

TRACK: HEALTHCARE

CUREX – seCure and pRivate hEalth data eXchange

CUREX Platform & Architecture

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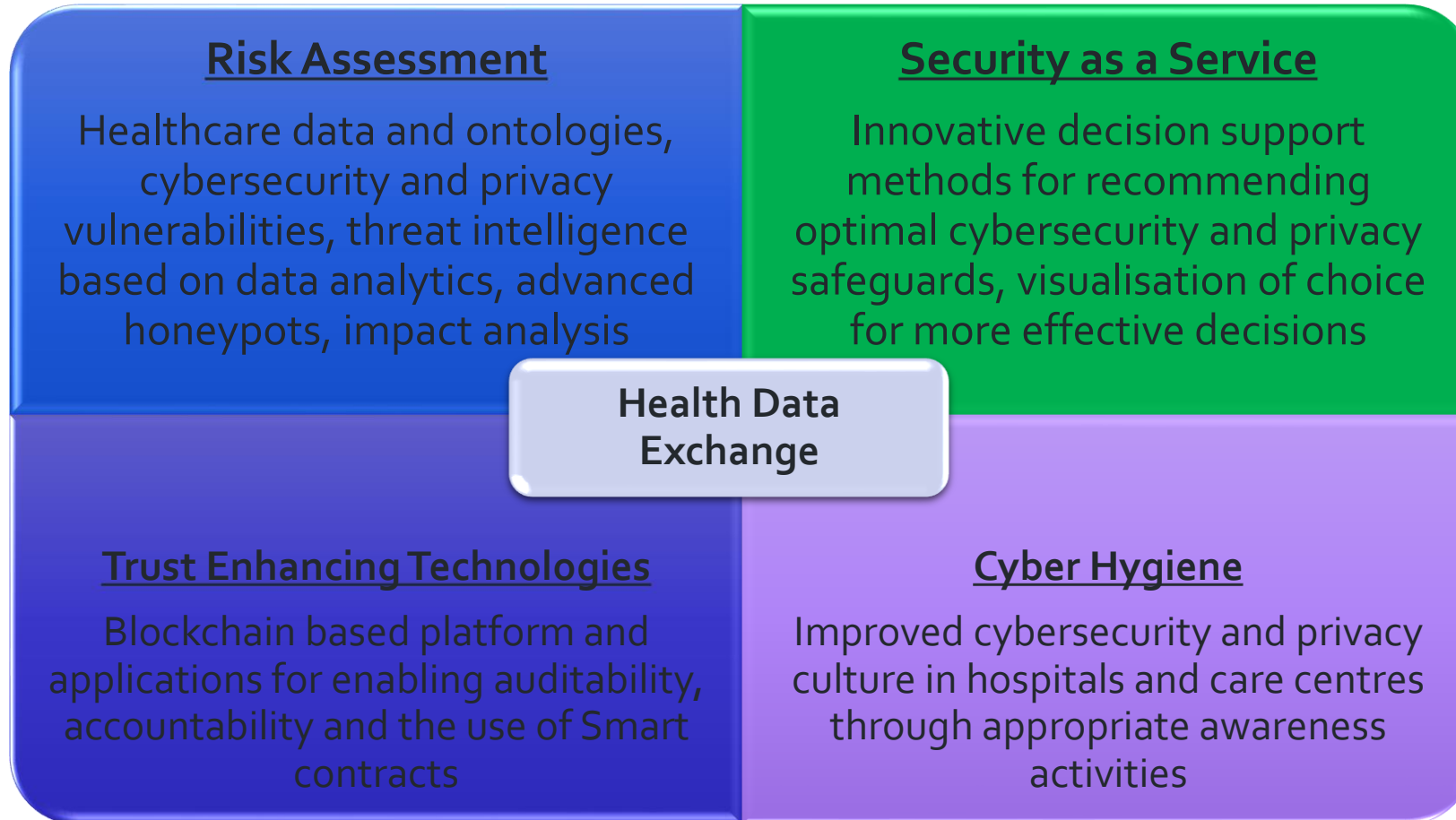


Gustavo González-Granadillo

R&D Engineer, Atos, Spain

WP3 Leader, Health Data Assets & Ecosystem

The CUREX Concept



CUREX Platform Components



- **Asset Discovery Tool**

- Discover of active and passive assets
- Discover services and OS running
- Discover changes in the network

CUREX Platform Components



- **Vulnerability Discovery Manager**
 - Identify vulnerabilities (discovery)
 - Classify and assign priorities (assessment)
 - Suggest remediations (treatment)
 - Intelligence sharing functionalities (sharing)

CUREX Platform Components



- **Threat Intelligence Engine**
 - Leverage AI, eliminate black box mentality and increase trust
 - Improve accuracy in real time event detection
 - Automate and simplify user's work
 - Reduce time to act

CUREX Platform Components



- **Knowledge Extraction and Analytics**
 - Identification of new threat patterns
 - Exploring related CWEs and CAPECs
 - Enhance threat detection with ML functionalities

