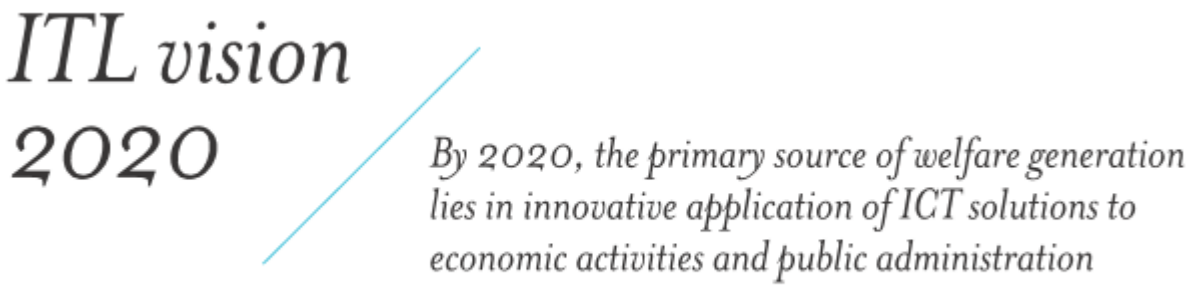
# PRIORITIES 2017 - 2019

Introduction 28.06.2017

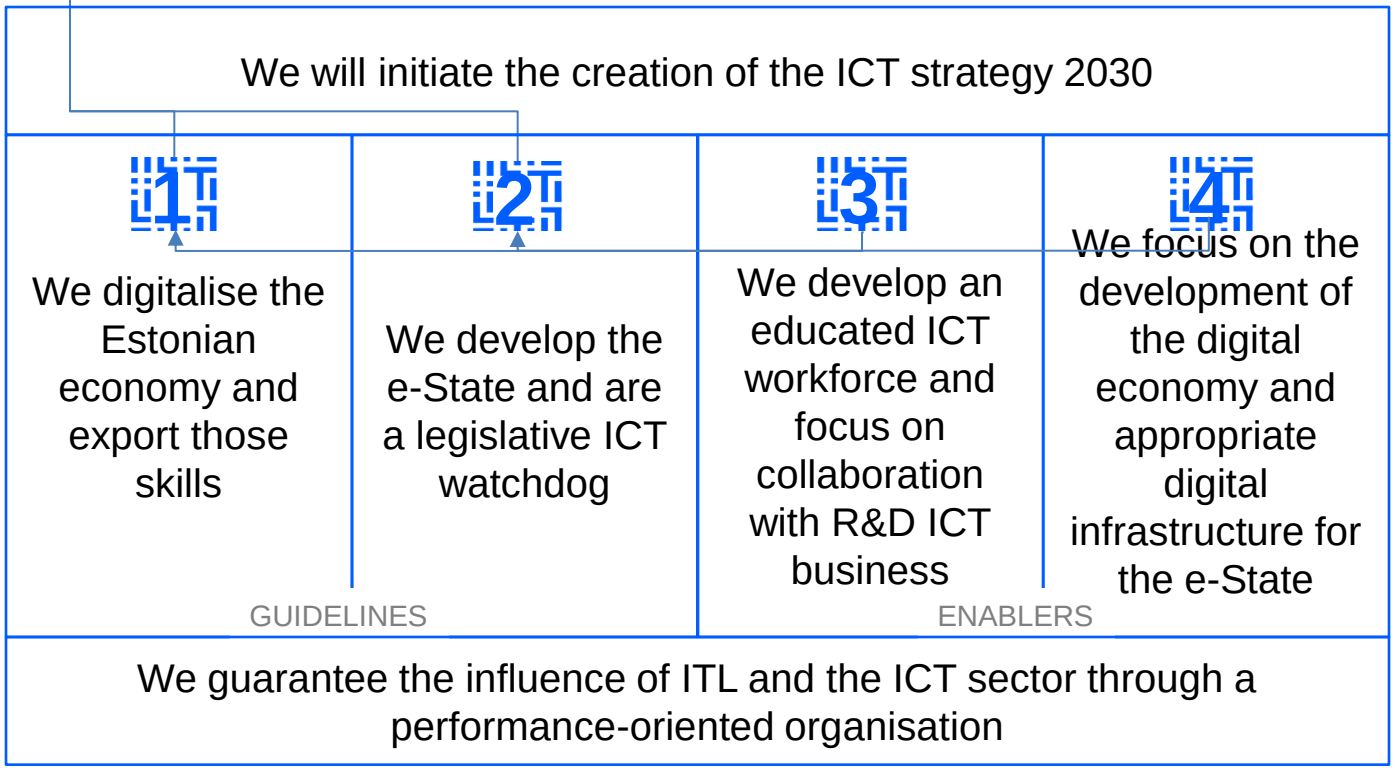
# ICT VISION 2020 IS NOT CHANGING

- Management's starting point is the 2020 strategy created in 2013



# ICT VISION:

By 2020, smart ICT use in economic life and social organisation will be a source of prosperity for Estonia



