List of projects with potential relevance for LIVESEED

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Document Version

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1. Project list of running national, EU and international project and networks with potential relevance for LIVESEED

EU Project	Topic
ACROPOLIS www.acropolis-eu.com Coordinator: RIVM, NL FP7 2009 – 2011	ACROPOLIS (Aggreate and Cumulative Risk of Pesticides: an on-line integrated Strategy) developed a framework for cumulative and aggregate risk assessment of pesticides that is scientifically sound and accessible for all actors involved in the European risk assessment and risk management.
AFINET www.agforward.eu Coordinator: University de Santiago de Compostela, ES Horizon 2020 Thematic Network 2017-2019	AFINET (AgroForestry Innovation NETworks) is a thematic network aimed to foster the exchange and the knowledge transfer between scientists and practitioners in the agroforestry. AFINET will act at EU level in order to take up research results into practice in order to promote agroforestry (AF). AF is a climate-smart agriculture practice of deliberately integrating woody vegetation (trees or shrubs) with crop and/or animal systems to benefit from the resulting ecological and economic interactions.
AGFORWARD www.agforward.eu Coordinator: Cranfield University, UK FP7 2014 – 2017	AGFORWARD (Agro FORestry that Will Advance Rural Development) aimed to promote agroforestry practices in Europe that will advance rural development i.e. improved competitiveness, and social and environmental enhancement.
BigPicnic www.bigpicnic.net Coordinator: BGCI, UK Horizon 2020 2016 – 2019	BigPicnic brings together the public, scientists, policy-makers and industry to help tackle the global challenge of food security. Botanic gardens, with help from other partners, will co-create a range of exhibitions and participatory events with people from all walks of life, to generate dialogue and build greater understanding of food security.
BREEDCAFS www.breedcafs.eu Coordination: CIRAD, FR Horizon 2020 2017 - 2021	BREEDCAFS (Breeding Coffee for AgroForestry Systems) will design and test hybrid coffee varieties which are well adapted to agro forestry systems (AFS) and show robustness against biotic and abiotic stresses. Gene by environment interactions will be assessed in a wide range of environments and low-input management inherent to AFS. Farmers' experiences with new hybrids (profitability, social acceptance) will inform the farm assessment and the breeding strategy.
BRESOV www.bresov.eu Coordinator: University of Catania, IT Horizon 2020 2018 - 2022	BRESOV (Breeding for Resilient, Efficient and Sustainable Organic Vegetable production) seeks to explore the genetic diversity of three vegetable crops, broccoli, snap bean and tomato and to improve the competitiveness of these three crops in an organic and sustainable environment. The projects aim is to increase the plants' tolerance to biotic and abiotic stresses and adapt the varieties to the specific requirements of organic and low-input production processes.
CAPSELLA www.capsella.eu Coordinator: ATHENA, GR Horizon 2020 2016 - 2018	CAPSELLA (Collective Awareness PlatformS for Environmentally-sound Land management based on data technoLogies and Agrobiodiversity) develops innovative ICT solutions tailored to the needs of all food, field and seed related actors engaging in agrobiodiversity. Above all, we harness the power of open data to help communities innovate. CAPSELLA has a bottom-up, participatory approach, to ensure ICT responds to your needs.

