

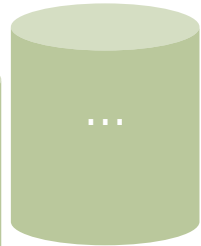
Estonian
Information System's
Authority

Interoperability Assets Repository RIHA



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X-road

connects over 200 systems



RIHA is a national catalog of interoperability assets



Services of RIHA

- **Catalogue service**
- **Joining the X-road**
- **X-road certificate application/award**
- **Opening of X-road services**
- **Authorisation service**
- **Registration service**
- **Visualisation**
- **Special queries**
- **Messaging**
- **Analytical**
- **Consulting**



What is RIHA?

RIHA is the catalogue of Estonian public sector information system.

RIHA facilitates information system planning and operations activities.

RIHA is a set of principles, a register and an application.

Klassifikaatorid

Andmeobjektid

Valdkonnad ja sõnastikud

Kontaktisikud

XML varad

Nimi:

Kategooria:



registri
iitsmi

Li
H

idus:

From legal point of view, RIHA is a set of principles as well as a major state register. RIHA is regulated by Public Information Act and a special regulation on RIHA. The law establishes duties of all parties. For state agencies usage of RIHA is mandatory.

From technical point of view, RIHA is a secure web-based database and software application.



<https://riha.eesti.ee>

RIHA is open to everybody.

The capability of working together: interoperability

- Decompose state information system into subsystems and components that are easy to manage. Do not build supersystems!
- Integrate these systems and components using standardised interfaces (XML services)
- Every information system must be ready to offer services to other systems
- Every information system must describe its services in RIHA
- It is expected that systems use services of other systems.

Interoperability questionnaire

- > Does your information system use X-road?
- > Are you public service free of charge?
- > Do you adhere to relevant standards?
- > Do you use XML?
- > Have you documented architecture and processes?
- > Authenticate users using ID card?
- > Do you have usable web site? (WAI standard), etc

Non-compliance is possible but it must be justified.

		Selgitus, kui vastus on "ei"
määrus	ei	Infosüsteem on loodud enne x-tee loomist.
) kaudu? rogilise	ei	Infosüsteem on loodud enne x-tee loomist.
sed) on	jah	
ivatud rogilise	ei	Andmekogu välisliidestest ei kasutata ainult avatud standardeid.
i ja XML	ei	Infosüsteem on loodud enne XM

The principle of non-duplication

No duplication of data – otherwise you'll have synchronisation problems

No duplication of development effort – do not re-invent the wheel! – use standard components

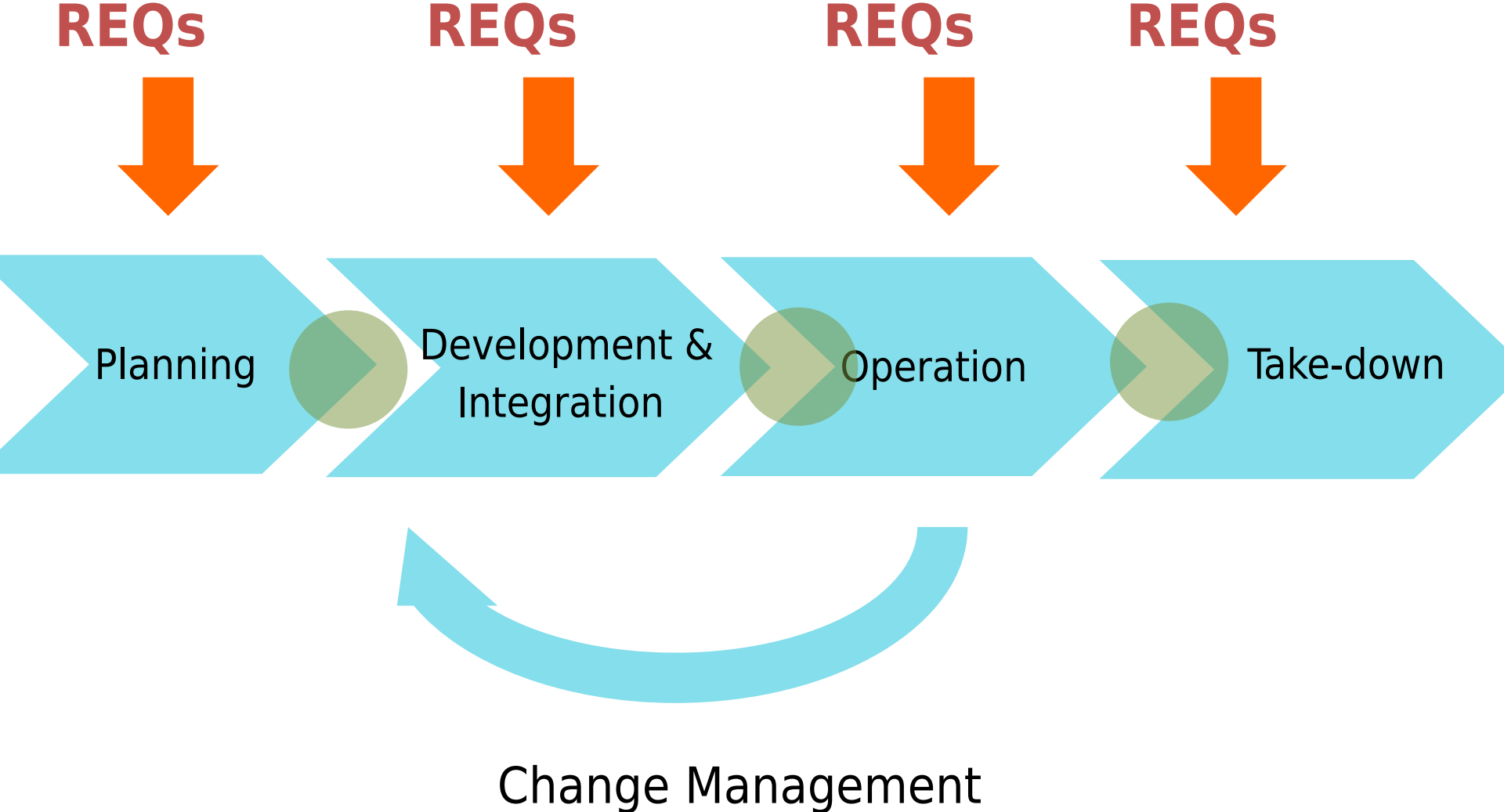
It's okay to duplicate:

