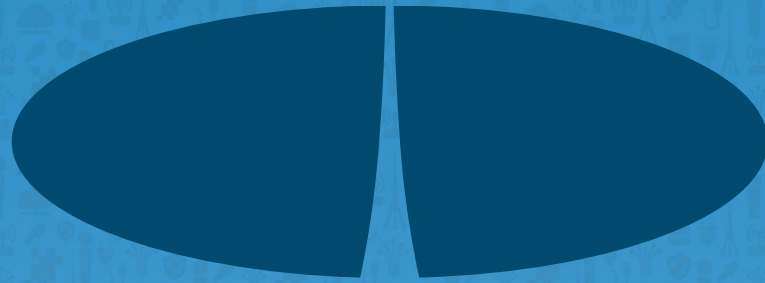


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# THE BEST PRACTICES IN IMPLEMENTATION OF MOBILE IDENTIFICATION (mID)

## OUR VISION ABOUT mID

Kārlis Siliņš



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# Session 1

Introduction on mID: Trends, Challenges and  
Opportunities

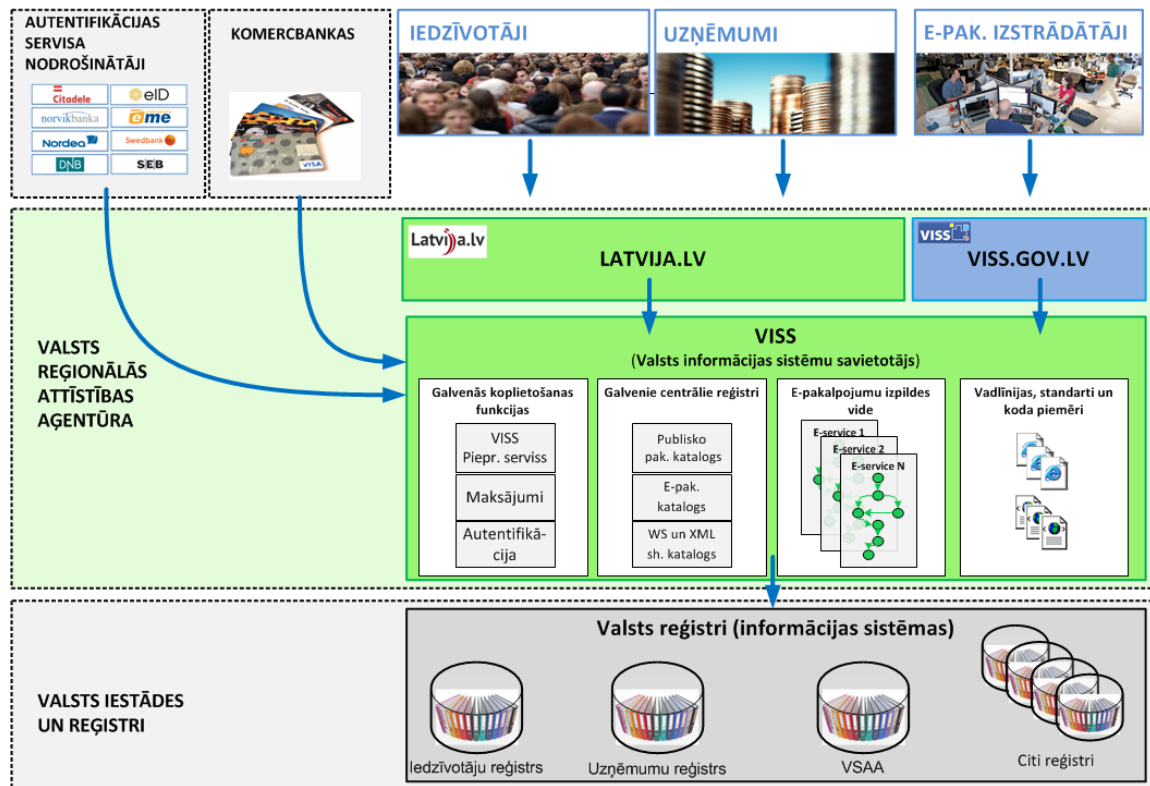


## Couple of words about mID in Latvia:

- We don't have mobile mID solutions
  - We have planned mID in our roadmap
  - In near future we will start to building mobile ID
  - Any of next slides are our vision about our mID solution
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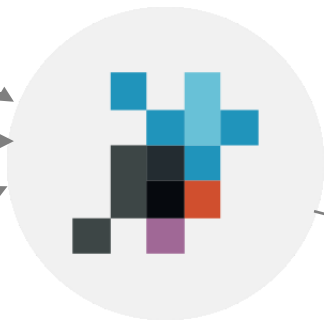
