

cousin

Crop Cousins, promise for the future

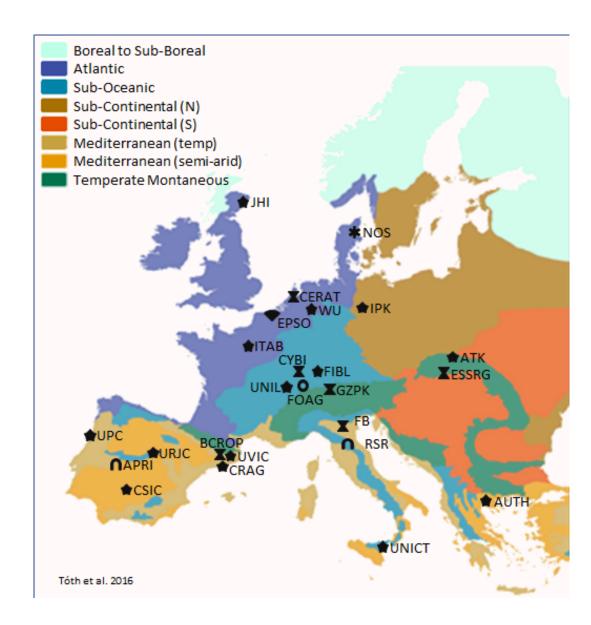


- Call: HORIZON-CL6-2023-BIODIV-01-13 Crop wild relatives for sustainable agriculture
- Research and Innovation Action
- Duration: 01/01/2024 31/12/2028 (5 years)
- Coordinator: Christian Schöb, University Rey Juan Carlos, Spain
- 25 institutions from the EU, Switzerland and UK



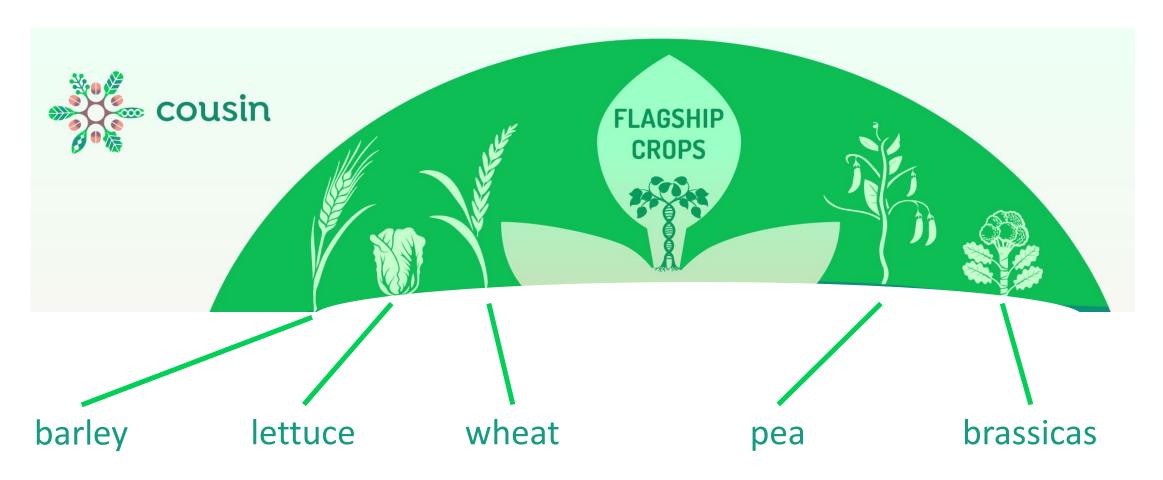
THE CONSORTIUM

- 25 partners
- 14 research institutions
- 5 SMEs
- 3 NGOs
- 1 large Enterprise
- 1 government organisation
- 1 other institution





