

# EPIM

Solving joint challenges through data sharing in the O&G industry

- From ideas to operational solutions

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# Our story

- A non-profit “exclusive” membership association constituted 2007 governed by the operators on the Norwegian Continental Shelf, most of them global E&P companies
- We translate O&G industry needs across the value chain into common information sharing services and solutions
- These are adopted and used by all categories of stakeholders, including operators, partners, authorities, contractors and suppliers.
- We currently have a portfolio of 15 services, driven by the needs of the oil and gas industry on the Norwegian Continental Shelf, being added continuously

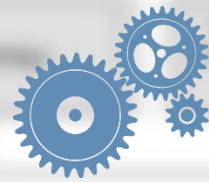
*By the industry, for the industry*



# EPIM's domains

Member companies' requirements

Business  
architecture



Joint Venture Management  
Domain



Quality, Health, Safety &  
Environment Domain



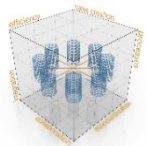
Exploration & Production Subsurface  
Domain



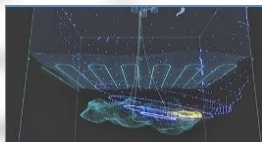
Supply Chain Management  
Domain



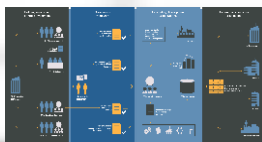
Infrastructure & Technology  
Domain



Portfolio of services



Technology



Governance model

# Relations and collaboration map



# Drivers for required change

## **New large user groups in new EPIM services**

**NEED: Common tools allowing users to access applications via Internet**



## **Lack of common user authentication solution across EPIM services**

**NEED: A single Identity Provider service that supports:**

- 1) Secure eID lifecycle management
- 2) Global distribution mechanisms
- 3) Software based tokens, including solution for users without mobile phone
- 4) Revocation of eID by employer (eID to be owned by employer)

## **Lack of common standardised administrative processes across EPIM Services**

**NEED: Secure self-service functionality for on-boarding/off-boarding**

- User organisations
- Users
- Applications
- Application Access

## **Desire to further increase SOIL security level**

**NEED: Implement secure user based access to SOIL resources via Internet**





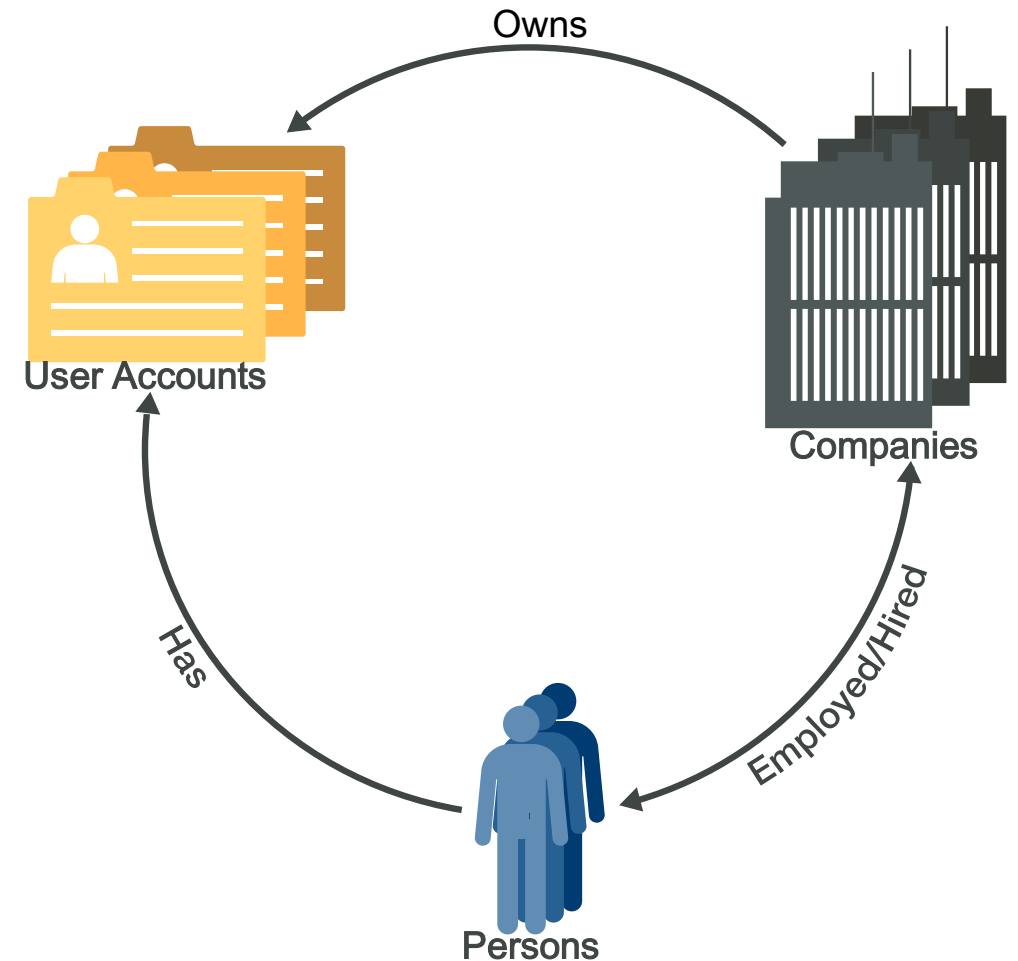
# EPIMID - Concept

Simplifying and securing access to shared industry solutions on NCS



# EPIM ID Concept

- Trusted Identity Provider for the Norwegian Oil & Gas Industry
- User Accounts owned by the companies
- Strong coupling of User Accounts to company e-mail
- Secure and user friendly on-boarding of users by use of existing personal identification methods
- Solving the “Leavers” problem for cross company engagements



