**Finland's NCM Presidency Project
"Achieving the World's Smoothest Cross-Border
Mobility and Daily Life Through Digitalisation"**

Seminar and Workshop 13.10.2022

Agenda

Time (EEST)	Programme
9.30	Coffee, tea, fruits
10.00	Seminar • Welcoming words, introduction to CBDS • Upcoming publication, Handbook on cross border data exhange • Data exchange between Finnish and Estonian population registers • Introduction to Information management map of public administration.
12.00	Lunch
13.30	Workshop
15:30	Brief summary of the day
16.00	End

Achieving the World's Smoothest Cross-Border Mobility and Daily Life Through Digitalisation

Nordic and Baltic countries :'cross-border by default' principle in the organisation of digital services

Project aims to increase effectiveness of cross-border data exchange and to provide solutions for cross-border data exchange and cooperation between authorities

Baseline study

In 2021, a Baseline study of three selected life events/work packages was conducted:

— Studying in another Nordic or Baltic country
— The use of health services in another Nordic or Baltic country
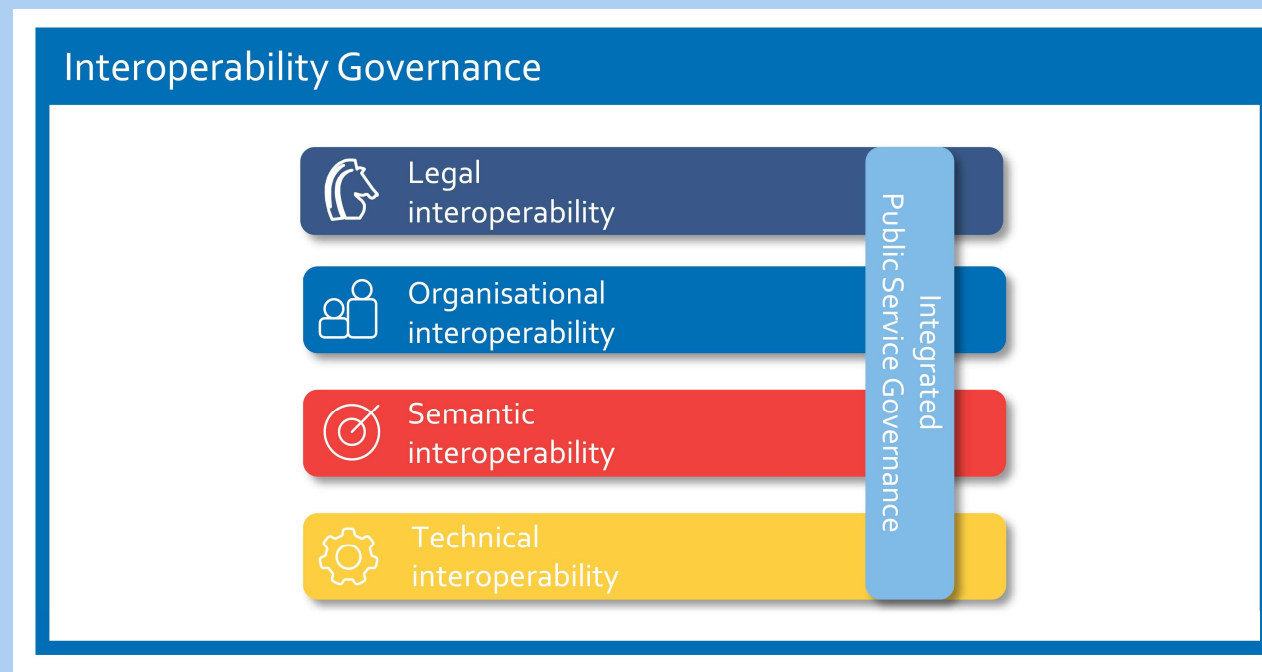— The versatile use of the Nordic and Baltic legal databases

Investigated key parties, data repositories, services, data exchange requirements and possible administrative and legislative bottlenecks from the perspective of cross-border everyday lives of people and businesses.