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CERERE www.cerere2020.eu Coordinator: University of Reading, UK Horizon 2020 2016 - 2019	CERERE (CEreal REnaissance in Rural Europe) aims at sustaining and promoting innovative approaches emerging in Europe from a multitude of practices, research results and co-innovative solutions in organic and low-input cereal food systems to introduce and manage agrobiodiversity in cereal production. These innovations are rooted in local traditions, knowledge and food culture.
COBRA www.cobra-div.eu Coordinator: ORC, UK CORE Organic II 2013 -2016	COBRA (Coordinating Organic Plant Breeding Activities for Diversity) aims to support and develop organic plant breeding and seed production in Europe with a focus on increasing the use and potential of plant material with High genetic Diversity (Hi-D), such as Composite Cross Populations (CCPs) and other genotype mixtures through coordinating, linking and expanding existing breeding and research in cereals (wheat and barley) and grain legumes (pea and faba bean).
DIVERSIFOOD www.diversifood.eu Coordinator: INRA, FR Horizon 2020 2015 – 2019	DIVERSIFOOD (Embedding crop diversity and networking for local high quality food systems) will evaluate and enrich the diversity of cultivated plants within diverse agroecosystems to increase their performance, resilience and quality through a multi-actor approach. By integrating existing experienced networks and using specific and relevant cases across Europe, the project will strengthen “food culture” to improve economic viability of local chains resulting in a greater diversity of produce with a cultural identity.
DIVERSify www.plant-teams.eu Coordinator: The James Hutton Institute, UK Horizon 2020 2017 - 2021	DIVERSify (Designing InnoVative plant teams for Ecosystem Resilience and agricultural Sustainability) aims to provide a novel system for sustainable food production and nutrition, resource-efficient production and value chains, and healthier diets. The projects aims to optimise the performance of crop species mixtures to improve yield stability, reduce pest and disease damage, and enhance stress resilience in agricultural systems.
DYNAVERSITY www.dynaversity.eu Coordinator: ARCADIA, BE Horizon 2020 2017 – 2020	DYNAVERSITY (DYNAmic seed networks for managing European diversity) will increase capacities for in-situ conservation of plant genetic resources by mapping and bringing together all stakeholders involved in the dynamic management of plant genetic resources. The project will develop new management and governance models, establish new forms of seed networking and exchange and promote socio-environmental practices.
ECOBREED www.ecobreed.eu Coordinator: KIS, SI Horizon 2020 2018 - 2022	ECOBREED (Increasing the Efficiency and Competitiveness of Organic crop BREEDing) will improve the availability of seed and varieties suitable for organic and low- input production. Activities focus on buckwheat, wheat, potato and soybean, selected for their potential contribution to increase competitiveness of the organic sector.
EXCALIBUR www.ecobreed.eu Coordinator: CREA Horizon 2020 2019 - 2024	Excalibur plans to deepen the knowledge on soil biodiversity dynamics and its synergistic effects with prebiotic and probiotic approaches in horticulture. New multifunctional soil microbial inoculants and bio-effectors will be tested on three model crops (e.g. tomato, apple, strawberry) to enhance the positive roles of native biodiversity across Europe.
FarmersPride www.farmerspride.eu Coordinator: University Birmingham, UK Horizon 2020 2017 - 2020	Farmers’ pride establishes a collaborative network for in situ conservation of plant genetic resources in Europe. The Project will enhance existing knowledge of European landraces and crop wild relatives, showcase how these resources can be effectively secured and managed, and establish a modus operandi for the effective linkage of in situ conservation and farmer or breeder based utilisation.

