



SOCIAL MECHANISMS OF RESILIENCE AND TIME LAGS IN THE SOCIAL-ECOLOGICAL SYSTEM (SES) OF PRIORAT

MASTER THESIS PROPOSAL

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Content

I°) Methodology and case studies

II°) Framework of analysis

III°) Discussion

Content

I°) Methodology and case studies

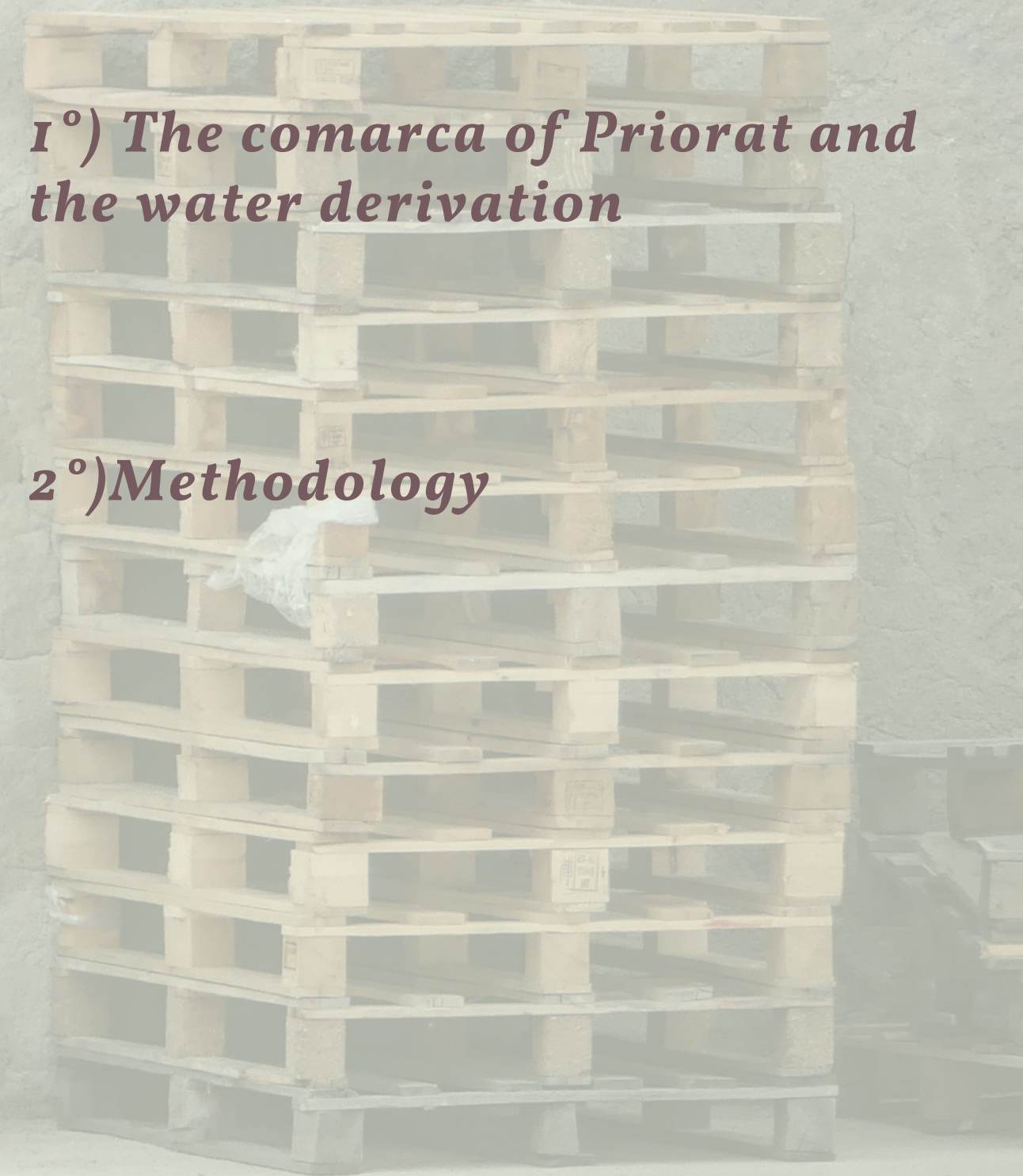


El Masroig, 2021, Timothée Landa

I°) Case studies and methodology

*1°) The comarca of Priorat and
the water derivation*

2°) Methodology



1°) Methodology and case studies

Case study N°1

THE COMARACA OF PRIORAT



Falset's church, 2021, Timothée Landa



Priorat, 2021, Plataforma Pel Riu Siurana

1º) Methodology and case studies

Case study N°2

THE MOBILIZATION AGAINST THE SIURANA DERIVATION

The social movement was born in 2015 in reaction of severe drought that deprived several villages of water. The movement has been developing itself ever since organizing several different demonstrations and appearing in several newspaper



Valldaura labs, 2021, Timothée Landa

1°) Methodology and case studies

OBSERVATION AND FIELD TRIPS

Immersive observation allowed to gain insights of the dynamics and evolution of the comarca's history and systemic processes.

SEMI-GUIDED INTERVIEWS AND SURVEY

The investigation is composed of 14 interviews browsing through the entire spectrum of the comarca's actors, and one survey targetting specifically the Siurana derivation,



Talking hands, Falset, 2021, Timothée Landa

Content

II°)Framework of analysis



Taking off, Delta de l'Ebre, 2021, Timothée Landa

II°) Framework of Analysis

1°) Relationship between water and agriculture

2°) Socioecosystem theory and resilience

3°) Participation and mobilization



Taking off, Delta de l'Ebre, 2021, Timothée Landa

II°) Framework of analysis I°) **WATER AND AGRICULTURE**

The literature review made on the relationship between water, food and agriculture has enabled a better understanding of the elements to look out during the various field studies. It also guided the investigation toward key questions regarding the water issues