# 4 priorities:
# goals, metrics and team

| 1 | 2 | 3 | 4 |
| --- | --- | --- | --- |
| Digital economy<br><br>Seth Lackman<br>Hannes Plinte<br>Andre Krull | e-State innovation and information society policy<br><br>Urmas Kõlli | ICT education, labour and R&D<br><br>Ants Sild<br>Andrus Järg | Digital infrastructure<br><br>Tiit Tammiste<br>Toivo Praakel |

# DIGITAL ECONOMY

Productivity growth through ICT
(measurement to be specified)

Increase ICT market by +100 m EUR

Integration of Digital Technologies Index (DTII) > 40th place (2019)

# DIGITALISATION of INDUSTRY (Industry 4.0)

| Goal | Metric |
| --- | --- |
| Growth of ICT deployment in selected industries | The share of ICT investment out of total industry investments in fixed assets totals 5% (currently 1% stat.ee, 7 m Euro 2015) |
| Creation of Industry 4.0 Digitalisation Cooperation Council | Creation of a national (cross-sectorial) industry 4.0 cooperation council |

# DATA ECONOMY

| Goal | Metric |
| --- | --- |
| Set up joint private-sector real-time information exchange platform, which is owned by the private sector and has the aim of enabling companies to overcome barriers in this market to function and develop new services | By 2020, at least 5 million IoT (internet of things) devices in Estonia communicate across common infrastructure<br><br>By 2020, Estonia’s data economy makes up 1% of the respective European sector |
| At least one international real-time economic pilot project | YES/NO |

# DIGITALISATION OF TRANSPORT AND LOGISTICSITS (Intelligent transport systems)

| Goal | Metric |
| --- | --- |
| ICT deployment in transport and logistics sector increases | A functioning ITS Estonia cooperation network has been created<br><br>By 2019, 3 new ICT services/products have been deployed in Estonian society |

# EXPORT OF IT SOLUTIONS

| Goal | Metric |
| --- | --- |
| **Export of E-government solutions**<br>Growth in the number and sales of exportable produced e-state solutions | Exported 25 solutions<br>Sales: 50 m Euro |
| **Export for the private sector**<br>Growth in exportable industry digitalisation, transport and logistics solutions | Sales: 10 m Euro in 2019 (solutions produced for the private sector) |

EVALUTATION

# Digital economy

**We digitalise the Estonian economy and export those skills**

| Digitalisation of Estonian economy | ICT export |
| --- | --- |
| Industry digitalisation (Industry 4.0) | Export of e-state solutions |
| Transport and logistics digitalisation (ITS) | Export of digitalisation solutions for private sector |
| Implementation of data economy | |

# 4 priorities:
# goals, metrics and team

# e-STATE AND INFORMATION SOCIETY POLICY

Innovative state and a world-renowned business environment

A better-functioning, more modern, more customer-friendly and developed state using digital media, major mistakes or errors are avoided this way.

Satisfaction of citizens, companies and residents with state (digital) services

# PUBLIC-SECTOR SERVICES AND STATE INNOVATION

| Goal | Metric |
| --- | --- |
| More functional, modern and customer-friendly public-sector services. Evaluative methods are developed | Service quality rating increases |
| ITL is a significant partner in state development (e.g. business data exchange platform, information society development plan, etc.) | ITL participates in planning and decision-making for state innovation |
| e-residence as a collaborative project. Smart service environment for virtual residents, evolving virtual society | High-quality e-residence service environment;<br>Virtual society pilot projects launched |

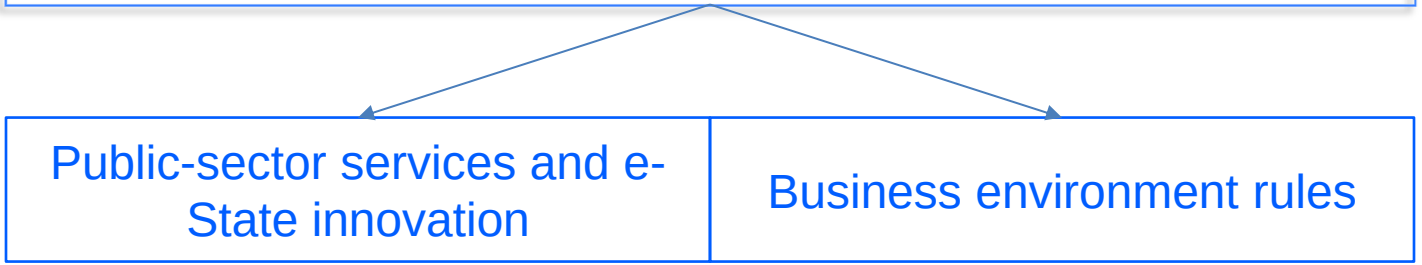
# BUSINESS ENVIRONMENT RULES

| Goal | Metric |
| --- | --- |
| EU and Estonian regulations for the ICT sector are reasonable for businesses and do not make unreasonable (for private companies) obligations for investment | ITL is involved in creating regulations and rules<br>Business satisfaction<br>Companies proposals are taken into account |
| Limiting state capitalism in the ICT sector | Decreased public-sector production activities (i.e. *software production*) in the ICT field (direct labour costs of the state's main contractors for software development have decreased) |

