

28 April 2020

Online training: How to deal with the Security issues in SC7

Online workshop on Cybersecurity

12 May 2020

2nd Online H2020 Secure Societies European Info Day and Brokerage Event



Success Stories



Software Imagination & Vision

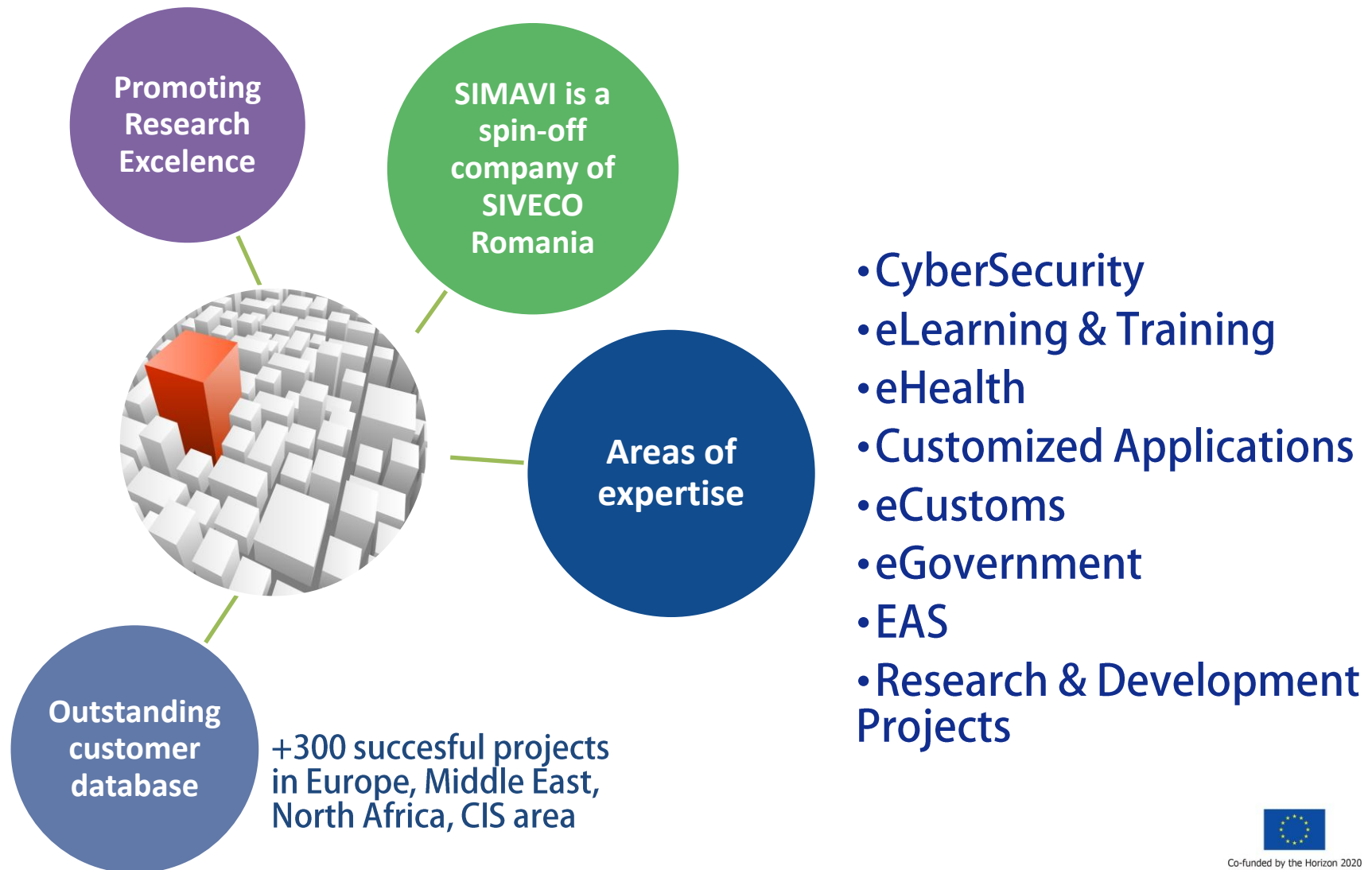
Monica Florea

Head of Unit European Projects

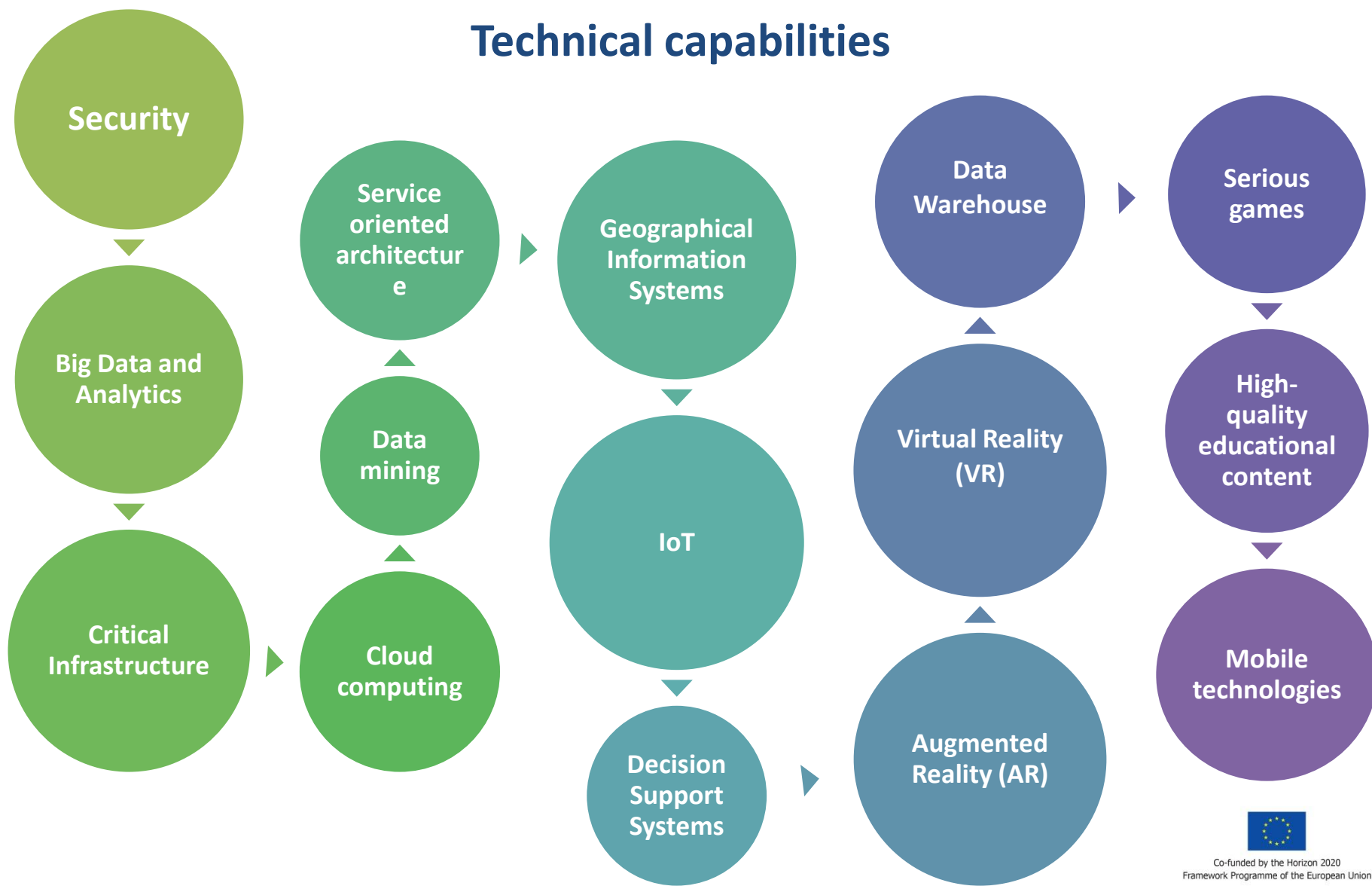
Software Imagination & Vision (SIMAVI)

