

# HORIZON 2020



The Malta Council for  
**Science & Technology**



MINISTRY FOR EDUCATION AND EMPLOYMENT  
GREAT SIEGE ROAD, FLORIANA, MALTA



PARLIAMENTARY SECRETARIAT  
FOR RESEARCH, INNOVATION, YOUTH AND SPORT

STEPHEN MICALLEF

H2020 ICT NCP

# what is HORIZON 2020?



A fund of 80 billion € [2014-2020]

A core part of Europe 2020 Strategy, the Innovation Union & European Research Area

It aims to respond to economic crisis, address people's concerns, & strengthen EU's global position

A **SINGLE PROGRAMME** bringing together 3 separate programmes / initiatives [FP7, CIP, EIT];

**COUPLING RESEARCH TO INNOVATION;**

**CHALLENGE-BASED APPROACH** with a focus on societal challenges faced by EU society;

**SIMPLIFIED ACCESS**, open to companies, universities, institutes in all EU countries & beyond.



# PRIORITIES

*what is H*

## EXCELLENT SCIENCE

- **European Research Council**  
Frontier research by the best individual teams (ERA)
- **Future and Emerging Technologies**  
Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie Actions**  
Opportunities for training and career development
- **Research Infrastructures (Including e-infrastructure)**  
Ensuring access to world-class facilities

