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Presentation

Lessons from the agroecological transition through the implementation of Voisin rational grazing as living laboratories: case analysis in Boyacá-Colombia

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- **Methodology - Study cases characteristics**
- **Results**
  - Human and non-human actors in the innovation and collaboration process
  - Innovation process and the transformations generated at farm level
- **Discussion and conclusions**

Introduction

Research about LL – north global

LL promote transition toward sustainability - agroecology

ALL have especial características

What is happening in South Global?

Self- management experiences transit to agroecology in L.A.- Colombia

VRG- Voisin Rational Grazing

Human and non human relation

Two cases from Colombia

Biocultural, institutional and contextual conditions

Leminen & Westerlund (2019), McPhee et al. (2021) y Zavratnik et al. (2019)

Introduction

Living labs → Participatory approaches, co-creation, co-design, the multi-stakeholder perspective, and innovation are articulated with the aim of contributing to sustainability ← **Agroecology in L.A.- Colombia**

Leminen & Westerlund (2019), McPhee et al. (2021) y Zavratnik et al. (2019)

(González De Molina & Lopez-Garcia, 2021; López-García et al., 2021)

Objective

Analyze the characteristics of agroecological transition experiences through the implementation of Voisin Rational Grazing (VRG) as living laboratories in Boyacá, Colombia.

Methodology

Participatory Action Research- Qualitative methods as dialogues, semi-structured interviews (16), social cartography and participant observation

Reflection

- reasons and purposes for implementing the VRG and broad agroecological system

Action

- agroecological design and implementation process on each farm, and transformations in stylelifes