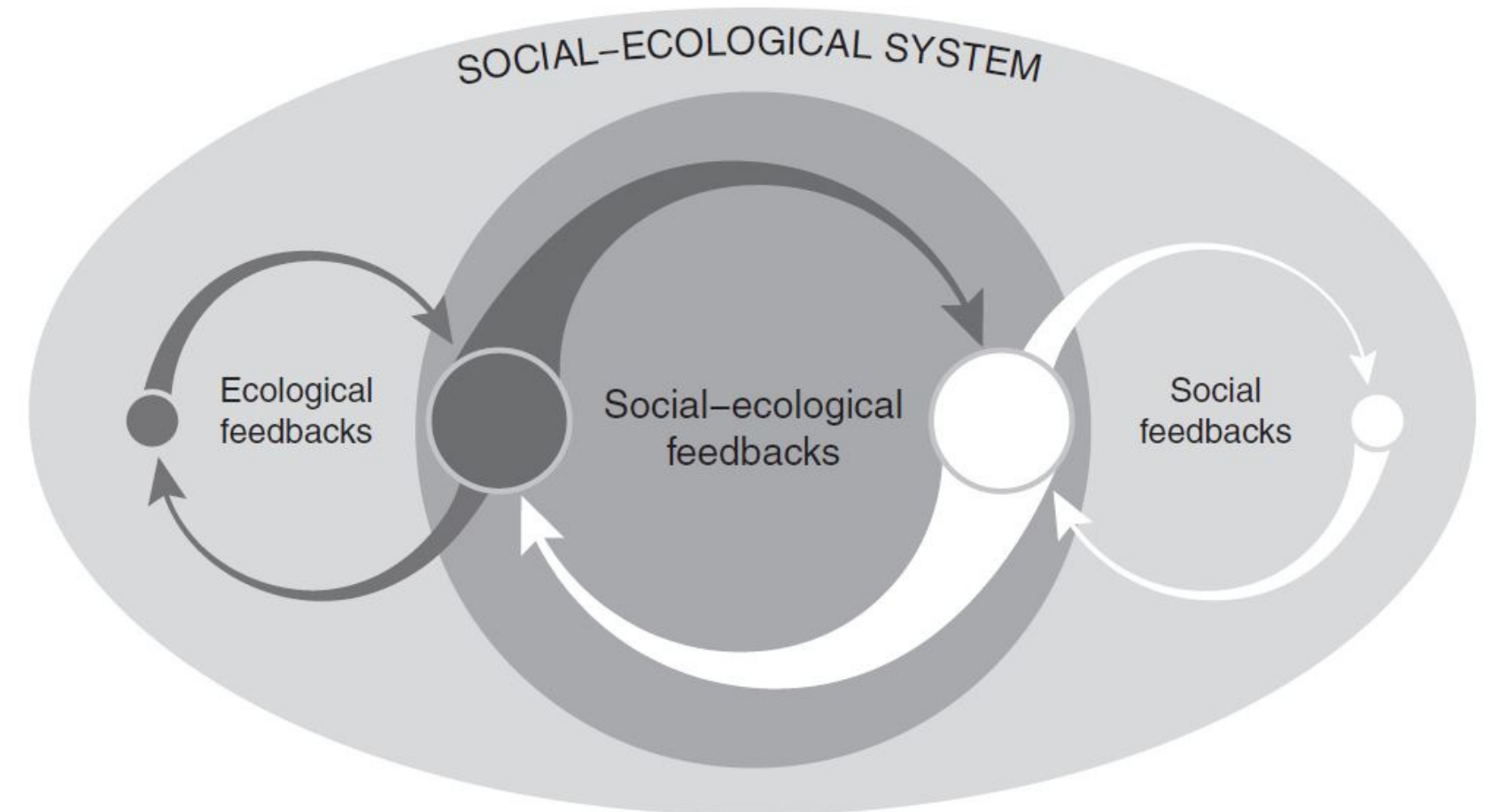
Delta de l'Ebre, 2021, Timothée Landa



Plaine de Lleida, 2021, Timothée Landa

2°) Socioecological System (SES) theory and resilience

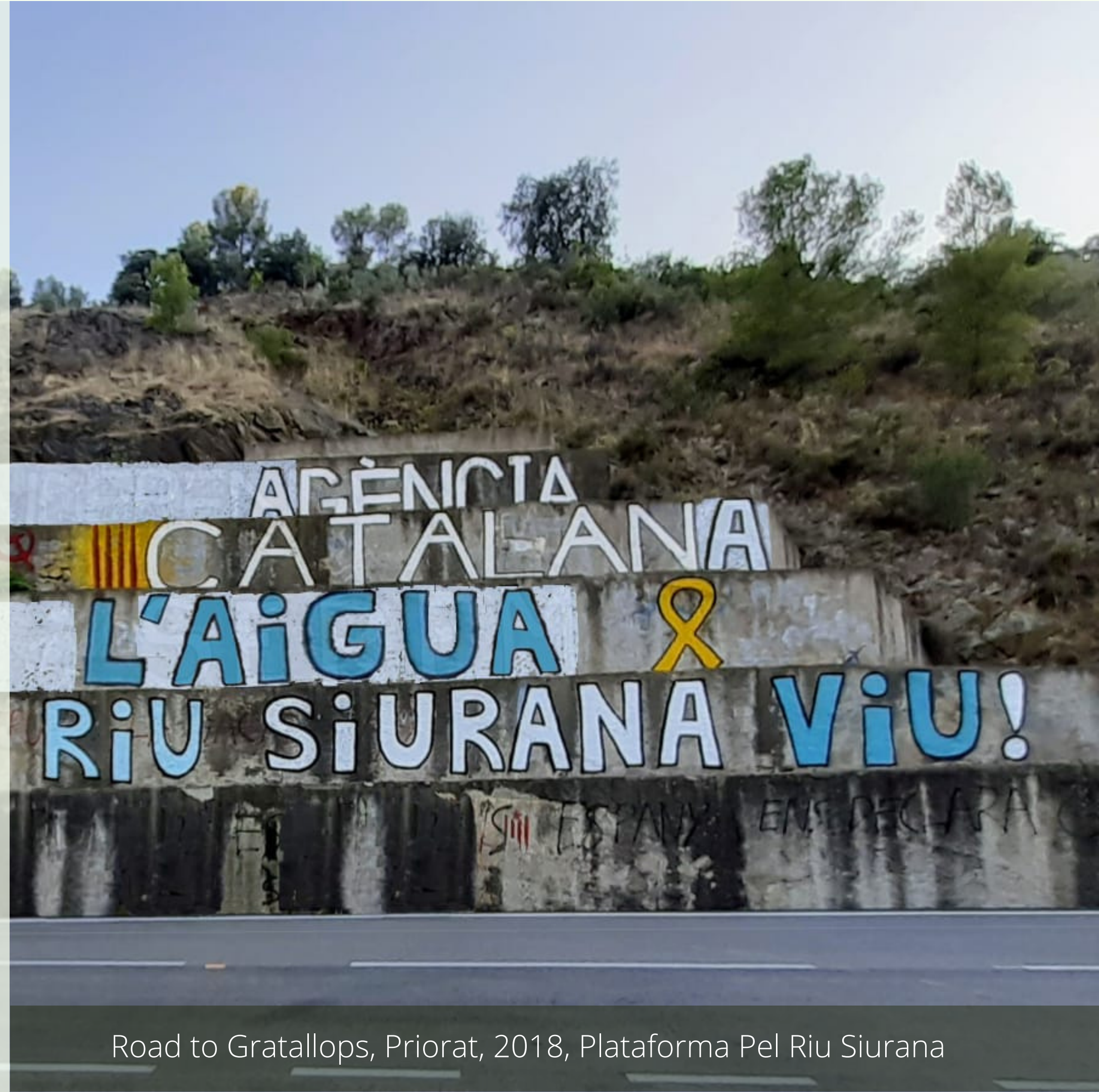
Resilience is the ability of a system to sustain a shock or a disturbance and to retain its form, function and purpose (Walker et al. 2006)



IIº) Framework of analysis

3º) **Mobilization and participation**

Mobilization corresponds to how actors who were not involved into a contentious claim start to act accordingly to defend this claim (Tilly et al. 2006)



Road to Gratallops, Priorat, 2018, Plataforma Pel Riu Siurana



Vineyard of Masroig, 2021, Timothée Landa

Content

III°) Discussion





Vineyard of Masroig, 2021, Timothée Landa

III°) Discussion

I°) *Main results*