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SIMAVI Business Card



Technical capabilities



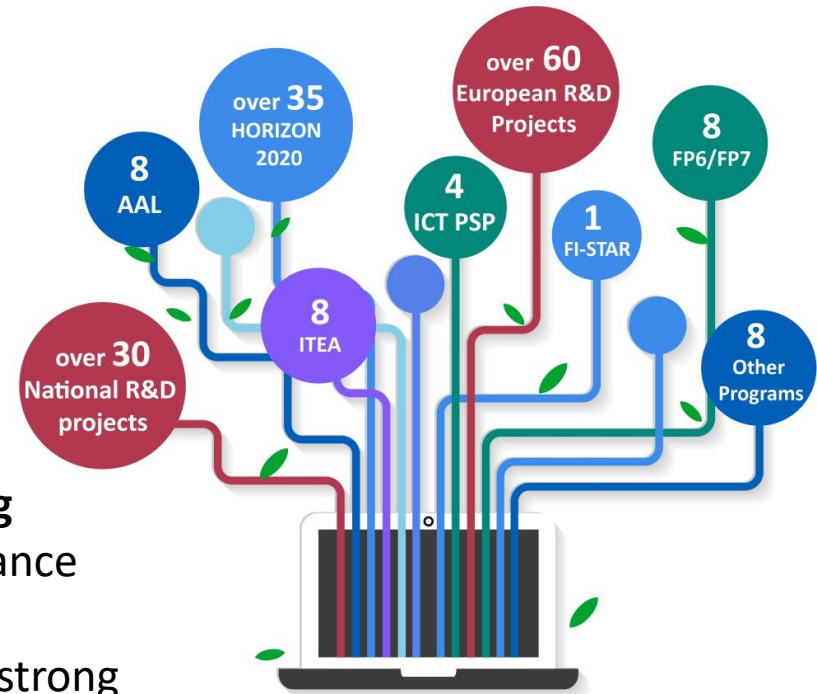
European Research and Development projects

Experience in coordinating Horizon 2020 projects (3 projects) and as a technical partner.

SIMAVI provides services on the whole life cycle of projects:

- ✓ Analysis of users' requirements
- ✓ Solution design and architecture
- ✓ **Software development**
- ✓ **Integration and interoperability**
- ✓ Testing and validation
- ✓ **Pilots deployment and end-users training**
- ✓ Technical assistance and system maintenance

SIMAVI has a big network of partners, strong collaboration with relevant end-users from different domains (LEAs, hospitals, city municipalities, public authorities, research organizations and universities etc).



Horizon 2020 Security Projects (1)



EnergyShield - Integrated Cybersecurity Solution for the Vulnerability Assessment, Monitoring and Protection of Critical Energy Infrastructures (**HORIZON 2020 - Coordinator**); <https://energy-shield.eu/>



RED-Alert - Real-time Early Detection and Alert System for Online Terrorist Content based on Natural Language Processing, Social Network Analysis, Artificial Intelligence and Complex Event Processing (**HORIZON 2020 - Coordinator**); www.redalertproject.eu



ECHO - European network of Cybersecurity centres and competence Hub for innovation and Operations (**HORIZON 2020**) www.echonetwork.eu



MAGNETO - Multimedia analysis and correlation engine for organized crime prevention and investigation. (**HORIZON 2020**) www.magneto-h2020.eu



CONNEXIONS - CORrelating big heterogeNeous data in a NEXt-generation Investigation and predictiOn platform for aNalysis and Simulation in mixed reality environments. (**HORIZON 2020**) www.connexions-project.eu

Financed by the Horizon 2020
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Horizon 2020 Security Projects (2)



SpeechXRays - Multi-channel biometrics combining acoustic and machine vision analysis of speech, lip movement and face (**HORIZON 2020**) www.speechxrays.eu