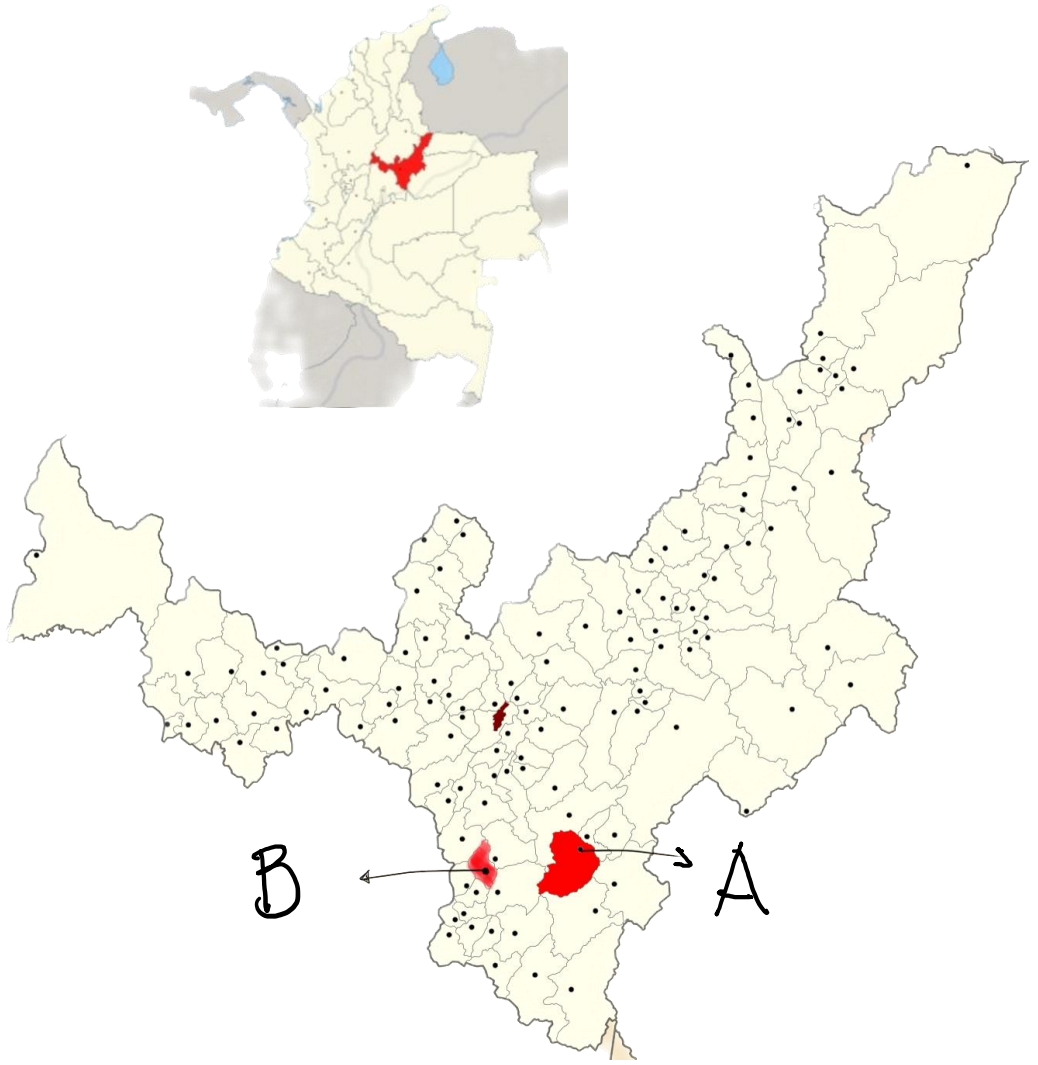
Reflection

- transformations and challenges generated in the transition process to agroecological farms

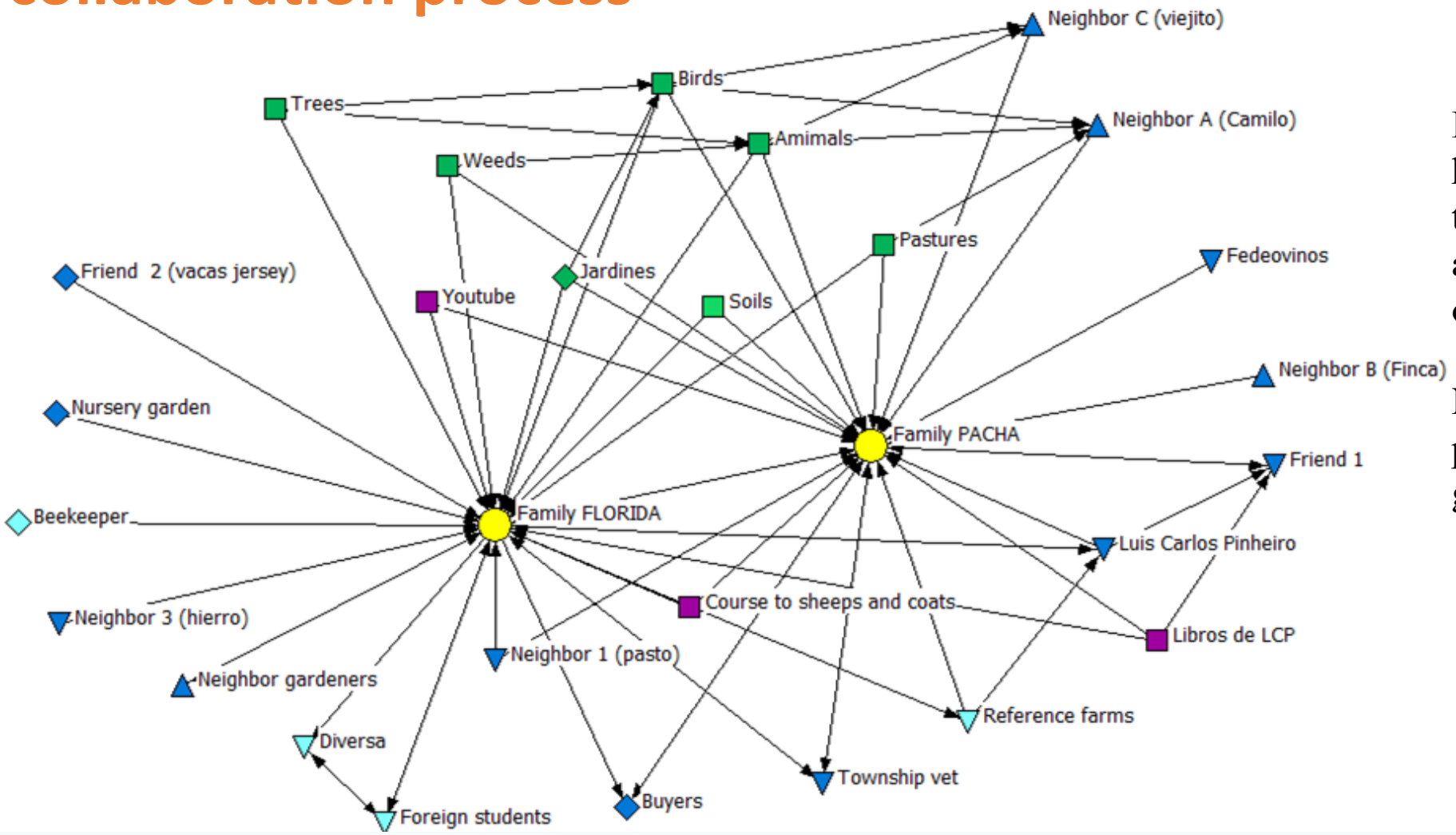
Between 2015 and 2022, at least once a month

