ESTONIAN experience while using and sharing OSS

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30.11.2021
if you build and pay for software with taxpayers' money and this includes intellectual property of public sector... demand it to be open source and consider making it public
Kristo

- **engineer** and **solutions architect**
- private sector experience
  - military simulations
  - adtech and mass media communication solutions
  - fintech and banking solutions
- public sector experience
  - lead architect in police and border guard systems
- **EE GOV CTO 2018+**
Digital Estonia

- Regained independence in 1991
- Tiger’s Leap program in 1996
- Online tax filing from 2000
- X-road from 2001
- Chip based ID card from 2002
- Electronic voting from 2005
- Mobile ID from 2007
- State use of blockchain from 2008
- E-residency from 2014
- First digital data embassy 2015
- AI strategy and #bürokratt virtual assistant 2019+
core foundational digital technologies of Estonia - including eID and data interoperability platform X-road - are public open source
e-riigi koodivaramu

- NB! Tehniliste piirangute tõttu tuleb esmene TARA autentimine teha id-kaardiga
- tegu on e-riigi ühtse koostöö ja tarkvara taaskasutuse koodivaramuga
- Kasutamise juhend asub siin
- koodivaramus talletatav kood on kõigile avalik ja kogu e-riigi avatud kood saab olema tulevikus siit kättesaadav ja kasutatav
- otselink avalikutud projektidele on siin
- asutustele projektide loomiseks pöörduda RIA poole
- tegu on esimese versiooniga, koodivaramu teenuse edasine teekärt on alles planeerimisel
- andmekaitsetingimused ja üldtingimused
“if you build it, they will **NOT** come”

- what Kevin Costner did not say
public code repository koodivaramu.eesti.ee

- launched in 2019, accessible over eID
- since 2020 legal work done to enable sharing of open source solutions in public sector - *this was technically not possible before*
- growth is too slow (~40% per year)
Problems encountered

- **cybersecurity is conservative**, public open source code is seen as a risk
  mistaken fallacy of “secret is more secure”
- legacy code is kept restricted and not made public
- open source code requires more than just publishing and sharing
- low public interest in majority of shared code
- software is too specific and niche to be published
- open source and published open source are two different things
- access is an issue for international partners
- mirroring can be complicated
- ...yes, but...
key takeaways
no government has enough money to rebuild their digital government every $X^*$ years

* - does not matter what number is used here
only design & develop & deploy what you know best

use and re-use everything else as a service
always design for more than just one user/customer/dependency
just making it public and open source is not enough to ensure governance and ownership.
support contribution
foster community
deploy governance
use code repositories

OSOR recommendations
Aitäh!
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