- > to promote innovation and flexibility
- > to spread security risks

It's very much okay to duplicate:

- > best practice.

Information System Life Cycle



Life cycle support

- Concept of a new system > Document your idea!
- 1st round of approval: Approval Decision > Public Procurement > Development Project
- 2nd round of approval: Approval Decision > The new system can be put into actual use
- Enhancements in existing systems follow the same procedure.



Who runs RIHA?

Policy maker: Ministry of Economics and Communication; Operator: Estonian Information System's Authority.

BUDGET

*Operation: ca €
200,000 per year*

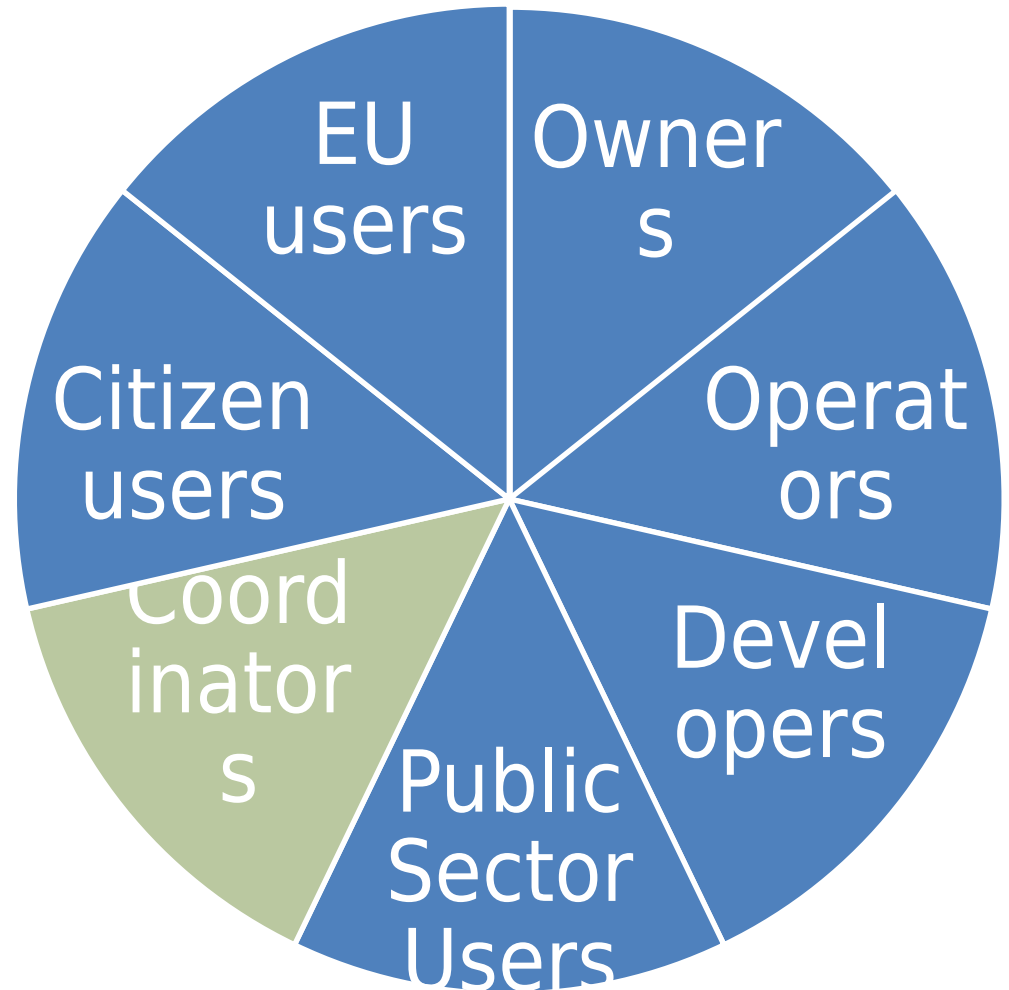
*Development: ca €
200,000 per year*

Who uses RIHA?