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FSO www.sad.inra.fr/en/All-the-news/Farm-Seed-Opportunities-European-project Coordinator: INRA, FR FP6 2007 - 2010	FSO (Farm Seed Opportunities) aimed at enhancing the diversity of seeds available in Europe, by integrating the concepts of "landraces", "local adaptations" and "genetic erosion". The project assessed the blends impact on wheat supply chain, and the feasibility of their adoption, from farmers' community to consumers.
G2P-SOL www.g2p-sol.eu Coordinator: ENEA, IT Horizon 2020 2016 - 2021	G2P-SOL (Linking genetic resources, genomes and phenotypes of Solanaceous crops) brings together main European and International gene banks hosting germplasm of four major Solanaceous food crops: potato, tomato, pepper and eggplant. It will create a 'genetic blueprint' of main accessions of these crops and catalogue their genetic diversity and extent of duplication.it will further characterise in detail 'core collections' for each species in order to capture the potential stored in the global gene pools.
HealthyMinorCereals www.healthyminorcereals.eu Coordinator: Crop Research Institute (CRI), CZ FP7 2013 - 2018	HealthyMinorCereals aimed at enhancing the exploitation of five of the so-called 'minor cereal' species - spelt, rye, oat, einkorn and emmer. This project has an integrated approach to diversify the genetic base, improve stress resistance, agronomic management and nutritional/processing quality of minor cereal crops for human nutrition in Europe.
InnoVar Coordinator: AFBI, UK Horizon 2020 2019 - 2024	Innovar (Next generation variety testing for improved cropping on European farmland) will develop next generation plant variety testing by building tools and models that augment current practices capitalising on advances in genomics, phenomics, imaging technologies and machine learning. The InnoVar database, populated with historical and de novo genotypic, phenotypic and environmental data will facilitate model development and evaluation for revision of DUS and VCU processes. The concept of High Performance Low Risk (HPLR) variety as novel branding will be develop for wheat as case study.
INVITE Coordinator: INRA, FR Horizon 2020 2019 - 2024	INVITE aims to foster the introduction of new varieties with high resilience towards biotic and abiotic stresses, high adaptation to sustainable management practices, and high resource use efficiency (RUE), through improved variety testing and better information to stakeholders on variety performance under a range of contrasting production conditions. This will be exemplified by a broad range of major crop species that represent the main features of propagation, food and feed uses, and exhibit significant breeding activity in the EU.
NUE-CROPS https://research.ncl.ac.uk/nefg/nuecrops/page.php?page=1 Coordinator: University of Newcastle, UK FP7 2009 - 2014	NUE-CROPS goal was to reduce the environmental impact of crop production, while maintaining or improving current yield and quality levels and increasing sustainability and competitiveness of European crop production systems. The project addressed this challenge by generating new knowledge about nutrient use efficient (NUE) crop varieties and cropping system with the focus on wheat, maize, oilseed rape and potatoes.
OK-Net Arable www.ok-net-arable.eu Coordinator: IFOAM EU, BE	OK-Net Arable will improve the exchange of knowledge among farmers, farm advisers, and scientists to increase productivity and quality in organic arable cropping all over Europe. The project will achieve it through synthesizing the

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Horizon 2020 2015 - 2018	practical and scientific knowledge already available about organic arable farming, creating a European network of farmer innovation groups to exchange experiences and test the education material developed in the project, and creating an online platform for knowledge exchange across Europe devoted to organic farming.
ORGAFARM www.organicdatanetwork.net Coordinator: ORC, UK FP7 2012 -2014	
OrganicDataNetwork www.organicdatanetwork.net Coordinator: ORC, UK FP7 2012 -2014	OrganicDataNetwork "Data network for better European organic market information" aims to increase the transparency of the European organic food market through a better availability of market intelligence about the sector to meet the needs of policy makers and actors involved in organic markets. It determined the diversity of wheat varietal traits and their plasticity in blend, and assessed whether the combination of traits allows a better use of resources.
OSCAR https://web5.wzw.tum.de/oscar/index.php?id=2 Coordinator: University of Kassel, DE FP7 2012 -2016	OSCAR (Optimising Subsidiary Crop Application in Rotations) fostered more sustainable systems of conservation agriculture. It developed improved conservation tillage systems, based on subsidiary crops, used both as living and dead mulch, that increase duration of soil coverage, diversity of species within the plant canopy and rotation and minimise the need for soil tillage, tillage intensity and the need for fertilisers, pesticides and herbicides and in dry climates, conserve water and reduce need for irrigations.
PRODIVA http://projects.au.dk/coreorganicplus/research-projects/prodiva/ Coordinator: Aarhus University, DK FP7 CORE Organic Plus 2015 - 2018	Crop diversification and weeds (PRODIVA) will improve the understanding of crop diversification and its impact on weeds. The project seeks to produce results and guidelines for the application of crop diversification measures that will improve the management of weeds. Crop and variety mixtures as well as cover crop seletion are tested for weed suppression
ReMIX www.remix-intercrops.eu Coordinator: INRA, FR Horizon 2020/ SERI 2017 - 2021	ReMIX (Redesigning European cropping systems based on species MIXtures) exploits the benefits of species mixtures to design more diverse and resilient arable cropping systems, making use of agro ecology principles and adopting the EIP-AGRI multi-actor approach.
SOLIBAM www.solibam.eu Coordinator: INRA, FR FP7 2010 -2014	SOLIBAM (Strategies for Organic and Low-input Integrated Breeding and Management) aimed to develop specific and novel breeding approaches integrated with management practices to improve the performance, quality, sustainability and stability of crops adapted to organic and low-input systems. The project was founded on the concept of diversity.
TomRes www.tomres.eu Coordinator: University of Torino, IT Horizon2020 2017 - 2020	TOMRES (A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model) will select tomato rootstocks and scions tolerating combined stress, while retaining fruit quality and yield, taking advantage of innovative screening approaches. Novel below-ground and hormone linked resilience traits will be identified. TOMRES will test and optimise sustainable crop management strategies and the use of rootstocks more suited to water and nutrient uptake from the soil.

