



# European project SMARTER 2018-2023

## SMAll RumimanT breeding for Efficiency & Resilience

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# Our understanding of Resilience & Efficiency in SMARTER

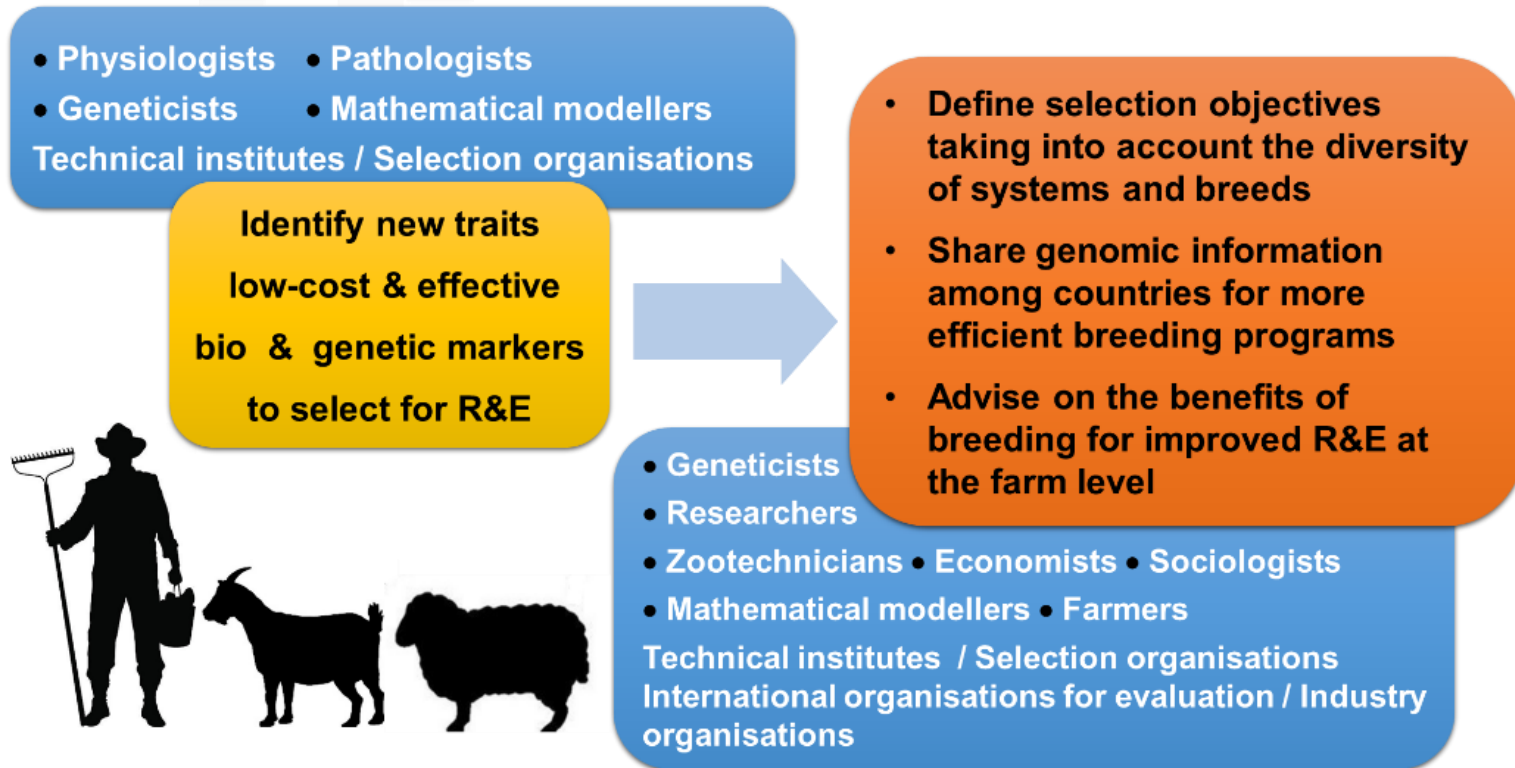
**Resilience:** the ability of an animal/system to either maintain or revert quickly to high production and health status when exposed to a diversity of challenges, with a focus on nutritional and/or health challenges.

- Direct indicators of health : gastro-intestinal parasitism, lameness and mastitis, ....
- Indirect indicators of health and welfare : lamb and foetal survival, functional longevity, maternal and lamb behaviour, and neonatal vigour.
- Development of new resilience trajectory methods
- farming systems more economically resilient to environmental, disease and economic challenges.

