



**Bringing
the benefits
of space uses
to regions
and their citizens**

Groupe de Travail en Observation de la Terre

REGIONS, TECHNOLOGIES SPATIALES ET AGRICULTURE

Mardi 13 Juin 2017

Ilaria d'Auria

MISSION



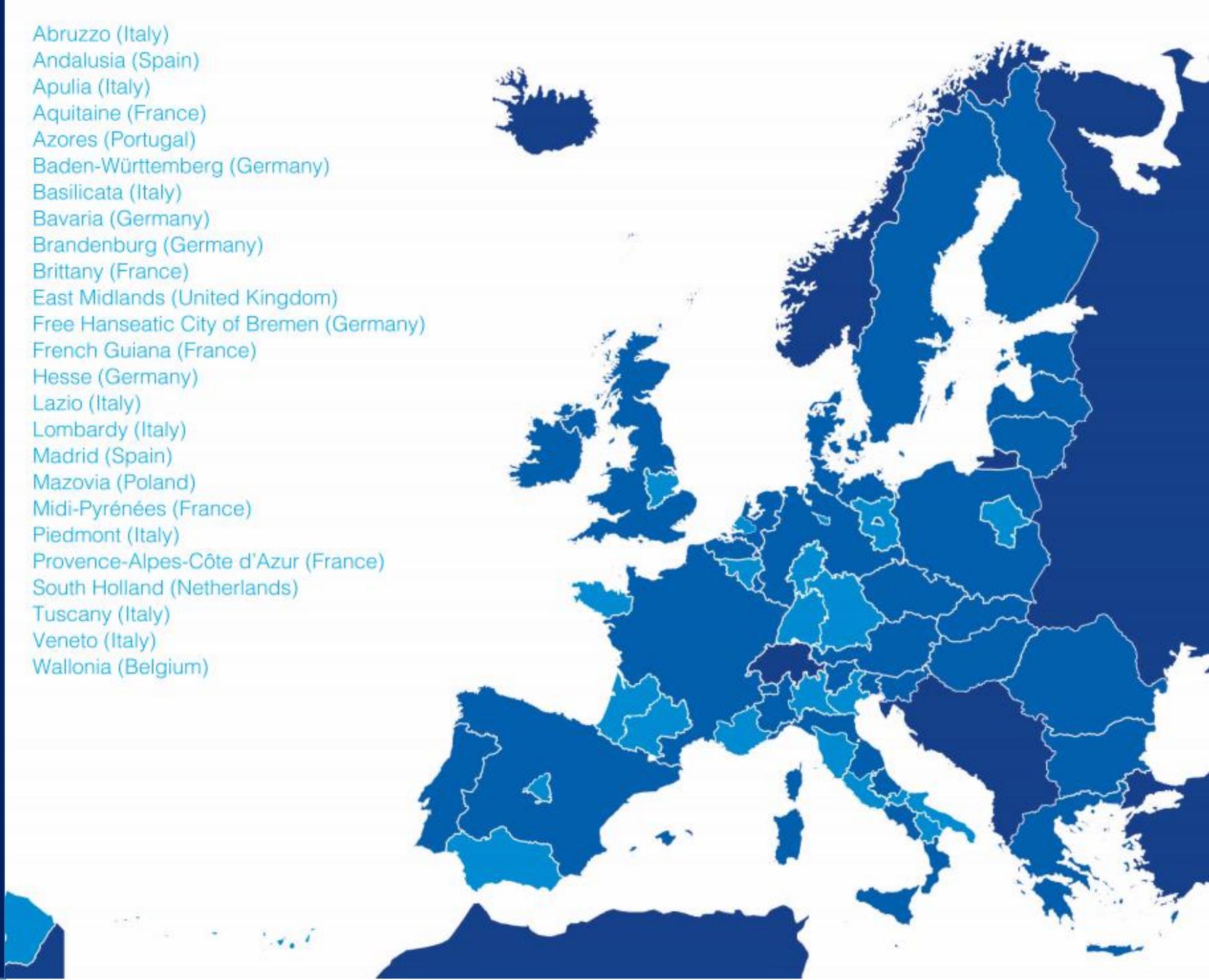
SPREAD THE **USE AND UNDERSTANDING** OF SPACE TECHNOLOGIES