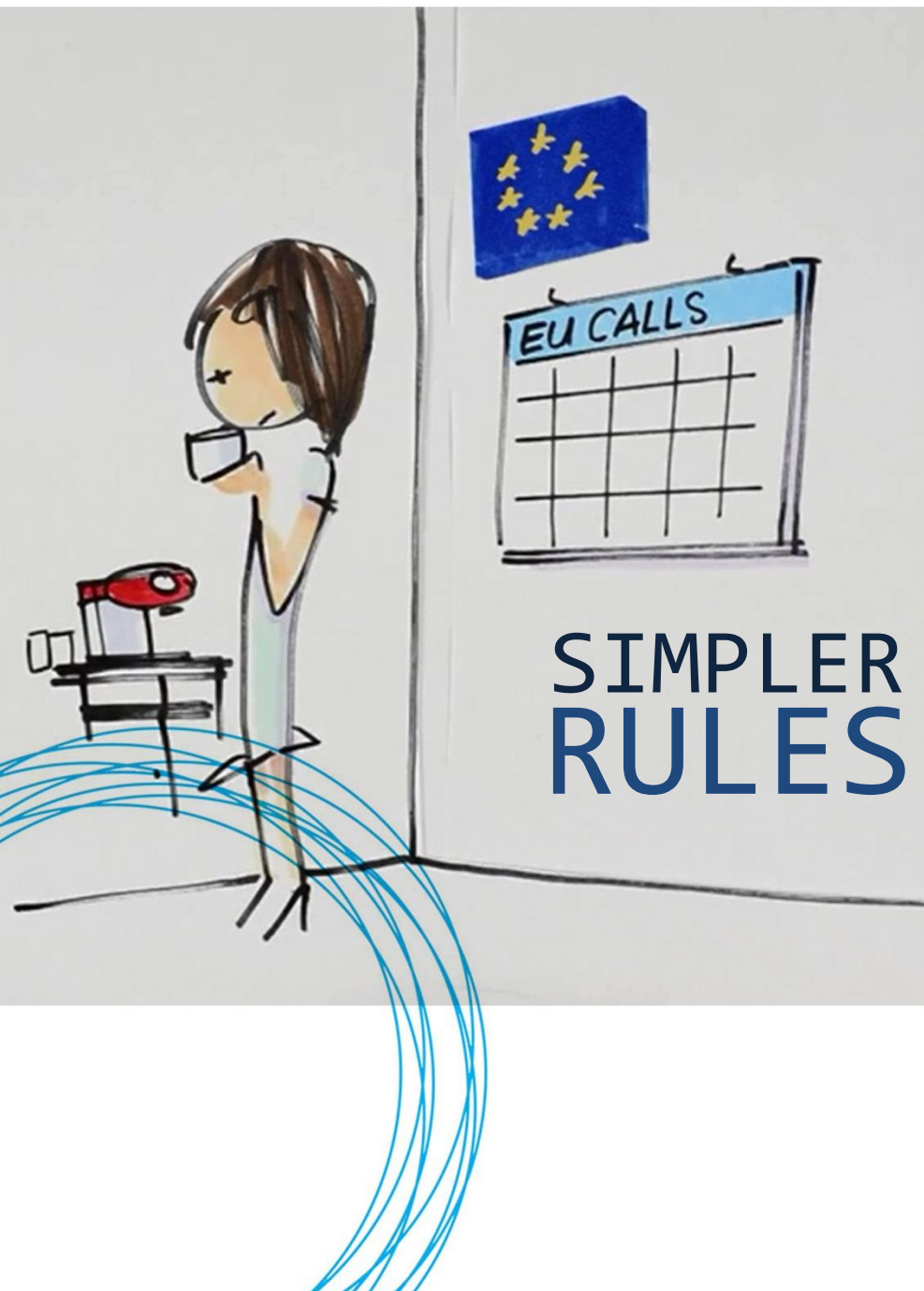
## INDUSTRIAL LEADERSHIP

Leadership in enabling and industrial technologies

- **ICT**
- **Nanotechnologies materials, biotechnologies, manufacturing**
- **Space**
- **Access to risk finance**  
Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**  
Fostering all forms of innovation in all types of SMEs

## SOCIETAL CHALLENGES

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research, and the bio-economy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, resource efficiency and raw materials**
- **Europe in a changing world – inclusive, innovative, reflective societies**
- **Secure Societies**



A single set of rules

One project - one funding rate

International participation

Simpler rules for grants

**Simple evaluation criteria:**  
Excellence - Impact -  
Implementation (Excellence only  
for ERC)

**New forms of funding aimed at  
innovation:** pre-commercial  
procurement, inducement prizes,  
dedicated loan and equity  
instruments

**Fewer, better targeted controls  
and audits**

**Improved rules on intellectual  
property**

*Beyond the Rules: further simplified  
provisions in the Grant Agreement and  
implementing procedures to facilitate  
access to Horizon 2020 (e.g. common IT  
platform).*

Type of Action	Funding Rate
Research & Innovation Actions	100%
Innovation Actions	70% or 100% for non-profit legal entities
Coordination & Support Actions	100%
SME Instrument Phase 1	€50,000 lump sum
SME Instrument Phase 2	70% funding: €0.5m - €2.5m
Fast Track to Innovation Pilot	70% funding: up to €3m

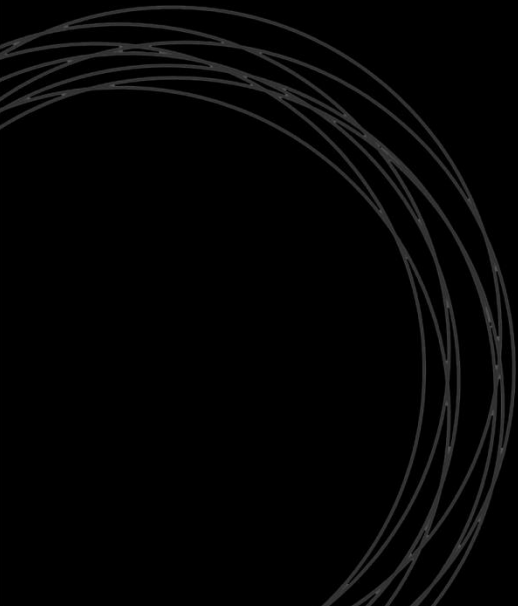


25% Indirect Costs [Lump Sum]

# Horizon 2020: A General Overview

watch video at:

<https://www.youtube.com/watch?v=CimJI88c4fE>



# HORIZON 2020 NCP

Inform & raise awareness  
Signpost & provide feedback  
Advise, assist & train clients  
Help to find partners  
Vet proposals