# eGovernment platform – big picture



- public services portal
- identity service
- e-signature service
- mobile signatures
- interoperability platform
- payment services



# LVRTC identity and signing product portfolio





## Short history of identity development in Latvia

Issued first  
electronic  
signature card

2006

Issued first  
eID card with  
authehenticati  
on and e-  
singning  
function

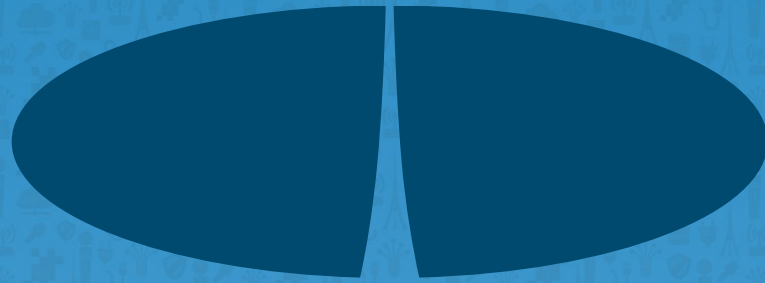
2012

Our e-signing  
solutions  
support ASICE  
document  
format

2016

Latvia starts  
develop own  
mID

2017



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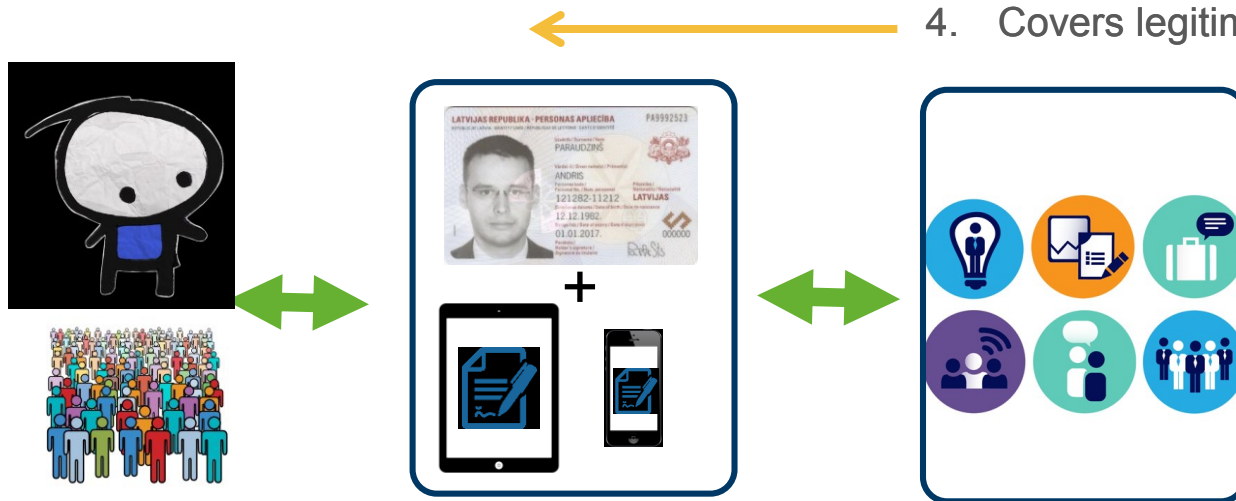
## Session 2

