



Participatory research for Food Legume breeding: the INCREASE stakeholder consortium

Roberto Papa

r.papa@univpm.it

www.pulsesincrease.eu

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Webinar 5 -Pushing the boundaries in legume plant breeding

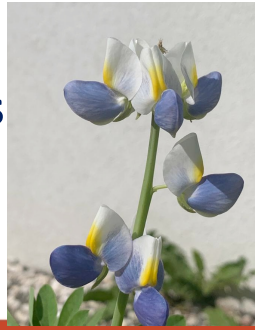


INCREASE
Intelligent Collections of Food-Legume Genetic
Resources for Agrofood Systems

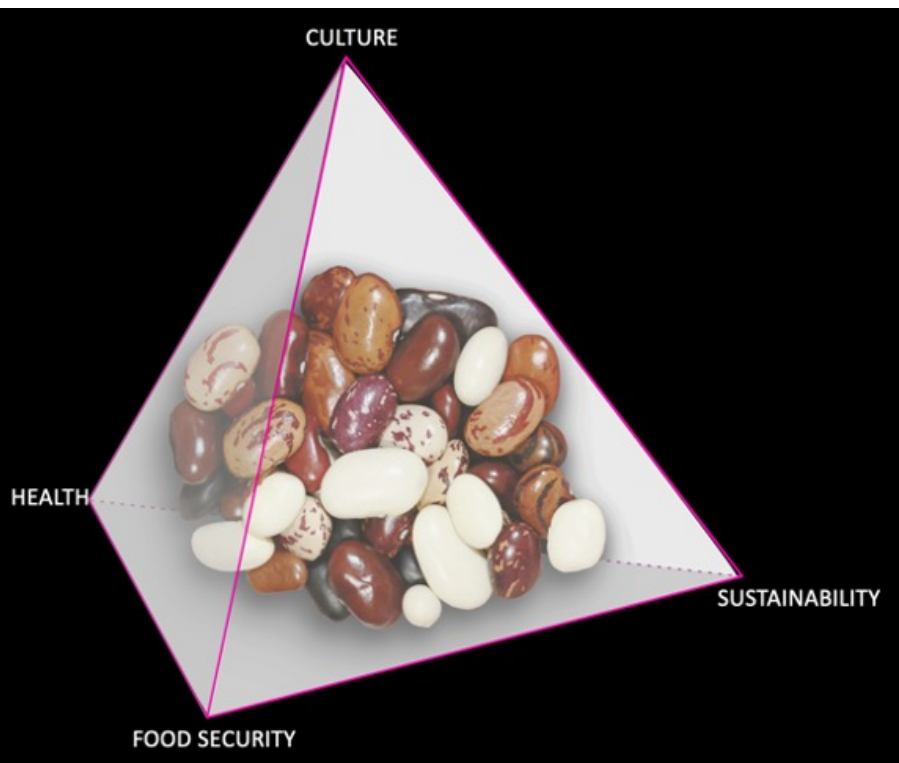


FOOD LEGUMES:

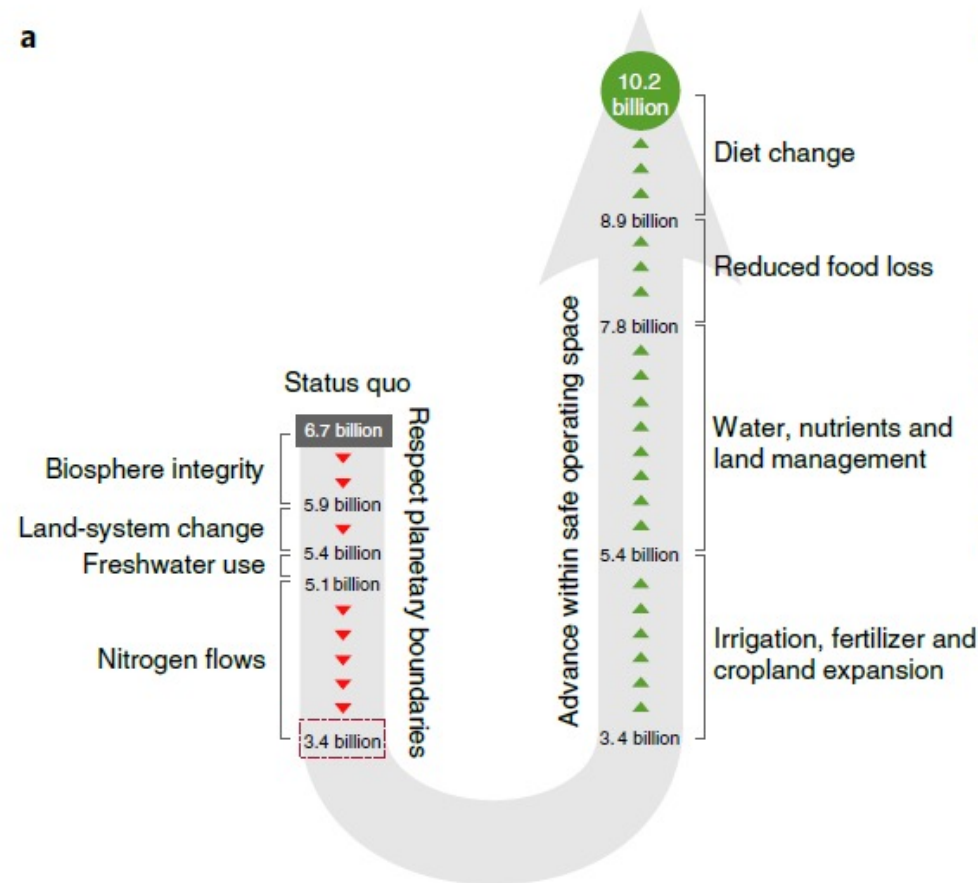
Feeding the world growing population respecting planetary boundaries



