CALRIS

Co-development of Adaptable Land Register Information System initiative

Government initiative, share & reuse of e-government technology

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Electronic register is better than paper register!
Service counter is empty, users are online
Working environment, counter service!?

Home office option allowed for registrars!

- Secure VPN network
- Electronic identity PKI login
- Electronic signature used in decision making
- Block chain (implemented in coming months)

We want to work from home!
Process is electronic and mature

E-notar

buyer  Seller  Notary  Land Register  Assistant Judge  XML structured data  E-mail notification  Buyer
Problem to solve:

Electronic Land Registry Management System sustainability

1. Is 11 years old (No legacy policy > 13 years).
2. Request for change price is high.
3. System components are outdated.
5. Outdated interface (UI&UX).
6. Focus is changed from paper to electronic.

Title of ownership to real estate

I part - location, address

II part - Ownership
  - ID, name
  - Co-owners

III part - Encumbrances and restrictions
  - Road servitude

IV part - Mortgages
  - Mortgage 100 000 EUR to Bank

Government guarantee to electronic information by law
Long-term strategic choices for Estonian Land Registry Information System

1. Update old IT-system
2. Develop a new IT-system
3. Reuse/buy existing system from another country
4. Buy a product from the market

5. Co-create the system with other countries.
   - Reuse the knowledge/best practice
   - Reuse existing technical components
CALRIS stands for:

Co-development of Adaptable Land Register Information System
CALRIS goal

- Open, efficient and inclusive process
- Innovation, sharing and reusing of technology
- Methodology for co-development of GovTech
  - Test methodology in real case scenario
    - Land Registry Management System in Estonia
- Collaborative open development
Benefits of co-creation

- Best practice knowledge base
- Better quality of the result
- Sustainable technology development practice
- More development partners - better price
- Faster development
- EUPL - free licence
- Shared cost for new functionality
12 Partners in CALRIS
8 countries

Centre of Registers and Information Systems ESTONIA
Ministry of Justice of ESTONIA
Tallinn University ESTONIA
Tartu County Court ESTONIA
Land Board ESTONIA

Bundesministerium fuer Justiz AUSTRIA

Registers of Scotland UNITED KINGDOM

Tiesu administracija LATVIA

Kabul University AFGHANISTAN

Elizade University NIGERIA

Ghana Technology University College GHANA

Emirates Real Estate Solutions UNITED ARAB EMIRATES
The deliverables of the project CALRIS

1) Methodology- Guidelines for conducting an inclusive, international and cross-sector co-development of a public land register management e-solution.

2) Reusable IT system- A trans-nationally adaptable core land register information system (public procurement).

3) Demo Portal- A cloud-based land register demonstration environment, for testing the features of the solution.

4) Implementation in Estonia - A piloted country-specific adoption of the core land register software solution for Estonia (public procurement).
Technical architecture to be investigated

#MicroServices  #CloudService
#BlockChain
CALRIS
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#openGov
#research
#reuse
#share
#innovation
#openSource
#co-develop

You are welcome to join CALRIS initiative!

Applied co-creation to deliver public services