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Protéagineux : des ressources génétiques à l'innovation variétale

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► **To cite this version:**

Judith Burstin, Anne-Lise Brochot. Protéagineux : des ressources génétiques à l'innovation variétale. 2. Annual Meeting PeaMUST, Dec 2014, Dijon, France. 2014. hal-02739632

HAL Id: hal-02739632

<https://hal.inrae.fr/hal-02739632>

Submitted on 2 Jun 2020

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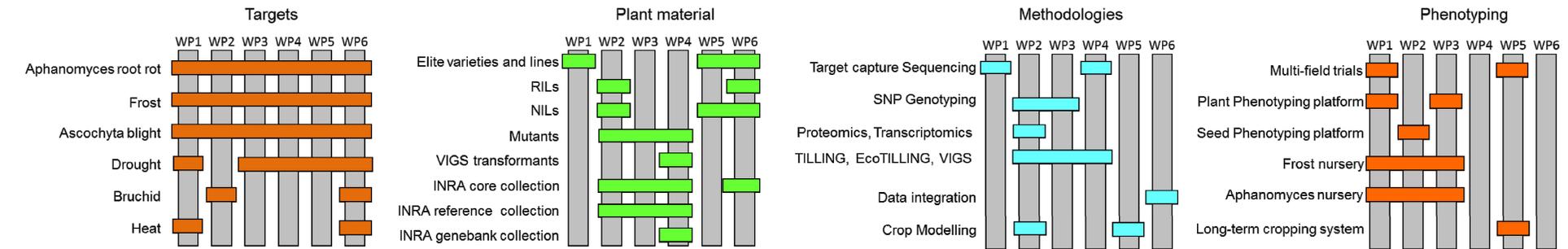
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Pea Multi-Stress adaptation and biological regulations for yield improvement and stability



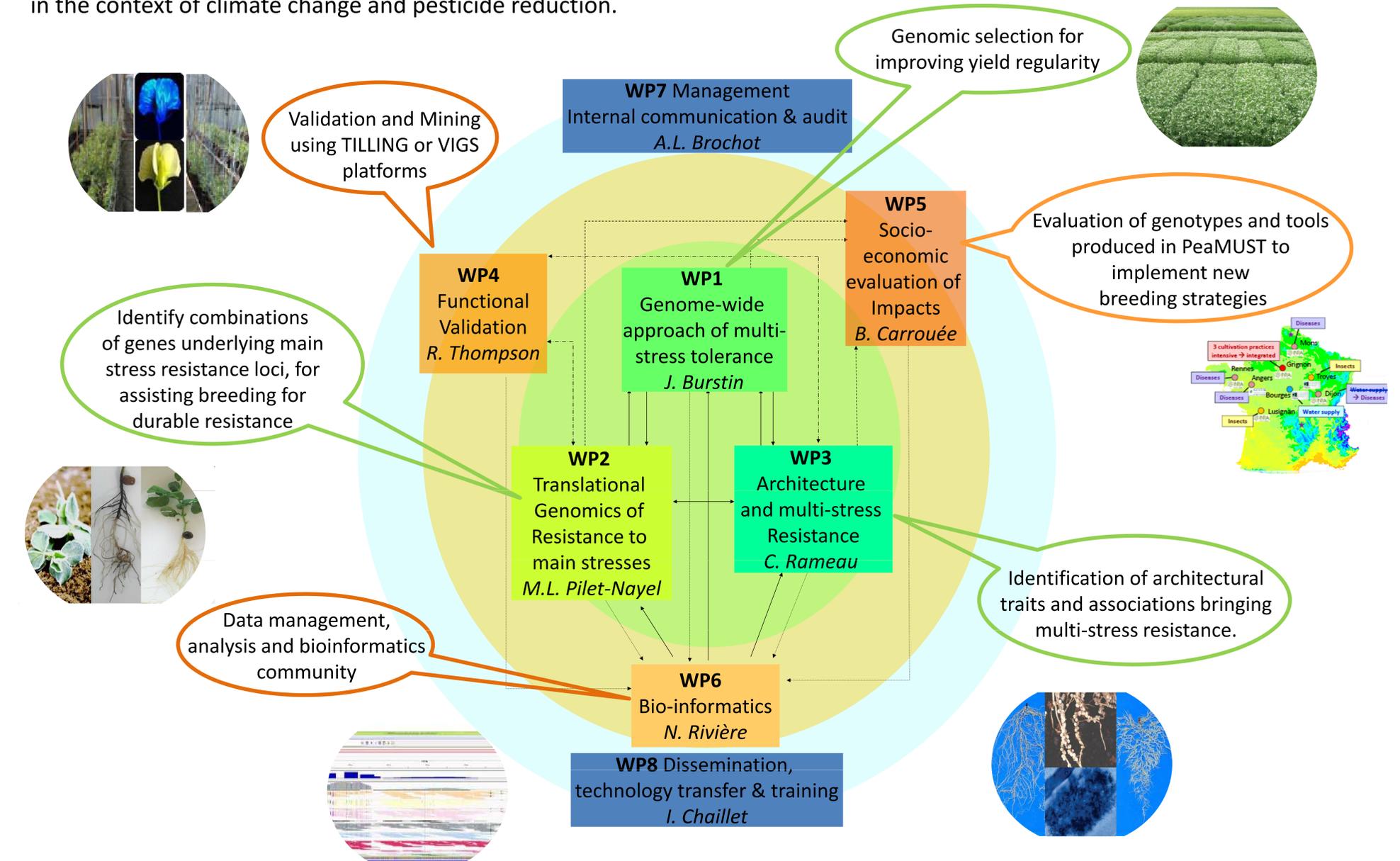
What is PeaMUST ?

PeaMUST brings together 26 partners from the public and private sectors, having a large range of competencies, from geneticists to biochemists, stakeholders to farmers. PeaMUST is tailored to provide new insights into the mechanisms of multi-stress resistance and enable efficient and rapid exploitation of useful genetic diversity – natural and induced – to develop improved crop varieties with a more stable yield.



Objectives:

The overall objective is to develop novel pea varieties and optimize plant-symbiotic interactions for stabilized seed yield and quality, in the context of climate change and pesticide reduction.



More specifically:

- Undertake a program of genomic selection, targeting low-input cropping systems
- Discover molecular determinants of disease, insect and frost partial resistance in peas for assisting breeding of durable resistances
- Investigate the potential of the manipulation of architecture and of plant-symbiont interactions for assisting breeding of durable resistances
- Provide enhanced platforms for gene validation in peas – such as diversified TILLING and Virus induced gene silencing (VIGS) and user-friendly database for the rapid integration of outputs in breeding programs

<http://www.peamust-project.fr/>

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