SMILE- SMart mobiLity at the European land borders (**HORIZON 2020**); www.smile-h2020.eu



PREVISION - PREdiction and Visual Intelligence for Security InformatiON (**HORIZON 2020**) <http://www.prevision-h2020.eu/>



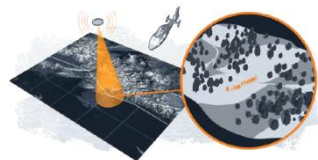
CREST - Fighting Crime And Terrorism With An Iot-Enabled Ecosystem Of Advanced Intelligence, Operations, And Investigation Technologies (**HORIZON 2020**) <https://project-crest.eu/>



SIMARGL: Secure Intelligent Methods for Advanced RecoGnition of malware and stegomalware (**HORIZON 2020**) www.simargl.eu



Horizon 2020 Security Projects (3)



BorderUAS - Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload



IMPETUS - Intelligent Management of Processes, Ethics and Technology for Urban Safety



Search & Rescue – Emerging technologies for the Early location of Entrapped victims under Collapsed Structures & Advanced Wearables for risk assessment and First Responders Safety in SAR operations



CC-DRIVER – CyberCriminality Driver



ISOLA - Innovative & Integrated Security System on Board Covering the Life Cycle of a Passenger Ships Voyage



METICOS - A Platform for Monitoring and Prediction of Social Impact and Acceptability of Modern Border Control Technology

ENSURESEC - End-to-end Security of the digital single market's E-commerce and delivery Service Ecosystem



Success story: 2019 Security Call

Initial internal discussion on specific project idea

Identify a call **H2020 Call:** *H2020-BES-02-2019 - Technologies to enhance border and external security, Sub-topic: [2018-2019-2020] Open*

Define a comprehensive concept

BorderUAS - *“Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload”*

Objective: The project will combine for the first time an airship (**UAV lighter-than-air**) with an ultra-high resolution multi-sensor surveillance payload supporting **border surveillance** as well as **search & rescue applications**, and specifically *rough terrain detection*. The project will use the **ground-based infrastructure of border police units (command & control centres** including satellite data feeds), **innovative data models** (to identify illegal crossing patterns and preferred routes) and **advanced audio/video analytics** and storage (to provide additional detection capabilities).