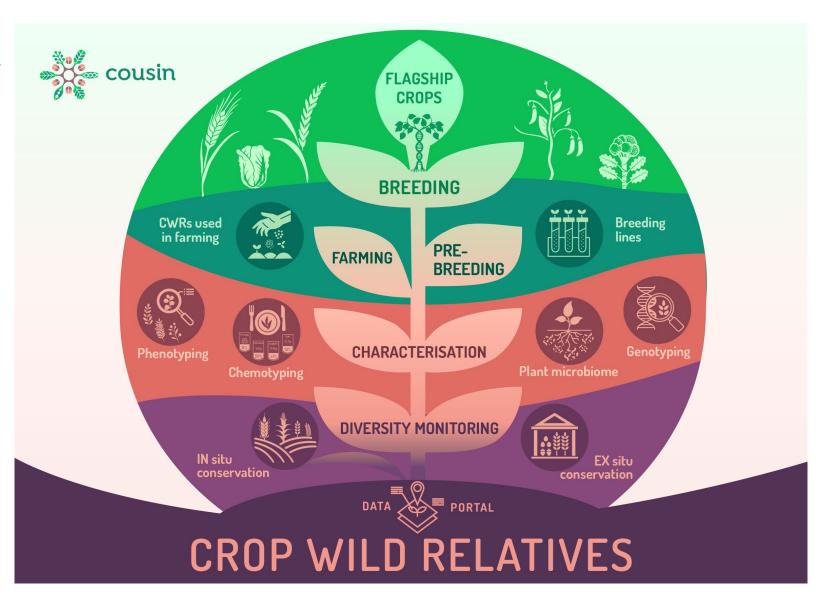
Five Flagship Crops





Four lines of activities

- Data acquisition, management, provisioning, interoperability with other data platforms
- CWR diversity monitoring, including in situ and ex situ conservation
- CWR characterisation, including phenotyping, chemotyping, plant microbiome, genotyping
- CWR use for farming, prebreeding and breeding