ADVOCATE MATTERS OF REGIONAL SPACE USES

STIMULATE THE DEVELOPMENT OF SPACE **APPLICATIONS**

NEREUS
Network of
European
Regions
Using
Space
Technologies

Abruzzo (Italy)
Andalusia (Spain)
Apulia (Italy)
Aquitaine (France)
Azores (Portugal)
Baden-Württemberg (Germany)
Basilicata (Italy)
Bavaria (Germany)
Brandenburg (Germany)
Brittany (France)
East Midlands (United Kingdom)
Free Hanseatic City of Bremen (Germany)
French Guiana (France)
Hesse (Germany)
Lazio (Italy)
Lombardy (Italy)
Madrid (Spain)
Mazovia (Poland)
Midi-Pyrénées (France)
Piedmont (Italy)
Provence-Alpes-Côte d'Azur (France)
South Holland (Netherlands)
Tuscany (Italy)
Veneto (Italy)
Wallonia (Belgium)



NEREUS

Network of European Regions Using Space Technologies

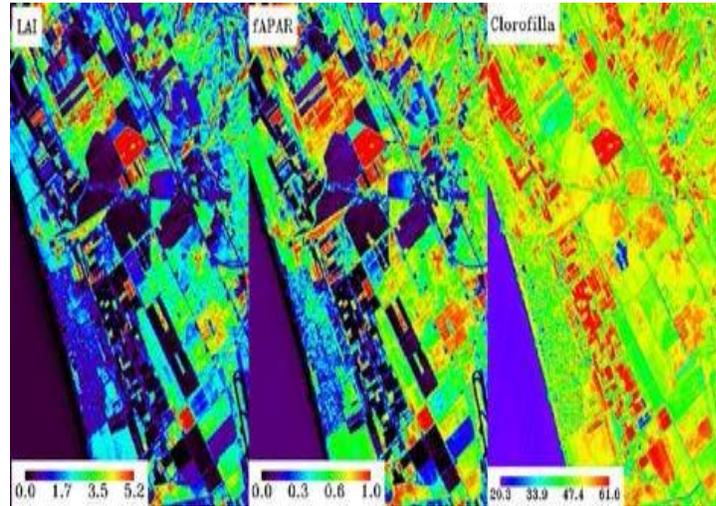
The NEREUS Associate Members (*)

