



Intelligent Collections of Food Legumes Genetic Resources for European Agrofood Systems

Our Vision: to develop efficient and effective conservation tools and methods to foster agricultural biodiversity in Europe

Focusing on the food legumes chickpea, common bean, lentil and lupin. INCREASE will implement a new approach to conserve, manage and characterize genetic resources through participatory research.

<https://www.pulsesincrease.eu>

Objectives

- Improvement of management and sharing of **food legume genetic resources** data through optimised databases and easily accessible tools
- Production of a large amount of **high-quality genotypic** and **phenotypic data**
- Development of **Intelligent Collections** for the exploration of the genetic resources diversity and design of innovative conservation management approaches by undertaking a participatory citizen science experiment
- Development of new knowledge, such as **gene discovery** or **genomic prediction**, made easily available through a web-based searching and visualisation tool to identify appropriate sources of germplasm
- Development, test and dissemination of best practices for **dynamic management** of genetic resources across European and non-European institutions and initiatives
- Development of decentralised information technology approaches for **data sharing** and **germplasm conservation**

Partners



Chickpea
Cicer arietinum (2n=2x=16; ~740Mbp)

Common bean
Phaseolus vulgaris (2n=2x=22; ~520Mbp)

Lentil
Lens culinaris (2n = 14, ~4Gb)



White lupin
Lupinus albus (2n=50; ~450Mbp)

Andean lupin
Lupinus mutabilis (2n=48; ~930Mbp)

Call: H2020-Sustainable Food Security-2018-2020

Type of Action: Research and Innovation Action

Acronym: INCREASE

Duration: 60 months

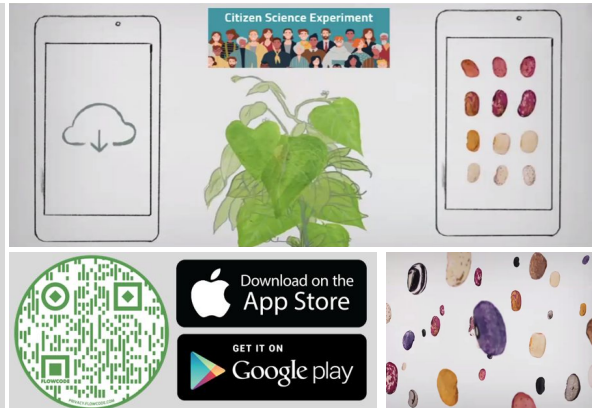
Start Date: 05/01/2020

Estimated Project Costs: € 8 826 824,50

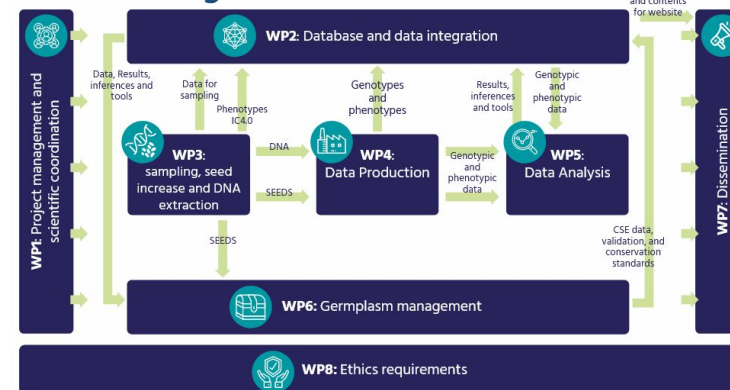
Requested EU Contribution: € 8 826 824,50

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Work Packages



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No: 862862.