



# FOSTERING THE NEED OF IMPLEMENTATION OF THE ECPGR EUROPEAN EVALUATION NETWORK (EVA) ON GRAIN LEGUMES

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Bacau, Romania

*ForEVA – Meeting 10-11 October 2023, Bucharest, Romania*



# ForEVA preparatory action towards the establishment of an EVA-legume network



Selection of species and traits to be proposed to EVA network

Identification and selection of partners and stakeholders

Duration



March 1st 2023 –  
30th April 2024

Partners



21 Partners

Funding



Multi crops



Grain legumes

Stakeholders



Inform - Consult -  
Involve - Collaborate

Functional frame for PPP

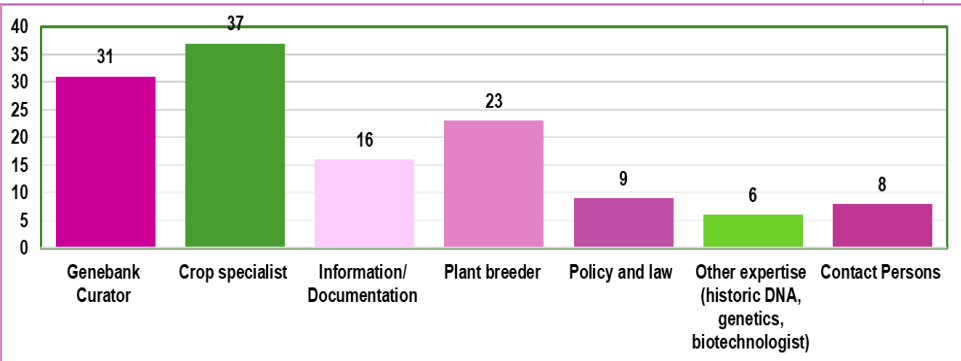
Speeding up the breeding gains the access  
and sustainable use of GrainLeg GenRes

# Grain Legumes WG

Crop Working Groups

Thematic Working Groups

- Allium
  - Avena
  - Barley
  - Beta
  - Brassica
  - Cucurbits
  - Fibre Crops (Flax and Hemp)
  - Forages
  - **Grain Legumes**
- Leafy Vegetables
  - Malus/Pyrus
  - Medicinal and Aromatic Plants
  - Potato
  - Prunus
  - Solanaceae
  - Umbellifer Crops
  - Vitis
  - Wheat
- Wild Species Conservation in Genetic Reserves
  - On-farm Conservation and Management
  - Documentation and Information



101

**ECPGR Grain Legumes Working Group Members**

39

**Participant countries**

2

**Ongoing projects**

2

**Finalized projects**



**Bosnia and Herzegovina, Bulgaria, Estonia, France, Georgia, Germany, Greece, Ireland, Italy, Latvia, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom**



# Grain Legumes WG mission and initiatives



## COMMUNICATION AND DISSEMINATION

Order Article Reprints

Open Access Article

**Morpho-Agronomic Characterisation of Runner Bean (*Phaseolus coccineus* L.) from South-Eastern Europe**

by Lovro Sinković<sup>1</sup>, Barbara Pipan<sup>1</sup>, Mirjana Vasić<sup>2</sup>, Marina Antić<sup>3</sup>, Vida Todorović<sup>3</sup>, Sonja Ivanovska<sup>4</sup>, Creola Brezeanu<sup>5</sup>, Jelka Šuštar-Vozlić<sup>1</sup> and Vladimir Meglič<sup>1</sup>

<sup>1</sup> Crop Science Department, Agricultural Institute of Slovenia, 1000 Ljubljana, Slovenia  
<sup>2</sup> Institute of Field and Vegetable Crops, 21000 Novi Sad, Serbia  
<sup>3</sup> Faculty of Agriculture, University of Banja Luka, 78000 Banja Luka, Bosnia and Herzegovina  
<sup>4</sup> Department of Genetics and Plant Breeding, Faculty of Agricultural Sciences and Food, 'Ss. Cyril and Methodius' University in Skopje, 1000 Skopje, North Macedonia  
<sup>5</sup> Vegetable Research and Developments Station Bacău, 600401 Bacău, Romania

