

COLLOQUIUM

| 08 Juni 2017 |

Leuven



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Met de steun van

**“Estonia: European champion of digitalization of the public services – impact on management and work conditions of the civil servants?”**

**Gerli Jõgi - Head of HR Estonian Tax and Customs Board**

HR Public

| Sharing Knowledge and Experience



REPUBLIC OF ESTONIA  
TAX AND CUSTOMS BOARD

# DIGITALISATION AND IMPACT ON HRM AT ESTONIAN TAX AND CUSTOMS BOARD

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# ESTONIA IN NUMBERS

- People: 1,3 mln
- GDP (2016): 20,9bn €
- In 2005 Estonia became the first nation to hold elections over the [Internet](#),
- In 2014 Estonia became the first nation to provide [E-residency](#)
- 3 hours to start a company online
- most start-ups per capita
- 1st in tax competitiveness
- lowest government debt









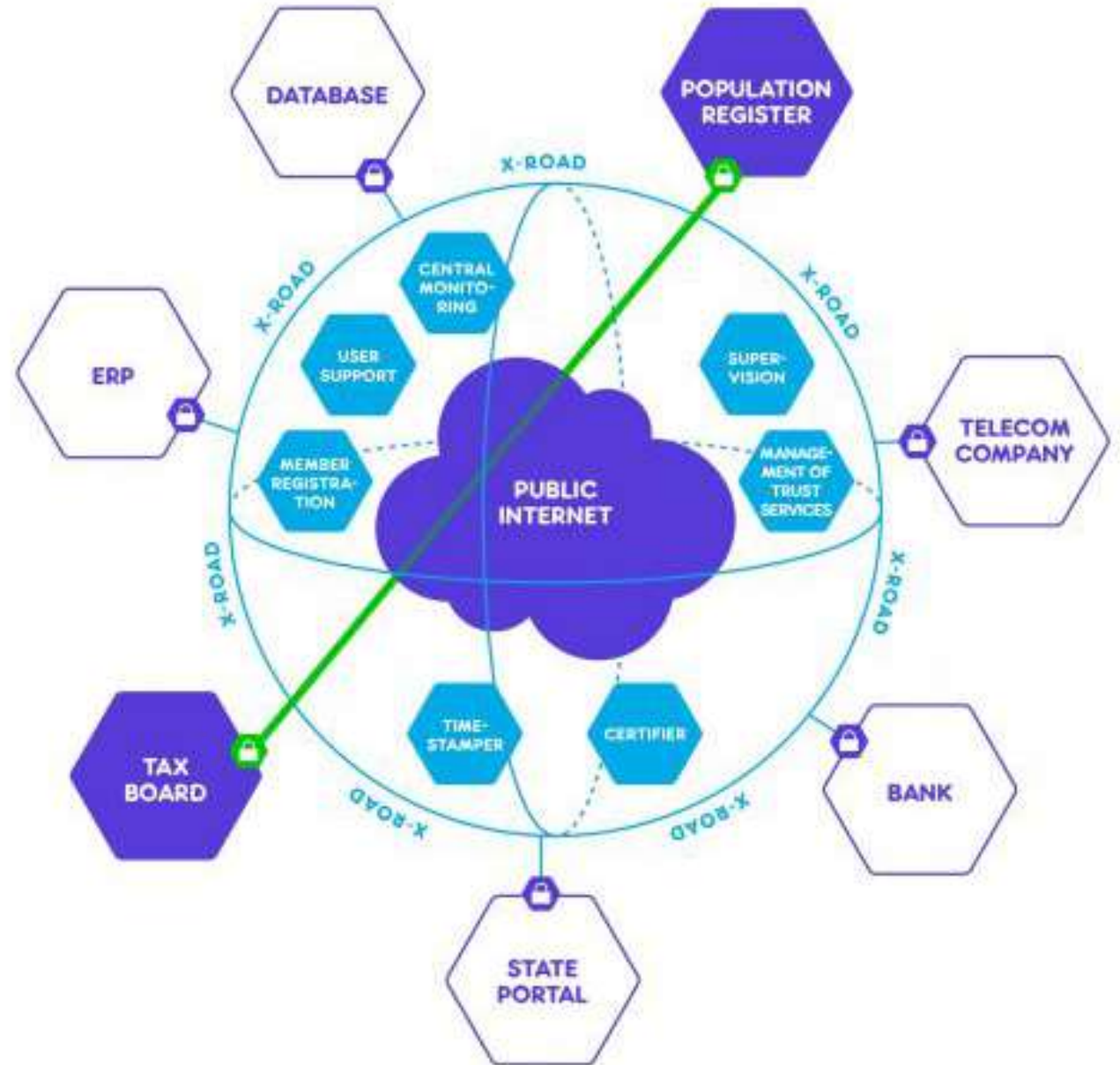
# DIGITAL ECOSYSTEM OF ESTONIA





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TAX AND CUSTOMS BOARD

# X-ROAD and ID-CARD







# ID CARD

- ✓ ID card has 3 main functions :
  - 1) visual identification
  - 2) authentication when using online services
  - 3) digital signature
- ✓ The card contains a chip holding a personal data file and two certificates: one for authentication purposes, and one for qualified digital signatures
- ✓ ID-card certificates are linked to various registries, databases and systems through the Personal Identification Code