AIPAS (Lazio)
 Airbus Defence and Space (Midi-Pyrénées)
 ALTEC SpA (Piedmont)
 Compagnia Generale per lo Spazio CGS SpA (Lombardy)
 Centre d'Etudes et d'Expertise sur les Risques, l'Environnement, la Mobilité et l'Aménagement CEREMA (Rhône-Alpes)
 Centre National d'Etudes Spatiales, CNES (Midi-Pyrénées)
 Centro de Vulcanologia e Avaliação de Riscos Geológicos, CVARG (Azores)
 Centro Interdipartimentale Studi e Attività Spaziali, CISAS, «G. Colombo» (Veneto)
 Confrasperto – Confcommercio Imprese per l'Italia
 Cité de l'Espace (Midi-Pyrénées)
 Consorzio per la Gestione di Coordinamento delle Attività di Ricerca Inerenti il Sistema Lagunare di Venezia, CORILA (Veneto)
 Consorzio per le Tecnologie per le Osservazioni della Terra e dei Rischi Naturali, TeRN (Basilicata)
 EDISOFT SA (Azores)
 EURAC Research European Academy (South Tyrol)
 European Satellite Service Provider, ESSP (Midi-Pyrénées)
 Fundación Aragonesa Para el Desarrollo de la Observación de la Tierra, FADOT (Aragón)
 FFG, Austrian Research Promotion Agency (City of Vienna)
 Geoville Information Systems (Innsbruck)
 GIS Bretagne Télédétection (BreTel) (Brittany)
 Institute for Electromagnetic Sensing of the Environment, IREA CNR UOS, Milan (Lombardy)
 Interbalkan Environment Center, i-BEC (Lagadas, Greece)
 Italian Cluster for Aerospace Technologies (Lazio)
 Observatoire Midi-Pyrénées (Midi-Pyrénées)
 Pole Mer Bretagne (Brittany)
 Politecnico di Milano, B.E.S.T. Department (Lombardy)
 Politecnico di Torino (Piedmont)
 Società Aerospaziale Mediterranea, SAM (Campania)
 SELEX Galileo (Lombardy)
 SES SA (Luxembourg)
 SpaceTec Partners (Brussels)
 Spanish Association of Telecommunication Engineers, AEIT (Madrid)
 STAE Foundation (Midi-Pyrénées)
 TECHNAPOLI (Campania)
 TELESPAZIO FRANCE (Midi-Pyrénées)
 Tele-Rilevamento Europa, T.R.E. (Lombardy)
 Thales Alenia Space
 Toscana Spazio (Tuscany)
 University of Bologna (Emilia Romagna)
 University of Turin (Piedmont)

NEREUS, since 2007.
Space on Earth, Space for all.



Usages



Données satellitaires



Information utile pour
les citoyens, les
décideurs, le secteur
privé, les organisations

- ⇒ **Connecter le spatial au non-spatial**
- ⇒ **Technologies spatiales au services de l'Agriculture**



How Can Space Make a Difference for the Agriculture Sector

Authors

Co-chairs of the Working Group EO/Copernicus:

Branka Cuca (POLIMI, Lombardy) and Valerio Tramutoli (UniBas, Basilicata)

Members of the Working Group EO/Copernicus:

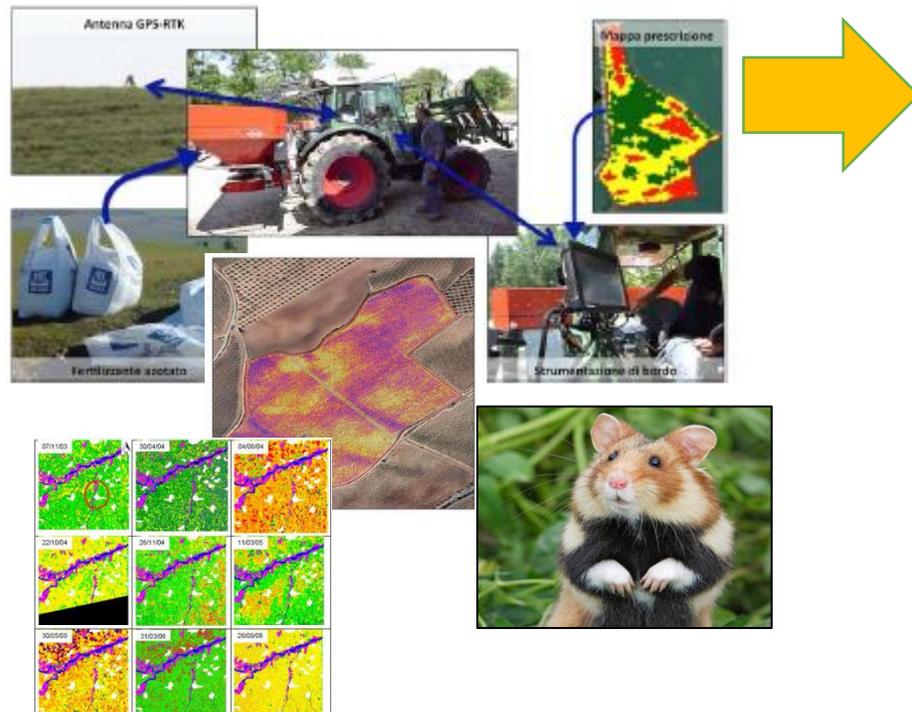
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Thomas Geist (FFG-ALR Austria)
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Svetlana Zolotikova (G-STEP, East-Midlands)