EIF

Baseline study was based on the European Interoperability Framework (EIF), to discover barriers for cross-border data exchange on different levels:

— Organisational barriers

— Legal barriers

— Semantic barriers

— Technical barriers

Interoperability Governance

- Legal interoperability
- Organisational interoperability
- Semantic interoperability
- Technical interoperability

Integrated Public Service Governance

Discovered barriers

Organisational interoperability	Legal interoperability
Development not coordinated between countries – timelines do not match, and are determined based on national needs and priorities **Insufficient financing for cross-border services** – financing directed towards services serving national needs Some countries have utilised EU financing, but in some countries, all actors have not been aware of such opportunities	**Cross-border data exchange not allowed by legislation** – and can be a politically sensitive issue **Data protection regulation issues** – data protection and data security. Legal barriers were **usually found the most difficult to eliminate**

Discovered barriers

Semantic interoperability	Technical interoperability
International standards, thesauri and code systems – though these often exist, their use varies considerably both between administrative branches and between countries **Often semantic interoperability problems even within countries**	**Was often seen as the easiest part** – if other interoperability barriers were eliminated, the tools for technical interoperability were thought comparatively easy to find

Working hypothesis for the handbook

Interoperability with joint initiatives provide a wider framework for enhancing cross-border data exchange and tools to secure legal, organisational, semantic and technical interoperability across borders. These include:

- The European Commission's proposal for a trusted and secure Digital Identity for all Europeans (the eIDAS revision)
- European Digital Wallet
- SDG Single Digital Gateway
- eHealth Digital Service Infrastructure (eHDSI) and European Health Data Space (EHDS)
- The European Legislation Identifier (ELI), the European metadata standard for legal information

Handbook structure

— Which barriers to cross-border data exchange have been detected?
— Will the joint initiatives solve discovered barriers in WP1 / WP2 / WP3 ?
— If not, which barriers still remain/which use cases are still problematic?
— What other solutions can be utilised to solve the remaining problems?

Handbook suggests a framework and solutions for cross-border data exchange and describes identified best practices

A crucial factor in increasing the effectiveness of cross-border data exchange is to find the key representatives from each country who possess deep knowledge of the practices, processes, key responsible parties in the country as well as the country-specific challenges, strengths, concerns, and other viewpoints to the project execution and outcomes regarding each of the three work packages.

Achieving the World's Smoothest Cross-Border Mobility and Daily Life Through Digitalisation | Deliverables and activities

— Analysis of financing opportunities on a supranational level
— Report on the use of machine translations on selected use cases
— Cost benefit analysis to be conducted at WP1 "Improved cross-border digital services for studying abroad in the Nordic and Baltic Countries (CBDS-Study)"
— Technical analysis of joint legal database search interphase completed, followed by a cost benefit analysis on chosen cases and a minimum viable product proof of concept

Workshops today

Studying in another Nordic-Baltic country

Using healthcare services in another Nordic country or the Baltic region

A search engine for statutes covering the Nordic and Baltic countries' legislation

The aim is to continue the work started and examine cross border data exchange practices between authorities at the Nordic and Baltic countries. The results of the workshop will aid in creating a handbook on cross border data exchange, and a framework to fortify and facilitate data exchange between the Nordic and Baltic countries, as well as to solve and prevent challenges facing it.

WP1: Studying in another Nordic-Baltic Country

GOALS
- Discuss the baseline study findings
- Build common understanding
- Start a concrete collaboration

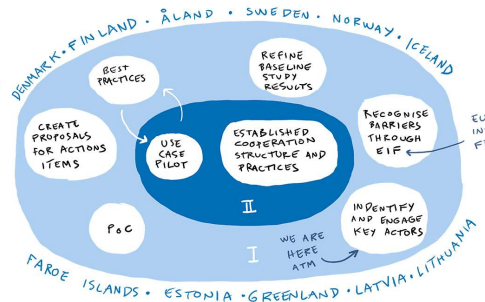*"This project can be a "push" for development on European level, too!"*

"Student data flows with a person whenever wanted and it is always accessible." (DREAM)

VISION
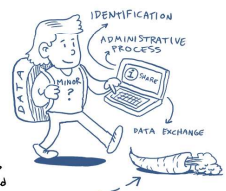*"The Nordic region will become the most sustainable and integrated region in the world in 2030."*

PROJECT AIMS 2021-24
- Identify obstacles and create recommendations
- Build a Proof of Concept
- Expand existing networks, e.g. EMREX