Business Models of mID Finance Accord and Public-Private  
Exchange



## Our vision about partnership roles to provide mID

1. Defines requirements
2. Integrates certification services
3. Consumes certification services
4. Covers legitimate costs



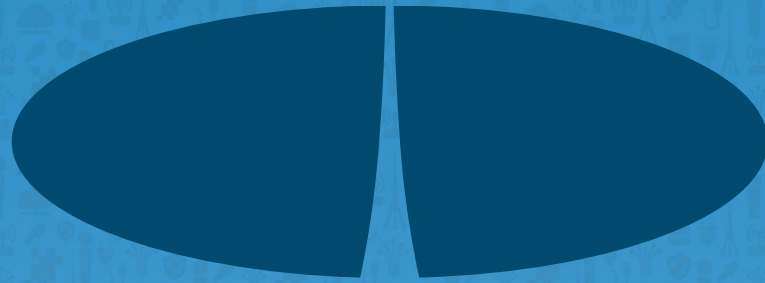
1. Implement certification services
2. Provides certification services
3. Owns & maintains platform





## Goals for each participant

Customers	Unified EU eDocument format (cross-border eSigning)
Customers	Mobile authentication (for remote channels) Mobile qualified eSignature (signing contracts, transactions remotely)
E-service provider's	Unified user friendly & secure tool for customers (infrastructure cost savings, customer service)
E-service provider's	Contribute easy, transparent and secure eServices in LV, Baltic, EU
LVRTC	Increase people awareness, freedom and safety in digital environment
LVRTC	Develop market of certification services, commodity product



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## Session 3

IT and Technical Architecture: Solutions, Services and  
Advantages



## IT and Technical Architecture: Solutions, Services and Advantages

What were the key technical questions that were answered during project?

For us challenge is creating mID fully compliant with HIGH and QES level according eIDAS regulation

Was the identity solution implementation Client-side (on SIM/device) or server-side (eg. token generated via centralized system)

We believe that SIM cards are «dying». That is reason why we are looking to cloud based technology.

Was the system build in house or bought from the market? Is the system open-sourced and current code could be reused by other countries?

LVRTC are state joint stock company. To us applies public procurement law. Currently we don't know system will be coded or bought from market

Does mID solution use biometrics? Which kind (iris, palm, fingers etc). What is the name of biometrics provider (vendor like Fujitsu)

No, we don't plan ~~use biometrics~~



## IT and Technical Architecture: Solutions, Services and Advantages

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Does mID allow to use it in real, physical work or only digital?

For real world person can use eID. mID is only for digital world.

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Is there any central system which logs every transactions?

We plan build based on PKI system. That mean every transaction will be logged

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Is every transaction handled by central system? This means that country / system knows about every transactions (citizen could have problem with privacy)

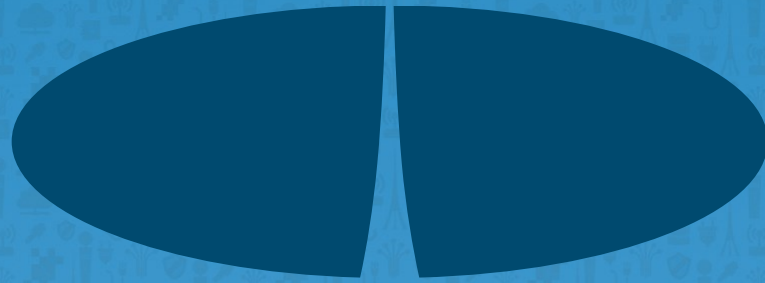
For this question also is different point of view. Any logged transaction can help in moments if identity are stolen.  
For example - in paper world I don't know how many fake My signatures are in outside. In virtual world every my signing transaction are logged.

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Does citizen has access to his transactions and logs (like where his mID was used?)

The person must be able access to transaction reports and last IP adres. From our poit of wiew it increase security

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## Session 4

Security and Privacy: Mechanism and Requirements



# Security and Privacy: Mechanism and Requirements

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Is there a central certification body? Its is public or private?