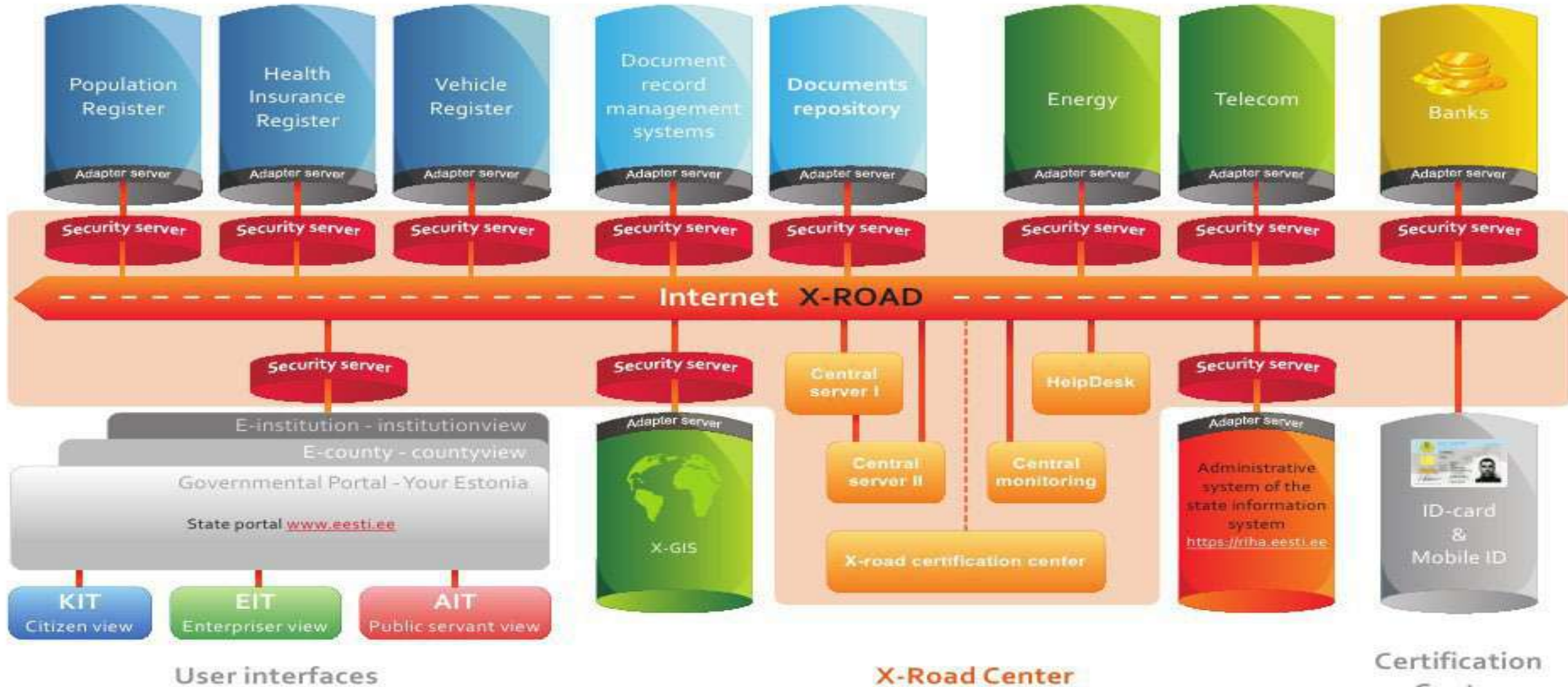




# Estonian information system

## Public sector

## Private sector





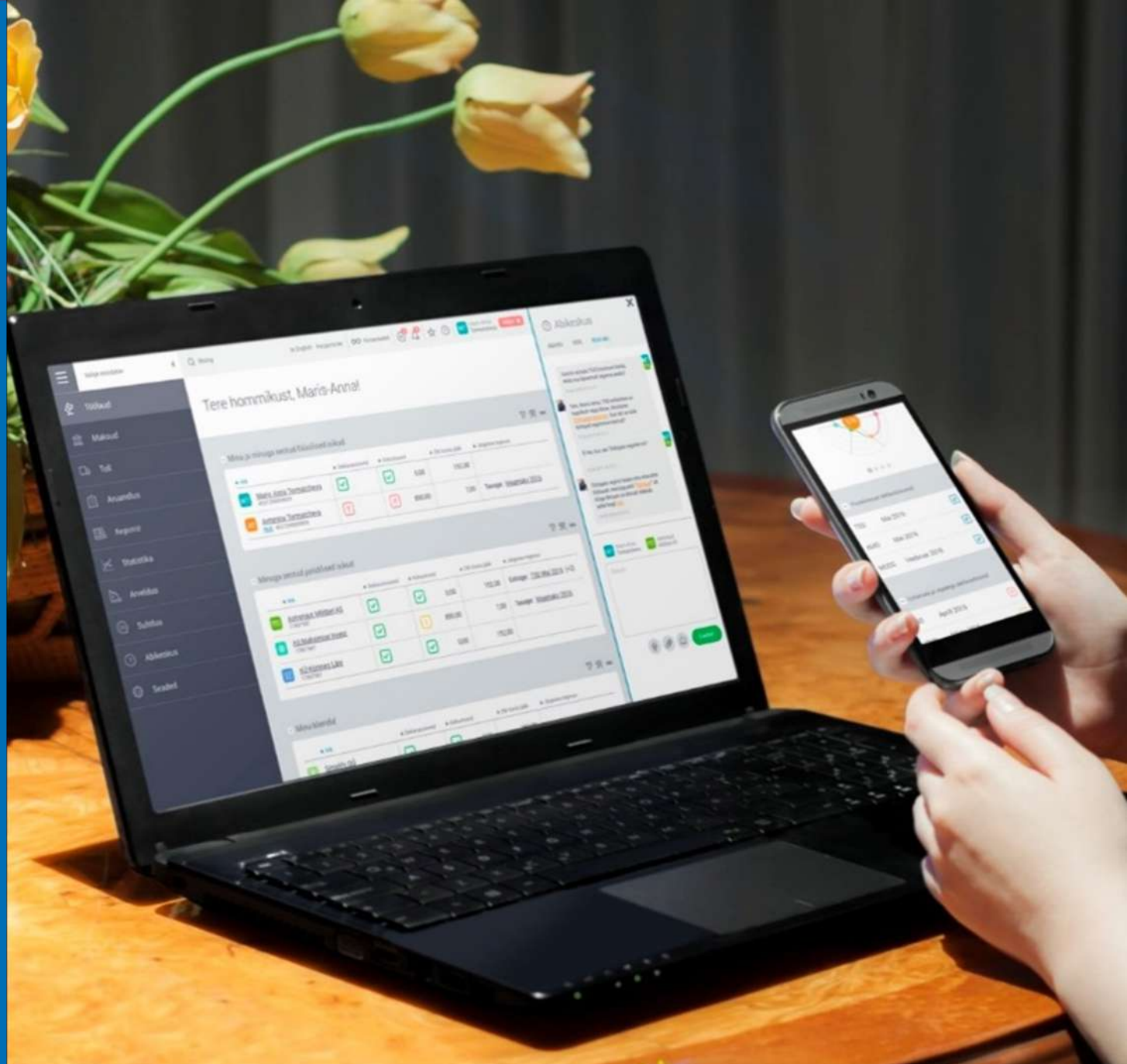


# E-SERVICES (over 2000) eesti.ee

- ✓ Filing tax returns
- ✓ E-prescriptions
- ✓ Submitting a notice of residence
- ✓ Land registry
- ✓ Registry of buildings
- ✓ E-school
- ✓ National examination data
- ✓ Applying for benefits, rehabilitation, special care, pensions (choosing a pension fund), etc
- ✓ Applying for all kinds of permits (construction)
- ✓ Query for own data
- ✓ Establishing a company
- ✓ All business registries and permits (selling excise good, transportation, construction services, fire safety etc)
- ✓ Managing employees' registration (ETCB and Health Fund)
- ✓ Company annual reports and statistical information
- ✓ E-health: (x-rays, family physicians, occupational health physicians)
- ✓ Using x road to offer your services (banking, e-health, using the ID card as a loyalty card)



# DIGITALISATI ON AND HR





# E-tax and e-customs: online tax and customs services

- ✓ Established in 2000, renewing is constant, completely new system in development.
- ✓ Different tax and customs services are available in one system
- ✓ Offers 24 hours a day services for natural and legal persons
- ✓ Enables secure data exchange
- ✓ High-speed, simple, convenient, paper-free

Amount of electronically filed tax returns	
VAT Returns	99,3%
Natural Person Income Tax Returns	95,4%
Customs Declarations	99,8%
Corporate Income Tax and Employer Tax Returns	99,0%