Study cases characteristics

Expirienc e	farm area	members
A Family Florida	21 hectares	6 adults (2 since 2015, 3 since 2020, and 1 floating who is researcher) 3 childrens
B Family Pacha	3 hectares	3 adults (two owners, once who is researcher and permanent worker)



Human and non-human actors in the innovation and collaboration process



Human (triangles)
knowledge
traditional (up triangle),
academic (down triangle)
or mixed (diamont)

Non-humans (square)
purple - non-living device
green -living components

Fig. 1: actor network of knowledge flows between human and non-human actors

Human and non-human actors in the innovation and collaboration process

Cooperation occurs when individuals work independently to achieve a goal.

Collaboration occurs when people work together around common interests

¿?

(Reina-Rozo, 2020; Zamenopoulos & Alexiou, 2018)

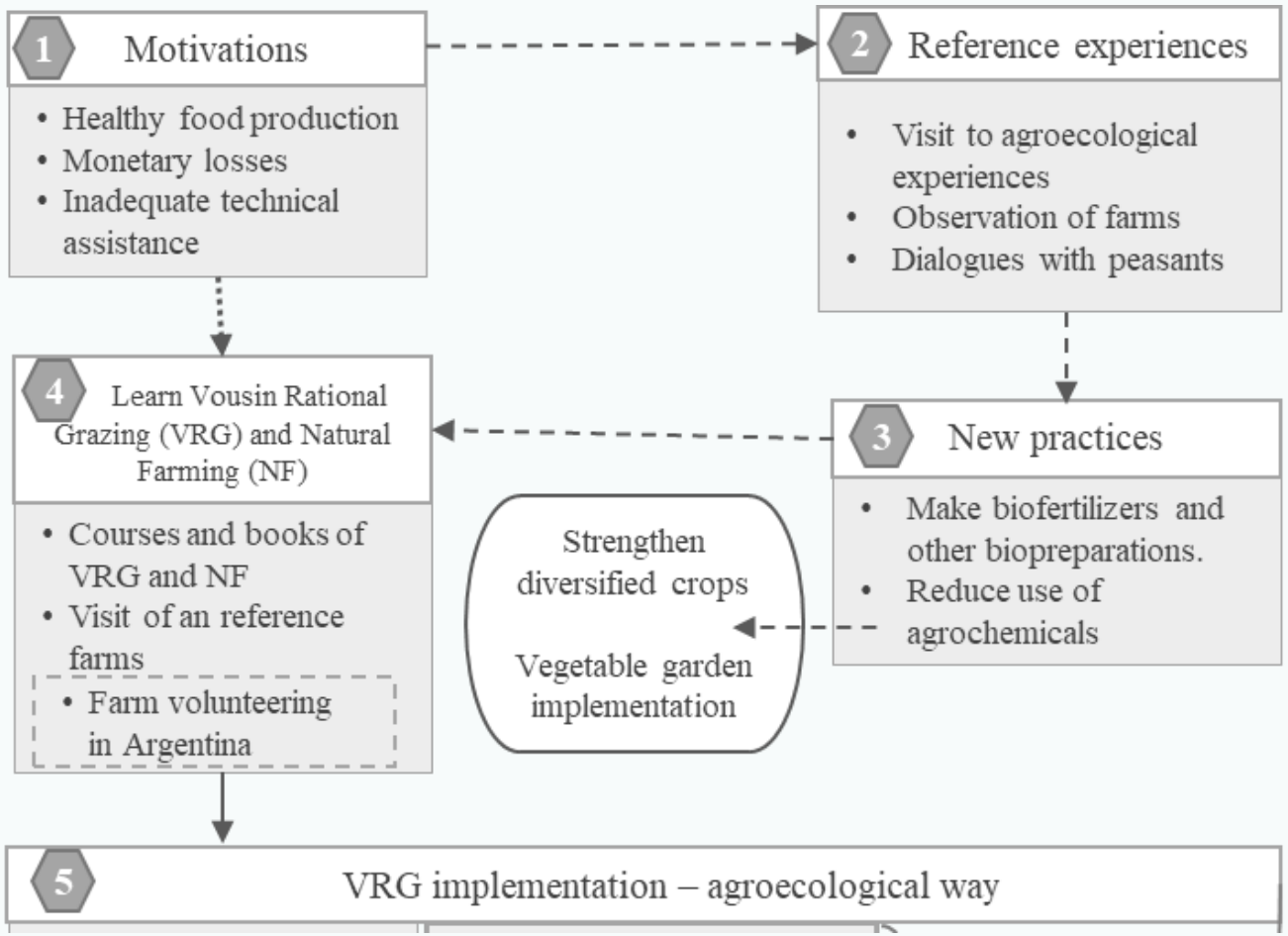
Non participation from the public sector