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TRADITOM www.traditom.eu Coordinator: CSIC, SS Horizon 2020 2015 - 2019	TRADITOM (Traditional tomato varieties and cultural practices) aims to valorise the genetic diversity stored in traditional tomato varieties and to increase their resilience in order to prevent their steady replacement by higher yielding, hardier and often less tasty modern cultivars.
TREASURE www.treasure.kis.si Coordination: KIS, SI Horizon 2020 2015 -2019	Treasure (Diversity of local pig breeds and production systems for high quality traditional products and sustainable pork chains) aims at improving knowledge, skills and competences necessary to develop existing and create new sustainable pork chains based on European local pig genetic resources (local breeds).
WHEALBI www.whealbi.eu Coordinator: INRA, FR FP7 2014 -2019	WHEALBI (WHEAt and barley Legacy for Breeding Improvement) will combine genomics, genetics and agronomy to improve European wheat and barley production in competitive and sustainable cropping systems. It will generate original data from expressed genome sequences of 1000 wheat and barley genetic resources and provide models and tools to integrate these data in breeding programmes and crop management.
National Project	**Topic**
AWECOS Coordinator: Martin-Luther-University Halle-Wittenberg, DE Funded by BMBF in the framework programme IPAS 2015 - 2018	AWECOS (Assessment of wheat cropping systems from an economical, ecological and the society's perspective - the case of plant disease resistance breeding) aims at improving knowledge on benefits and costs of different breeding strategies for winter wheat to support the development of sustainable and efficient wheat cropping systems. Breeding and research efforts as well as ecological and socio-economic impacts for the whole society were assessed to increase production of healthy and secure food.
BRIWECS www.briwecs.de Coordinator: Leibniz University Hannover, DE Funded by BMBF in the framework programme IPAS 2014 - 2017	BRIWECS aimed at developing the basic for resilient winter wheat cultivars and cropping systems with the aim of increasing and stabilising yield in combination with improved resource efficiency. In the project yield and traits such as canopy and root architecture, adaption to abiotic stress, resistance against pests and diseases, nitrogen fertilization and plant protection, improved tillage and irrigation were assessed. The genetic knowledge was amplified and dense genetic marker maps were developed.
Groene Veredeling (Green Breeding) https://www.groeneveredeling.nl/en/Groene-Veredeling/Projects.htm Coordinator: Olga Scholten, Wageningen University. 2009-2019	New breeds for the preservation of regular and organic cultivation. Four crops are being examined in the Groene Veredeling program: • Potato (phytophthora resistance) • Leek (Thrips resistance) • Spinach (Reducing damping-off) • Sweet pepper (Aphid resistance)
IMPAC^3 www.uni-goettingen.de/en/impac%c2%b3/528191.html Coordinator: Georg-August University of Göttingen, DE	IMPAC^3 (Novel genotypes for mixed cropping allow for IMProved sustainable land use ACross arable land, grassland and woodland) developed plant breeding innovations and investigated in crop diversity in mixed cropping systems. Novel genotypes, provided by recent breeding activities, were examined for their potential to increase biomass production in mixed cropping systems across three domains of farming practice: arable land, grassland, and woodland.