## Cost of collection ratio

2004	2013
1%	0,4%

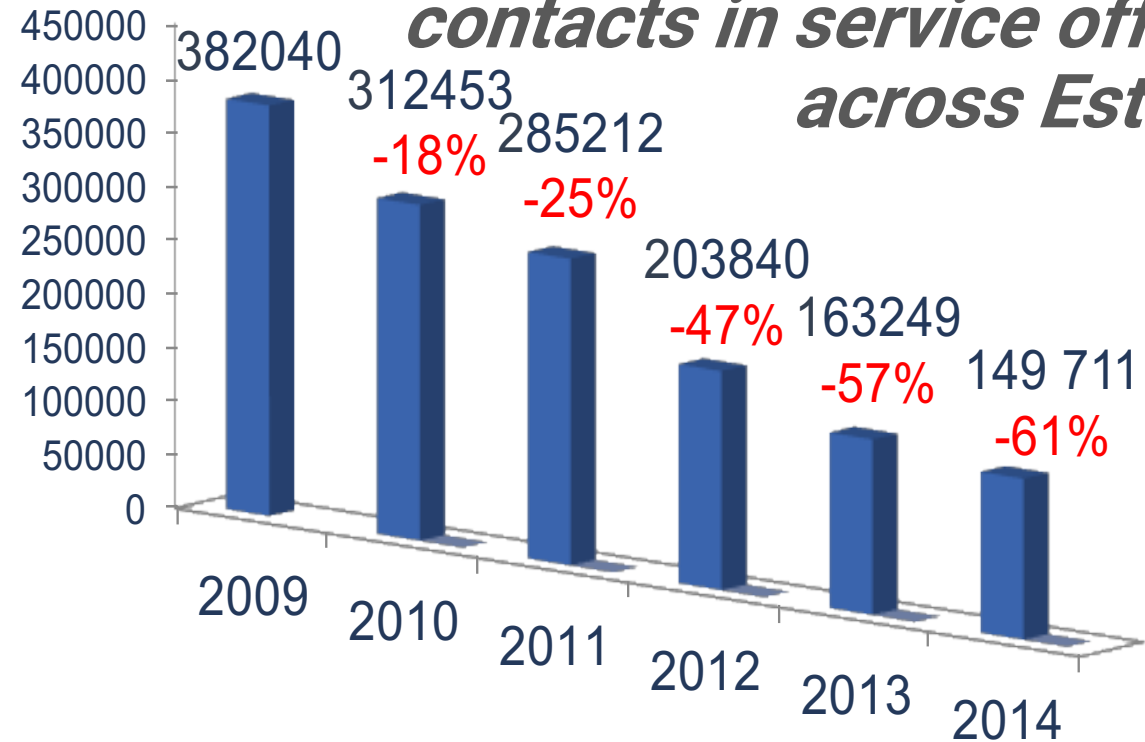
## Office and service office space

2011	2013
30 000m <sup>2</sup>	21 000m <sup>2</sup>

## HR statistics

MTA	01.2003	01.2011	01.2012	01.2013	01.2014	01.2015	02.2016	03.2017
Number of employees	2450	1801	1741	1554	1548	1543	1425	1385

## Number of customer contacts in service offices across Estonia





# Case 1: E- SCHEDULING OF TAX DEBT

Valige esindatav

Otsing

In English Ha rusekom Kuv

Tere hommikust, Maris-Anna!

Mina ja minuga seotud füüsilised isikud

Isik	Deklaratsioonid	Kohustus
<b>MT</b> <u>Maris Anna Tormatcheva</u> 4537299809809	✓	✓
<b>AT</b> <u>Antonina Tormatcheva</u> 4537299809809	!!	!!

Minuga seotud juriidilised isikud

Isik	Deklaratsioonid	Kohustus
<b>MT</b> <u>Astronaut Mööbel AS</u> 17897987	✓	✓
<b>MT</b> <u>AS Maksimise Invest</u> 17897987	✓	!
<b>MT</b> <u>KÜ Kümnes Läte</u> 17897987	✓	✓

Minu kliendid

Isik	Deklaratsioonid	Kohustus
<b>MT</b> <u>Simplify OÜ</u> 17897987	✓	✓

MADE WITH TVISION



# E-scheduling of tax debt

- ✓ **Low-risk companies can plan the payment schedule of their tax debts in the e- tax system by themselves.**

## IMPACT:

- ✓ **The service has increased the number of companies who want to schedule their tax debt over 2 times. However, we see it as positive:**
  - ✓ **They have a possibility to manage their cash flow.**
  - ✓ **They are actively managing their debt.**
  - ✓ **If they had paid all of their debt, the state would not have received interest.**