NATURE SUSTAINABILITY



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Stakeholder registration

The research project INCREASE has officially started on May 1st, 2020. Funded by European Union's Horizon 2020 research and innovation programme, it will run over 5 years.

INCREASE aims to enhance the management and use of crop genetic resources promoting the use of crop diversity in European agriculture. We will test innovative solutions focusing on four important Food Legumes chickpea, common bean, lentil and lupin. This will ease access to these crops and facilitate the use of their diversity, while developing new strategies for crop genetic conservation that could apply to other species.

The project relies greatly on active community engagement to achieve its ambitious goal. Besides running a [Citizen Science Experiment](#) from February 2021 with the purpose to test a novel decentralised approach to the conservation and management of genetic resources, INCREASE aims to bring together a wide range of expertise through a dedicated **Stakeholder Consortium**.

Are you a farmer, plant breeder, seed supplier or member of the food value chain? Are you a member of an NGO actively concerned with environmental, conservation, nutritional or agricultural issues? Are you running a school, association of citizens/students, gardeners' association or botanical garden? Are you a teacher, researcher or actively involved in other EU or national related initiatives? Or are you simply interested in

INCREASE		Your potential contribution and access			INCREASE	
Database establishment and data integration	Definition of phenotypic traits	Scientific contribution	Germplasm characterisation: To contribute set up a list of traits. A workshop for each species organized within the first 12 months of INCREASE (plant traits, seed traits)	Test and validation of the procedures	Evaluation of current data management and implementation of guidelines	Germplasm management
	Development of a data management application	Test of Data management app		Test of the web-browser portal Prototype	INCREASE intelligent collections conservation and best practices of germplasm management	
	Data collection and curation	Training workshop	Management practices assessment	Germplasm management		
	Development of a web-based portal	Test of portal applicability	participation and sharing know-how	Citizen science and decentralised conservation testing tools		
	Nutritional and Technological quality	Validation for adoption	Germplasm exploitation: Organisation of field network to assess the germplasm suitability (agronomy and quality), and evaluation of advanced lines potentially for variety registration. Multiplication of selected germplasm for end use assessment	Field show, conferences	Project Communication - Outreach Activities	Innovation-related activities
Data analysis and knowledge exploitation	Allele discoveries	Access and test of breeding tools		e-newsletter contribution (science translated in practice)	Dissemination	
	Genotype x Environment interactions and genomic predictions			Training activities (webinars, workshop, courses and visit)	Capacity building and training	
		Access to genetic resources		Sustainability Planning Workshop	IP and exploitation management	