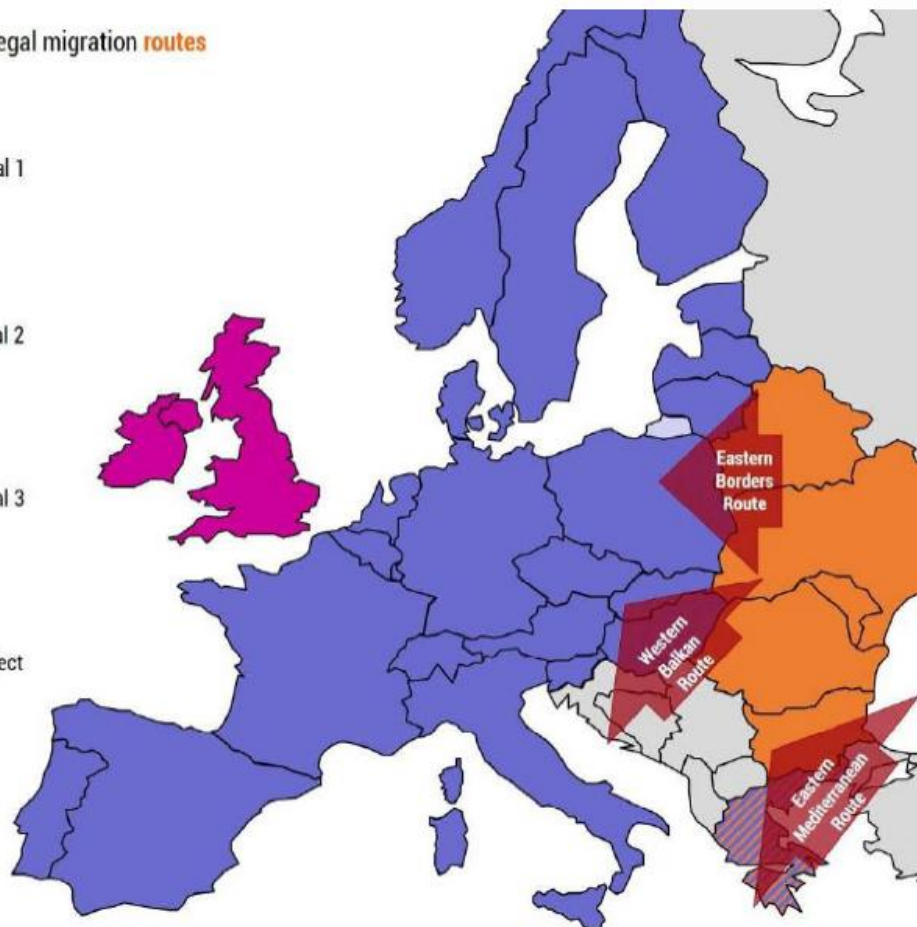
Success story: 2019 Security Call

The project is covering **3 major illegal migration** routes into Europe (Eastern Mediterranean, Western Balkan and Eastern Borders Routes), which **represent 58% of all illegal border crossings** detected and are also the most used for smuggling of drugs, weapons and stolen vehicles.

6 border polices covering 3 major illegal migration routes



Border police involved in the project
 Schengen country



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Success story: 2019 Security Call

***Identify partners** considering the expertise needed for the project idea and to fulfill the call requirements*

- **Where to find?**

- (1) Existing portfolio of partners (including partners from previous running projects)
- (2) **SEREN 4** (Brussels, Belgium, on March 13-14, 2019);
 - Set-up meetings by selecting relevant partners profiles
 - F2F meetings by sharing common interests and project concept
 - Follow-up selected organizations by defining their contribution to the project concept
- (3) EU Commission: other events and EC Single Electronic Data Interchange Area (SEDIA)



Success story: 2019 Security Call

Identify partners for the project proposal

- **How many?**
 - 18 partners from 13 countries
- **Capabilities**
 - (6) Technological Partners
 - (4) Research Partners
 - (6) LEAs – border control units. The technology concepts will be validated in the field by 6 border police units (Greece, Bulgaria, Romania, Moldova, Ukraine, Belarus) covering 3 major illegal migration routes into Europe.
 - (2) Partners with complementary expertise– dissemination & communication, exploitation, ethics & privacy

Develop the proposal and assign specific roles

- Assigning roles for each partner based on their specific expertise to make sure that the project and call requirements are met by the consortium
- SIMAVI took the role of Technical coordinator



Success story: 2019 Security Call

Problems & Difficulties encountered

- **Identify on time relevant end-users (BU - border units)** to validate the proposal solution
 - ✓ Contact end-users as early as possible
 - ✓ Integrate BUs feedback and reshape the proposal concept accordingly
- **Communication** does not always go smooth because of heterogeneous consortia and different cultures
 - ✓ Set-up a collaborative online environment and regular teleconferences
 - ✓ Provide guidance especially to partners not familiar to H2020
- **Management** of the proposal preparation timeframe
 - ✓ Set-up a rigorous timeline for proposal preparation with related milestones in order to be able to find mitigation solutions on time
- **Aligning the technologies** provided by the partners and setting up a common approach
 - ✓ Key role of the project integrator



Success story: 2019 Security Call

Project submission:

22nd of August 2019



**KEEP
CALM
AND...**

*... wait for about 6
months ...*



*ESR – Evaluation
Summary Report*



*Grant Agreement
Preparation*



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From a Successful Project Proposal To a Successful Project Implementation

Hints for a successful implementation! (from Lessons Learned)

- Key role of Project Coordinator as well as Technical Coordinator
- Strong involvement of WP Leaders
- Communication is very important!
- Involvement of BUs in gathering the user requirements and also in the validation of the developed solution)
- Make sure that each BU has the support of technical partners for pilots



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Thank you for your attention