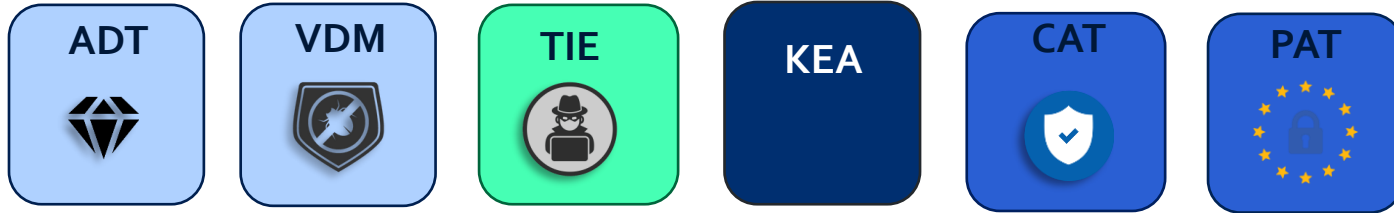
CUREX Platform Components



- **Cybersecurity Assessment Tool**

- Qualitative analysis (i.e., very low, medium, high, very high)
- Quantitative analysis (i.e., monetary values)
- Global and specific impact scores (e.g., per asset, per model, per risk)
- Suggestion of mitigation measures

CUREX Platform Components



- **Privacy Assessment Tool**

- Qualitative and quantitative analysis
- GDPR compliancy
- Global and specific impact scores
- Can be combined with CAT scores

CUREX Platform Components



- **Optimal Safeguards Tool**

- Decision support for security managers
- CIS controls for safeguard recommendations
- Optimal risk control recommendations subject to financial constraints
- Includes cyber hygiene recommendations

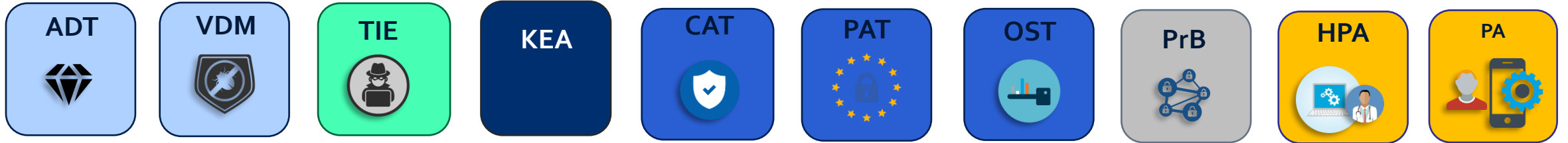
CUREX Platform Components



- **Private Blockchain**

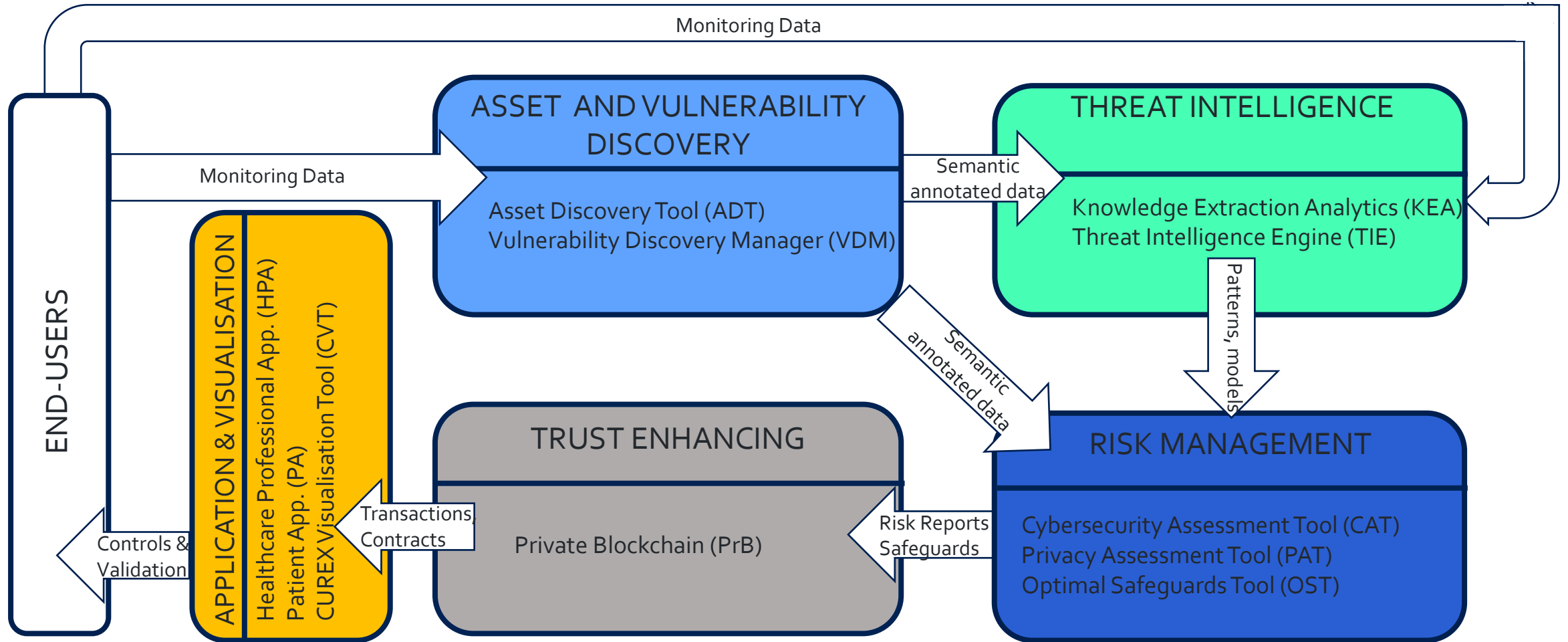
- Hyperledger Fabric technology
- Smart contracts
- Ensure validity of CUREX transactions
- GDPR compliance
- Enhance trust and integrity

