Consortium

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4 Companies

🇷🇴 🇪🇸 **1 Research Center**

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🌐 **gain.di.uoa.gr/sovereign**

𝕏 **@SOVEREIGN_MCSA**

in **SOVEREIGN MSCA Project**

Funding

Grant Agreement:
101131481

Programme:
HORIZON.1.2 – Marie Skłodowska-Curie Actions (MSCA)
HORIZON-MSCA-2022-SE-01-01 – MSCA Staff Exchanges 2022

Duration:
01/01/2024 – 31/12/2027 (48 Months)

Granting authority:
European Research Executive Agency

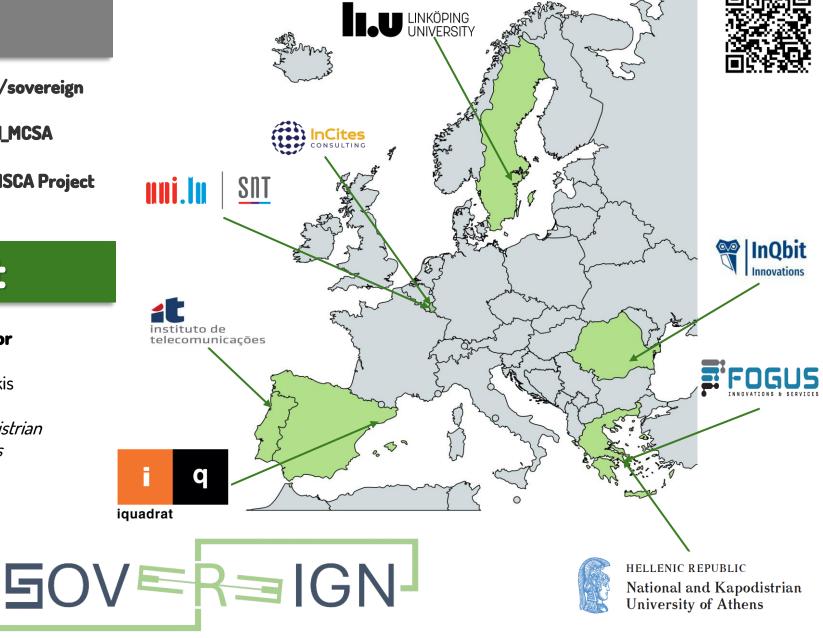**Coordinator**:
National and Kapodistrian University of Athens

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SOVEREIGN

distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks

SOVEREIGN aims to fuel artificial intelligence (AI) with DLT-backed data to innovate the Beyond 5G (B5G) service chain and protocol stack towards the support of fully decentralized, instantaneous, and anonymous resource trading across the B5G network ecosystem (end terminals, infrastructure, OTT service providers, etc.). **SOVEREIGN** aims to empower intelligent end points in B5G networks, to gain full control of their identities, connectivity, sessions, service terms, and shared data upon accessing B5G spectrum, antennas, network slices and services.

Modular end-to-end service architecture integrating DLT-empowered service provisioning

Fully decentralized DLT-backed authentication, authorization, and accounting (AAA) platform

Forward-thinking protocols for self-sovereign identity management and anonymity

User-controlled AI-enabled service discovery, pairing, mobility management and resource provisioning

SOVEREIGN

SOVEREIGN Conceptual Architecture

Traditional Mobile Data Access (Business) Model
Predefined data plan per month reglated by offline fixed-term contracts

Proposed Mobile Data Access (Business) Model
Flexible data plan through trading enabled by specialized crypto-currency platform regulated by smart contracts and blockchain consensus