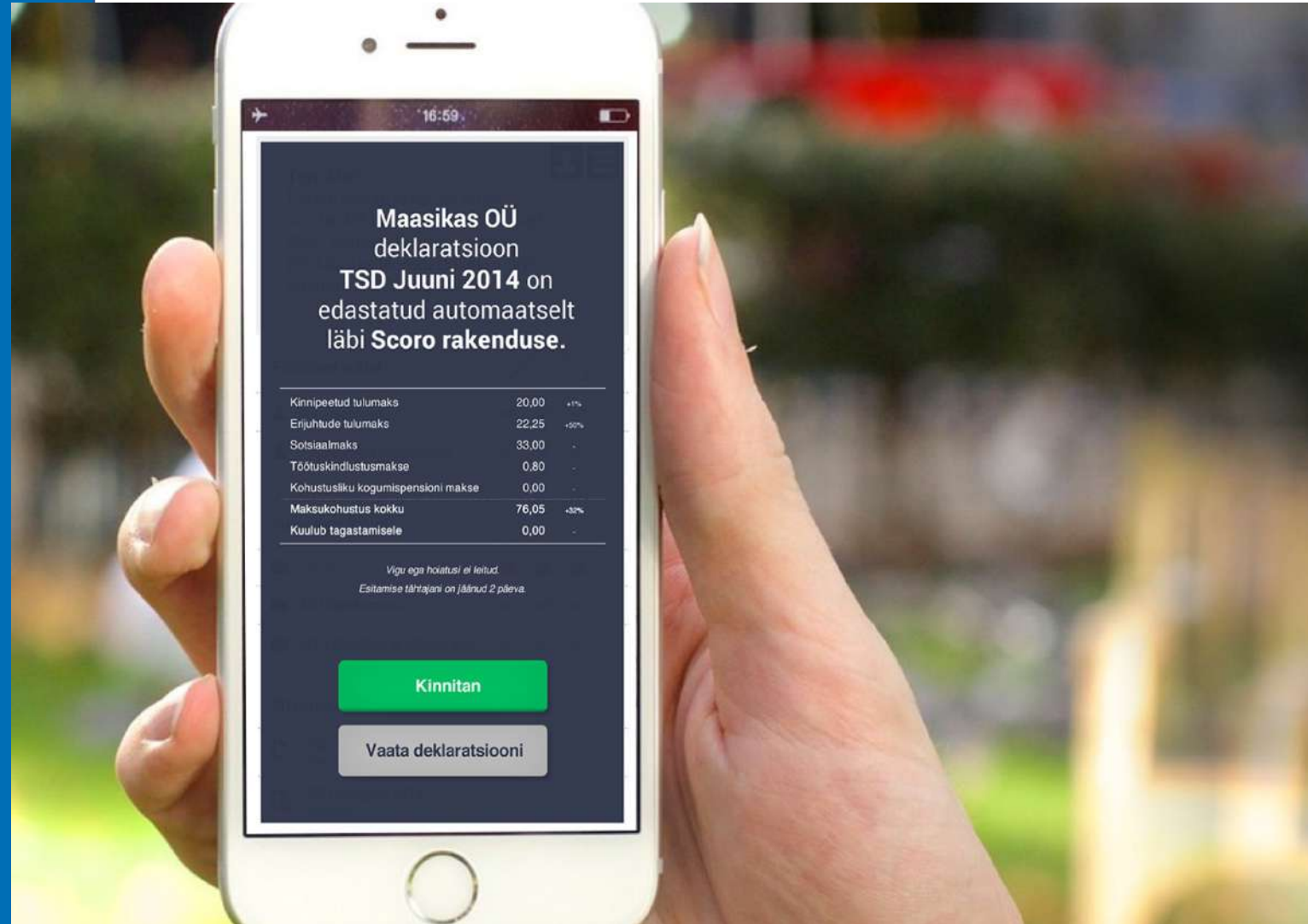


# E-scheduling of tax debt. Impact for ETCB

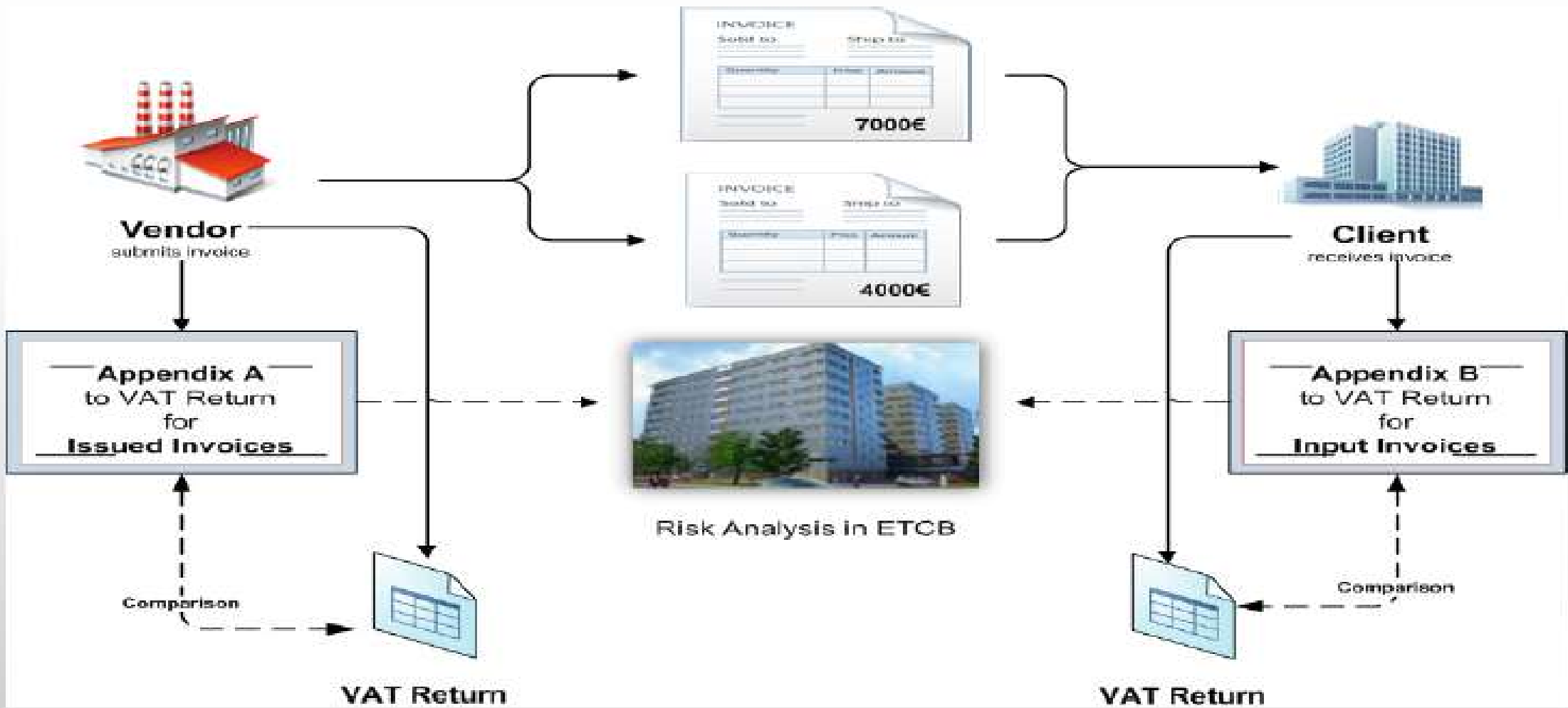
- ✓ **If they don't schedule the debt themselves, we have to schedule it for them or start the debt recovery process.**
- ✓ **Less employees are needed for more simple jobs: debt scheduling and simple activities for debt recovery.**
- ✓ **More resources are channelled to bigger and complex debt cases.**



