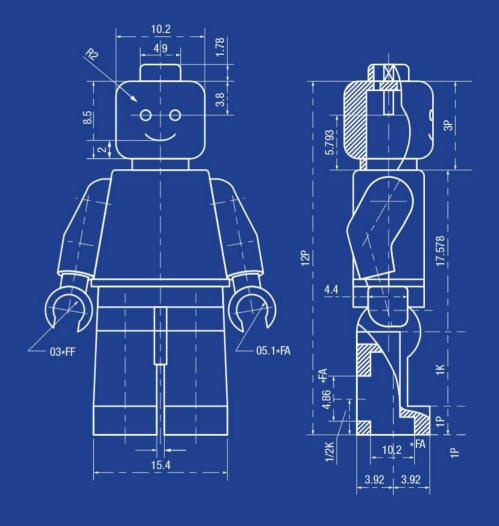
RI. SE

JOHAN LINÅKER (RISE)

MUNICIPAL COLLABORATION ON OPEN SOURCE SOFTWARE

- A lever for innovation, transparency and sovereignty

About Johan





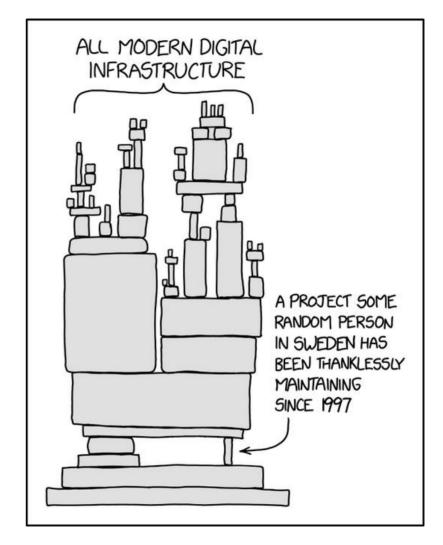


Open Source Software today

- Approximately...
 - 90+ % of all software contains Open Source
 Software
 - 75% (2020) of companies' codebases consists of Open Source Software (up from 36% 2015)
 - 56 million developers developers collaborate on Open Source Software through GitHub, a social coding platform. Expected to increase > 100 million 2025
 - Collaboration within and across verticals, including Energy, Automotive, Telecom, and Health



In other words, it's everywhere







Liberally licensed software

- Software available under an Open Source Software license
- License that follows the Open Source
 Definition and is approved by the Open
 Source Initiative (http://opensource.org)
- Anyone, for whatever reason, may inspect, use, modify the source code and redistribute
- Different conditions apply per license requirements





Collaboratively developed software

- Software developed as projects by networks of individuals and organizations, aka. Open Source Communities
- "Members" of the community commonly both users and developers
- Are united by a common vision and goal around the Open Source Software.



Open development process

- Informal structure pending on community
- Focus is on openness
 - Whoever can contribute
 - Influence through merit
 - Self-appointment of tasks
- Traditional development
 - Carried out in silos
 - Influence though hierarchical status
 - Appointment of tasks



Open development process

- In other words, you cannot
 - Expect professional support
 - Expect to get your needs implemented
 - Order individuals to work per your own agenda



Incentives vary

- Individuals:
 - Sense of belonging
 - Recognition for contributions
 - Solving a problem
 - Building a public resumé
- Organizations
 - Lowerd costs
 - Increased innovation
 - Improving brand and PR
 - Interoperability and sovereignty
 - Strategic tool
- Policy makers:
 - Increase transparency
 - Increase competition and economic growth



Challenges slowing down adoption

- Lack of internal capabilities and dependency on external resources
- Uncertainties and lack of practice in considering
 OSS in an acquisition and procurement process
- Discoverability of OSS options in the planningphase of an acquisition (see http://offentligkod.se!)
- Locked-in to a proprietary technology, standard, platform, or ecosystems since before
- Glances at neighboring municipalities and copies procurement structure



Challenges slowing down adoption

- Uncertainties and fear for legal and securityrelated risks
- Cultural challenges in terms of risk aversiveness, short-term horizons, focus on own municipality
- Lack of sustainable political support and clear policies
- No coordination or organization in acquisition process nor development and maintenance stages

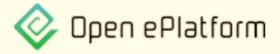
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How have others done?







Municipal OSS community

- OSS e-service platform (APGLv3) established in 2014
- Outcome of the Regis EU project including five municipalities
- Productified by vendor including operations and management at a fixed price, as well as further development via traditional procurement,
- Now over 180 customers
- Municipalities currently experiencing technical debt and lock-in effects, investigating options moving forward

En e-tjänsteplattform helt i öppen källkod



Municipal Foundation for OSS

- OS2 –Association of 80+ Danish municipalities
- Projects are initiated by smaller numbers of municipalities with development procured from ecosystem of vendors
- Governance and project development process in place. Vendors sign an MoU.
- Copyright typically transferred to OS2.
- Technical committee responsible for long term maintenance together with vendor(s).
 Procurement through municipalites directly.
- Additional municipalites can join at any time.
 Finacial logic based on size.



Photo by Nick Karvounis | https://unsplash.com/photos/3_ZGrsirryY

Civil Society foundation for OSS

- Open Cities (Otevřená Města) a Czech non-profit gathering 20 cities in Czech republic to support their digitalizations
- Recieves and hosts OSS projects initaited by public entities. Facilites joint requirements engineering and planning
- Currently hosts three projects, including Cityvizor an open source tool for transparent municipal management
- Collaborates with civil tech and hacker communities
- Features implemented by municipalities directly. City of Prague a lead user. Collaboration with public service provider.



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Lead User leading the way

- Lutece an e-service platform with an ecosystem of 400+ plugins
- Developed by the City of Paris since beginning of 2000s
- Drives the development through internal IT department. Open to conributions, onboarding new cities and universities
- Pre-packeging containerized solutions enabling as-a-service deployment
- Working to grow community nationally and cross-border



Co-owned service provider

- CommunePlone a set of tools for civil servants and modules for e-government solutions
- Initiated as grass-roots project initiated by two individuals from two municipalities
- Now hosted and developed through the public service company IMIO, co-owned by 120 Wallonian municipalities.
- Facilitates collaborative requirements engineering process and offering necessary services to operationalize tools developed in CommunesPlone



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Evolving from one to the other

- Signalen a tool for creating, sending, receiving and handling reports about the public space
- Developed in the wild between municipalities supported by civil society Foundation for Public Code
- Transitioned into Dutch Association of Municipalities with formalized governance and technical steering
- Development mainly performed by Amsterdam.
 Ambition to onboard others and grow community cross-border



There is a Need for growing common institutional capabilities



Growing stronger, together



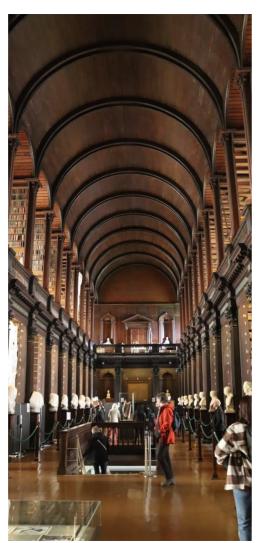
 $Photo\ by\ Helena\ Lopes\ |\ https://unsplash.com/photos/four-person-hands-wrap-around-shoulders-while-looking-at-sunset-PGnqT0rXWLs$

Bridging & growing common communities



Photo by William White | https://unsplash.com/photos/people-raises-hands-TZCppMjaOHU









Public sector

Academia

Civil Society

Industry







Nationally

Internationally

Locally

