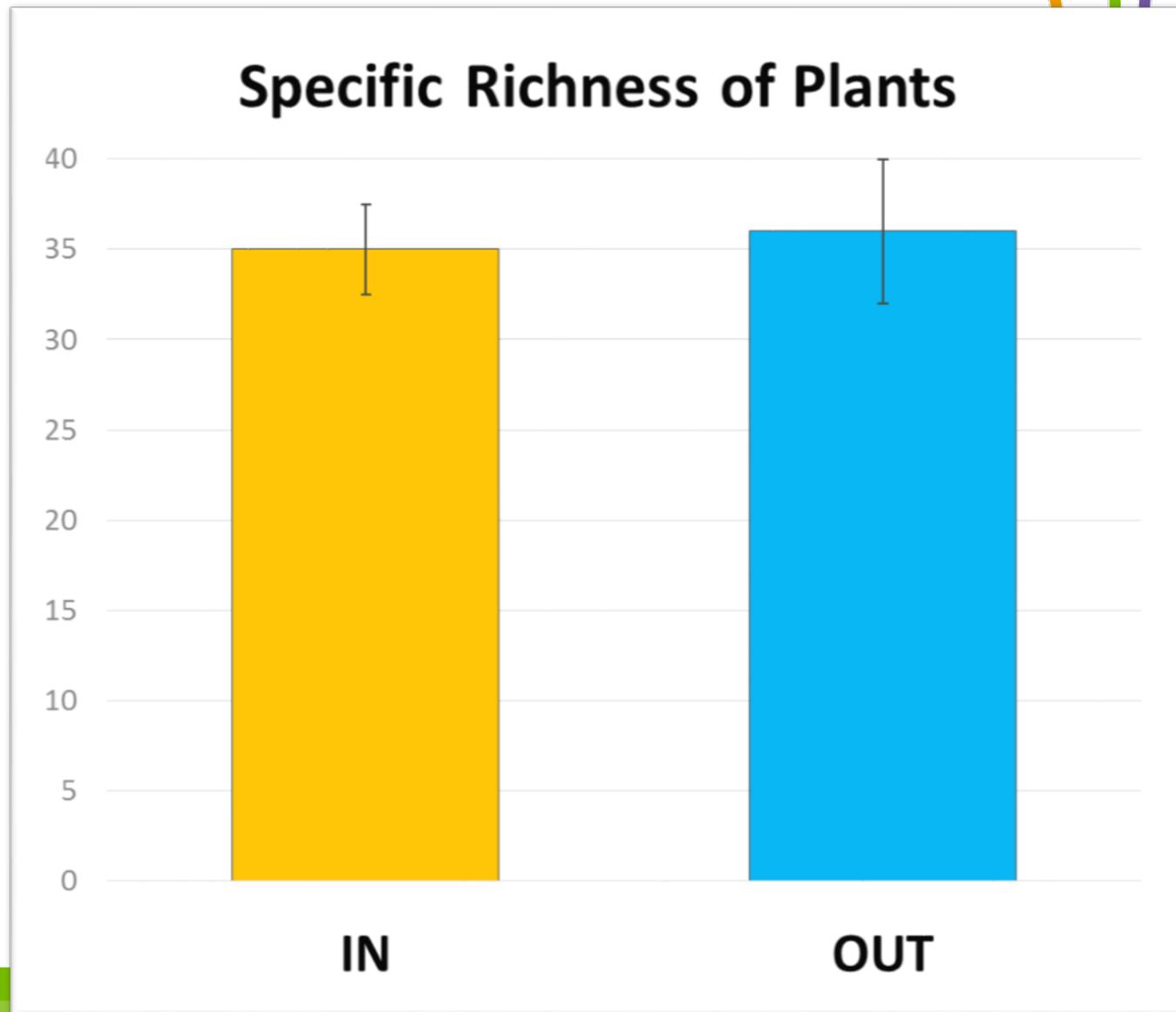
Herbaceous Fallow Land



Echelle 1 : 2.204 0 50 m



Biodiversity on 'isolates':

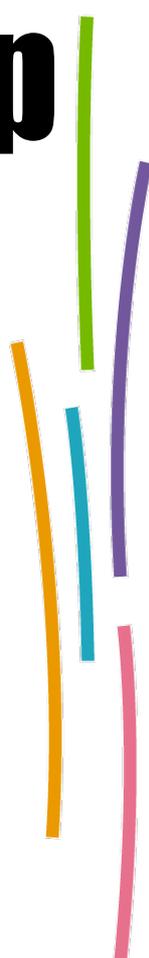




Social aspects workgroup

Main objectives

Understanding and analysing :

