# Building the next generation e-government



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Government Chief Data Officer

Digital State Development Department

Ministry of Economic Affairs and Communications







#### Vision:

#### Estonia full of digital power



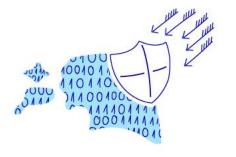
Our way of life powered by digitalisation – it is easy to accomplish what we need or want



We empower people by valuing every person and their contribution to cocreation



Fertile foundation has been established for the creation of future solutions in Estonia



We are protected by the power of digitalisation – our digital life is safe and we make bold advances in digital development



Our economy is powerful thanks to digitalisation – digital solutions are the engine of the entire economy

#### **Principles**

- We protect people's basic rights
- We cherish Estonian culture and language
- We maintain trustworthiness
- We are technology neutral
- We build digital society together
- We are innovative



#### #eEstonia digital government agenda 2030

OBJECTIVE	Best experience			
LEAPs	Switch to life-event based and proactive services	Al-powered government	Human-centric digital government	Green digital government
FOUNDATIONS	Management and user-centricity of public services	Data-driven governance and reuse of data	Futureproof digital government platforms	Centrally provided basic IT services
	Systematic experimentation with new ways	Open innovation and development of govtech community	Empowering digital change in public sector	Targeted international cooperation

## proactive government

seamless public services implementation in process



starting a business



childbirth



buying a car



driving licence



start of school



unemployment & job search



marriage



divorce



disability



military service



change of residence



retirement



death (succession)



building houses



falling victim to an accident



falling victim to a crime



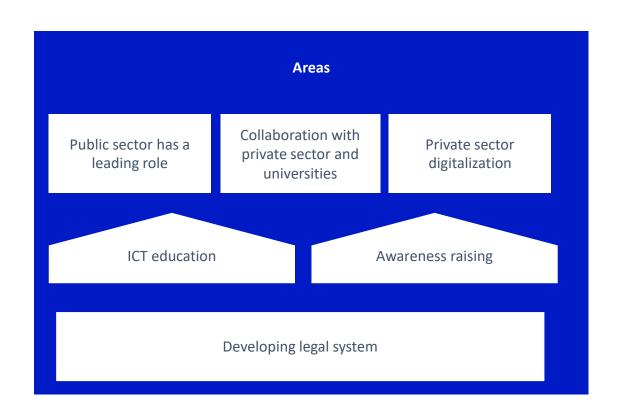


## Al strategy

 Gov Al strategy to build base capacity based on five key pillars: public sector private sector legal system education+R&D data as an enabler



#### Aim: build base capacity and accelarate use



- Use existing measures, if necessary tweak them + additional measures
- Consider EU-wide initiatives
- Recommendations for two year period
- Socio-economic issues don't need special attention

#### Kratt in e-government

Number of use-cases

+08

(aim 50 Al use-cases)

Number of organizations

40+

(aim 25)

Reusable AI components koodivaramu.eesti.ee

20+

(aim 5 components)

Fully automated processes

0

There are no fully automated processes!

## Objectives for 2023

Number of use-cases

130+

Reusable AI components koodivaramu.eesti.ee

40+

Number of organizations

60+

Top ten public service with AI component

10+

#### Al projects

Assessing the risk of long-term unemployment

Unemployment agency

Identifying residential buildings that are fire hazards

The Rescue Board

Training / internships, etc. impact on employment and wages

Unemployment agency

Controlling the names of medicines

**State Agency of Medicines** 

HANS - speech recognition in Parlament

The Chancellery of the Riigikogu

Identification of clear-cutting, height, tree species, crops

ENVIR, KEMIT, MEM jt





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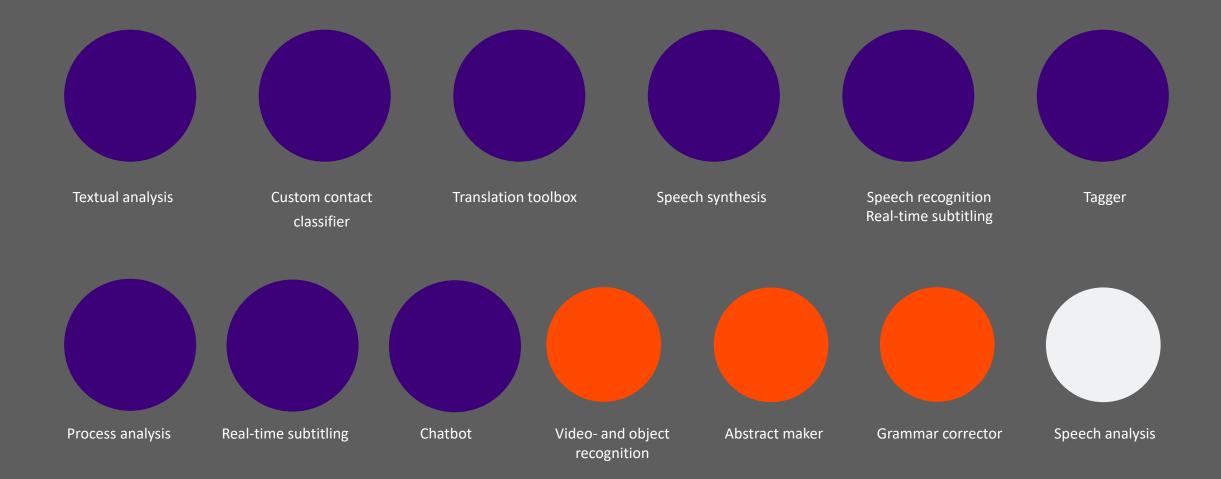
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#### Reusable AI components







#### Bürokratt in a nutshell

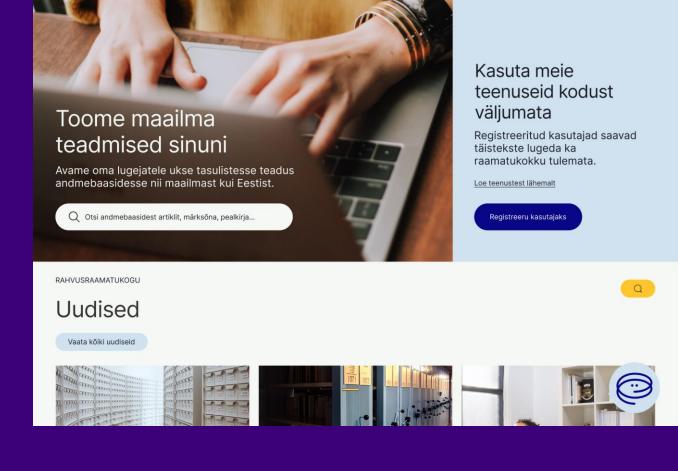
Bürokratt is the vision of how digital public services should work in the age of artificial intelligence (AI)

All government services and information available from one place via virtual assistants:

- by voice
- in Estonian language (+ more)
- in any most common device and channel
- proactively
- open-source and free
- Personalized services (both public- and private sector)



#### Implementation at agencies



Hariduskeskus Asutustele

- Police and Border Control
- Consumer Protection and Technical Regulatory Authority
- 3. National Library



Andmebaasid

RaRa

Hi! How can I help you?

## lessons learned

be boldest

- + Improve search and access to data
- + Ensure data quality and provide metadata
- + Reusability, open-source works!
- + Practical cooperation (between countries, private sector and research institutions)
- + keep it short and simple

# Thank you!



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