**NETWORK**





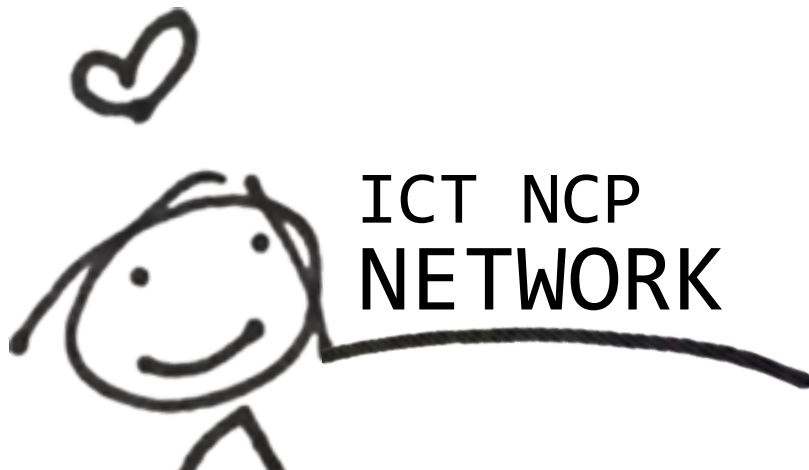
# Ideal-ist

[www.ideal-ist.eu](http://www.ideal-ist.eu)

Your Worldwide ICT  
Support Network

- View Partner Searches
- Launch a New Partner Search
- Opportunity finder
- Find your Representative

**Ideal-ist** addresses ICT companies and research organizations worldwide wishing to find project partners for a participation in the Horizon 2020 program of the European Commission. Ideal-ist offers a unique and quality-labelled Partner Search and other services helping to ease participation in Horizon 2020. Learn more [About ideal-ist](#)



ICT NCP  
NETWORK



**Ideal-ist**  
www.ideal-ist.eu

Your Worldwide ICT  
Support Network

Tools and Services

Toolbox

National DB

Partnerships

Opportunity finder

ICT in H2020

Horizon 2020 Advanced  
Computing > Opportunity finder

Horizon 2020 Energy

Horizon 2020 Future Internet

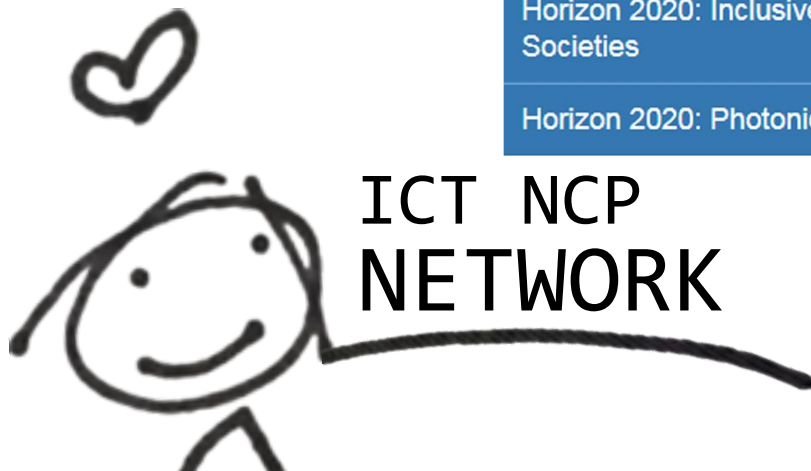
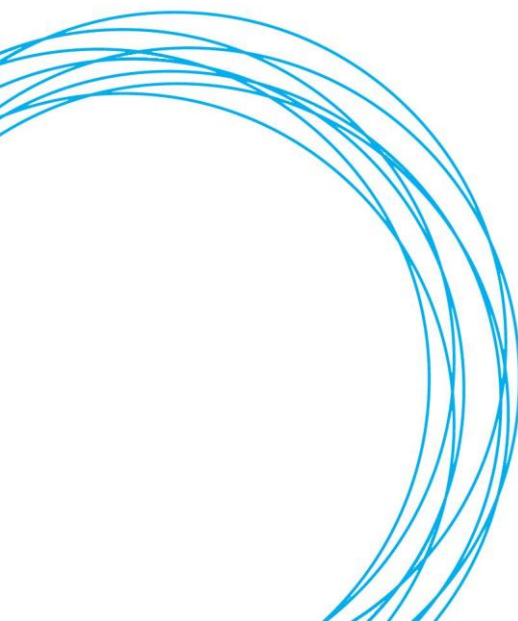
Horizon 2020 Robotics