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INSUSFAR https://web5.wzw.tum.de/insusfar/index.php?id=2 Coordinator: TUM, DE Funded by BMBF in the framework programme IPAS 2015 - 2020	INSUFAR (Innovative approaches to optimize genetic diversity for sustainable farming systems of the future) aims to contribute to a better understanding of the importance of increased genetic diversity of cultivated plant material for agricultural cultivation systems with reduced tillage and increased biological diversity. The project uses wheat and barley, results of previous breeding innovations will be investigated with regard to their effects in different cultivation systems in order to identify suitable variety types and structures for diversified cultivation systems.
Wheatamix www6.inra.fr/wheatamix_eng/ Coordinator: INRA, FR ANR funded project 2014 -2017	Wheatamix (Studying Wheat cultivar Mixtures to assess the impact of within-crop genetic diversity on the multifunctionality and resilience of cropping systems) studied agroecologic and socioeconomic impacts of wheat blends, and evaluated the potential of ecosystem resilience in a context of global change. Mixing wheat varieties were analysed to reinforce the sustainability of agricultural production in the context of global changes as well as the interactions between varieties.
Genetically diverse populations http://www.arei.lv/en/genetically-diverse-populations-of-self-pollinating-cereals-for-organic-farming-agronomic Coordinator: AREI, LV Latvian Science Foundation 2018 - 2021	Project on genetically diverse populations of self-pollinating cereals for organic farming: agronomic performance, effect of environment, and improvement techniques. The project will investigate agronomic traits important for organic farming as yield and its stability, competitive ability against weeds, nutrient use efficiency, disease resistance/tolerance and grain quality for barley and wheat composite cross populations (CCPs) in field trials under organic and conventional crop management systems.
Networks and other activities	**Topic**
Bioverita www.bioverita.org Founded 2010	Bioverita is committed to increasing the awareness and valorization of organically bred cultivars along the value chain. The label bioverita for organic bred seed, vegetables, fruits, cereals and processed products stands for organic right from the start. It provides a European platform to link organic breeders with organic farmers, processors, distributors, and consumers of organic products.
EC-LLD www.liberatediversity.org Founded 2012	EC-LLD (European Coordination for Let's Liberate Diversity!) is an international non-profit organisation with the objective to coordinate the positions and actions of national networks and other members to encourage, develop and promote the dynamic management of biodiversity on farm and in gardens.
ECO-PB www.eco-pb.org Founded 2001	ECO-PB (European Consortium for Organic Plant Breeding) is an European platform fostering organic plant breeding and promoting use of organic seed. It provides a platform for discussion and exchange of knowledge and experiences, supports organic plant breeding programmes and develops scientific concepts for organic plant breeding.
EIP-AGRI www.ec.europa.eu/eip/agriculture	EPI-AGRI (European Innovation Partnership for Agricultural Productivity and Sustainability) speeds up innovations through an interactive approach. It

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DG Agriculture and Rural Development, BG Since 2012	fosters competitive and sustainable farming and forestry that 'achieves more and better from less'. It contributes to ensure a steady supply of food, feed and biomaterials, developing its work in harmony with the essential natural resources on which farming depends.
EUCARPIA www.eucarpia.ch Founded 1959	EUCARPIA (European Association for Plant Breeding) aims to promote scientific and technical co-operation in the field of plant breeding in order to foster its further development. To achieve this purpose, the Association arranges and sponsors meetings to discuss general or specific problems from all fields of plant breeding and genetic research.
IFOAM ORGANICS INTERNATIONAL www.ifoam.bio Founded in 1972	IFOAM ORGANICS INTERNATIONAL is the only international umbrella organization for the organic world, uniting a diverse range of stakeholders contributing to the organic vision
IFOAM SEEDS PLATFORM www.ifoam.bio/en/sector-platforms/ifoam-seeds-platform IFOAM – Organics International, Founded in 2014	IFOAM SEEDS PLATFORM is a self-organized structure of IFOAM International bringing together individuals and organizations to move forward on the issue of seed and plant breeding in Organic Agriculture. The IFOAM Seed Platform is promoting networks across countries to exchange and promote organic plant breeding, seed sovereignty of farmers and sustainable seed systems and is organizing conferences on seed attached to the IFOAM Organic World Congress.
OSA https://seedalliance.org/ USA	OSA (The Organic Seed Alliance) advances ethical seed solutions to meet food and farming needs in a changing world. Their vision is to envision organic seed systems that are democratic and just, support human and environmental health and deliver genetically diverse and regionally adapted seed to farmers everywhere.

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