



## Project General Presentation

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*The SafeCloud Consortium*

# Project Information

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- Project Number: 653884
- Program Type: Innovation Action
- Execution Period: 01/09/2015 – 31/08/2018
- Budget: € 3,3 M
- Coordinator: INESC TEC
- Scientific and Technical Coordinator: UniNE

# Partners

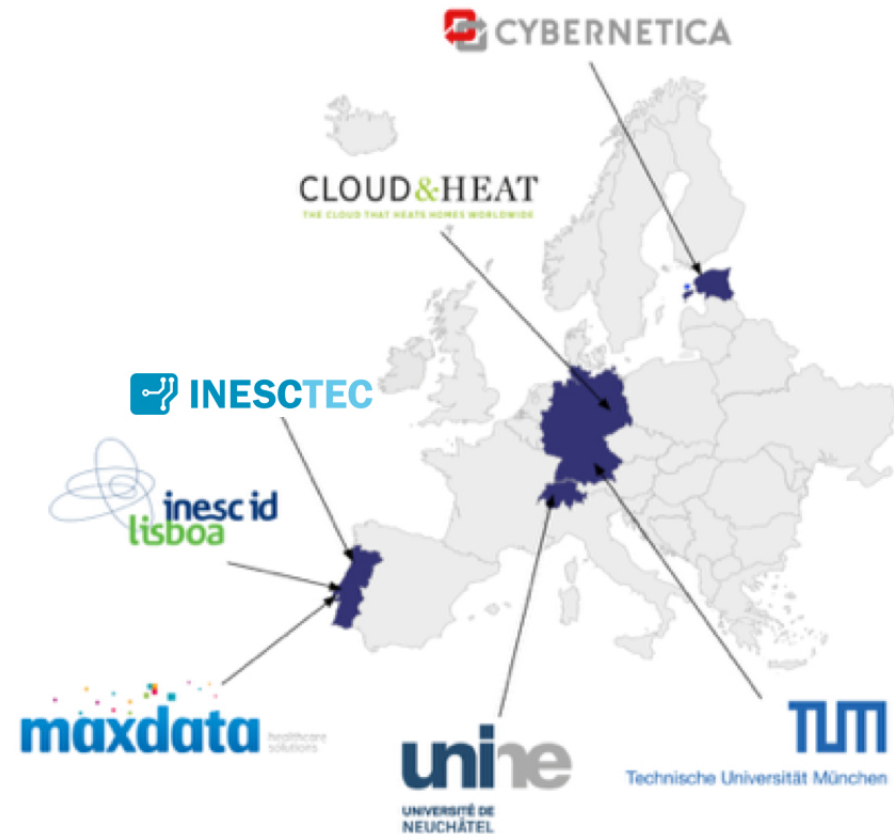
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- The SafeCloud consortium combines skills of technicians, scientists, engineers, analysts, developers and law experts
- It benefits from the collaboration from academia, research centres, industry and end-users
- 7 partners from 4 countries (Estonia, Germany, Portugal, Switzerland)

# Partners

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# Project Ambition

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Offsite storage



Privacy, Integrity and Availability

# Project Ambition

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Offsite processing



Privacy, Integrity and Availability

# Project Ambition

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Privacy, Integrity and Availability  
of communication

# Project Challenges

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## Trustworthy Storage

- Data integrity and anti-tampering
- Legal issues
- Tradeoffs

## Private Data Processing

- Confidentiality and verifiability
- Spare end-users from full fledged distributed cryptographic protocols
- Tradeoffs



# Project Challenges

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## Private Communication Middleware

- Confidentiality and availability
- Low intrusiveness
- Tradeoffs

# Project Vision

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*Holistic partitioning and entanglement*



# Project Vision



- Assumption of non-colluding domains for partitioning
- Identification of tradeoffs between usability, partitioning, entanglement and performance
- Besides novel research, secure storage, processing and networking heavily leverage existing fundamental results
- The focus is on coming up with a software stack that can be deployed as a PaaS and as a SaaS