Horizon 2020 – As far as the  
Eye Can See

Horizon 2020: Cross-Cutting  
Activities

Horizon 2020: Inclusive  
Societies

Horizon 2020: Photonics



ICT NCP  
NETWORK



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### Partner search

Proposal Name

ID

Key Words

Country

Call Identifier

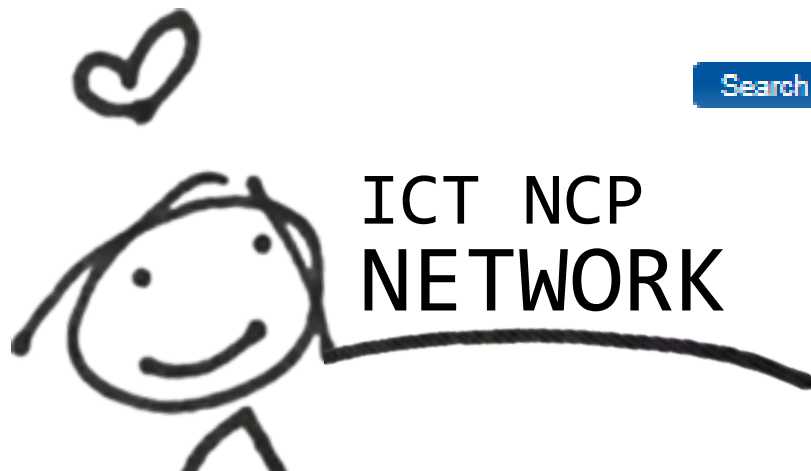
Topic

Type of Action

Evaluation Scheme

Search

Clear Form





# Ideal-ist

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## QA label Partner search

PS ID	Proposal Name	Publish date	Call	Objective	Country	Quality Label	Status
PS-AT-94107	SiMAX	22/01/2015	H2020-ICT-2015	ICT 19 - 2015: Technologies for creative industries, social media and convergence	Austria	QA	Open ✓
PS-RO-93888	ONE4ALL	22/01/2015	H2020-HEALTH-PHC-2015	PHC 25 – 2015: Advanced ICT systems and services for Integrated Care	Romania	QA	Open ✓
PS-IT-94229	LIFETIME: muLti-propose Interactive persona For Intelligent Multi-sensorial IEarning	22/01/2015	H2020-ICT-2015	ICT 20 - 2015: Technologies for better human learning and teaching	Italy	QA	Open ✓
PS-IL-94029	IoT-aided Robotic Swarms	07/01/2015	H2020-ICT-2015	ICT 30 - 2015: Internet of Things and Platforms for Connected	Israel	QA	Open ✓



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## SiMAX

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Reply to partner search

### PROJECT OVERVIEW

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**PS ID:** PS-AT-94107

**Status:** Open

**Date of last Modification:** 22/01/2015

**Date of Publication:** 22/01/2015

**Call Identifier:** H2020-ICT-2015

**Topic:** ICT 19 - 2015: Technologies for creative industries, social media and convergence

**Type of Action:** Research & Innovation Actions

**Evaluation Scheme:** One stage

**Closure Date:** 14/04/2015



The overarching objective of the project is generation of intelligent methods and tools in the context of avatar based video production for various applications in creative industries.

Main focus of signtime GmbH is to develop a system for semi-automatic translation from spoken and written language into sign language. Potential fields of applications are television and internet.



# RESEARCH & INNOVATION

## Participant Portal



European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

# Welcome to the Research and Innovation Participant Portal

### About the Participant Portal:

The Participant Portal is your entry point for the electronic administration of EU-funded research and innovation projects. It hosts services for managing proposals and projects throughout their lifecycle.

The Participant Portal supports activities funded mainly by the following EU programmes:

- 7th Framework Programme for Research and Technological Development (FP7)
- Competitiveness and Innovation Framework Programme (CIP)

### Using the Participant Portal:

As a **guest user**, browse the public pages to:

- search for funding opportunities
- download guidance and legal documents
- search for the participant identification code (PIC) of an organisation
- contact the FP7 support services and browse the FAQ for guidance on the Participant Portal tools

As a **registered user**, benefit from personalised services for proposal submission, negotiation, and project management.



WHATS NEW



FUNDING OPPORTUNITIES



HOW TO PARTICIPATE?