DENMARK · FINLAND · ÅLAND · SWEDEN · NORWAY · ICELAND

- BEST PRACTICES
- REFINE BASELINE STUDY RESULTS
- CREATE PROPOSALS FOR ACTIONS ITEMS
- USE CASE PILOT
- ESTABLISHED COOPERATION STRUCTURE AND PRACTICES
- RECOGNISE BARRIERS THROUGH EIF → EUROPEAN INTEROPERABILITY FRAMEWORK
- POC
- IDENTIFY AND ENGAGE KEY ACTORS

II
I — WE ARE HERE ATM

FAROE ISLANDS · ESTONIA · GREENLAND · LATVIA · LITHUANIA
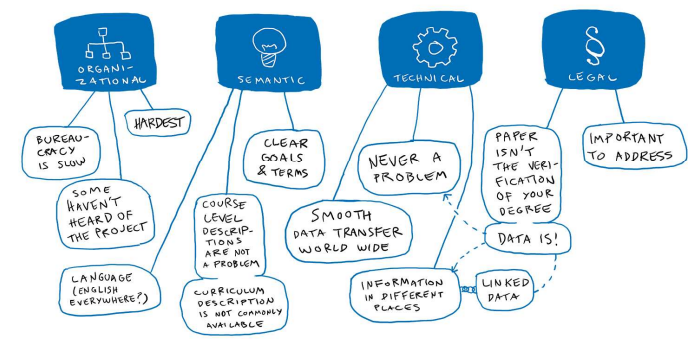
USE CASE SCENARIO
1. Learner applies for studies through the application system
2. Learner shares their previous study record data by using an electronic data exchange solution

→ The youth is three times more capable of using these services
→ They are also impatient and need to be motivated

IDENTIFICATION
ADMINISTRATIVE PROCESS
DATA
MINOR
SHARE
DATA EXCHANGE

STUDY DATA AVAILABLE (Upper Secondary)
+ Machine readable
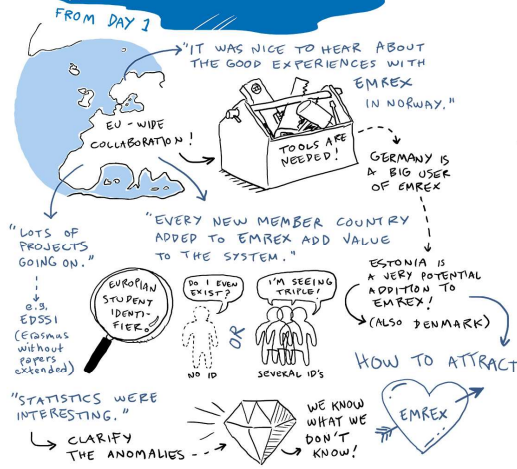− Descriptive information in English

I CAN READ!

EMREX TRANSFERS
→ WHAT? Decentralized system used for transferring study credits internationally
→ Utilizes the ELMO XML schema
→ 2 (+1) system components:
  • EMREX client EMC
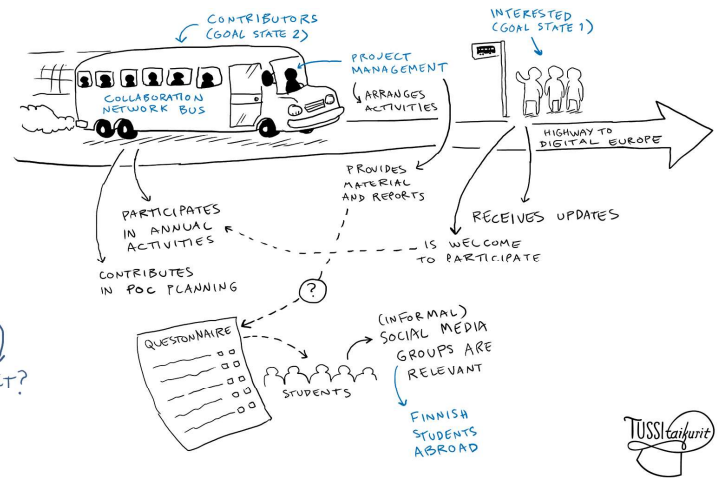 • Data access point EMP
  (+ EMREG)

EMREX.eu & EMREX service Finland

EXAMPLE: EMREX EMP in Finland
- Uses national VIRTA student information database
- Student is in control of data
- Most data is Finnish HEI's

COMMENTS & QUESTIONS
- What about countries that are not in the system?
  → we would need data converters
- In Norway we use EMREX for job recruitment
  (200 million NOK saved yearly)
    ↳ (20 million €)

REFLECTIONS
FROM DAY 1

"IT WAS NICE TO HEAR ABOUT THE GOOD EXPERIENCES WITH EMREX IN NORWAY."