2) *Discussing the hypotheses*



III°) Discussion

I°) Main results

- Water scarcity is due to a convergence of variables which are climate change and the river derivation
- There is a close interdependance between the inhabitants of Priorat and their ecosystem
- There is a lack of coherence and of communication between the administrations

III°) Discussion

2°) Discussing the hypotheses

- Hypothesis A: Deep interconnection between social system and ecosystem
- Hypothesis B: The mobilization exists because of this relationship
- Hypothesis C : The delays of the administration to tackle the water issues are responsible for the water mobilization

Conclusion

In a SES :

- **The resilience to shocks and disturbances born from social systems can't rely solely on the ecosystem or the social system part,**
- **It has to be a convergence between the social and the ecosystem.**
 - **Ecosystems don't have the necessary means to perceive, respond or intervene.**
 - **Social systems might have the means to perceive, respond and intervene to face the disturbances or shocks, but they don't necessarily have the will to do so.**

Only a mechanism composed of agents from the social systems that have close interdependences with their ecosystems in order to give them the will to mobilize to it.

To go beyond

Limit:

- The interview could have dug deeper in the administrative sphere
- No interviews of CRPR

Next step:

- Further develop the question of resilience at the convergence of the Social and ecosystem scale

Personal view

- Better understanding of the research field of work
- Interest toward a PhD in the field of SES resilience