Focal point for GL GR issues

Network of interest for GL links with other organizations

Fostering links between research, breeding communities and other users

Focal point for emergency actions and resolution of issues for GL GR in Europe

GROUP MISSION

Chittaranjan Kole Editor

**Genomic Designing for Biotic Stress Resistant Pulse Crops**

Springer

World Pulses Day "Pulses for a Sustainable Future"

Pulses are suitable to multiple cropping systems

Pulses increase the diversity of diets

Pulses improve soil biodiversity and fertility

Pulses enable consumers to access nutritious foods

We have the pleasure to invite you to join our VIRTUAL EVENT on February 10th 2023.

https://u06web.zoom.us/j/6302007719?pwd=U1hRURU5c0Vhckk2ZSdJbA1McjJyZD09

FAO Pulses Day

## GRANT SCHEME - SIXTH CALL - PHASE X

Acronym	Working Group(s)	Activity Coordinator	Date of approval	Proposal	Budget table	Budget in Euro	Letter of award
1 EURO-POTATOES	Potato	Veli-Matti Rokka	14 Feb 2023	PDF (520,9 KB)	PDF (521,1 KB)	€ 29,999.99	PDF (288,8 KB)
2 ExploDiv	Grain Legumes	Creola Brezeanu	1 Dec 2022	PDF (602,7 KB)	PDF (160,7 KB)	€ 28,600	PDF (250,8 KB)
3 forEVA	Grain Legumes	Creola Brezeanu	1 Dec 2022	PDF (873,8 KB)	PDF (114,7 KB)	€ 16,500	PDF (249,9 KB)
4 Garli-CCS	Allium; Cryopreservation; Documentation & Information	Manuela Nagel	1 Dec 2022	PDF (710,8 KB)	PDF (199,6 KB)	€ 59,997	PDF (300,5 KB)
5 INWHEATORY	On-farm Conservation & Management; Wheat	Lorenzo Raggi	1 Dec 2022	PDF (620,9 KB)	PDF (18,2 KB)	€ 30,250	PDF (324,3 KB)
6 Sylvestris	Vitis	Georgios Merkouropoulos	6 Dec 2022	PDF (442,3 KB)	PDF (197,2 KB)	€ 25,520	PDF (739,2 KB)
Total						€ 190,866.99	

## NETWORKING IN FRAME OF DIFFRENT PROGRAMS AND PROJECTS



VRDS, KIS, IPK, INIA



# Background the context behind the choice of this Activity



**EVA**

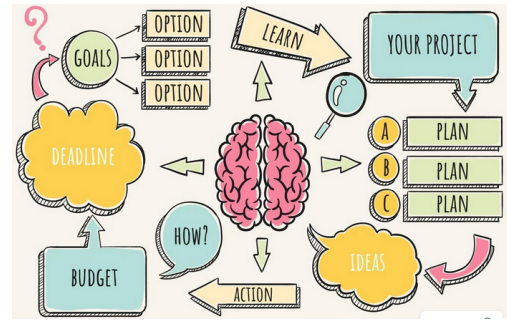
European Evaluation Network

the need of breeding resources and knowledge; gaps (low agronomic expertise, insufficient cooperation between stakeholders, non-competitive management of PGR), poor adaptation of protein plant cultivars in Europe

data, knowledge, materials, practices, that need to be largely implemented



# Activity: status, challenge, initiative, justification



## STATUS

- GB materials
- Advanced materials and available data from different projects
- Imperative need of integration and widely sharing to stakeholders along European agri-food chain.