- > Owners of information systems - agencies of central government, local governments as well as companies (~ 600)
- > Developers - IT companies who provide IT services, integrate existing systems and develop new systems
- > Supervisory authorities (five agencies)
- > Citizens who use information systems
- > Planning authorities

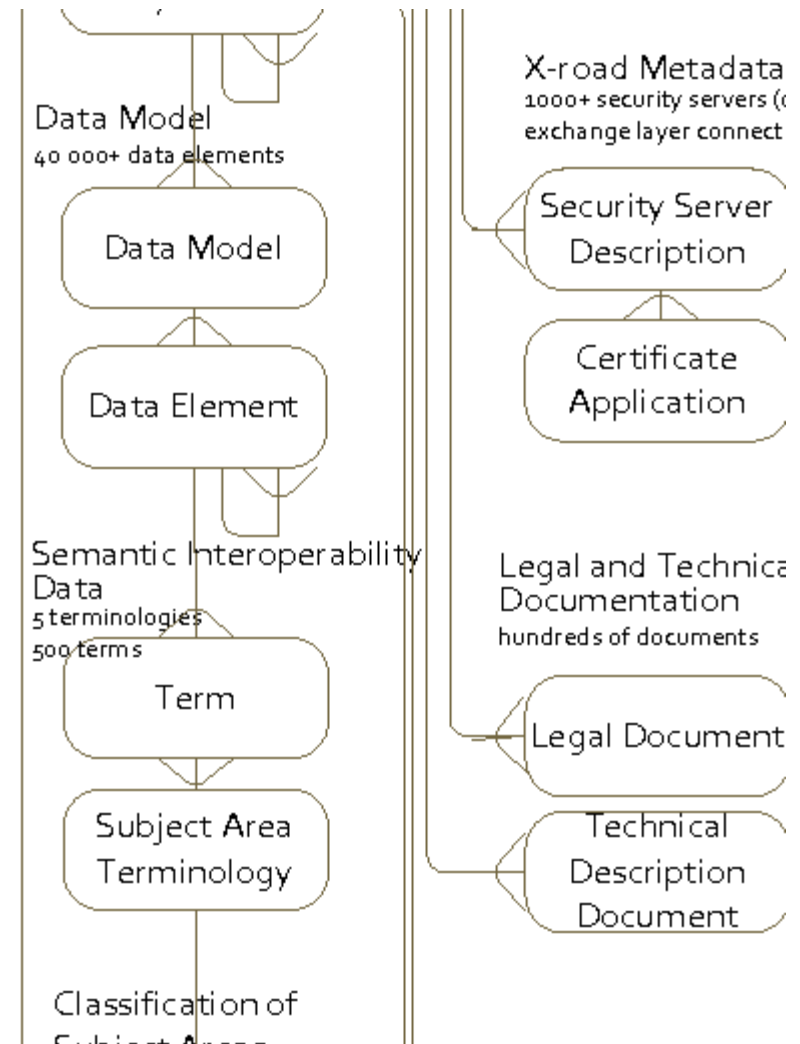
RIHA provides interfaces to all major user groups.

Who uses RIHA?



What data does RIHA hold?

500-600 information system descriptions
2500 service descriptions
40,000 data objects
650 code lists
~10 ontologies
a few XML schemas
750 organisational entities
1400 contact persons



How do we get this data?

Legal requirement Production and sharing of metadata is required by law. Owners have to document their information systems in RIHA and keep the documentation up to date.

By developing mutual trust and co-operation
Extensive, ongoing programme of workshops and informational events (3-5 events per year).

By integrating metadata registry into information systems planning and operation processes.

How can RIHA data be used?

Through human interface: <https://riha.eesti.ee>.

By links to objects by their „cool“ URIs.

By downloading files: PDF, XML, CSV, WSDL, OWL, SDMX, XSD.

Machine interface: –

Legal context: Law (Public Information Act) stipulates free access to all RIHA content (except information security detail).

No explicit licensing yet but that will change soon.

- *Both human- and machine-readable formats are important.*
- *Provide formats that users need.*

What RIHA is not?

Repository of reusable, free software

Configuration management system

Project portfolio management system

Open data portal

Financial system

Chat room for IT people.



RIHA does not aim to be everything to everybody.