Yes, in Latvia are public certification body.

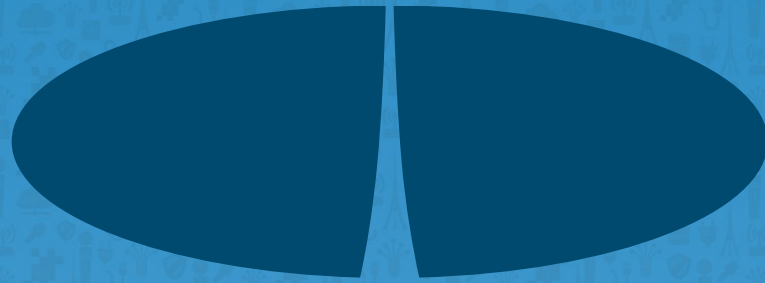
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How is the mID verified during registration (eg. at Police station, face-to-face)?

We plan to verify personas in two ways – a) remotly via eID card or b) face-to-face in TSP office

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## Session 5

mID use cases and processes: Is it a real usage?



## mID use cases and processes: Is it a real usage

What Is mID used in real, physical world?

No, in Latvia not yet

Is mID used in electronic transactions

No, in Latvia not yet

Whether mID is used in public or private sectors

We plan to provide mID in bouth sectors. For users need one universal electronic key to access all (private and public) e-services.

What the the most popular services which use mID

We plan these would be a bank transactions and government e-services for entities

Is mID offered to every citizen including child

In our plans we could enroll mID from age 14 years. In Latvia 14 is age from which person is right to decide himself in some cases, for example in health respectively also ~~in e health~~

What is mID used for?

Our typcal user is 30-40 years old, who uses mID for payments, in





# high-level processes for registration and enrollment mID

## Enrolling with eID

- The very first time when I start using mID app
- I log into TSP portal with eID card
- scanned QR code is shown to me
- and that's it - now I can use my smartdevice to login in to e-service!
- actually I can login into any other compliant e-service

## Enrolling without eID

- If I do not have eID card so I have to visit TSP branch office once to sign a paper contract
  - TSP check if it's really me, I sign contract and account manager prints one time use enroll QR code
  - I take my app, scan that code
  - and that's it - now I can use my smartphone to login to any e-service!
-



## high-level processes for revoking and re-registering for ID

Smartdevice lost, eID still available

equivalent to «Enroll with eID»: user logs into online using eID and enrolls new device

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Purchased new smartdevice, still have old smartdevice

equivalent chained «Login to online using mID» and «Enroll without eID»: user logs into online using another mID enabled device and enrolls new smartphone

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Lost the only smartphone, doesn't have eID, has one time recovery code

and remembers it... If user can't remember recovery code displayed during initial enroll, user must follow «Enroll without eID» and visit TSP in person