EU-WIDE COLLABORATION!

TOOLS ARE NEEDED!

GERMANY IS A BIG USER OF EMREX

"LOTS OF PROJECTS GOING ON."
e.g. EDSSI (Erasmus without papers extended)

EUROPEAN STUDENT IDENTIFIER
DO I EVEN EXIST?
I'M SEEING TRIPLE!
NO ID
OR
SEVERAL ID'S

"EVERY NEW MEMBER COUNTRY ADDED TO EMREX ADD VALUE TO THE SYSTEM."

ESTONIA IS A VERY POTENTIAL ADDITION TO EMREX!
→ (ALSO DENMARK)

HOW TO ATTRACT?

"STATISTICS WERE INTERESTING."
↳ CLARIFY THE ANOMALIES

WE KNOW WHAT WE DON'T KNOW!
EMREX

ROUND TABLE DISCUSSION
WHICH SECTION OF THE EIF SHOULD WE PUT THE MOST EFFORT TO?

ORGANI-ZATIONAL
- BUREAUCRACY IS SLOW
- HARDEST
- SOME HAVEN'T HEARD OF THE PROJECT
- LANGUAGE (ENGLISH EVERYWHERE?)

SEMANTIC
- CLEAR GOALS & TERMS
- COURSE LEVEL DESCRIPTIONS ARE NOT A PROBLEM
- CURRICULUM DESCRIPTION IS NOT COMMONLY AVAILABLE

TECHNICAL
- NEVER A PROBLEM
- SMOOTH DATA TRANSFER WORLD WIDE
- INFORMATION IN DIFFERENT PLACES

LEGAL
- PAPER ISN'T THE VERIFICATION OF YOUR DEGREE
- IMPORTANT TO ADDRESS
- DATA IS!
- LINKED DATA

EXPECTATIONS FOR FUTURE COLLABORATION

CONTRIBUTORS (GOAL STATE 2)
INTERESTED (GOAL STATE 1)

COLLABORATION NETWORK BUS

PROJECT MANAGEMENT
↳ ARRANGES ACTIVITIES

HIGHWAY TO DIGITAL EUROPE

PROVIDES MATERIAL AND REPORTS

PARTICIPATES IN ANNUAL ACTIVITIES

RECEIVES UPDATES

CONTRIBUTES IN POC PLANNING

IS WELCOME TO PARTICIPATE

QUESTIONNAIRE

STUDENTS

(INFORMAL) SOCIAL MEDIA GROUPS ARE RELEVANT

FINNISH STUDENTS ABROAD

TUSSItaikurit

Digital Compass

What about the market drivers?

- Political & Business

PEOPLE ARE THE DRIVER

No icebergs, icecube might be enough

Denmark

World's smoothest, this doesn't always go so smoothly

New national strategy for the FUTURE

Iceland

- Linking health care and wellfare
- Looking forward for future participation

Common will is important

Finland

We need more!

Going towards of utilization of DATA electronic ID-Wallet KANTA Social & health Care Reform

Lithuania

- Collecting more & more health data in national level
- Developing digital identification

Norway

- Cross-bording development in Nordic countries

Critical components

What have we learned from COVID?

Nordic Council of Ministers

Sweden

We are representing Nordic counsil!

- There has been legal issues
- Nordic e-health service

Lets put our brains together

Champion of transforming

Latvia

- New digital strategy
- Looking for the best experiences

Faeroe

Estonia

Åland

Could health care digitalization be like building the bridge?

Benefit analysis

Tricky valuing?

