NEXTLEAP

NeXt generation Technosocial and Legal Encryption Access and Privacy

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NEXTLEAP Introduction

The NEXTLEAP project will lay the interdisciplinary internet science foundations to build distributed and decentralised systems that can harness 'bottom up' participatory innovation.

Problem: The research community does not yet know how to socially, legally, and technically build protocols that have provable security, preserve privacy, and extending fundamental rights. Despite the increased interest from the public, almost all commons-based project present privacy, security, and anonymity risks.

Solution: NEXTLEAP will produce a "next generation" of decentralised and privacy-preserving protocols and open source implementations that tackle core functions monopolised by centralised proprietary cloud providers: federated identity that includes a privacy-respecting addresbook, asynchronous secure messaging for e-mail, synchronous secure messaging for chat, and privacy-preserving analytics for extracting "the wisdom of the crowd." These protocols will be based on detailed sociological studies and a fundamental re-thinking of the philosophical foundations of the Internet around collective intelligence and crowd-sourced net rights.

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Workpackages

1. Project Management (INRIA)

2. Science of Decentralized Architectures (UCL)

3. Social Design and Philosophical Foundations of Decentralization (CNRS)

4. Validation via Formal Modelling and Simulation (IMEDEA)

5. Open Source Code and User Validation (Merlinux)

6. Outreach and Dissemination (IRI)