Human (triangles)
knowledge
traditional (up triangle), academic (down triangle) or mixed (diamont)

Non-humans (square)
purple - non-living device
green -living components

Results

Innovation process and the transformations generated at farm level

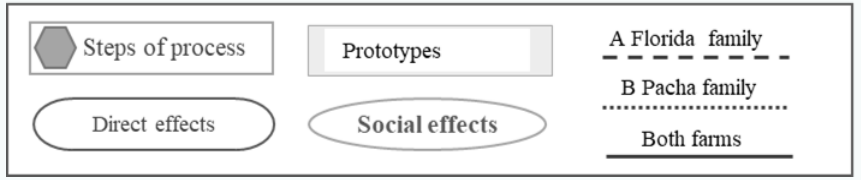


Combination of strategies, which include giving agency to the non-human

Changes:

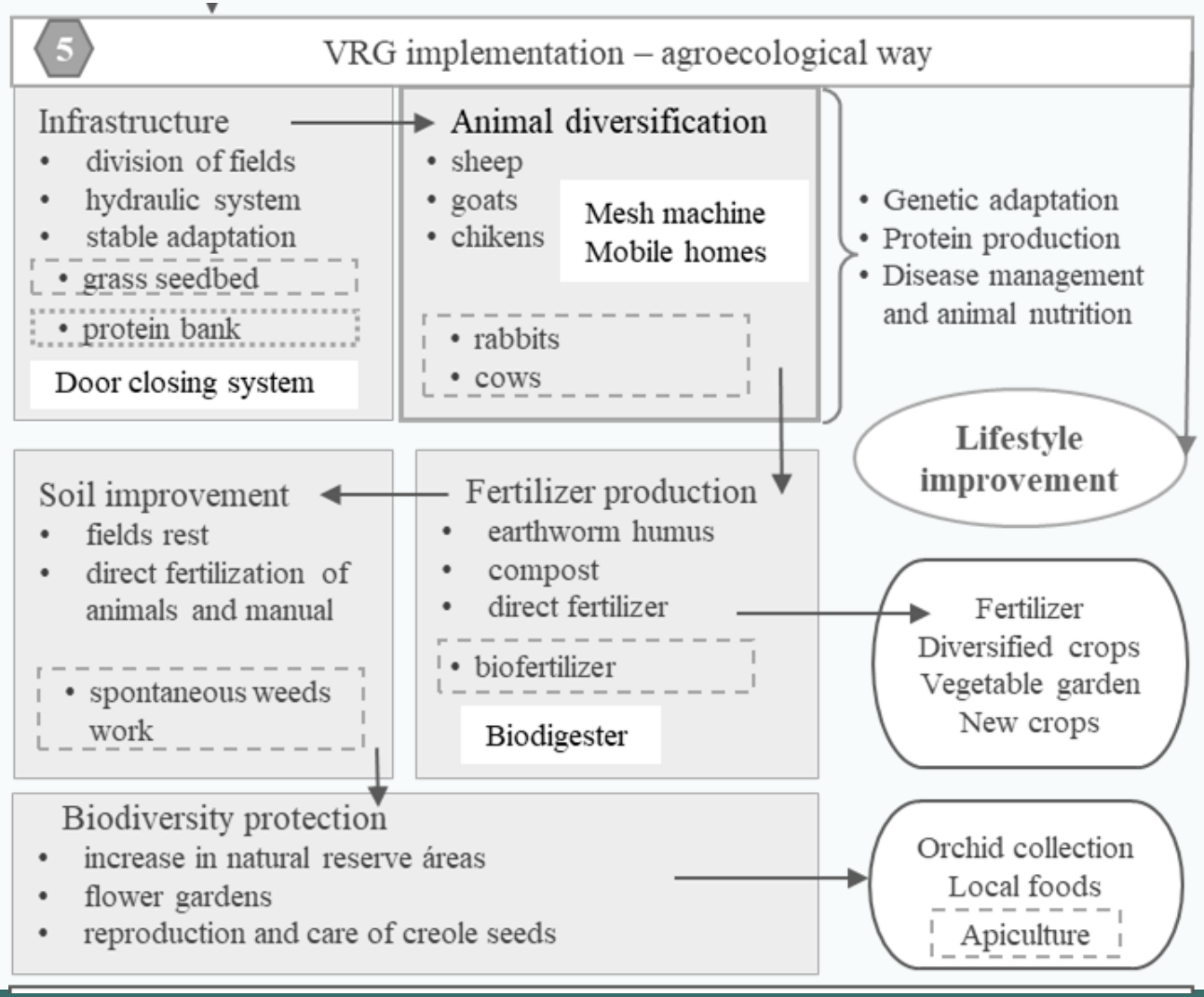
- Land use (nature reserves, rotational grazing).
- Increase biodiversity
- Self-production of fertilizers and inputs
- Increased food and energy authonomy
- Prototypes co-created