26 cas d'applications
régionales montrant
comment les
technologies spatiales
peuvent venir en soutien
de l'agriculture durable

▲
<http://www.nereus-regions.eu/sites/all/documents/Space4Agri.pdf>

How can Space Make a Difference for Agriculture Sector

Applications possibles identifiées (liste non exhaustive)

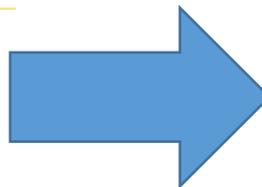


- Risk Management/System for insurance purposes
- Precision Agriculture and Precision Livestock
- Natural Hazards Protection
- Soil Degradation/Soil Quality
- Drought monitoring
- Irrigation management
- Landscape Protection and Land development
- Biodiversity Protection
- Rural Development
- Support to Local Administrations in charge of controls on eligibility of farmers for EU aids in Agriculture

WORKSHOP
Matera, Basilicate (IT)
2016



How Can Space Make a Difference
for the Agriculture Sector



Authors

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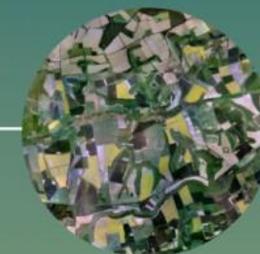
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WHEN SPACE MEETS AGRICULTURE

Fostering Interregional collaborations, investments and definition of user requirements

14 - 15 November 2016, Matera (ITALY)

#WSMA16



The workshop aims at promoting a better understanding of the significance and potential of Europe's space systems, Copernicus and EGNOS/Galileo, for the agricultural sector.

While introducing Rural Development Programmes of selected NEREUS regions and exploring opportunities to set synergies for the development of space applications for the agriculture sector, it will present the main strands of the European Agriculture Policy and more generally link the space community to the agriculture community.

The workshop targets farmers, policy makers, entrepreneurs and researchers from both the agriculture and the space sector.

A dedicated brokerage event will enable matchmaking between participants through bilateral meetings scheduled in advance.

- EARTH OBSERVATION
- RISK MITIGATION
- SATELLITE NAVIGATION
- CROP MONITORING
- RURAL DEVELOPMENT PROGRAMS
- IRRIGATION PLANNING

The event will be in English and Italian.

Registration for the workshop and brokerage event are mandatory on www.nererus-regions.eu/SpaceMeetsAgriculture

Deadline for registration to workshop and brokerage event: 09.11.2016 (12.00 CET)



Conclusions du WORKSHOP

(1)

- Partir des besoins concrets des agriculteurs, du secteur agricole et des décideurs responsables de ce secteur
- Un grand nombre de solutions spatiales sont déjà disponibles
 - ⇒ Les obstacles à leur usage et diffusion sont à explorer
- Une promotion plus forte de ces opportunités est nécessaire
- Reconnaissance de l'importance de développer des projets forts basés sur des collaborations inter-regionales
- Education et Formation
- L'imagerie satellitaire n'est pas bon marché pour un agriculteur – importance de trouver des nouveaux modèles économiques, de construire des liens avec des coopératives, des associations européennes

Conclusions du WORKSHOP

(2)