WORK AS AN EXPERT



ACCESS MY PERSONAL AREA



INFORMATION AND SUPPORT



# RESEARCH & INNOVATION

## Participant Portal

**BETA VERSION 4**

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

- Calls
  - Horizon 2020
  - COSME
- Search Topics
- Call Updates
- Other Funding Opportunities
- Previous Framework Programmes (FP7 & CIP)

### HORIZON 2020 CALLS

FUNDING GUIDE

66 results

- Specific Programme:
- Excellent Science
  - Industrial Leadership
  - Societal Challenges
  - Spreading excellence and widening participation
  - Science with and for society

#### Filter options

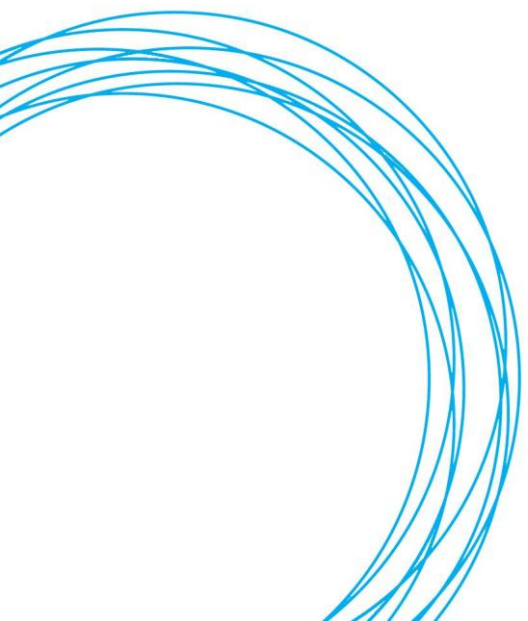
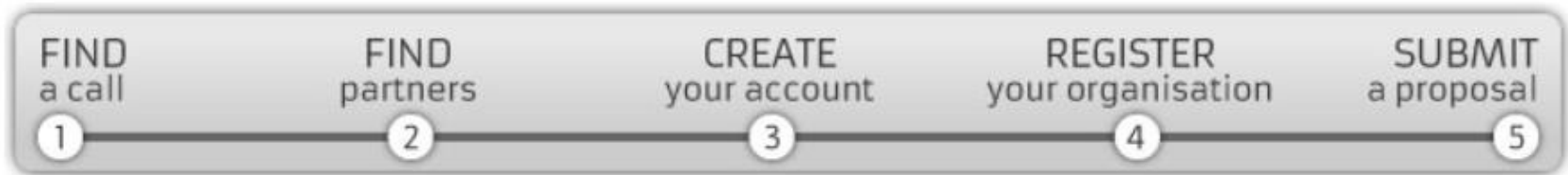
- Type:
- Calls for proposal
  - Calls for tender
- Status:
- Open calls
  - Closed calls
  - Forthcoming calls

Sort by:  Publication date  Deadline  Title  Call ID

<p><b>EXCELLENT SCIENCE</b> <small>call for proposals</small></p> <p>Developing new world-class research infrastructures</p> <p>H2020-RIDEV-2014/2015</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-03-12</p>	<p><b>INDUSTRIAL LEADERSHIP</b> <small>call for proposals</small></p> <p>Nanotechnologies, Advanced Materials and KET support</p> <p>H2020-NMK-2014/2015</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-03-12</p>	<p><b>SOCIETAL CHALLENGES</b> <small>call for proposals</small></p> <p>Sustainable Food Security</p> <p>H2020-SFS-2014/2015</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-03-18</p>
<p><b>SOCIETAL CHALLENGES</b> <small>call for proposals</small></p> <p>Water Innovation: Boosting its value for Europe</p> <p>H2020-WATER-2014/2015</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-03-18</p>	<p><b>EXCELLENT SCIENCE</b> <small>call for proposals</small></p> <p>Marie Skłodowska-Curie Innovative Training Network</p> <p>H2020-MSCA-ITN-2014</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-04-08</p>	<p><b>SOCIETAL CHALLENGES</b> <small>call for proposals</small></p> <p>Mobility for Growth</p> <p>H2020-MG-2014/2015</p> <p>PUBDATE 2013-12-11 DEADLINE 2014-03-18</p>
<p><b>EXCELLENT SCIENCE</b> <small>call for proposals</small></p> <p>FET Open - fostering novel ideas</p> <p>H2020-FETOPEN-2014/2015</p>	<p><b>INDUSTRIAL LEADERSHIP</b> <small>call for proposals</small></p> <p>Biotechnologies</p> <p>H2020-BITEC-2014/2015</p>	<p><b>SOCIETAL CHALLENGES</b> <small>call for proposals</small></p> <p>Blue Growth: Unlocking the potential of the oceans</p> <p>H2020-BG-2014/2015</p>