Need of integration and widely sharing to stakeholders in European agri-food chain

## CHALLENGE

- optimization of the exploitation of GenRes in legumes breeding

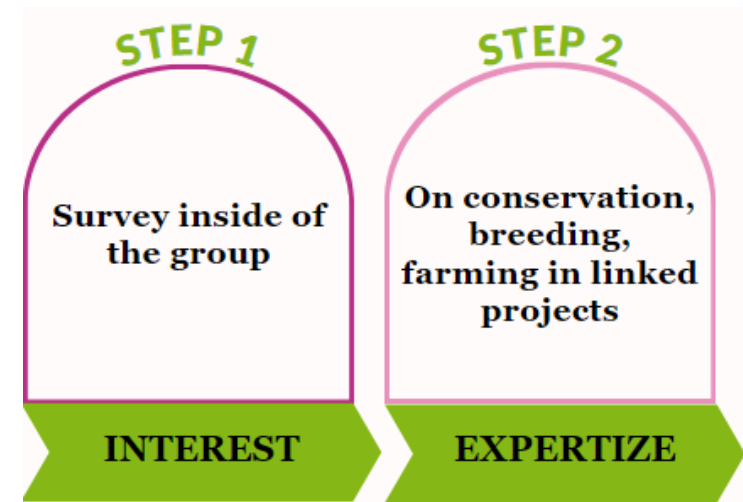
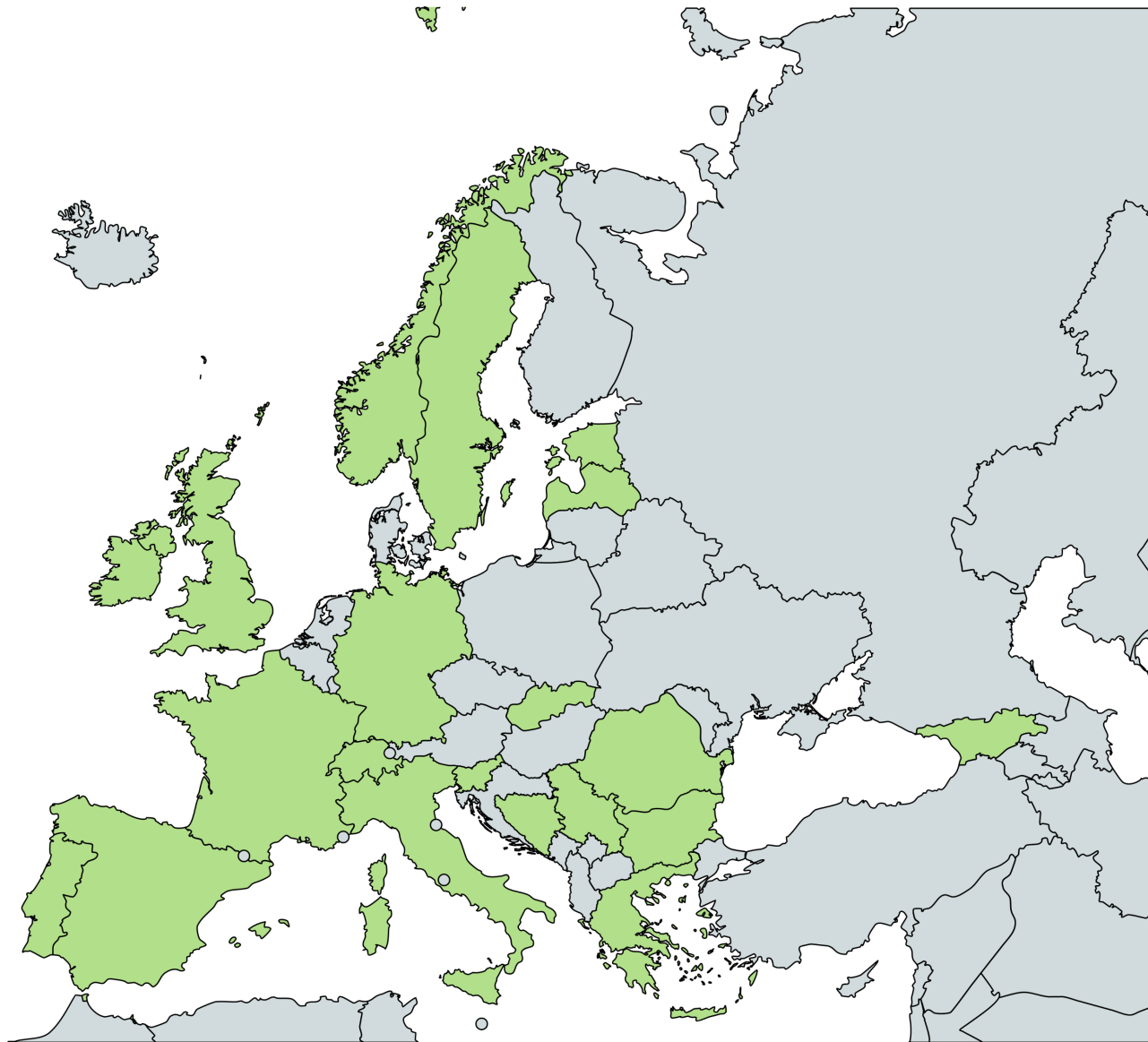
Agronomic performance and sustainability

