CONSENTIS – Identity and Consent Management for EU Digital and Data Strategies

ETSI Security Conference 2026 – Identity & API Security

1 CHALLENGE

Secure Identity and Consent across APIs

Fragmented Consent Practices

Inconsistencies across Member States
Lack of interoperability among digital services

User Disempowerment

Users often unaware of what they consent to
Complex consent forms lead to “click fatigue”

Compliance vs. Innovation

GDPR/eIDAS compliance slow agile innovation
Legal uncertainty around evolving technologies

Ineffective Identity Federation

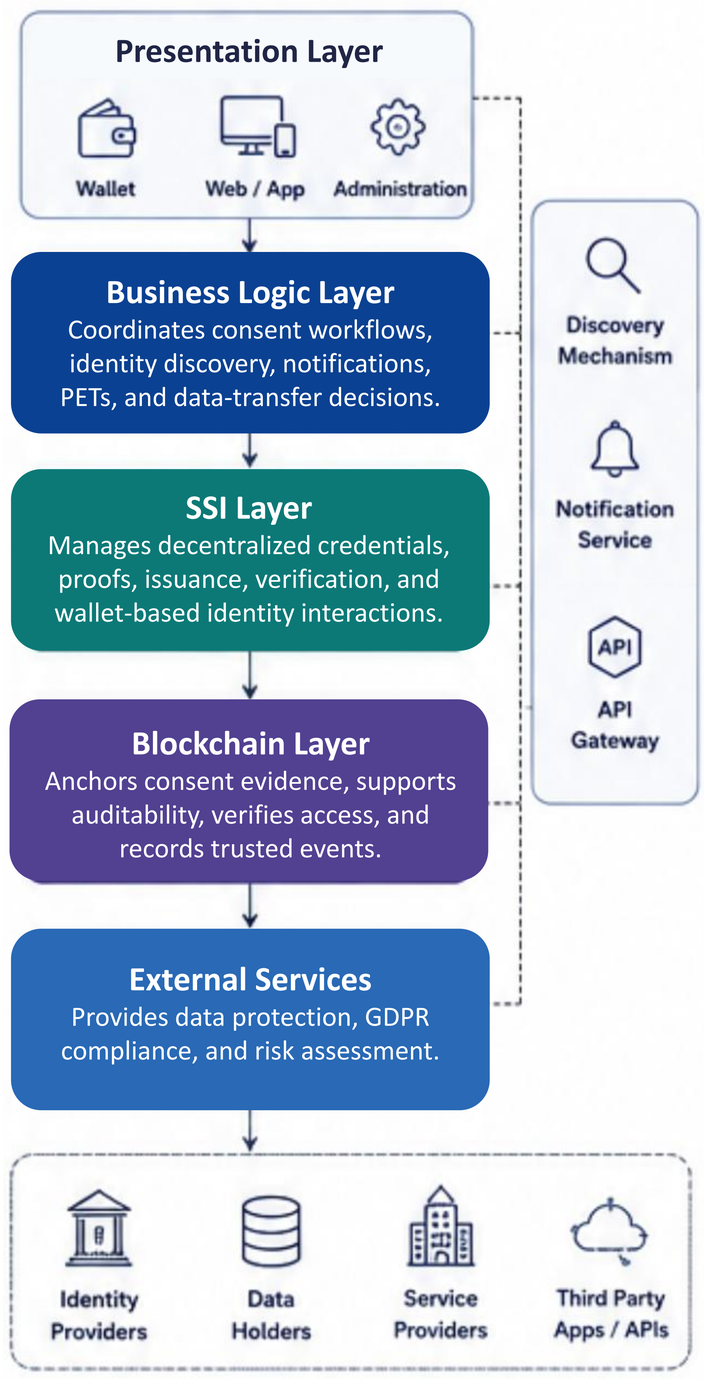
Siloed systems limit cross-border data sharing
Identity frameworks lack trust & transparency

Security & Privacy Risks

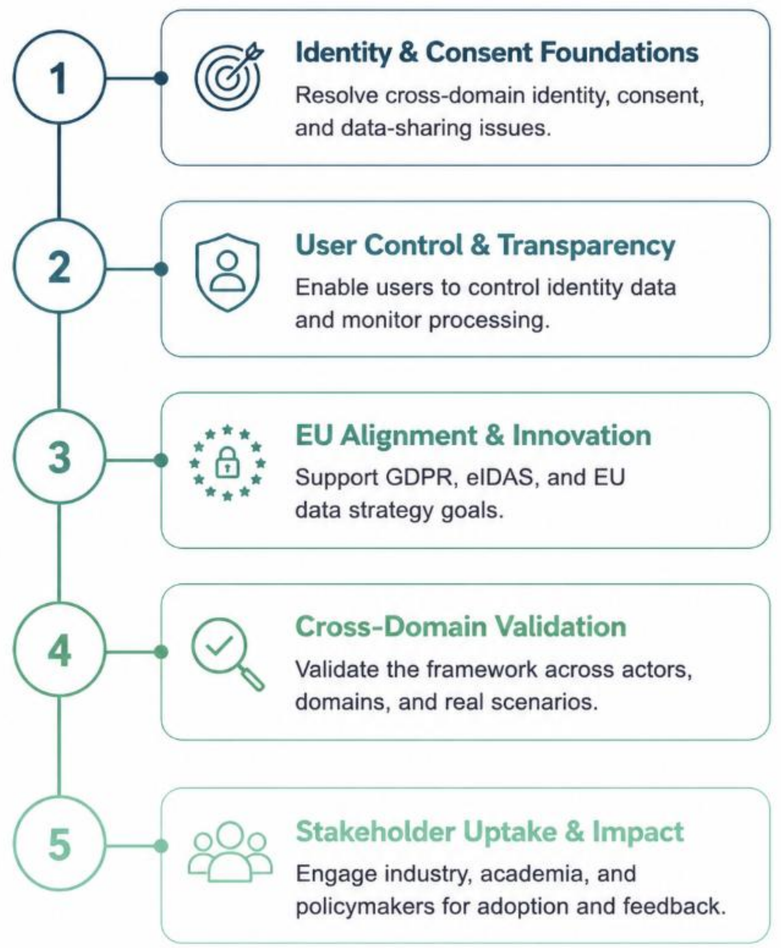
Centralized Identities increase data breach risks
Insufficient user control over personal data

