

GOODFOOD Project

Good teaching practices in experiential learning for effective education in embedded food systems

Project No. 2020-1-PL01-KA203-082209

O2 – E-learning course on 'Food systems embedded in territories': e-lectures

Project timeframes: 1st November 2020 – 31st October 2023

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The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

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Agroecological practices

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Challenge of today food production

- ▶ World population: up to 9.1 billion in 2050 → 30 % more food is needed on a global level
- ▶ Intensive agriculture → enormous productivity gains but environmental and social limits...
- ▶ Different alternatives (non mutually exclusive) are proposed: Organic farming, climate smart agriculture and... **AGROECOLOGY**
- ▶ Agroecology is a movement, a science and a practice (Wezel et al., 2014)



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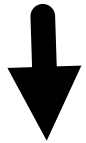
Definition of “agroecological practices”

- ▶ Agricultural practices aiming to **produce significant amounts of food**, which valorise in the best way **ecological processes** and **ecosystem services** in integrating them as fundamental elements in the development of the practices (Wezel et al 2014).



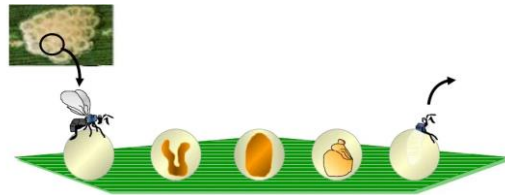
Agroecological practices: a large set of practices...

- ▶ Innovation or traditional know-how (re-adapted / optimized)



Biological control solutions

Trichograms against European corn borer



Mixed crop livestock systems

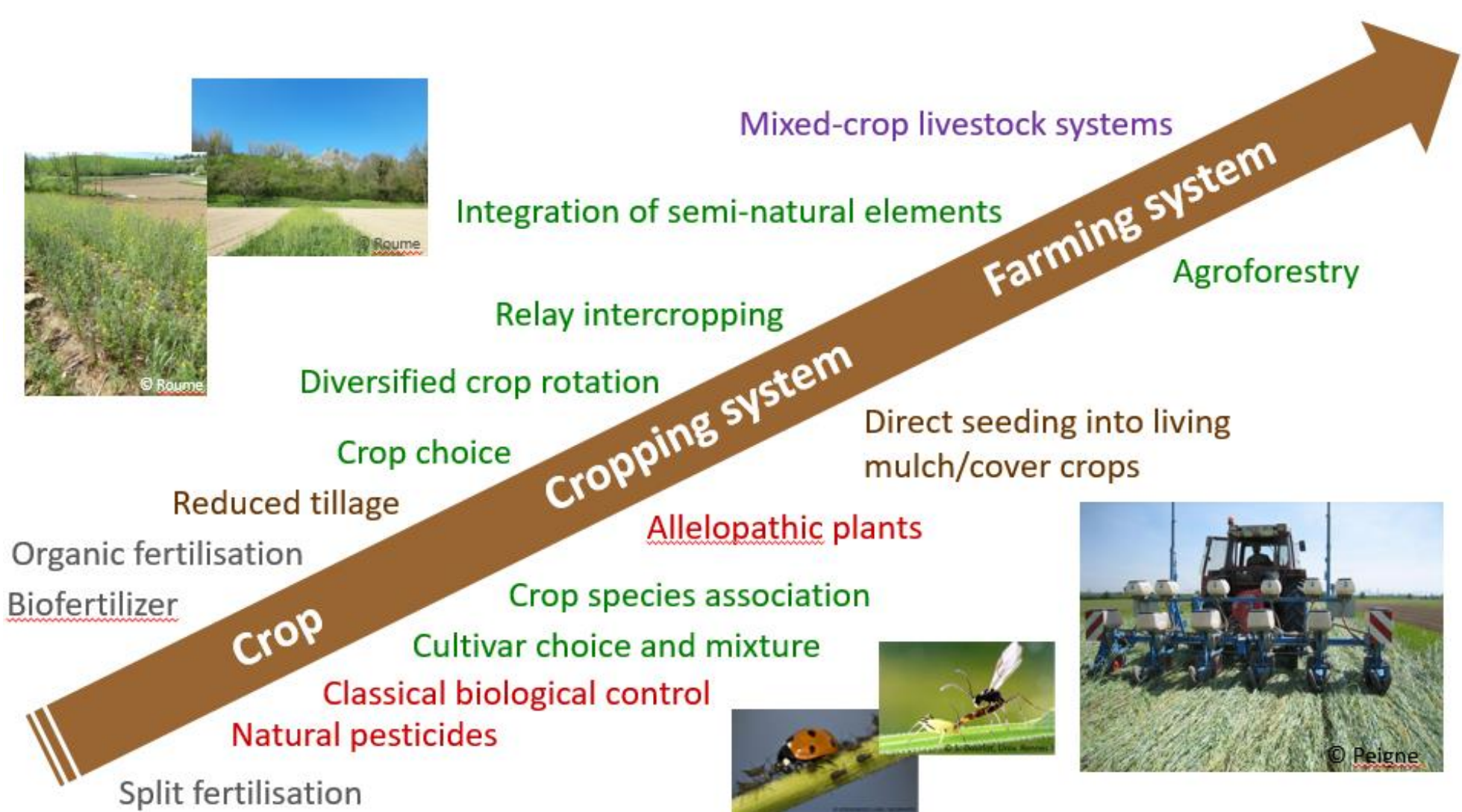


Agroecological practices: a large set of practices...

- ▶ Innovation or traditional know-how (re-adapted / optimized)
- ▶ Different degrees of complexity and requested changes in the agroecosystems



Simple to more complex to implement and manage...



Agroecological practices: a large set of practices...

- ▶ Innovation or traditional know-how (re-adapted / optimized)
- ▶ Different degrees of complexity and requested changes in the agroecosystems
- ▶ Often based on a diversification of the agroecosystems: variety mixture, species association, diversified crop rotation, agroforestry, mixed crop-livestock systems...



Crop genetic diversity



Crop species diversity (in space)

Crop species diversity (in time)

Diversity in the types of productions



- Lucerne
- Wheat
- Secondary cereal (barley, rye)
- Grass clover



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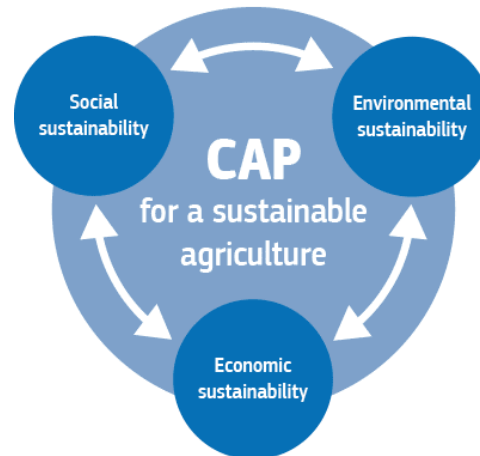


Agroecological practices: perspectives for adoption...

- ▶ The degree of integration in today agriculture varies according to the practice
- ▶ The potential for adoption partially depends on their complexity, on the policies (subsidies) supporting their implementation and on network dynamics (farmers and other stakeholders...)



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Thank you for your
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