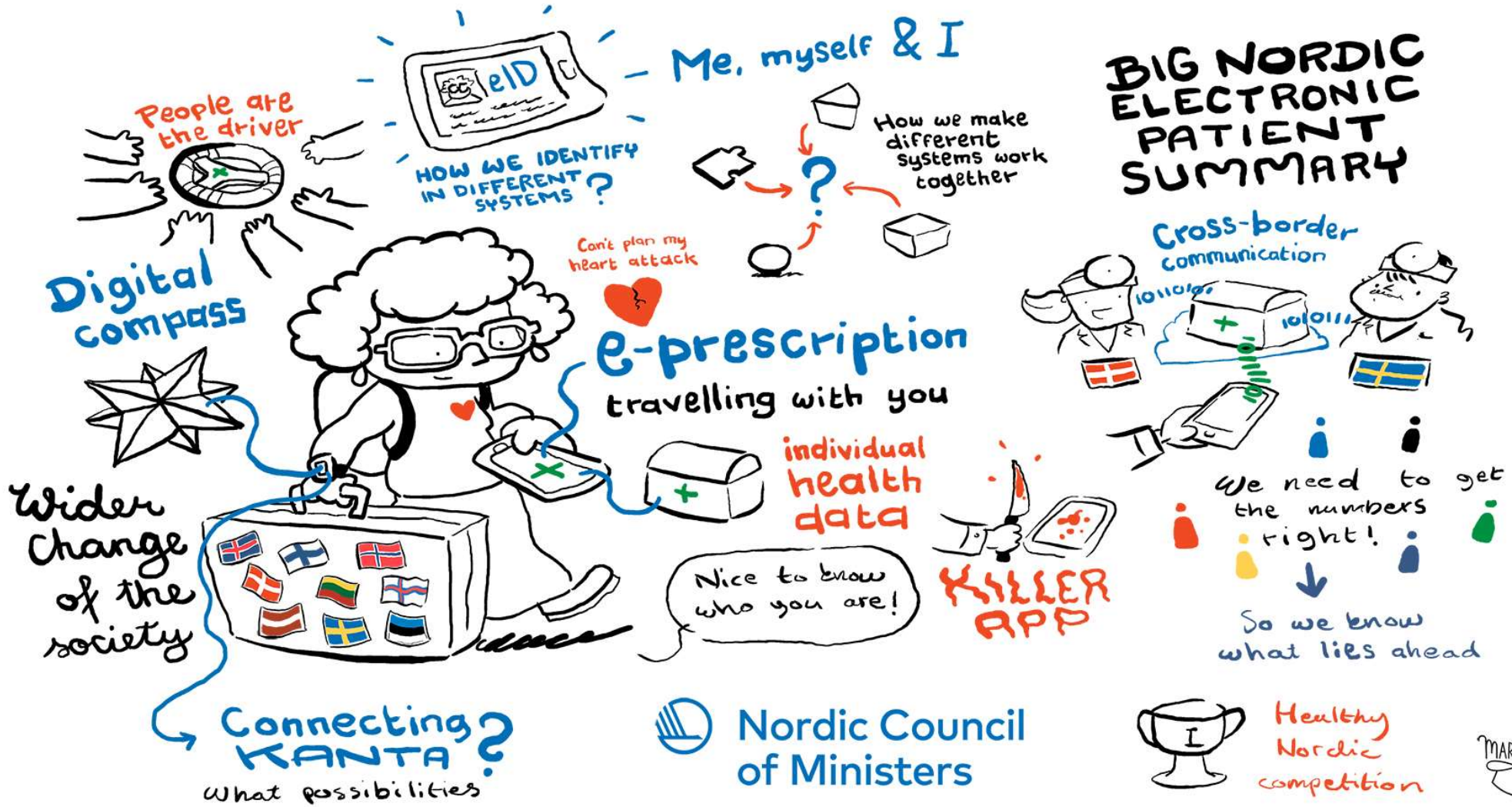e-prescription in northern countries

We need to remember to also save the world!

MARKERwizards

THE VERSATILE USE OF THE NORDIC AND BALTIC LEGAL DATABASES

WP3 – 30/11–1/12/2021

NEXT STEPS:

WHAT KIND OF SUPPORT IS NEEDED FOR A JOINT SEARCH INTERFACE?