## INITIATIVE

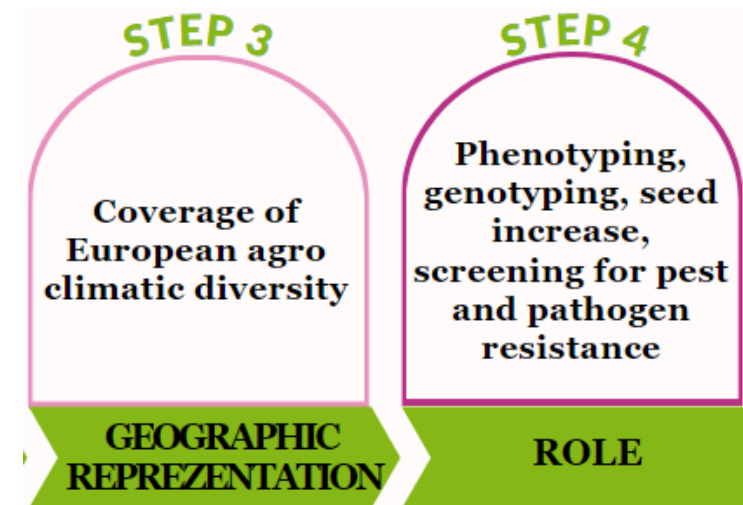
- to speed up the breeding gains
- Multi-actor approach

