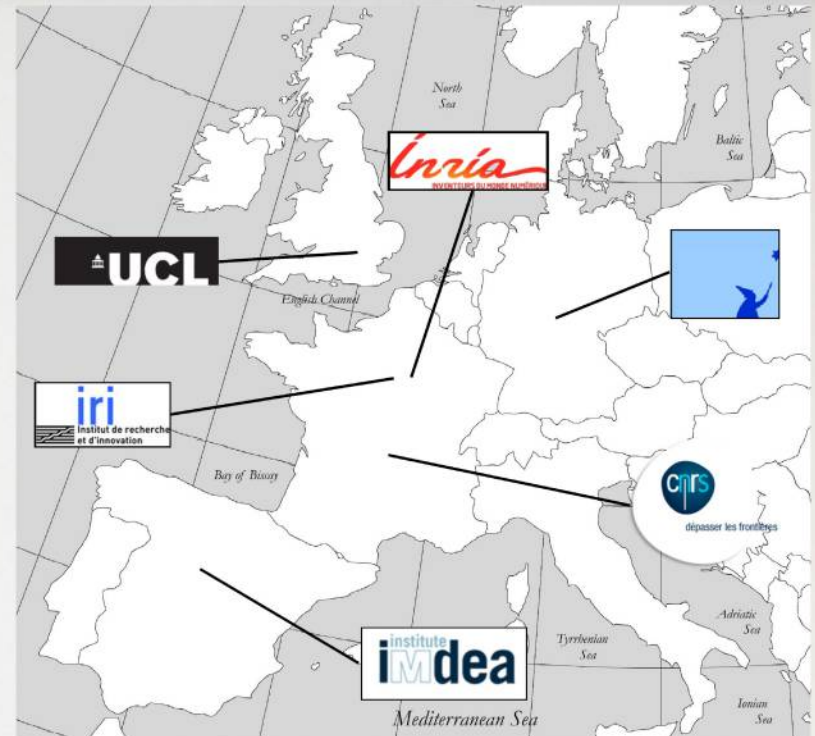




NEXTLEAP

NEXT GENERATION
TECHNOSOCIAL AND
LEGAL
ENCRYPTION
ACCESS AND
PRIVACY

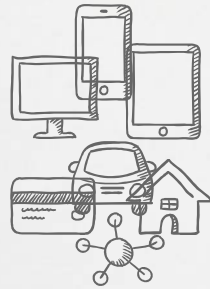
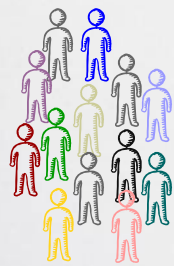


COORDINATOR: PROSECCO INRIA-ROQUEFORT
JAN 2016 – DEC 2018

Carmela Troncoso

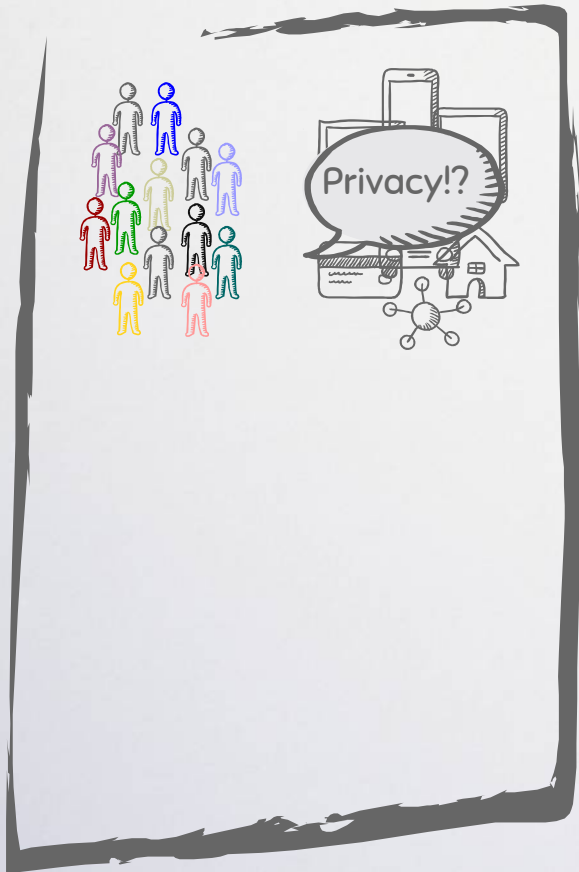
institute
imdea
software

NEXTLEAP VIEW

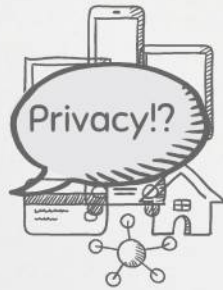


- Socially?
- Legally?
- Technically?

NEXTLEAP VIEW



NEXTLEAP VIEW

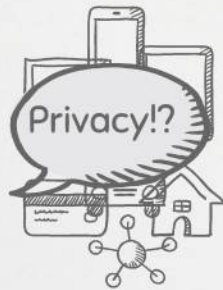


How to build privacy?



- Socially?
- Legally?
- Technically?

NEXTLEAP VIEW



**"NEXT GENERATION" OF DECENTRALISED AND
PRIVACY-PRESERVING PROTOCOLS**

- privacy-respecting addressbook
- privacy-preserving messaging (e-mail, chat)
- privacy-preserving analytics

How to build privacy?



- Socially?
- Legally?
- Technically?

NEXTLEAP VIEW



**"NEXT GENERATION" OF DECENTRALISED AND
PRIVACY-PRESERVING PROTOCOLS**

- privacy-respecting addressbook
- privacy-preserving messaging (e-mail, chat)
- privacy-preserving analytics

How to build privacy?



- Socially?
- Legally?
- Technically?



**TOOLS TO BUILD DECENTRALISED
SYSTEMS THAT CAN HARNESS 'BOTTOM
UP' PARTICIPATORY INNOVATION**

NEXTLEAP CHALLENGES

1ST YEAR

TECHNICAL

Identified key questions facing decentralized systems and initial agreed-upon common interdisciplinary vocabulary terms based on Internet Science



SOCIAL & PHILOSOPHICAL

30 case studies on messaging

Identified projects where we aim to integrate the decentralized protocols and outline development guidelines

NEXTLEAP CHALLENGES

1ST YEAR

TECHNICAL

- Decentralize trust
- Detect malicious actors
- Incentives
- Statistics collection
- Provable guarantees
- ...

SOCIAL & PHILOSOPHICAL

- understanding of requirements
- translation to technical realm
- integration in development process
- usability
- PETs understanding
- ...

