

# GROWING PROTECTING differently

## SPECIFICS

Sustainable Pest Control In Fabaceae-rich Innovative Cropping System

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## CONTEXT & OBJECTIVES

PESTICIDE-FREE AND LEGUME-RICH CROPPING SYSTEMS

SPECIFICS aims to acquire new knowledge for assisting in the design and the development of **pesticide-free** and **legume-rich** cropping systems.



## METHODOLOGY & ORGANISATION

Pea, Faba bean, Lentil, and more grain-legumes...



6 TARGET PESTS

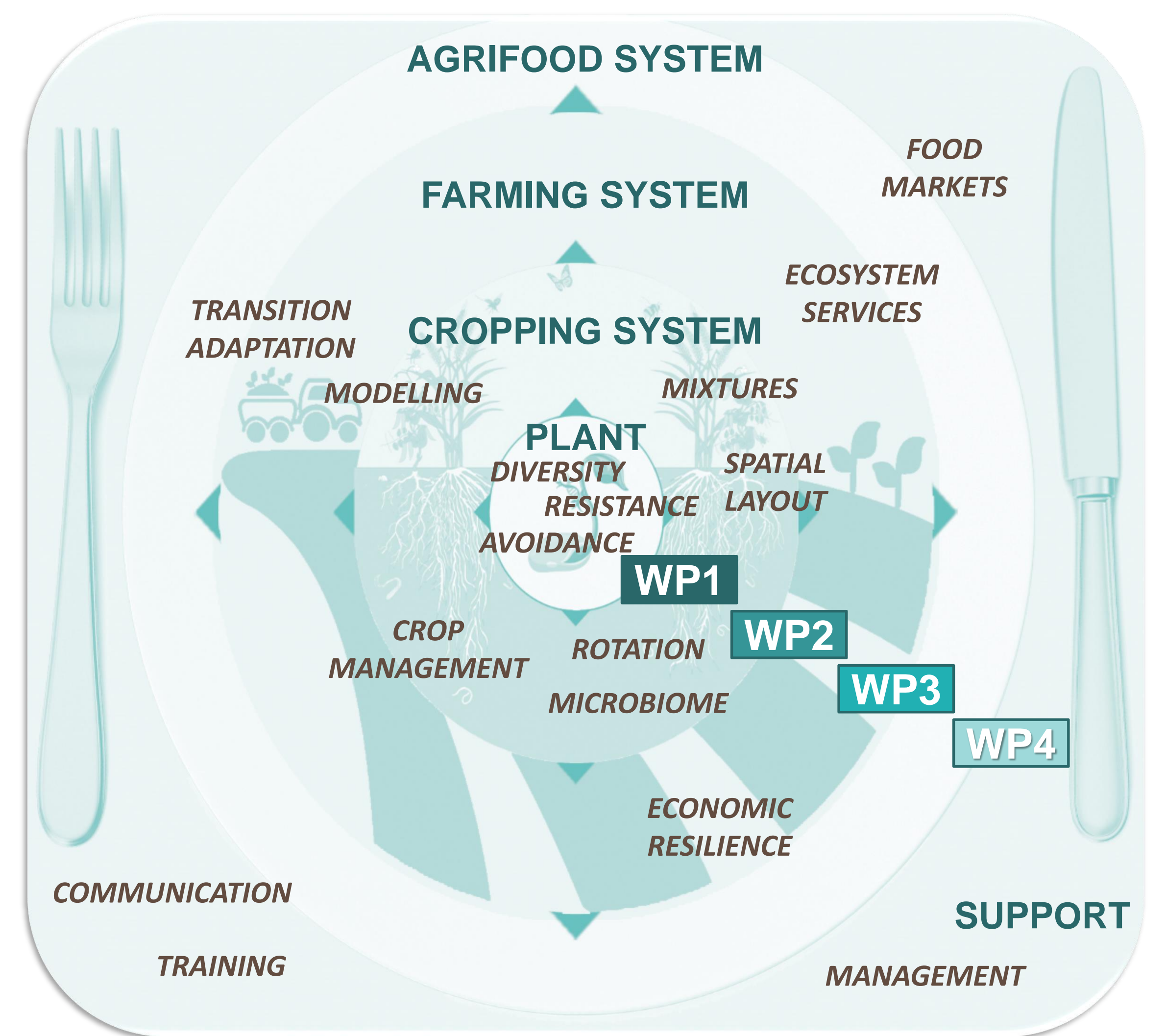


Figure 1. Screening plant traits for pest control (Faba bean roots in RhizoTubes®, INRAE-4PMI, France)

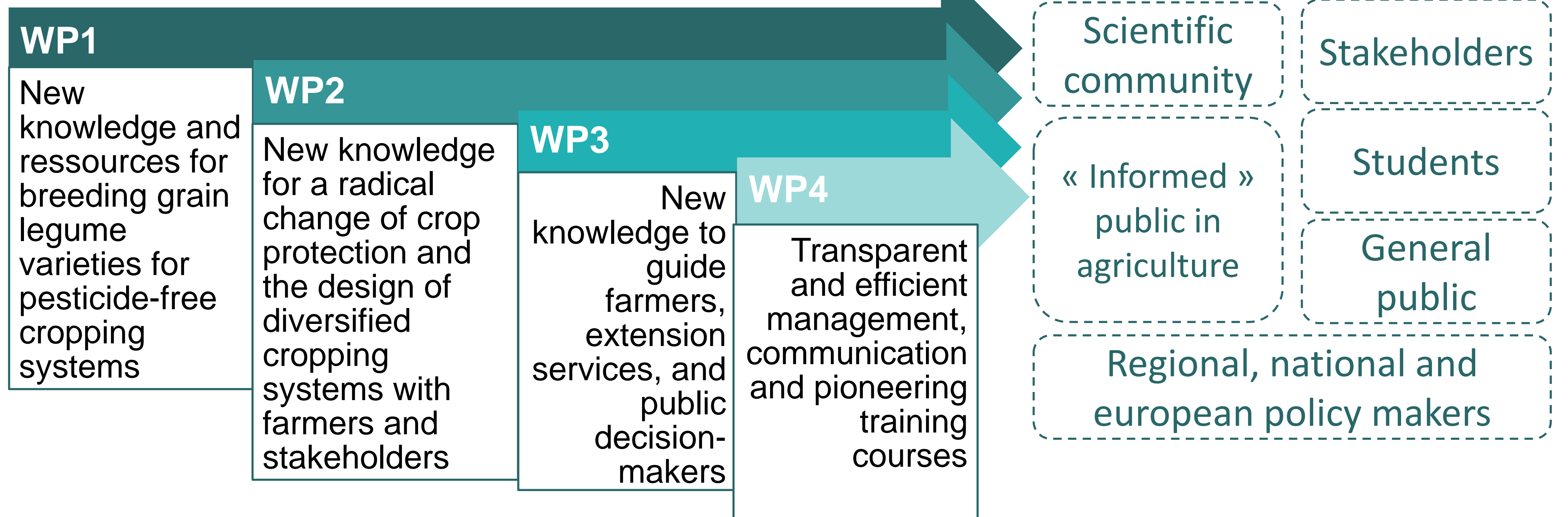


Figure 2. Pesticide-free agro-ecological systems for field crops, CA-SYS platform, Bretenière, France

## SPECIFICS outline



## EXPECTED RESULTS



## CONCLUSION

The radical change of the SPECIFICS project is the **biodiversity-based approach** for managing bio-agressors and the rapid translation of genetic and genomic advances into the field and from the field to the market. This project no longer sees pulses as a service crop, but as **key species in the agroecological and food transition**.

## PERSPECTIVES

- Provide tools and recommendations to all actors in this transition
- Contribute to a shift towards pulse-rich food and farming systems
- Produce a pool of transferable scientific knowledge in the fields of the life, human and social sciences



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