EVA-legume network

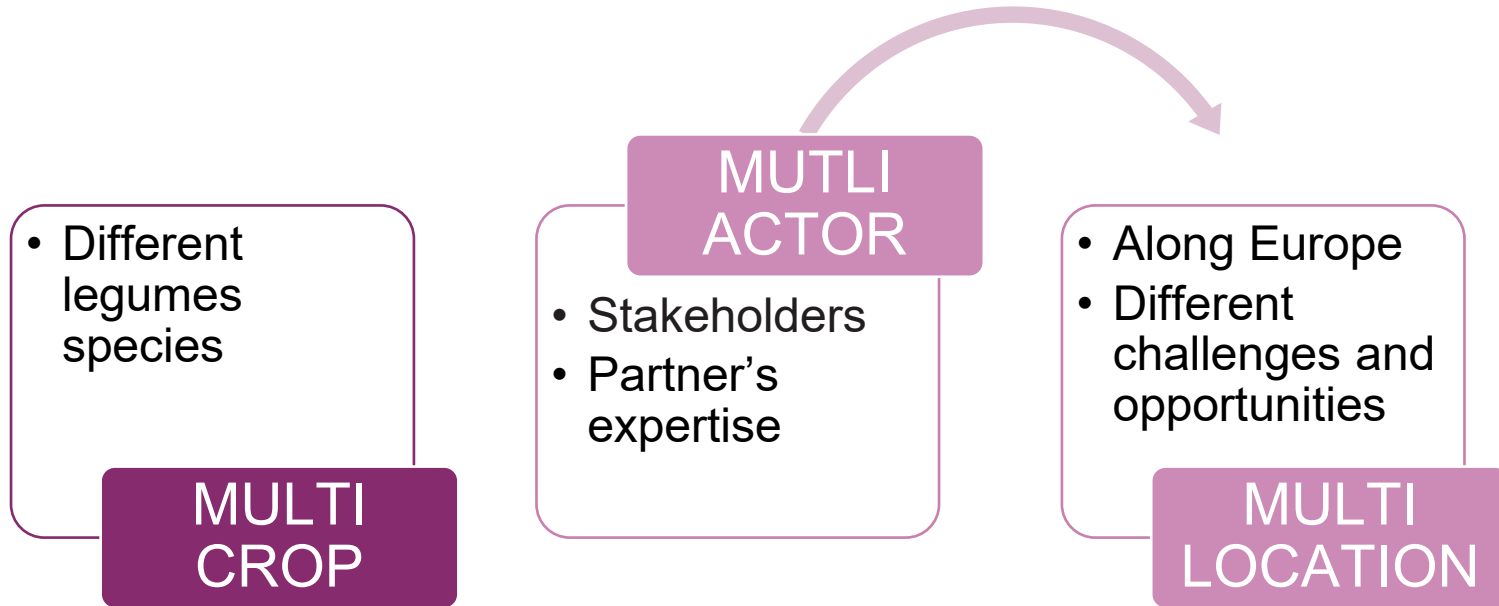
# Rationale for the choice of partners



## PARTNERS SELECTION FOREVA GRAIN LEGUMES



# Methodology or Approach:





# ForEVA workplan



## ACTION 1.

Survey for PGR national inventory and networking

D1.1

List of GrainLeg GenRes proposed for EVA network

D1.2

List of stakeholders that intend to support the EVA implementation (letters of commitment)

D2.1  
Set of EVA materials

D2.2  
Sets of traits prioritized

D2.3  
Sets of harmonized protocols

## ACTION 2.

Development of PGR collections, traits selection, protocols for investigation, EVA ID implementation

## ACTION 3.

Design of experiments, plans for data collection and integration

D. 3.1

Comprehensive list of locations and experiments

D4.1

Plan and workflow to ensure necessities in terms of seeds

## ACTION 4.

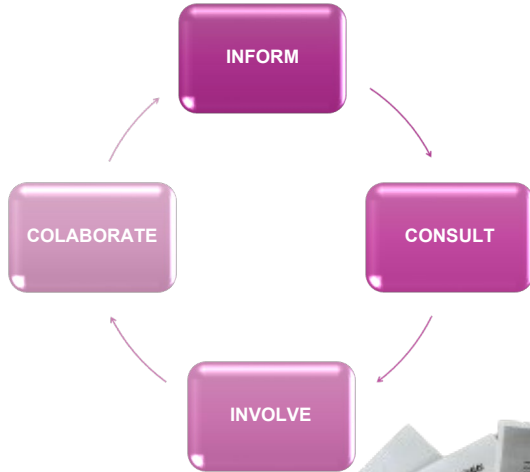
Plans for seed exchange and distribution