- Besoin de plus de feedback de la part de la communauté des agriculteurs (besoins), plus de dialogues entre secteurs des politiques publiques et décideurs
- Construction de partenariats entre des acteurs importants à niveau régional et européen: NEREUS, COPA COGECA, ERIAGG, S3 AGROFOOD PLATFORM
- Systèmes spatiaux OT/Copernicus (surtout Sentinel 1 & 2): améliorer de façon importante les mécanismes de contrôle de l'allocation des fonds européens pour l'agriculture



COPERNICUS UPTAKE FRAMEWORK CONTRACT

Commission
Européenne

(1)





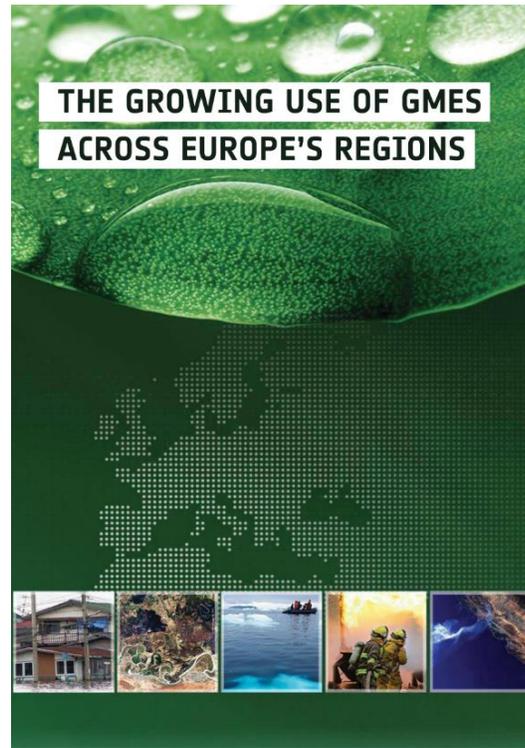
COPERNICUS UPTAKE FRAMEWORK CONTRACT

Commission
Européenne

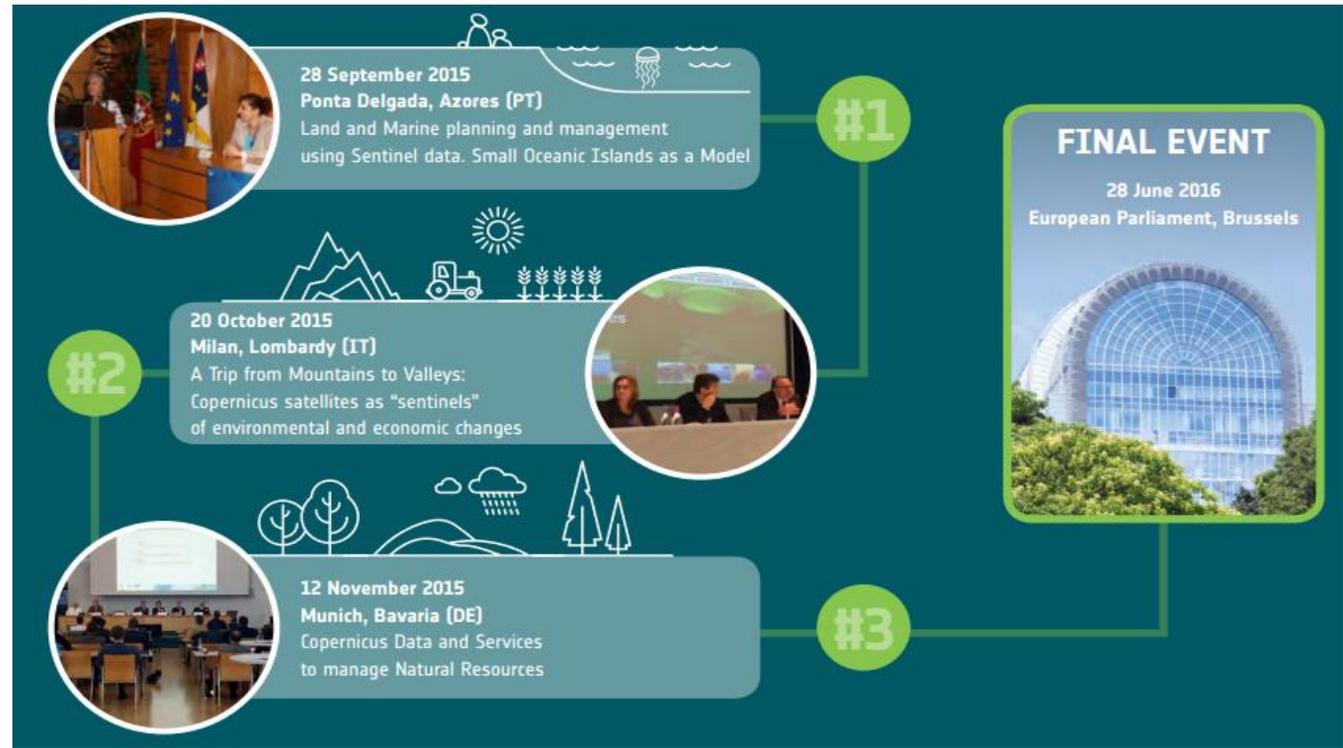
(2)