EVALUATION

# e-State innovation and information society policy

**We develop the e-state and we are a legislative ICT watchdog**



# 4 priorities:
# goals, metrics and team

# EDUCATION, LABOUR AND R&D

A competent ICT workforce and growth of ICT R&D activities create enough opportunities for Estonia's economic growth and international competitiveness

Number of graduates increases 10-15%

Increased ICT ability among specialists in other fields

Satisfaction of employers and students

Increased opportunities for retraining and further training

ITL ESTONIA

# QUALITY OF ICT EDUCATION

| Goal | Metric |
| --- | --- |
| **Quality of ICT education**<br>Increase in quality of higher and vocational ICT education | Employers satisfaction with graduates and content of curricula (through questionnaires for employer representatives on program councils) |

# ICT WORKFORCE QUANTITY AND CONDITIONS

| Goal | Metric |
| --- | --- |
| Growth in Estonian ICT workforce through retraining and foreign labour | 500 graduates from the Vali-IT! (Choose IT!) retraining project<br><br>One new retraining project launched<br><br>Annual growth in number of foreign workers relocating to Estonia for work and the number of foreign ICT graduates remaining in Estonia for work |

# ICT RESEARCH & DEVELOPMENT

| Goal | Metric |
| --- | --- |
| **Research and development**<br>Financing for ICT R&D increases and focus is more in line with the goals of increasing Estonia's economic development and competitiveness (including smart specialisation) | Annual increase in the number and financial volume of R&D projects carried out by research institutes together with the participation of ITL member firms |

HINDAME

# ICT education, labour and R&D

**We develop an educated ICT workforce and focus on collaboration with R&D ICT business**

- We boost the quality of ICT education
- We grow the size of the ICT workforce
- We increase the volume of ICT R&D

# 4 priorities:
# goals, metrics and team

# DIGITAL INFRASTRUCTURE

Communication and other infrastructure necessary for the operation of innovative state service and digitalisation of other sectors are in place

The broadband development goals in the information society development plan 2020 are met

There is a state digital identity development plan in place

The first statutary amendments and standards needed for the IoT sector have been introduced

# ELECTRONIC COMMUNICATIONS AND BROADBAND NETWORK DEVELOPMENT

| Goal | Metric |
| --- | --- |
| Support for the achievement of the DAE 2020/2025 goals. Broadband basic network and last-mile development (reduction of market failure). Implementation of support measures for broadband access without disrupting the business environment | Growth in broadband speeds in line with DAE 2020 goals<br><br>Companies use other owners' infrastructure to offer broadband services |
| EU and Estonian regulations for electronic communications are reasonable for companies and do not make unreasonable (for the state) obligations for investment | Companies' satisfaction<br><br>ITL is involved in creating regulations and rules and ITL's proposals are taken into account<br><br>Consideration of businesses' capabilities |

# DIGITAL IDENTITY AND Internet of Things

| Goal | Metric |
| --- | --- |
| A secure and user-friendly digital ID is in use in Estonia for both authentication as well as providing nationally recognised digital signatures | Satisfaction with the level of security and user-friendliness of the digital ID |
| The state has set up an action plan to keep digital ID secure and user-friendly | The state has a digital ID development roadmap in place |
| Agreements have been reached for the creation and introduction of statutory amendments and standards needed for the fast development of IoT | Legistlation and standards meet IoT requirements |

EVALUTATION

# Digital infrastructure

**We focus on the development of the digital economy and appropriate digital infrastructure for the e-State**

- Electronic communications and broadband network development
- We focus on digi-ID development
- We create conditions for IoT expansion

# SUMMARY

We will initiate the creation of the ICT strategy 2030

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| **Digital economy** | **e-State innovation and information society policy** | **ICT education, labour and R&D** | **Digital infrastructure** |
| We digitalise the Estonian economy and export those skills | We develop the e-State and are a legislative ICT watchdog | We develop an educated ICT workforce and focus on collaboration with R&D ICT business | We focus on the development of the digital economy and appropriate digital infrastructure for the e-State |

We guarantee the influence of ITL and the ICT sector through a performance-oriented organisation

Thank you for your attention!

2017