CUREX Platform Components



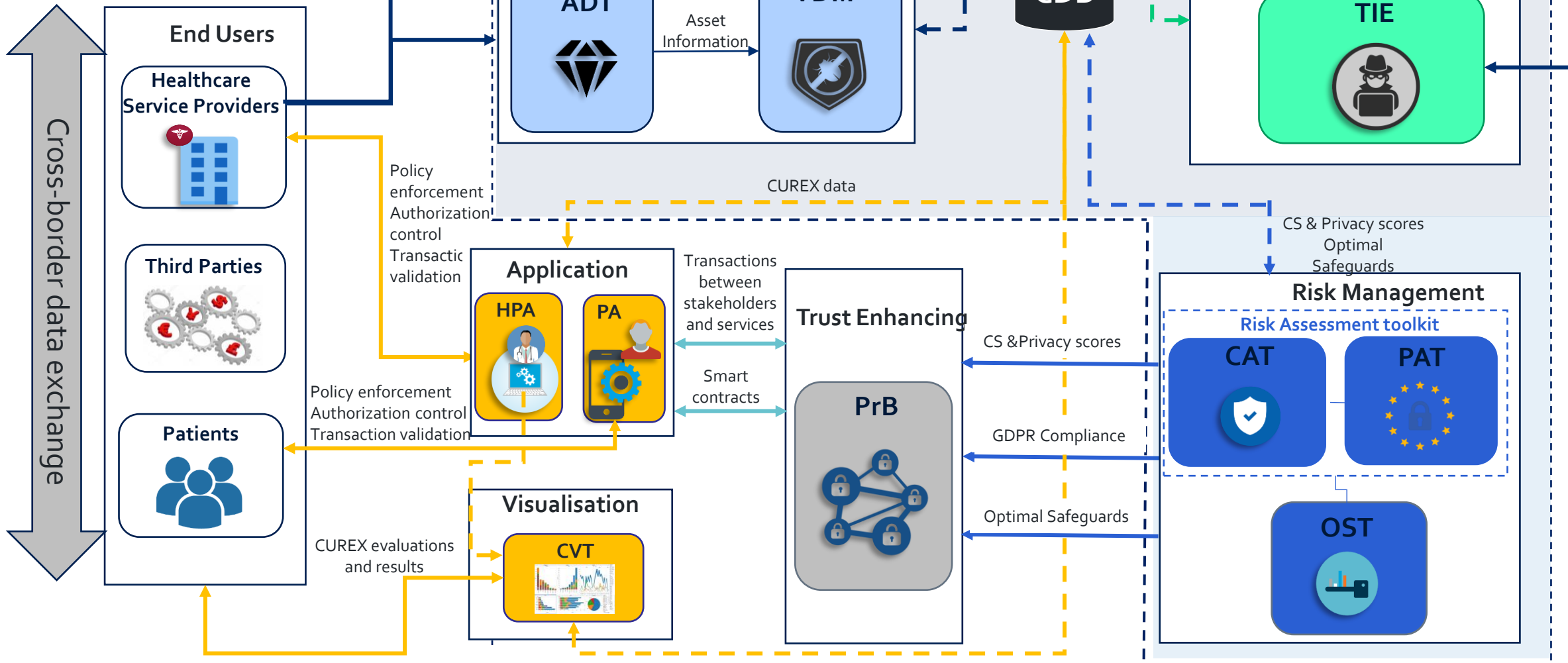
- **Health Professional and Patient Apps**
 - GDPR compliance
 - Facilitate and accelerate patient's treatment
 - Unify the health sector across Europe
 - Increase patient's trust towards health infrastructures

CUREX High Level View Architecture



CUREX Detailed Architecture

Human resources data
 Technical resources data
 Business processes data
 Personal identifiable data
 GDPR policies



Thank you!

Gustavo González-Granadillo
gustavo.gonzalez@atos.net

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