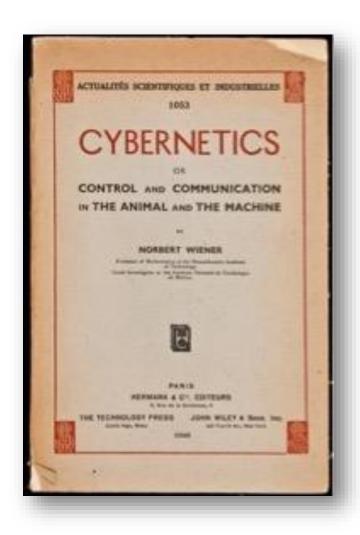


Building Secure Data Exchange in Industries According to Estonian X-Road Model

Oliver Väärtnõu, CEO, Cybernetica AS 23.10.2017, Manufuture 2017, Tallinn

About Cybernetica

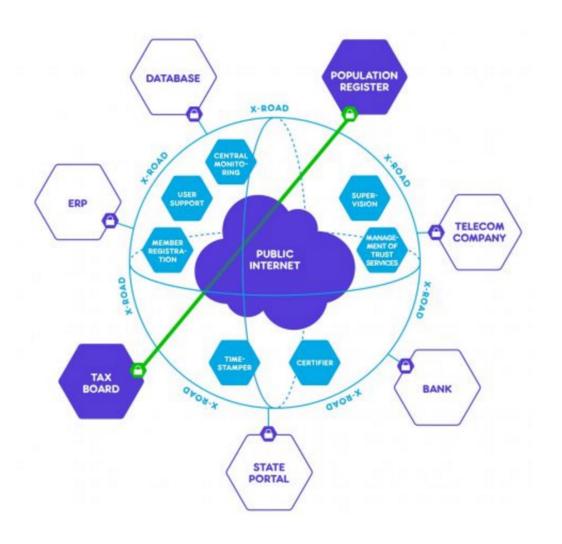


- 1948 Norbert Weiner: "the scientific study of control and communication in the animal and the machine."
- 1960 Institute of Cybernetics, Estonian Academy of Sciences. Estonian ICT company, founded in 1997.
- We provide mission-critical e-government, information security, radio communications and surveillance software products and systems.
- We seek new areas of advancement through interactions between research and development.



About X-Road

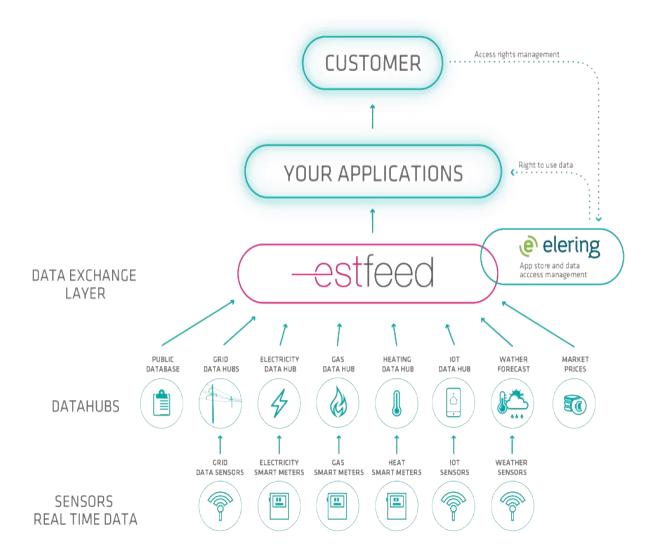
- Platform to provide seamless and secure data integration between independent organizations improving the transparency of interactions and efficiency of organizations.
- Mas been operational in Estonia since 2001 and is used for all G2G and G2C interactions.
- Cybernetica offers a product version of the software Unified eXchange Platform.





Use-Case I: Elering Estfeed

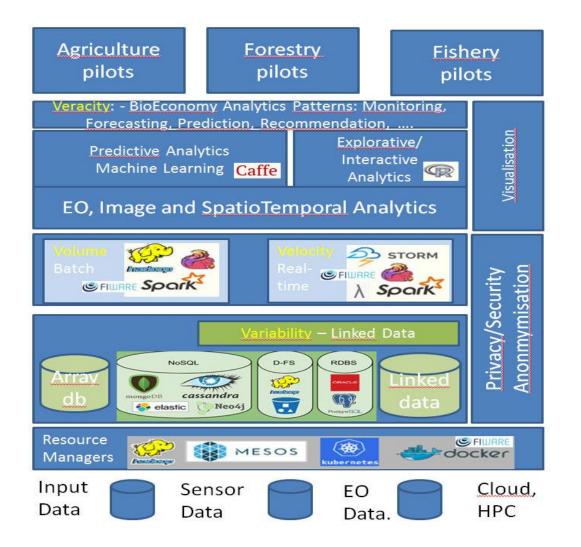
elering



- Estfeed is a smart grid solution that allows market players to get energy consumption information securely and transparently.
- Data sources range from electricity, gas and district heating smart meter readings to weather forecast and energy day-ahead prices.
- Estfeed portal gives developers a chance to access the information flow in the electricity grid for app building.

Use-Case II: DataBio





- European Union's Horizon 2020 research and innovation project: Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data-driven innovation.
- The goal of the project is to show the benefits of Big Data technologies in the raw material production from agriculture, forestry and fishery/ aquaculture for the bioeconomy industry to produce food, energy and biomaterials responsibly and sustainably.



Where does the Future lie?

Domains:

- (Business) intelligence
- Platform(s) for Internet of Things
- E-Health platform(s)

Roadmap:

- Oloud/SaaS support
- Support for distributed block-chain
- Support for advanced encryption algorithms





www.cyber.ee info@cybernetica.ee