The PRV technology has served is based on letting non-human nature act and reduces the necessary amount of work



Results

Innovation process and the transformations generated at farm level



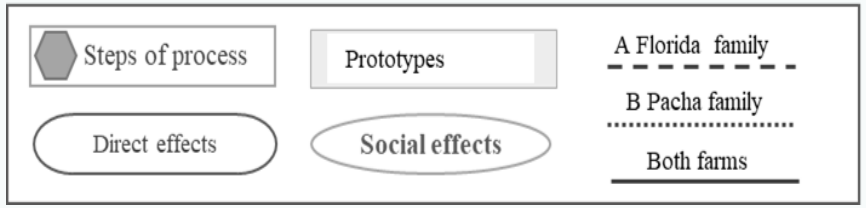
Multiple intertwined productive lines have been generated, which feedback and strengthen each other

The re-design of ways of life has allowed the expression of multifunctionality

Knowledge has been reinforced by observing the behavior of non-human component.

Sustainability projected based on food autonomy and transforming unequal relationships with markets.

Establish lifestyles based on mutual care between human and non-human.



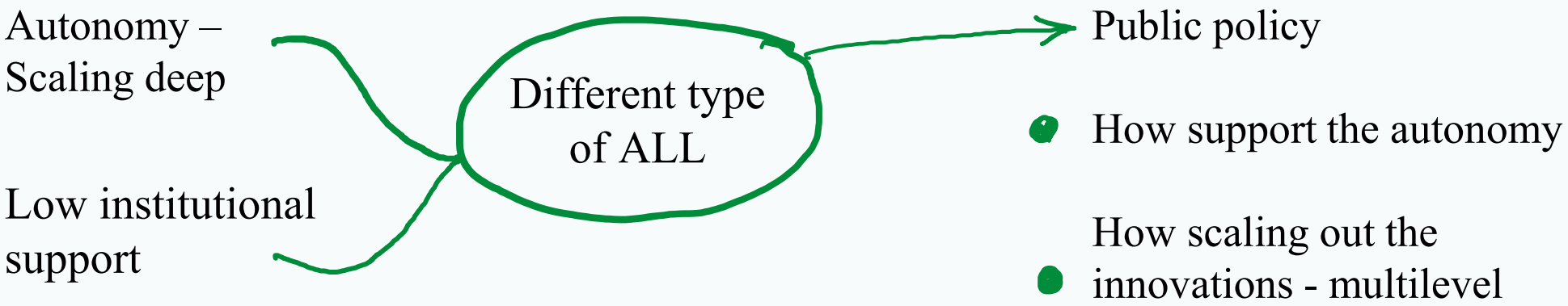
Discussion and conclusions

Aspects	Agroecosystem living labs North Context	Cases of RVG to agroecological way in Boyacá/Colombia – South Context
Aims	Aimed at **sustainability** and **resilience** **Innovation** can be expressed through technology, best management practices, or processes Knowledge production and knowledge network creation	Increase the **autonomy** to produce Agroecology as **style life** / sustainability Continuous production of knowledge in the **human and non-human** relationship, through **open-ended innovation**
Activities	High level of evaluation **Scaling up** and **out** to outcomes at the level of agriculture and agri-food systems	**Co-design** the distribution of soil use and diversification of activities **Scaling deep** values and practices of agroecology as style life

Discussion and conclusions

Aspectos	Agroecosystem living labs North Context	Cases of RVG to agroecological way in Boyacá/Colombia – South Context
Participants	Emphasis on **public sector** researcher participation Often driven by the public sector or academic institutions **High diversity and number of partners, interests, and values** requiring complex governance schemes	Driven mainly by **farmer families** with diverse background members. Envolve non-human actors Participation of NGOs – which develop co-creative process with communities. Governance center in **autonomy**, self-managed and combine different strategies
Context	The living lab is embedded within and examined at the scale of **agroecosystems**	Step of high autonomy level and **low institutional intervention** Transition at the **farm scale** External oportunities to co-creation

Future research



Thank you

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