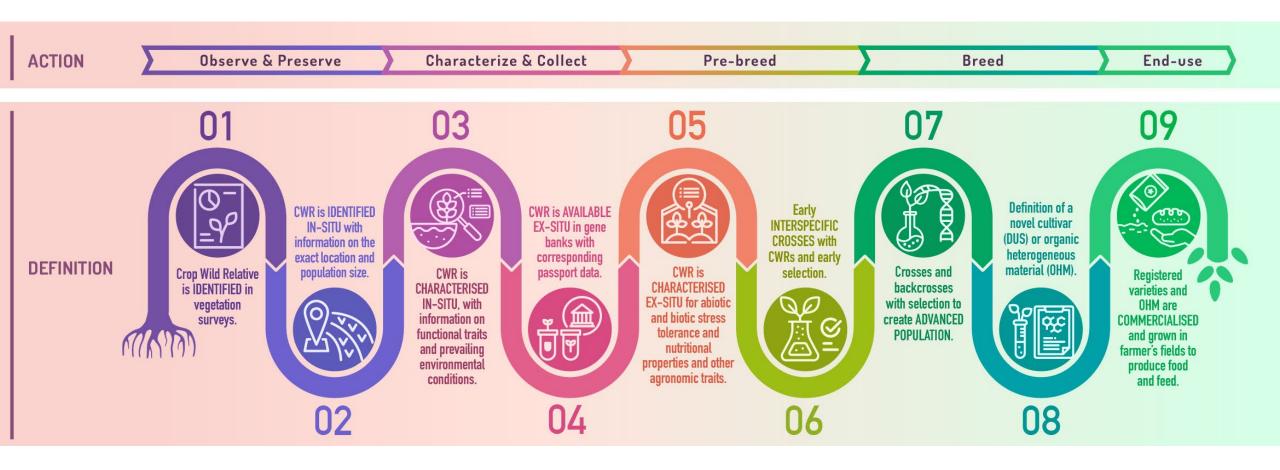
COUSIN ACTIVITIES

ACTION Observe & Preserve Characterize & Collect Pre-breed Breed End-use

9 Steps towards the use of CWRs in agriculture – The COUSIN Readiness Levels



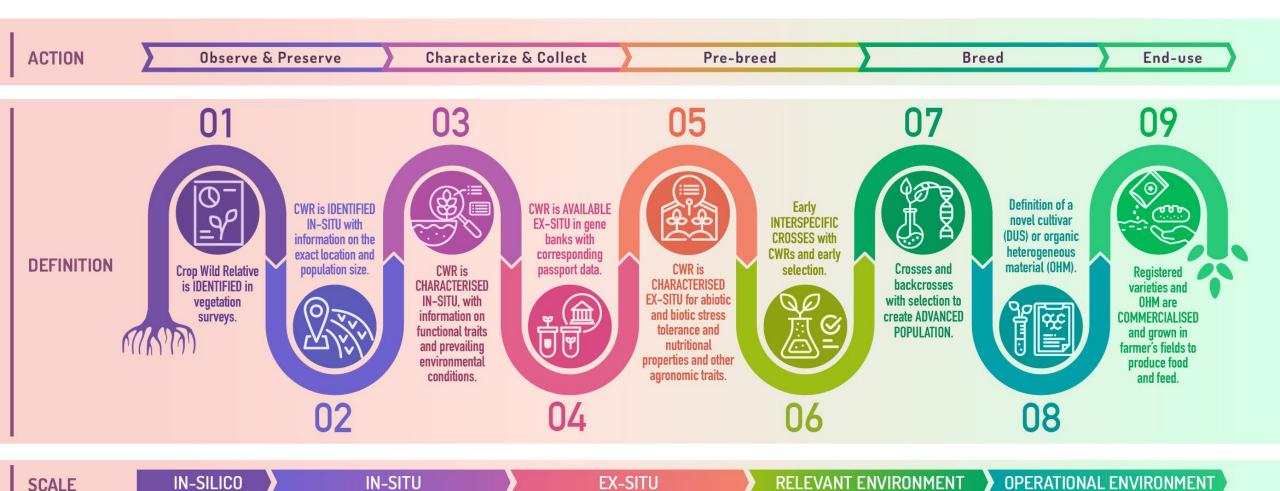
COUSIN ACTIVITIES





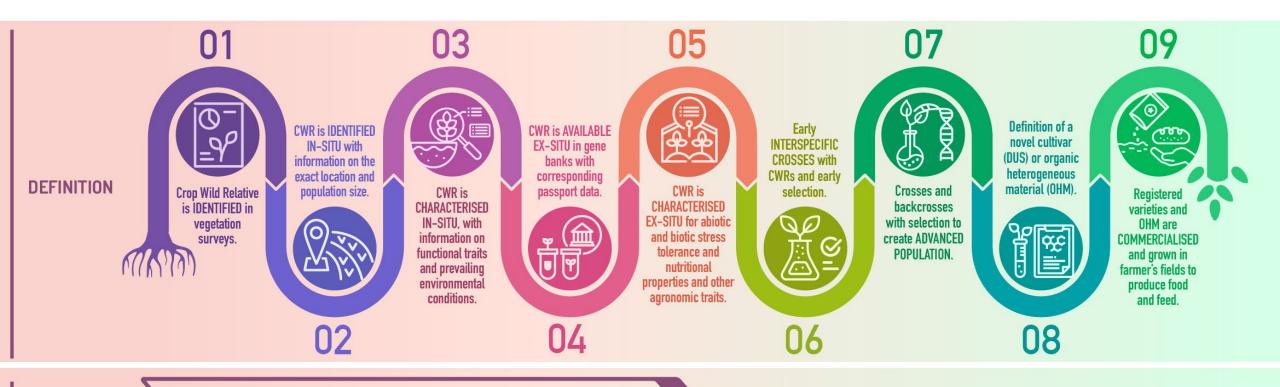
COUSIN ACTIVITIES

SCALE





Three Pathways to action



From a stakeholder need to a CWR with desired traits

PATHWAYS OF ACTION

From a CWR with a desired trait to a segregating population

From CWR-derived populations to near-market cultivars.