# Case 2: VAT APPENDIX: information on all transactions over 1000€

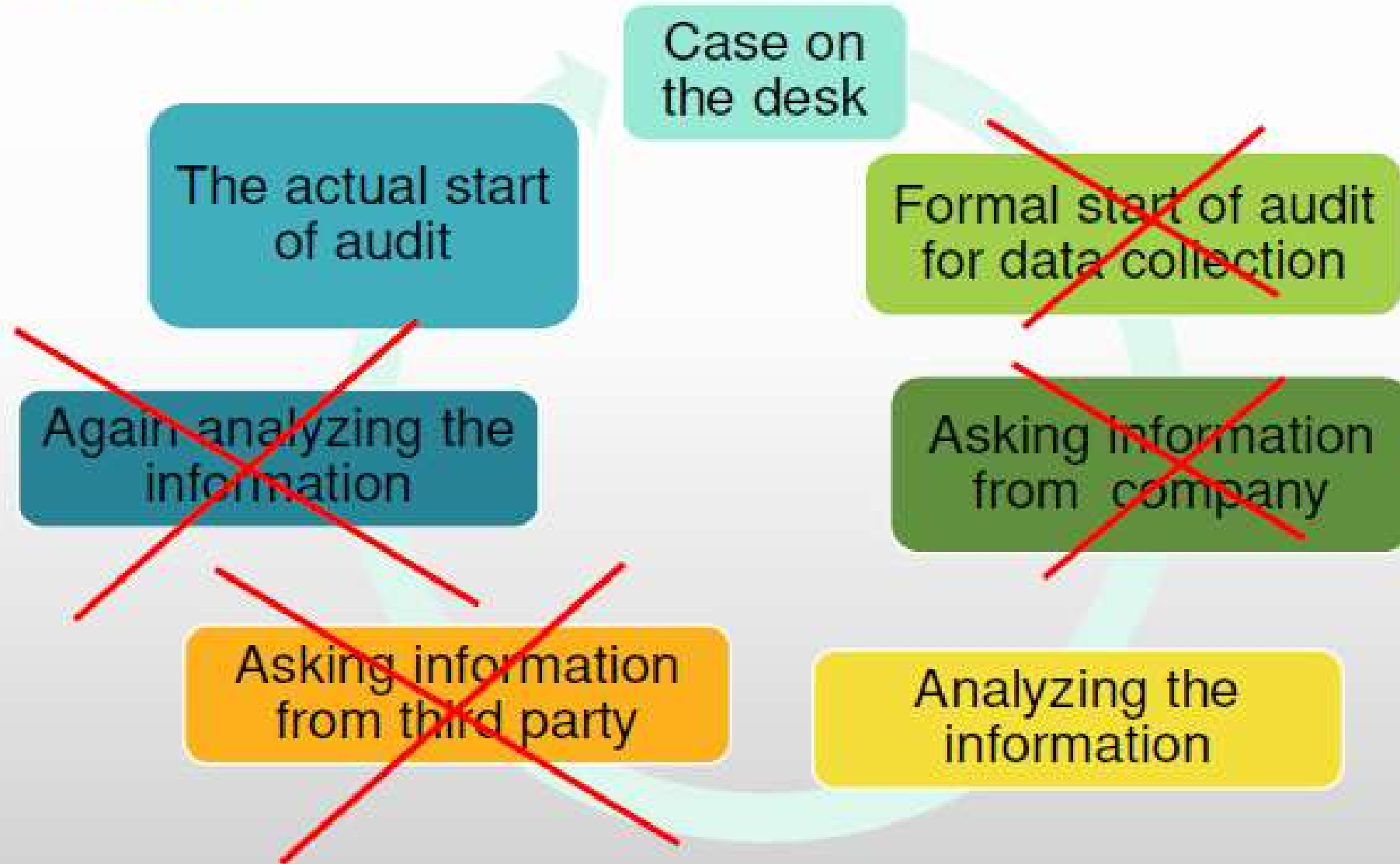


# VAT Appendix: to get information about the same transaction from both sides





# Changes in audit department's workflow





# VAT APPENDIX:

## BEFORE

- ✓ a lot of resources went into asking necessary information from companies and third parties and deliberating on a need to start an audit