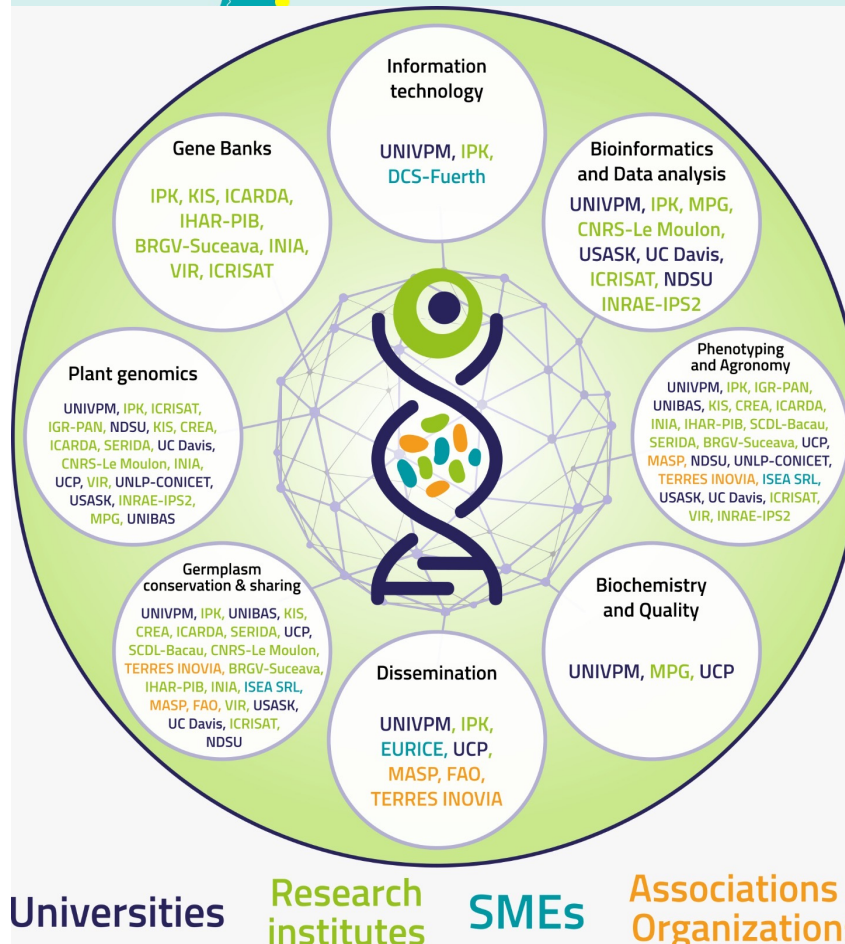
Stakeholder consortium

More than 500 registrations

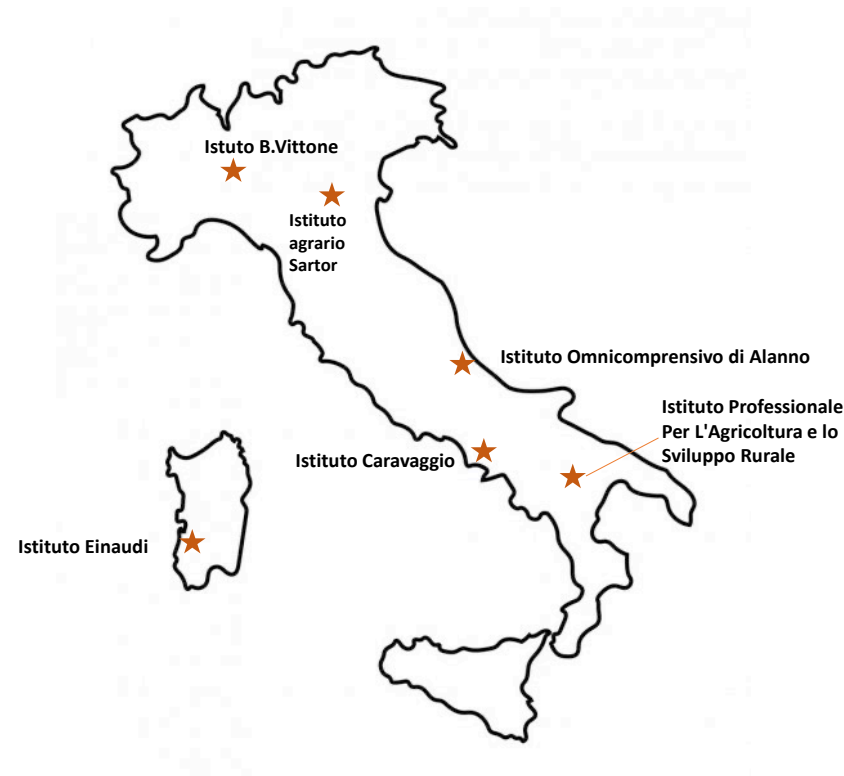


Intelligent Collections of Food Legumes Genetic Resources for European Agrofood Systems

Stakeholder Registration



High school (Technical school of agriculture) are conducting agronomic trial for **10 lines of chickpeas** and **10 lines of lentil** with plot of 10m^2 * 3 replicates in a complete randomize block design.



Istituto agrario Sartor (Castelfranco Veneto)

'Istituto "Caravaggio" di San Gennaro vesuviano (Napoli)

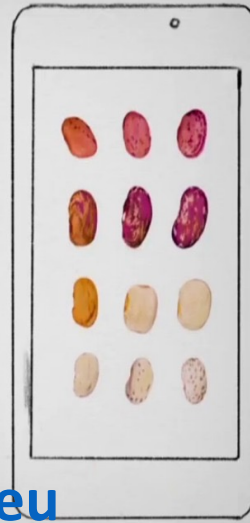
Istituto Omnicomprensivo di Alanno (Pescara)

Istituto Professionale Per L'Agricoltura e lo Sviluppo Rurale, di Lagopesole (Potenza)

IIS B. Vittone di Chieri (Torino)

IIS EINAUDI di Senorbi (Cagliari)

Citizen Science Experiment



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THANK YOU!!