## ACTION 5.

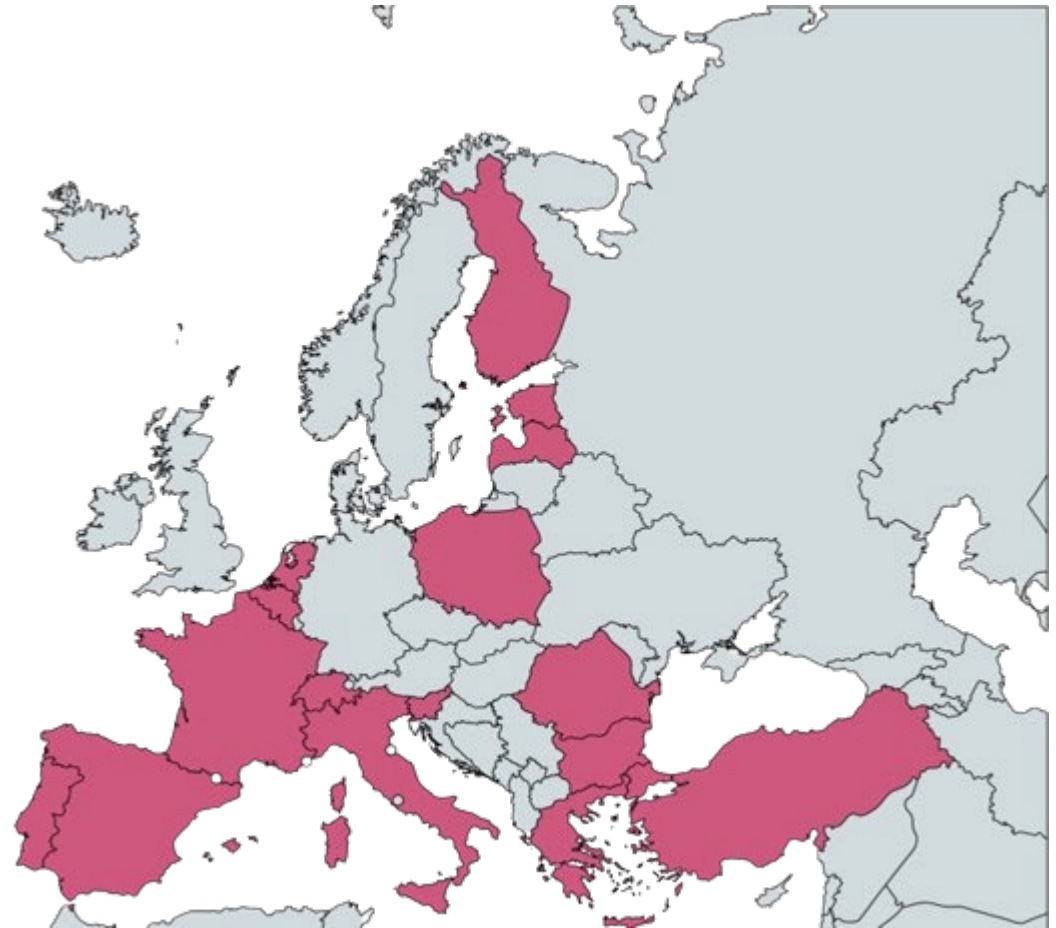
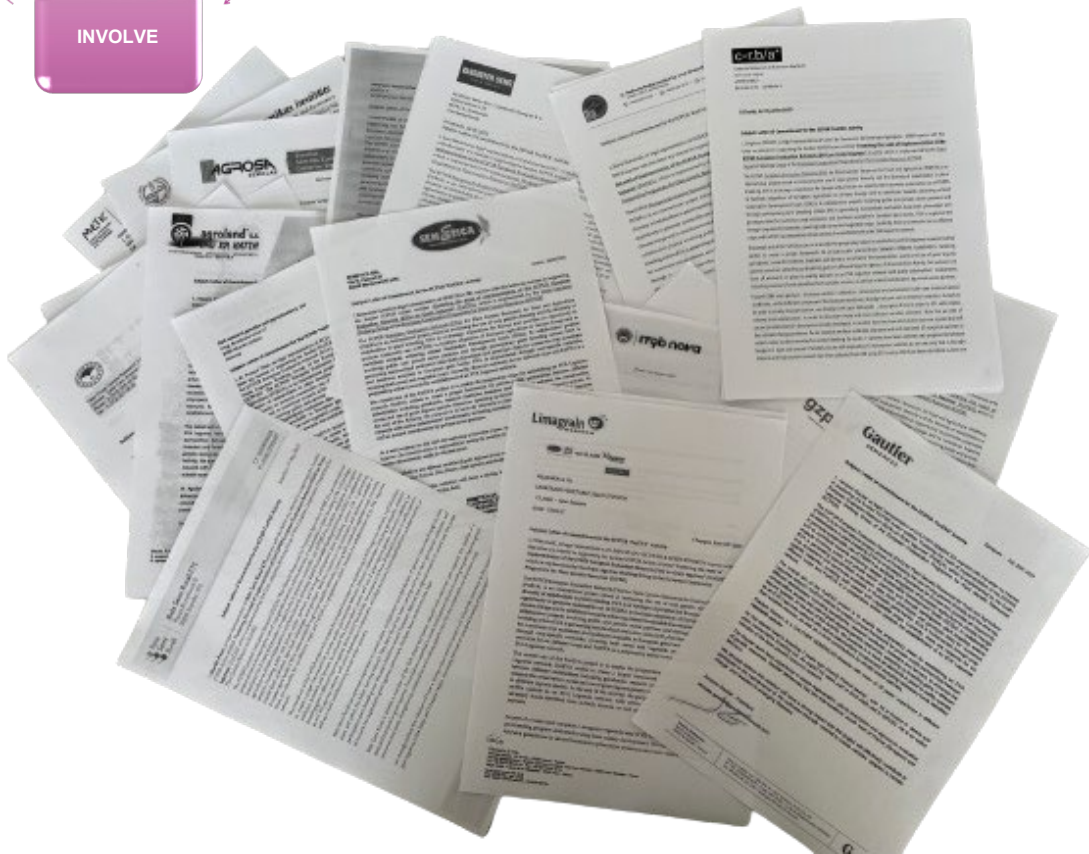
Management Dissemination Communication Stakeholder engagement