## NOW

- ✓ Informational support for risk analysis
- ✓ information is already there,
- ✓ a decision on an audit is quick.
- ✓ fewer and quicker audits. Mostly counselling and consultation.
- ✓ business intelligence and data analysis



# CASE 3: PROOF OF REDUCED WORK ABILITY

**TÖÖVÕIME KAART**  
Work Ability Card

Kaardi nr / Card no  
XXXXXXXXXXXX

EES- JA PEREKONNANIMI XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX  
Given Names and Surname

ISIKUKOOD #####  
Personal Code

SÜNNIAEG ##.##.####  
Date of Birth

TÖÖVÕIME OSALINE KEHTIV KUNI ##.##.####  
Work Ability Partially able to work Date of Expiry

VÄLJAANDJA EESTI TÖÖTUKASSA  
Issued by Estonian Unemployment Insurance Fund



# Solution

- ✓ **A person who wants the benefit/discount, approaches the service specialist and authenticates herself with the ID card.**
- ✓ **The service specialist either uses the reader on inserts personal identification code into Unemployment Insurance Fund's database which activates the control procedure.**
- ✓ **Database generates a random control code (a 4-digit number) and the code is displayed on the screen.**
- ✓ **At the same time, the Fund's database sends the same code to the mobile phone of the customer that proves the right for the benefit/discount. The customer shows the text message to the service specialist.**
- ✓ **Service specialist compares codes and enables the benefit.**



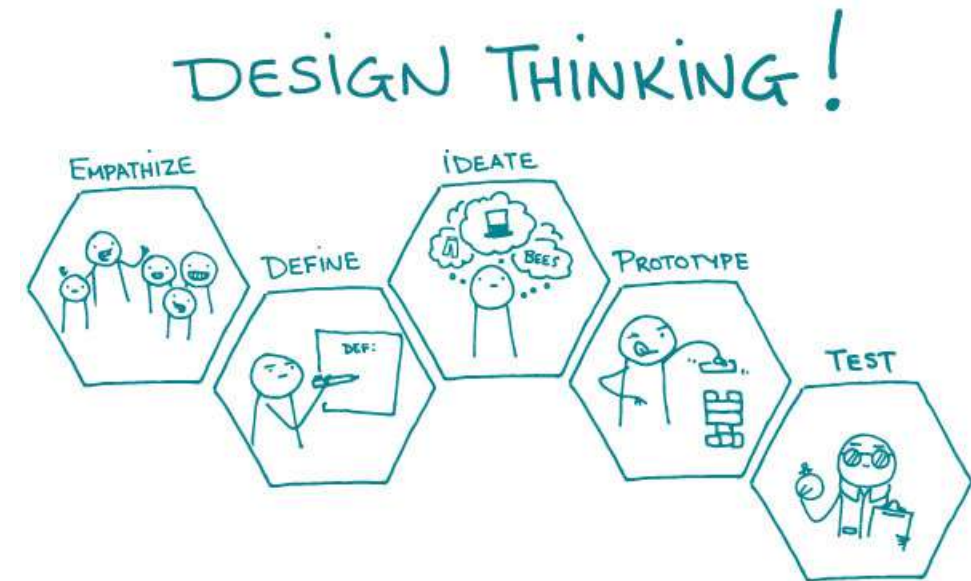


# HUMAN RESOURCES



# Requirements for in-house business analysts: knowledge of service design and design thinking

- ✓ Envisioning (mind mapping, story telling, role play, design games etc)
  - ✓ How to uncover customer needs?
  - ✓ How do we do it together (people managing the business process, in-house IT and an IT partner)
  - ✓ How to rethink business processes so that they match customer needs?
- ✓ Prototyping: testing, learning, improving





# Requirements for in-house business analysts: knowledge of e-services development and IT system development

- ✓ Business analysis and business process modelling
- ✓ Cost-benefit analysis
- ✓ Systems development lifecycle (analysis, design, UX/UI design, implementation, prototyping, testing, installation, evaluation, maintenance)
- ✓ Systems development methodology (agile, scrum, waterfall etc)
- ✓ Project management



# Requirements for all staff at ETCB: IT basics

- ✓ X-road, movement of data
- ✓ Cyber security and data security
- ✓ Big data, data queries and reports, knowledge of analysis systems
- ✓ Asking data from customers
- ✓ Data analysis
- ✓ Service thinking, e-service thinking. How to be partners to in-house business analysts
- ✓ System testing





# Staffing and costs

- ✓ **Processes are different or no longer needed**
- ✓ **Core competencies are changing**
- ✓ **Key positions**
- ✓ **Changes in organisational structure, disappearing jobs, lay offs.**
- ✓ **Increase of salaries**
- ✓ **Staff costs vs cost of inaction**
- ✓ **IT investments are directly influencing staff costs**
- ✓ **New talent: internal hires and headhunting**

# HR in software industry

- ✓ Shortage of IT staff
- ✓ No (project) management in scrum projects
- ✓ New type of HR models in software industry
- ✓ Software industry HR runs on pay, incentives, well-being and relationship building.