# EPIM ID Concept

## Organisation & Account Management

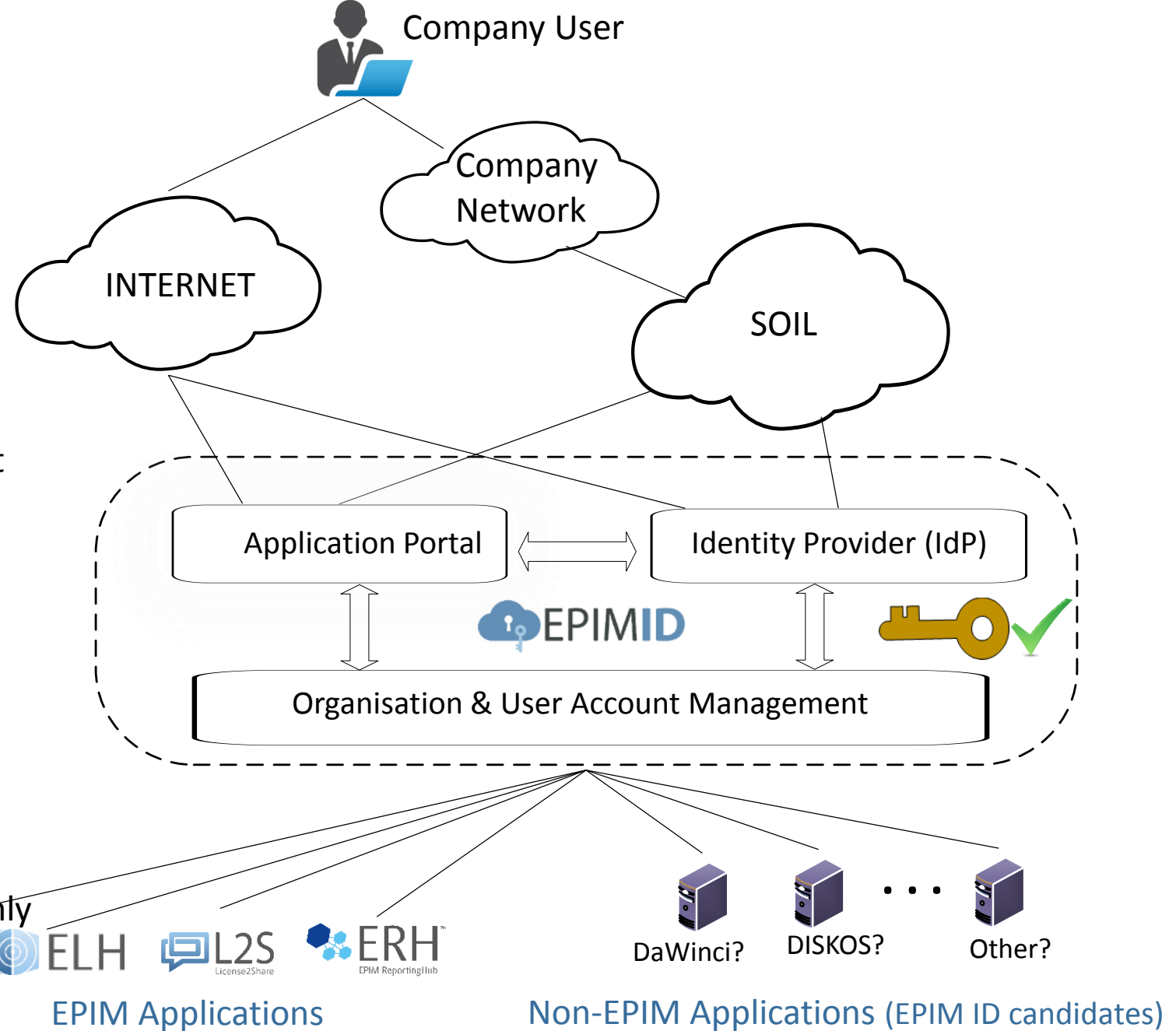
- Self service based
- Automated processes handling
  - Organisations
  - Users
  - Course grained access management
  - Access validity
- ++

## Identity Provider

- Secure onboarding of company users
- Authentication services for applications

## Application Portal

- Allows secure access to applications without Internet front-ends (e.g. SOIL-only apps)



EPIM Applications



Non-EPIM Applications (EPIM ID candidates)





# EPIM ID – What’s in it for you?

## End Users

- One common log-in method for many work related applications
- Mitigating “password jungle” problem

## IT Departments

- Simplified process for revoking user accounts
- A trusted non-personal Identity as a Service (IaaS)
- EPIM will drive use of a common eID for the NCS Oil & Gas Industry
- Support for consultants working with the same application for many organisations

## Application Providers (delivering services to NCS Oil & Gas industry)

- Common trusted Identity Provider based on employer owned user accounts
- Internet enabling of SOIL based applications
- Possibilities for Single Sign On (SSO)

EPIM ID concept offers the capabilities in machine to machine as IBM Powerbox

### Why Power Systems

To draw insights and make better decisions, businesses rely on the secure, flexible and open platform of IBM Power Systems. Built with the first processor designed for big data workloads, the design of Power Systems combines the computing power, memory bandwidth and I/O in ways that are easier to consume and manage, building on strong resiliency, availability and security.