2 CONSENTIS APPROACH

User-centric Identity & Consent Management Framework



3 OBJECTIVES



4 CONTRIBUTIONS TO IDENTITY & API SECURITY

Verifiable Identity for API-Mediated Requests
SSI, DIDs, and Verifiable Credentials support trusted requester, holder, and verifier interactions.

Consent-Aware Request Orchestration
User consent, purpose, legal basis, and workflow state drive access requests.

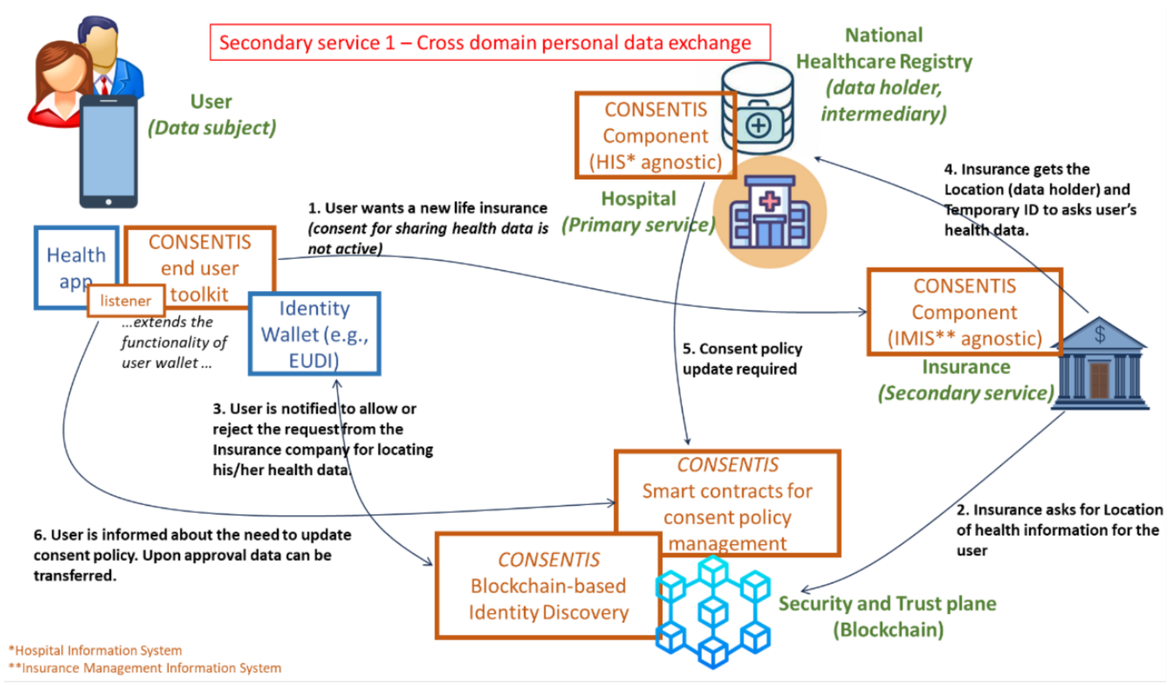
Privacy-Preserving Discovery
Relevant data holders and identity endpoints are located without exposing persistent identifiers.

Tamper-Evident Consent Evidence
Smart contracts anchor consent state, verification outcomes, audit events, and revocation evidence.

Protected Data Disclosure Path
PET-enabled mechanisms support privacy-aware transfer of authorised data across service boundaries.

5 USE CASE

Secondary use of electronic health data



A validated example of how users will safeguard their privacy and control over health information. This scenario facilitates insurance companies to securely request specific data from chosen hospitals through a user approved process.

Consortium

AEGIS IT RESEARCH · Nodalpoint · Maggioli · Insuretics · University of Patras · itml innovation applied · karavias underwriting agency · SIEMENS · fl · fundación iSYS · Tilburg University

Funded by the European Union

The research leading to these results has received funding from European Cybersecurity Competence Centre under Grant Agreement No 101168011.

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union, European Cybersecurity Competence Centre. Neither the European Union nor the granting authority can be held responsible for them.

https://consentis-project.eu · company/consentis-project · @ConsentisProject