# Project Impact

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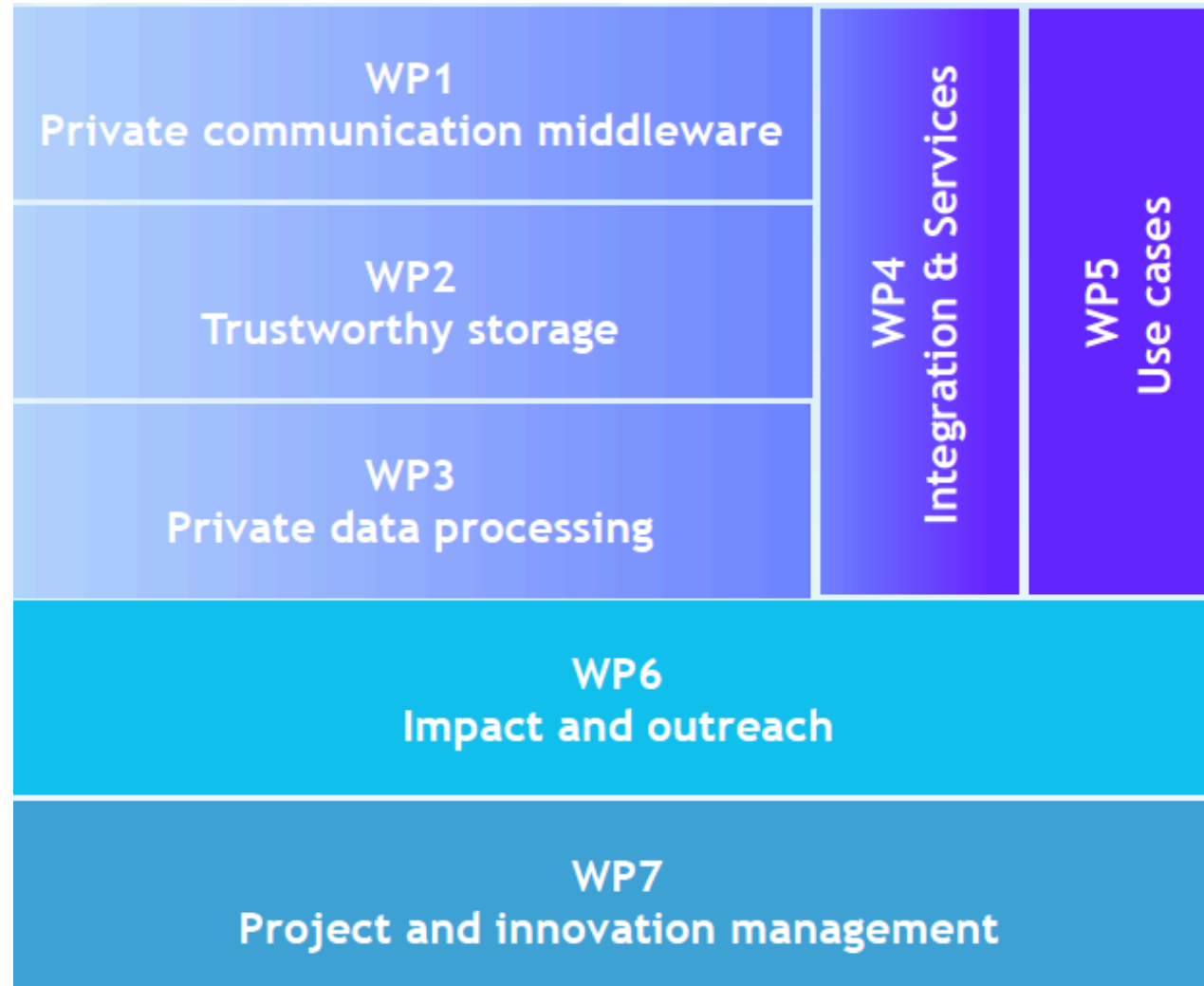


- Exploit and integrate increased privacy technologies into mass market products
- Promote privacy-enhanced services on a large scale by showing that it can be achieved at reasonable cost and without noticeable performance degradation
- Increase the appeal of European cloud providers for long-term preservation and processing of international private and commercial data

## **Use Cases:**

- European Healthcare
- European Cloud Storage Providers
- European Privacy-Preserving Data Processing Technologies

# Project Organization





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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 653884