- Stay informed
- RSS feed
  - iCal
  - Email notification

# How to Participate

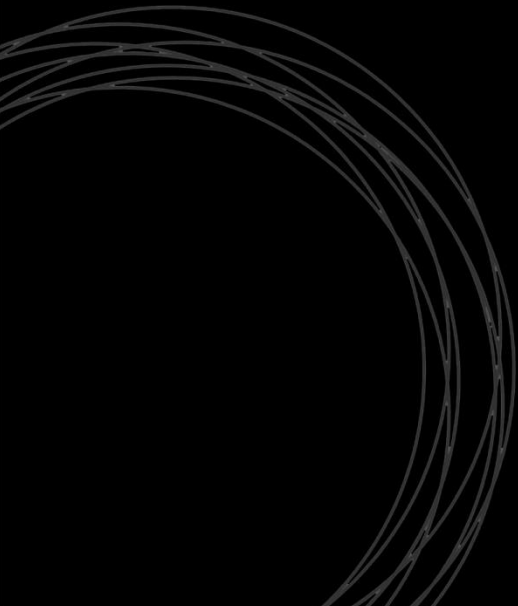




# Horizon 2020: How to Apply

watch video at:

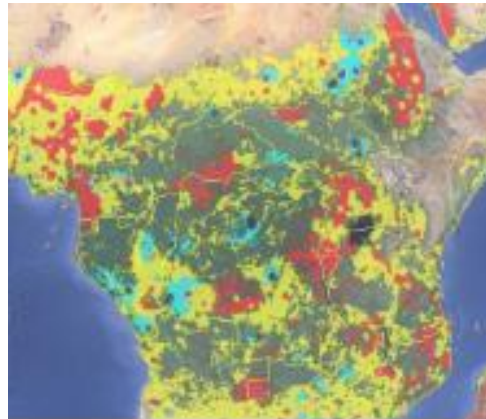
<https://www.youtube.com/watch?v=mmN0NccQCD0>





### Human-ICT project scores H2020 funding

A Swiss-led ICT project investigating human-machine technologies has won funding from Horizon 2020.



### Pioneering agriculture maps developed

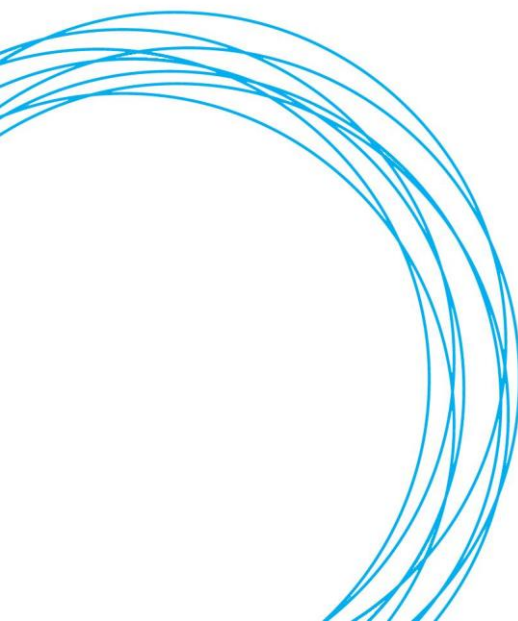
Two new global maps have been published and providing a significant step forward in global cropland information.



### EU funds client clearing system

The European Commission has announced that Cinnober has been chosen to receive financial support to develop a real-time risk margining and multi-asset client clearing system for European and international banks.

## SUCCESS STORIES



### H2020 funds high-speed internet

Engineers at Lancaster University in the UK are to lead a project developing the world's first W-band wireless system, which will lead to a greater availability of cost-effective, high-speed internet.

22/12/14

[Read more >](#)

# University secures funding for major high-speed data project

Engineers at Lancaster University in the UK are to lead a project developing the world's first W-band wireless system, which will lead to a greater availability of cost-effective, high-speed internet.