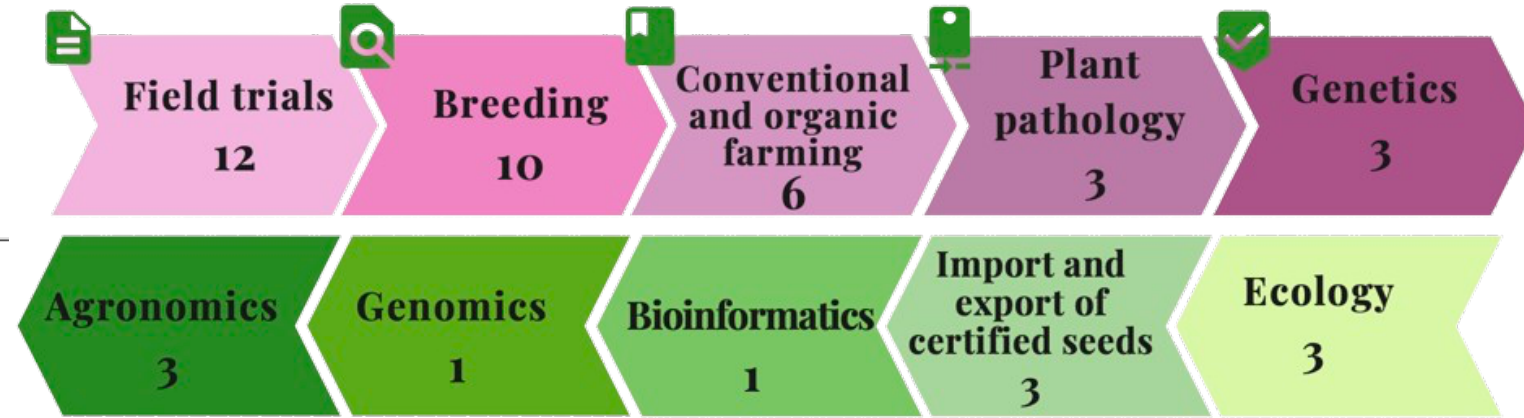
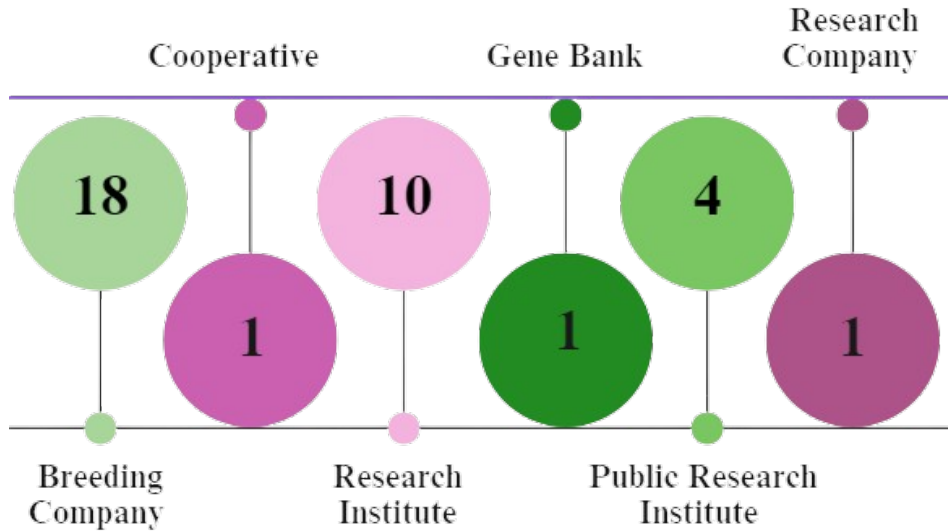
# Stakeholder's engagement