THE QUESTION IS HARD TO ANSWER AT THIS STAGE... → TOO MANY UNKNOWNS

LITTLE RESOURCES FOR INTERNATIONAL PROJECTS
→ PRIORITIZE EU
→ COMPATIBILITY WITH EU PROJECTS IS A BIG PLUS

HERE WE GO!

FUNDING? MANPOWER? CONTACT THE RIGHT AUTHORITY

WORKING GROUP:
- HYBRID MEETINGS
- QUARTERLY?

START WHERE WE ARE, DO WHAT WE CAN!

THIS IS THE WAY.

PROOF OF CONCEPT:

SPRING 2022 COMING SOON!

HOW ABOUT STG, INFONORDEN?

1. ANALYZE METADATA
2. CREATE DEMO
3. EVALUATE BENEFITS 2023?

EXPERT ANALYSIS OF CHOSEN CASES?

→ PROJECT SHOWS PROMISE, PROOF-OF-CONCEPT WILL TELL US MORE

SHOULD WE CLARIFY THE PROJECT FURTHER FIRST?

Nordic Council of Ministers

TUSSI taikurit

Information management map of public administration

- describes the way in which information management is organised in public administration

- allows actors to plan and develop the interoperability of public administration information pools and information systems

Purpose of the map

- To direct different actors with a general view of what the key information pools in public administration are
- what information are maintained
- how the information they contain is utilized
- how is the disclosure of information between different information pools organized
- under what conditions could the actors access the information

Tiedonhallintakartta

Vastuuministeriö

- [ ] Liikenne- ja viestintämin...
- [ ] Maa- ja metsätalousmin...
- [ ] Oikeusministeriö
- [ ] Opetus- ja kulttuurimini...
- [ ] Puolustusministeriö
- [ ] Sisäministeriö
- [ ] Sosiaali- ja terveysminis...

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Tietovaranto

- [ ] Aluevalvonnan lupa- ja valvonta-asioi...
- [ ] Arpajaisten valvontatiedosto
- [ ] Asevelvollisrekisteri
- [ ] Asiamiesrekisteri
- [ ] Asiamiestutkintorekisteri
- [ ] Ehdokasrekisteri
- [ ] Eläinkuljettajarekisteri

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Tietovarannon osa

- [ ] (Blank)
- [ ] Aluksen satelliittiseurantajärjestelmä
- [ ] Diaari- ja asianhallintatietojen valtaku...
- [ ] Energiatodistusrekisteri
- [ ] Ensiostajarekisteri
- [ ] Hallinnolliset ja muut vastaavat alueja...
- [ ] Hallintakohderekisteri

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Tietovarannon sisällön ryhmittely

- [ ] Aluetiedot
- [ ] Asiakastiedot
- [ ] Etuus- ja tulotiedot
- [ ] Henkilöstötiedot
- [ ] Henkilötiedot
- [ ] Kiinteistötiedot
- [ ] Koulutus- ja tutkintotiedot

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Tietovarannon säädös

- [ ] Arpajaislaki (1047/2001)
- [ ] Elintarvikelaki (279/2021)
- [ ] Eläintautilaki (76/2021)
- [ ] Henkilökorttilaki (663/20...
- [ ] Jätelaki (646/2011)
- [ ] Kalastuslaki (379/2015)
- [ ] Kaupparekisterilaki (129...
- [ ] Kiinteistörekisterilaki (39...
- [ ] Kuvaohjelmalaki (710/20...
- [ ] Laki auktorisoiduista teo...
- [ ] Laki eläinlääkärinammati...
- [ ] Laki eläinten kuljetukses...
- [ ] Laki Euroopan meri- ja k...

Tietovarannon nimi	Tietovarannon osa	Tietovarannon muu vakiintunut nimike
Patojen valvonnan tietojärjestelmä		Vesitalouden tietovaranto
Hätäkeskustietojärjestelmä		ERICA
Kiinteistörekisteri		
Kiinteistötietojärjestelmä		
Kauppahintarekisteri (kiinteistöt)		Kiinteistöjen luovutustiedot

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Baseline study report:

https://pub.norden.org/temanord2021-547

Presentations:
https://wiki.dvv.fi/display/WSCMD/Seminar+for+national+experts+i
n+Helsinki%2C+Finland+13th+October+%7C+Workshop

Thank you!