Smart innovations to improve the small ruminant sector

Small ruminant (SR) systems represent a considerable sector in the rural economies of the EU and associated countries. However, precision livestock farming (PLF) and digital technologies (DT) that improve SR farming are not yet widely used by farmers. The EU-funded Sm@RT project will boost understanding, knowledge transfer and uptake of existing advanced technologies in the SR sector, encourage a solutions-to-needs approach and identify technological gaps. It will develop a long-term and self-sustainable European and international network to promote the use of PLF and DT...
Objective

Rural economies across Europe, and associated countries, heavily rely on small ruminant (SR) systems, particularly in areas unsuitable for other alternative agriculture purposes. Despite recent advances in precision livestock farming (PLF) and digital technologies (DT) to improve farm practices, the SR sector shows a slow rate of practitioners’ uptake. There is a need to improve awareness and knowledge transfer on the potential of technology applications and return on investment. Sm@RT aims to improve understanding, awareness and uptake of the different technologies currently available to the SR sector, and further to facilitate ‘solutions to needs’ and identification of technology gaps.

The project will develop a long-term, self-sustainable European/International network to encourage the use of PLF and DT across the SR sector. The network will stimulate knowledge exchange and cross-fertilisation amongst a wide range of stakeholders, including drawing upon the valuable input and knowledge of farmers to farmers, to help increase uptake across the industry.

Sm@RT will focus on the use of PLF and DT across all types of sheep and goat management systems and environments. Sm@RT will use an original interactive transdisciplinary and multi-actor approach, relying on well-equipped demonstration farms (‘digifarms’) and innovative commercial farms to foster exchanges with the SR industry. This iterative step-by-step approach implicates relevant actors at the right level in the knowledge exchange process, thus boosting dissemination in a trusting environment and creating a dynamic to motivate IT companies to propose suitable PLF and DT solutions for the SR sector. Sharing of experiences across both local and transnational levels will create wider opportunities to collect and exchange knowledge, thus enabling Sm@RT to communicate and disseminate information and guidelines widely, increasing efficiency and sustainability of SR farming in Europe and beyond.

Fields of science

agricultural sciences › agriculture, forestry, and fisheries › agriculture
agricultural sciences › animal and dairy science › domestic animals › animal husbandry

Programme(s)
H2020-EU.3.2. - SOCIETAL CHALLENGES - Food security, sustainable agriculture and forestry, marine, maritime and inland water research, and the bioeconomy

MAIN PROGRAMME

H2020-EU.3.2.1.1. - Increasing production efficiency and coping with climate change, while ensuring sustainability and resilience
H2020-EU.3.2.1.3. - Empowerment of rural areas, support to policies and rural innovation
H2020-EU.3.2.2.3. - A sustainable and competitive agri-food industry
H2020-EU.3.2.4.1. - Fostering the bio-economy for bio-based industries
H2020-EU.3.2.1.4. - Sustainable forestry
H2020-EU.3.2.1.2. - Providing ecosystems services and public goods

Topic(s)


Call for proposal

H2020-RUR-2018-2020

See other projects for this call

Sub call

H2020-RUR-2020-1

Funding Scheme

CSA - Coordination and support action

Coordinator

SRUC
Net EU contribution
€ 376 182,00

Address
West Mains Road
EH9 3JG Edinburgh
United Kingdom

Region
Edinburgh
Eastern Scotland > Edinburgh

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,50

Participants (13)

INSTITUT DE L'ELEVAGE

France
Net EU contribution
€ 230,713.50

Address
Rue De Bercy 149
75012 Paris

Region
Ile-de-France > Ile-de-France > Val-de-Marne

Activity type
Research Organisations

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00

THIRD-PARTY

CENTRE INTERREGIONAL D'INFORMATION ET DE RECHERCHE EN PRODUCTION OVINELE MOURIER

France
Net EU contribution
€ 16,562.50

Address

4 of 11
ETABLISSEMENT PUBLIC LOCAL D'ENSEIGNEMENT ET DE FORMATION PROFESSIONNELLE AGRICOLES DE SAINT-AFRIQUE

Address
Route De Bournac
12400 Saint Affrique

Region
Occitanie > Midi-Pyrénées > Aveyron

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 0,00

ETABLISSEMENT PUBLIC LOCAL D'ENSEIGNEMENT ET DE FORMATION PROFESSIONNELLE AGRICOLE D'AUBENAS

Address
Le Mourier 1
87800 Saint Priest Ligoure

Region
Nouvelle-Aquitaine > Limousin > Haute-Vienne

Activity type
Other

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 0,00

ETABLISSEMENT PUBLIC LOCAL D'EINSEIGNEMENT ET DE FORMATION PROFESSIONNELLE AGRICOLE D'AUBENAS

Address
Route De Bournac
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Occitanie > Midi-Pyrénées > Aveyron

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 0,00
Net EU contribution
€ 16 562.50

Address
Chaussee De Saint Martin
07205 Aubenas Cedex

Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Ardèche

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 0.00

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NIBIO - NORSK INSTITUTT FOR BIOOKONOMI
Norway
Net EU contribution
€ 250 562.50

Address
Hoegskoleveien 7
1430 Aas

Region
Norge > Oslo og Viken > Viken

Activity type
Research Organisations

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 0.00

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TEAGASC - AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY

6 of 11
Ireland

Net EU contribution
€ 181,905,00

Address
Oak Park
R93 Carlow

Region
Ireland > Eastern and Midland > Dublin

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00

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DEBRECENI EGYETEM

Hungary

Net EU contribution
€ 109,312,50

Address
Egyetem Ter 1
4032 Debrecen

Region
Alföld és Észak > Észak-Alföld > Hajdú-Bihar

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00
AGRIS SARDEGNA - AGENZIA PER LA RICERCA IN AGRICOLTURA

Italy
Net EU contribution
€ 183,125,00

Address
Localita Bonassai Ss 291 Km 18 6
07100 Sassari

Region
Isole > Sardegna > Sassari

Activity type
Research Organisations

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Non-EU contribution
€ 0,00

INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT

France
Net EU contribution
€ 95,545,00

Address
147 Rue De L'universite
75007 Paris Cedex 07

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Research Organisations

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Non-EU contribution
€ 0,00
MOREDUN RESEARCH INSTITUTE

United Kingdom

Net EU contribution

€ 131 321,25

Address

Pentlands Science Park, Bush Loan
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Region

Eastern Scotland > East Lothian and Midlothian

Activity type

Research Organisations

Links

Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Non-EU contribution

€ 0,00

THE AGRICULTURAL RESEARCH ORGANISATION OF ISRAEL - THE VOLCANI CENTRE

Israel

Net EU contribution

€ 202 125,00

Address

Derech Hamcabim 68
50250 Bet Dagan

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Non-EU contribution

€ 0,00
EESTI MAALIKOOL

Estonia

Net EU contribution
€ 93,547,50

Address
Kreutzwaldi 1
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Region
Eesti > Eesti > Lõuna-Eesti

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00

IN EXTENSO INNOVATION CROISSANCE

France

Net EU contribution
€ 93,187,50

Address
Route Des Lucioles 2000 Thales B Sophia Antipolis
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Region
Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Alpes-Maritimes

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00