1. Supportive role in terms of straighten and consolidate the importance, the benefits and the impact of EVA.
2. Identify the needs, challenges and opportunities at different segments of Agri food chin.



# Stakeholder's engagement



# Why to join ForEVA

Partners are experienced and have background in

- **management of significant volumes** of phenotyping and genotyping data for a large variety of species as bean, chickpea, lentil, pea, lathyrus, lupinus and fava (INCREASE, BRESOV, CiLaKlima, PreLuteus, SPITFIRE) – this will have a positive impact on development of Actions 1, 2, 4.
- **screening for different traits** with breeding value (BRESOV, CiLaKlima, PreLuteus, SPITFIRE) related to performance in low input conditions and different tolerance and resistance – linked to Action 1, 2, 3
- expertise and background to **support and to improve diversity** (CROPDIVA, BRESOV, EUCLEG, INCREASE) – linked to Actions 2, 3, 4, 5.
- practices to stimulate **the use and the multiple benefits** of GrainLeg in agri-food chains (LEGATO, EUCLEG, BRESOV, INCREASE) – linked to Action 1 and Action 5.
- **capacity for networking** involving large variety of stakeholders (EUCLEG, INCREASE).

# Expected output related ECPGR Objectives

ForEva  
OUTPUT

- Operational EVA legumes network
- Frame for PPP

Output 5.1 European Evaluation Network for PGRFA developed

ForEVA  
OUTPUT

- Species and traits selection
- Location, resources for involvement

Output 4.3 Good practices for on-farm management and conservation and adding value promoted

ForEVA  
OUTPUT

- Bridging projects
- Financial resources identified

Output 4.4 Definition of Most Appropriate Areas (MAPAs) sites of onfarm cultivated plant diversity discussed and implemented

ForEVA  
OUTPUT

- Selected traits
- Harmonized protocols

Output 2.4 Users' expectations explored and functionalities of EURISCO increased