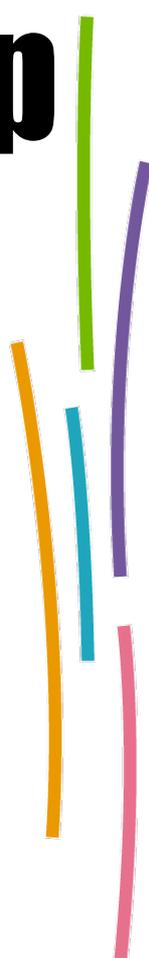
- The representations of pairing and its possible effects on the functioning of the territory
- 



Social aspects workgroup

Main objectives

Understanding and analysing :

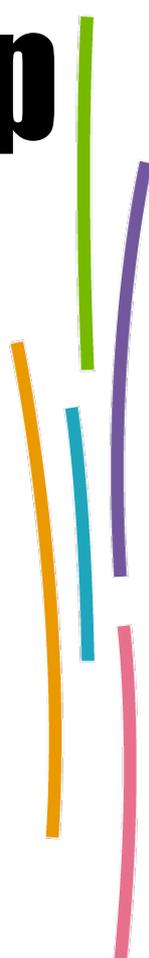
- The representations of pairing and its possible effects on the functioning of the territory
 - The acceptability of pairing
- 



Social aspects workgroup

Main objectives

Understanding and analysing :

- The representations of pairing and its possible effects on the functioning of the territory
 - The acceptability of pairing
 - The socio-economical effects of pairing on the functioning of the territory
- 

- Pairing seems to be a social building from state institutions
- Weaker acceptability of pairing by bordering residents than other actors of the territory
=> Neighbours don't see first the possible use and the protection of environment let by pairing
- Few people remember the mobilization against the decision of building paired infrastructures



First results (2/2)

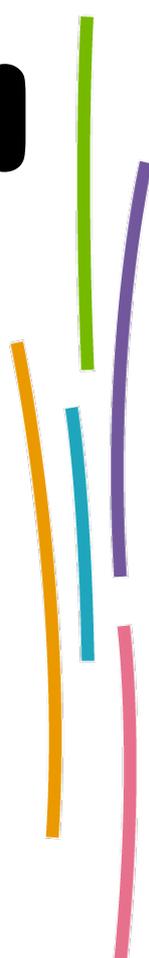
Facing a new infrastructure pairing project, the role of a person depends on :

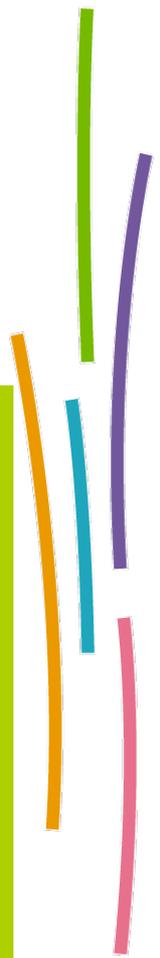
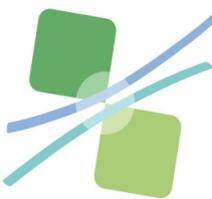
- the **micro-individual** scale (bordering residents): the decision is analysed as an arbitration
- the **micro and meso-social** scales, (territory actors): the decision is analysed as a continuum of interactions between social actors, playing on constraints
- the **macro-social** scale (contracting authority), the decision becomes invisible. It becomes a result



Transversality workgroup

Main objectives

- **Link questions and results** of each workgroup
 - **Identify criteria** necessary for the combination between two infrastructures (pairing) ?
 - **Propose a systemic approach** of the evaluation of the pairing
 - **Develop a tool** to help the stakeholders to decide the opportunity of such a combination
- 



==> The workgroup « transversality » allows an homogeneity for the results of each workgroup and replaces questions and observations in the problematic of the research project

First results and questions

● Several preliminary results of each group need to be explained and replaced in the contexte of the territory

How identify specific pairing results from generic knowledge relative to transport infrastructures ?

● Which **criteria can explain** and describe a **synergy** between infrastructures ?