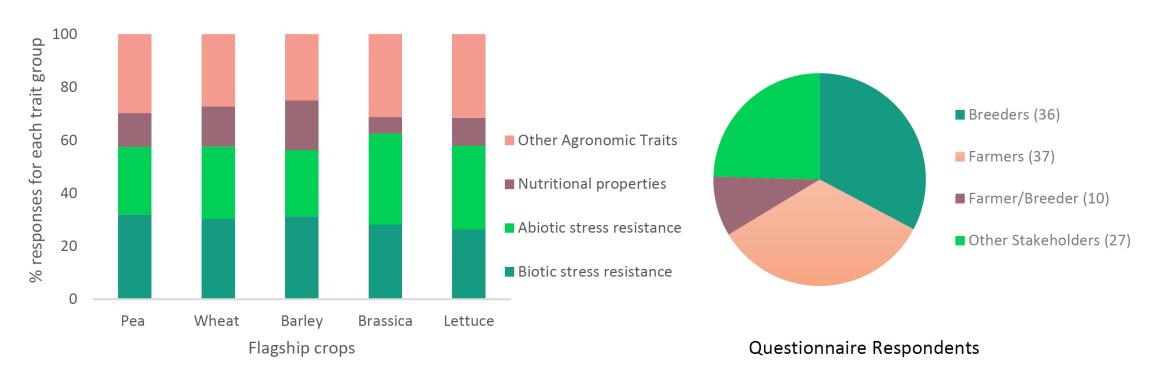
Three Pathways to action

- Pathways are summarised in the 9 COUSIN Readiness Levels
- Pathways shall demonstrate the value and conservation requirements of CWR
- Ambitious goal
 - Demonstrate the value of CWRs through their use in sustainable agriculture in a five-year project
 - COUSIN partners bring in experiences from many previous projects
 - EC and other funding agencies
 - Directly feed into the activities of COUSIN
- Three complementary pathways to action
 - For each of the five flagship crops
 - Distinct starting and endpoints in the project

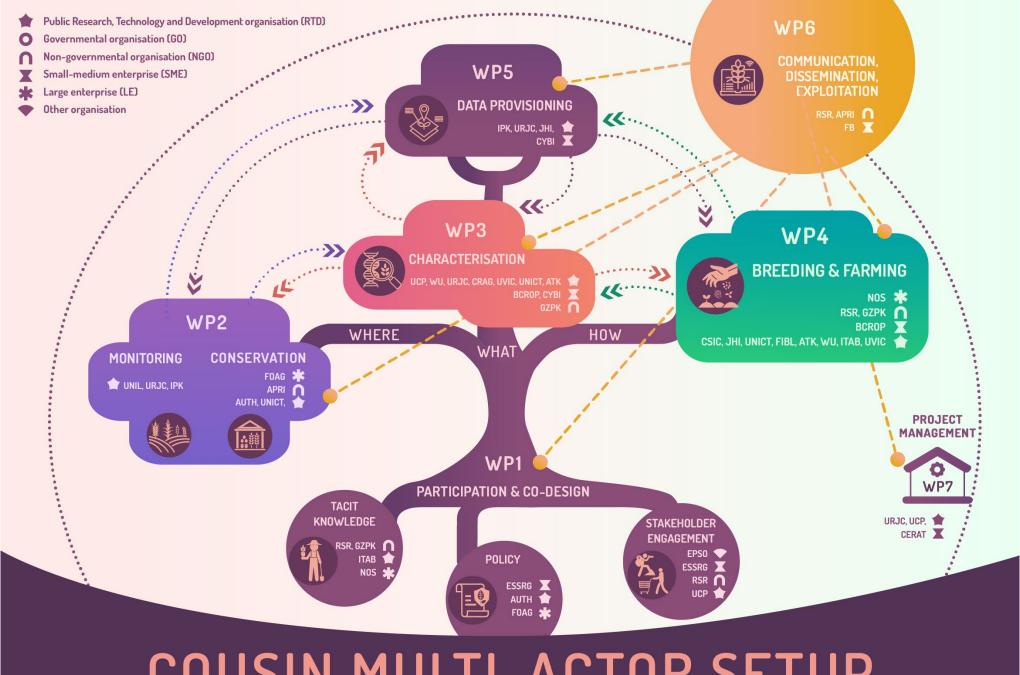


COUSIN Multi-actor approach

- Results from COUSIN questionnaire
 - Aim: pre-identify priority traits demanded by stakeholders for characterisation of CWRs
 - Implemented in February 2023



"other stakeholders" include researchers, chefs, and consumers



COUSIN MULTI-ACTOR SETUP

Thank you!



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