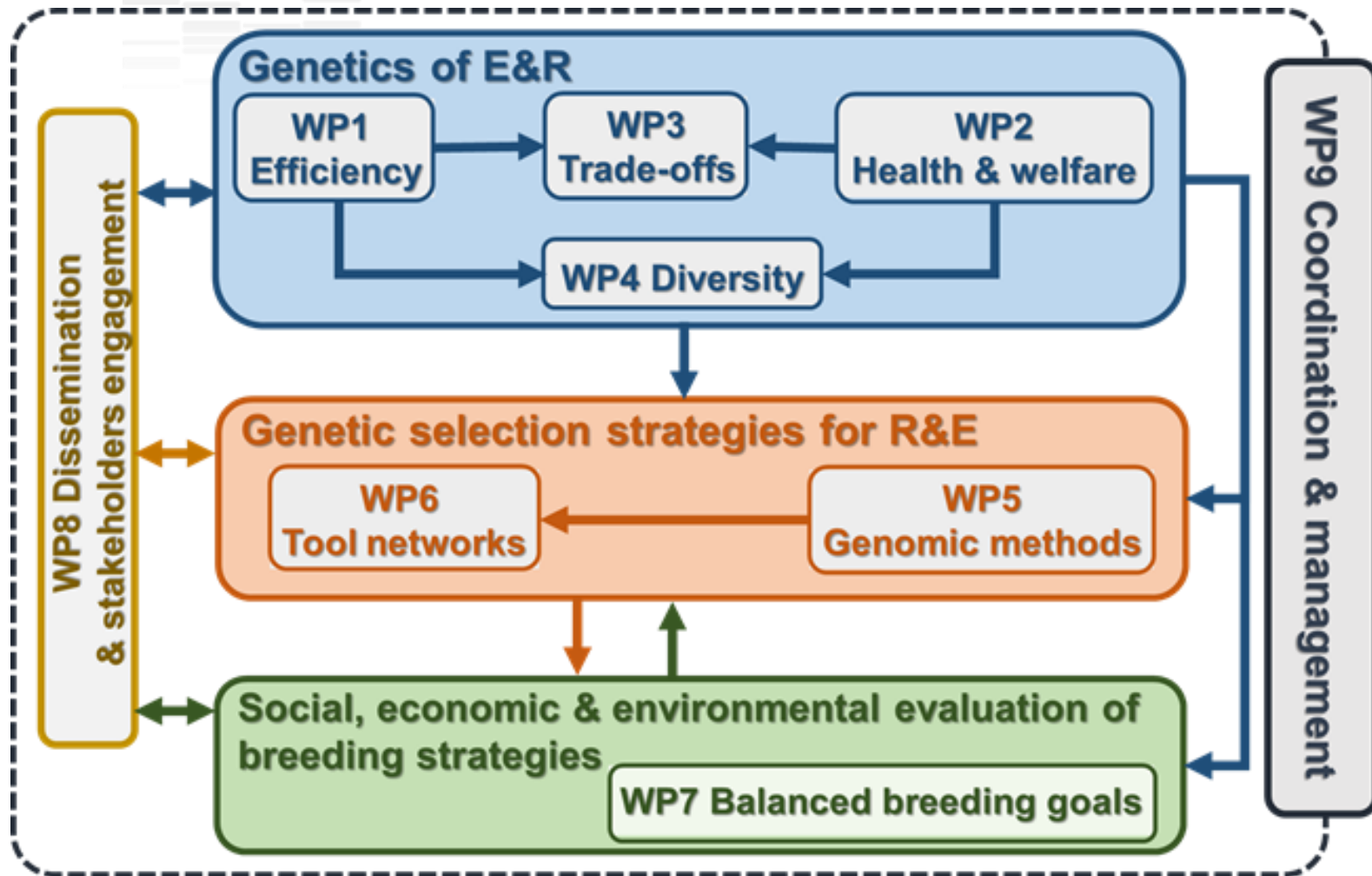
**Efficiency:** of feed resource use by animals.

- feed efficiency (using residual feed intake),
- dynamics of body tissue mobilisation and its impact on the environment.
- focus on agro-ecological efficiency including greenhouse gas emissions.

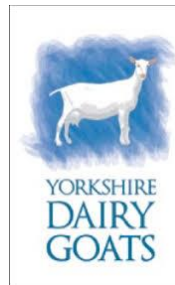
# Several competences to achieve several goals in the SMARTER project



# Project organisation



# SMARTER a multi-actor project: 26 PARTNERS (14 academic & 12 non-academic partners)



THE GLOBAL STANDARD FOR LIVESTOCK DATA