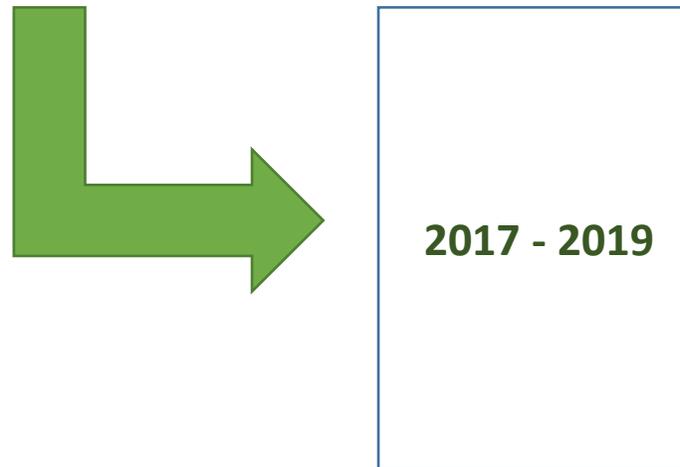
AGRICULTURE!

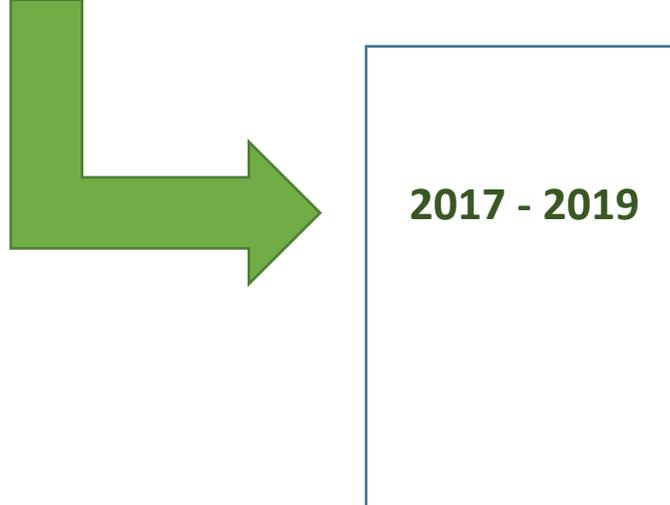


2010 - 2012



2014 - 2016





- ARTICLES à soumettre (AGRICULTURE un des thèmes)
- ARTICLES à évaluer (Focus sur autorités locales et régionales)
- RECOMPENSES
 - Promotion gratuite: présence sur publication qui sera largement distribuée
 - Visibilité: présence au Parlement Européen lors de l'évènement de lancement
 - Echanges de bonnes pratiques: organisation de workshops interrégionaux



MERCI!

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