# New goals?



MAKSU- JA TOLLIAMET



# Change of mindset first, digitalisation second

- ✓ In order to digitalise (more), we need to change our mindset, behaviour and processes.
- ✓ Advising and consulting
- ✓ New self-service section in online tax and customs services:
  - ✓ ETCB will analyse and visualise all tax data for businesses, including tax risk. Based on that businesses have to act and make corrections. If they don't, next step is auditing.
- ✓ To diminish work that can be done by technology
- ✓ Tax morality, growth of future tax base



# Overview of the tax environment and tax data to businesses

## RISK ASSESSMENT

Both tax compliance and likelihood of tax audit



TAX MORALITY

## BACKGROUND INFORMATION

Public data and information published to the extent permitted by a transaction partner



SUPPORT

## STATISTICS

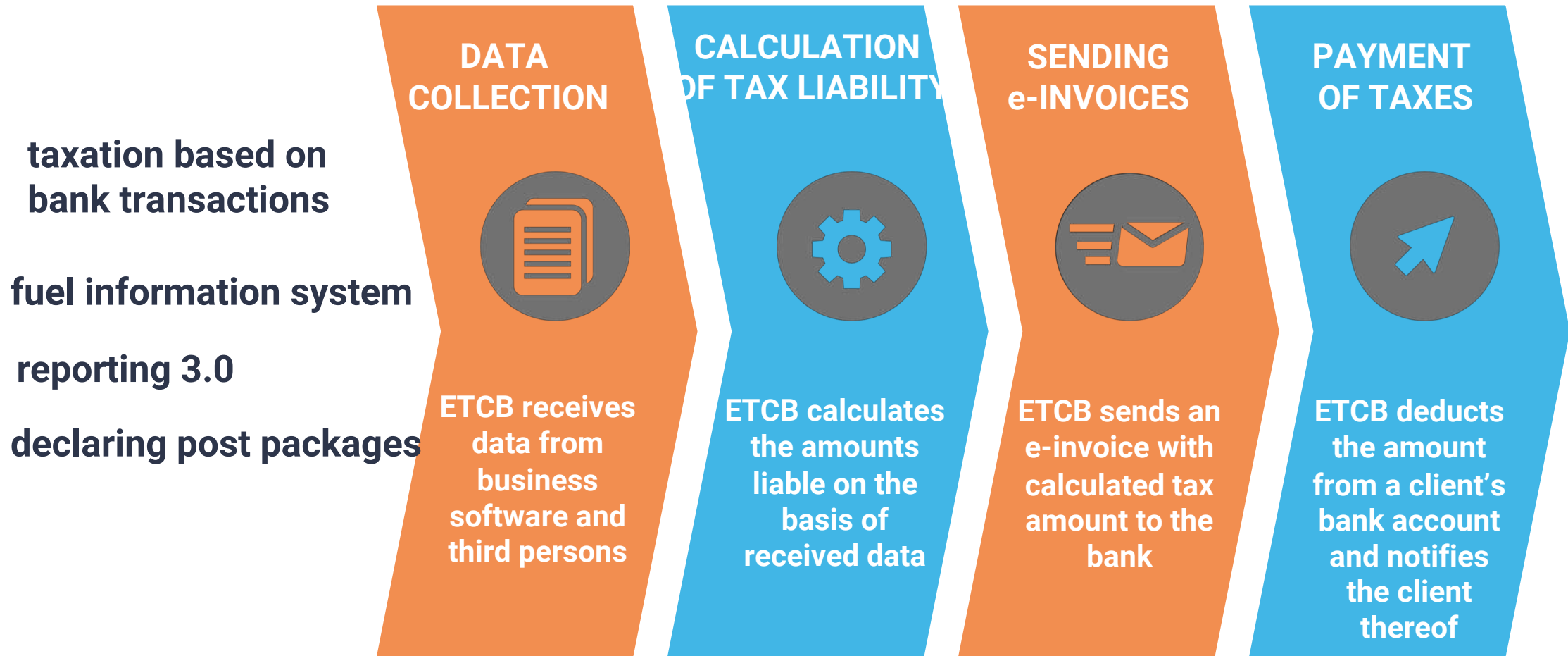
Including comparisons with other companies



TAX BASE



# Declaration process will be replaced by data-driven information exchange





# Reading list

[Estonia.eu](#)

[E-Estonia.com](#)

<https://e-estonia.com/e-residents/about/>

[Eesti.ee](#)

<https://www.mkm.ee/en/objectives-activities/information-society/information-society-services:>

- Green paper on the organisation of public services
- E-services design handbook



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# Thank you!