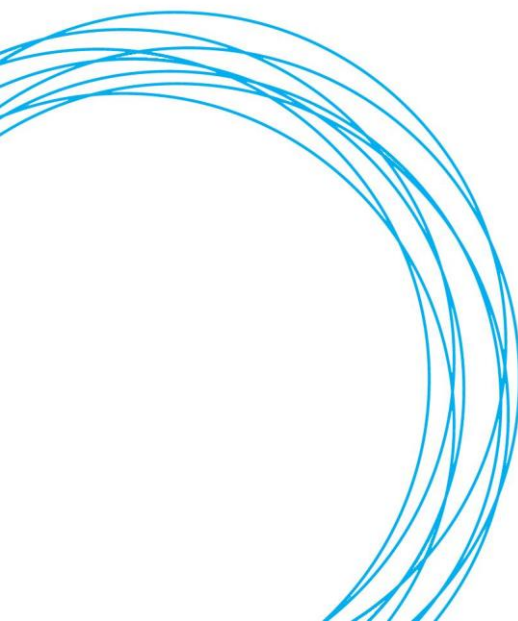
The TWEETHER project will receive funding worth £2.8m (~€3.5m) from Horizon 2020 and should lead to breakthroughs in 'millimetre wave technology' for high-speed wireless mobile and fixed-point internet. Millimetre waves – extremely high frequency waves found in the spectrum between microwaves and infrared waves – are deemed to be the most promising and cost effective solution for the future.

Speaking about the investigation, project co-ordinator Professor Claudio Paoloni stated: "The enormous flux of data transferred via wireless networks, increasing at a super-high pace, makes today's state-of-the-art networks quickly outdated. The huge spread of portable smartphones, tablets and the increasing demand of services hungry for data, such as high definition TV, videoconferencing and online games, are posing formidable challenges with the congestion of the available spectrum and the limits of present technology."

The investigation will result in a powerful and compact transmission hub, based on an innovative travelling wave tube power amplifier and an advanced chipset in a compact terminal. After three years of design and development, the system will be tested in a real operating environment. The project consortium also includes partners in France, Germany and Spain.

The project has been sparked by the huge rise in demand for mobile data. Paoloni says that exploiting unused portions of the spectrum at higher frequencies would provide a solution to current glitches. Recent advances in the field of vacuum electron devices and solid state electronics using millimetre wave frequencies will assist research undertaken.

Source: <http://horizon2020projects.com/>



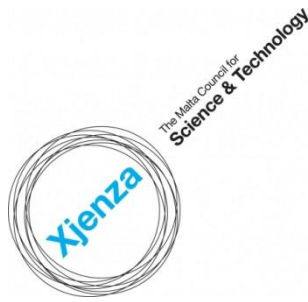
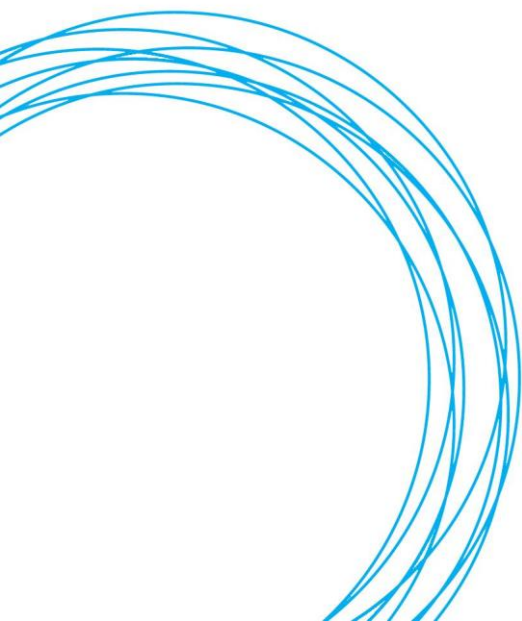
# NEXT STEPS & LINKS

- Become familiar with the Horizon 2020 Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

- Register as an Expert Evaluator:

[http://ec.europa.eu/research/horizon2020/index\\_en.cfm?pg=h2020-experts](http://ec.europa.eu/research/horizon2020/index_en.cfm?pg=h2020-experts)



# CONTACT US

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All images and video in this presentation were sourced from H2020 Participant Portal and <http://horizon2020projects.com/>, and videos from Youtube through links on the participant Portal