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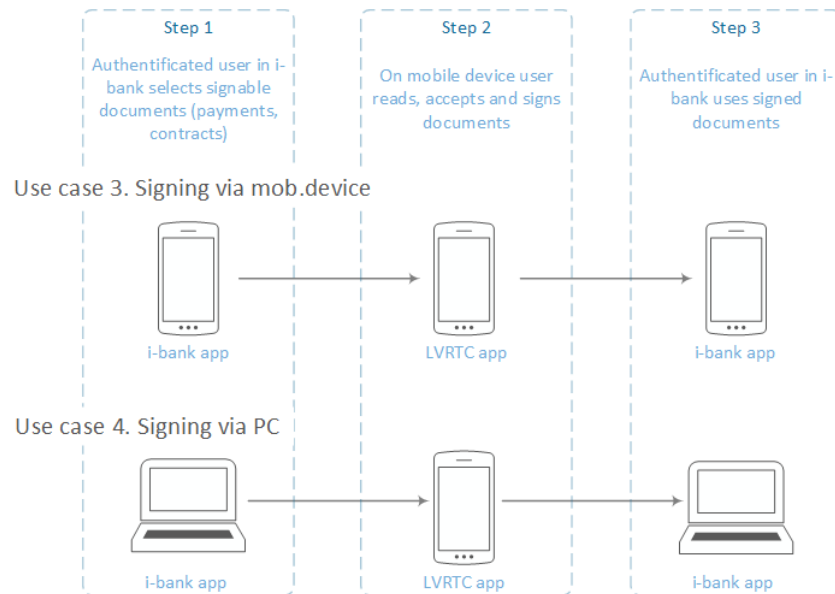
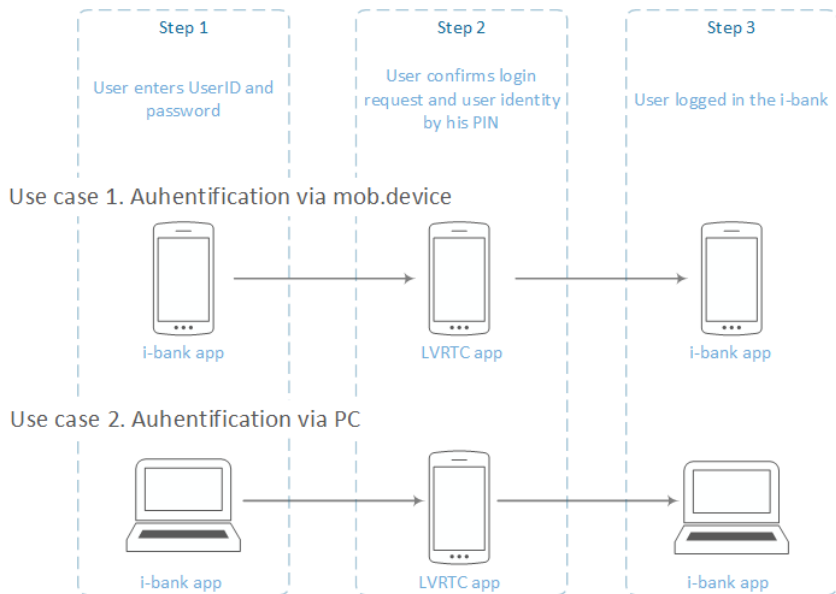
Lost the only smartphone, don't have eID, have already used recovery code

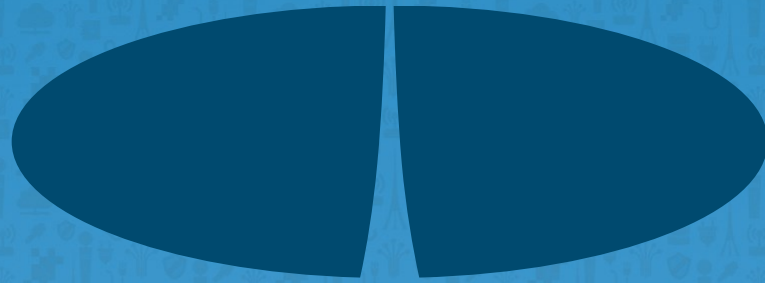
Equivalent to «Enroll without eID» user must visit to TSP in person

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# Our guess for popular use cases





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## Session 6

Aspect of awareness raising and information campaign:  
Are we well aware of mID?



# Aspect of awareness raising and information campaign: Are we well aware of mID?

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What is the rise of the awareness about mID?

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95% of people in outside don't understand difference between solutions. They need convenient solution to receive e-services. People don't need mID, eID or authentication and e-signature, them need to receive the service. mID is only one of solutions.

What were the main concerns with regards to mID (in society)?

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How were they addressed

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Main e-service providers (like i-banks, government tax services, electronic delivery services) they creates demand to mID.

What was the societies' response in each case

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What stages were the campaigns composed of?

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These questions are still ahead

What were the strengths and weaknesses of each component?

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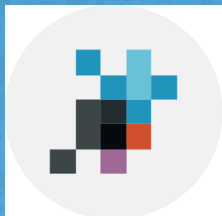
These questions are still ahead

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# Thnak you for attention



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