

A photograph of several ants on a tree branch. One ant is on the branch, and others are on mossy ground below. A white callout box is overlaid on the left side of the image.

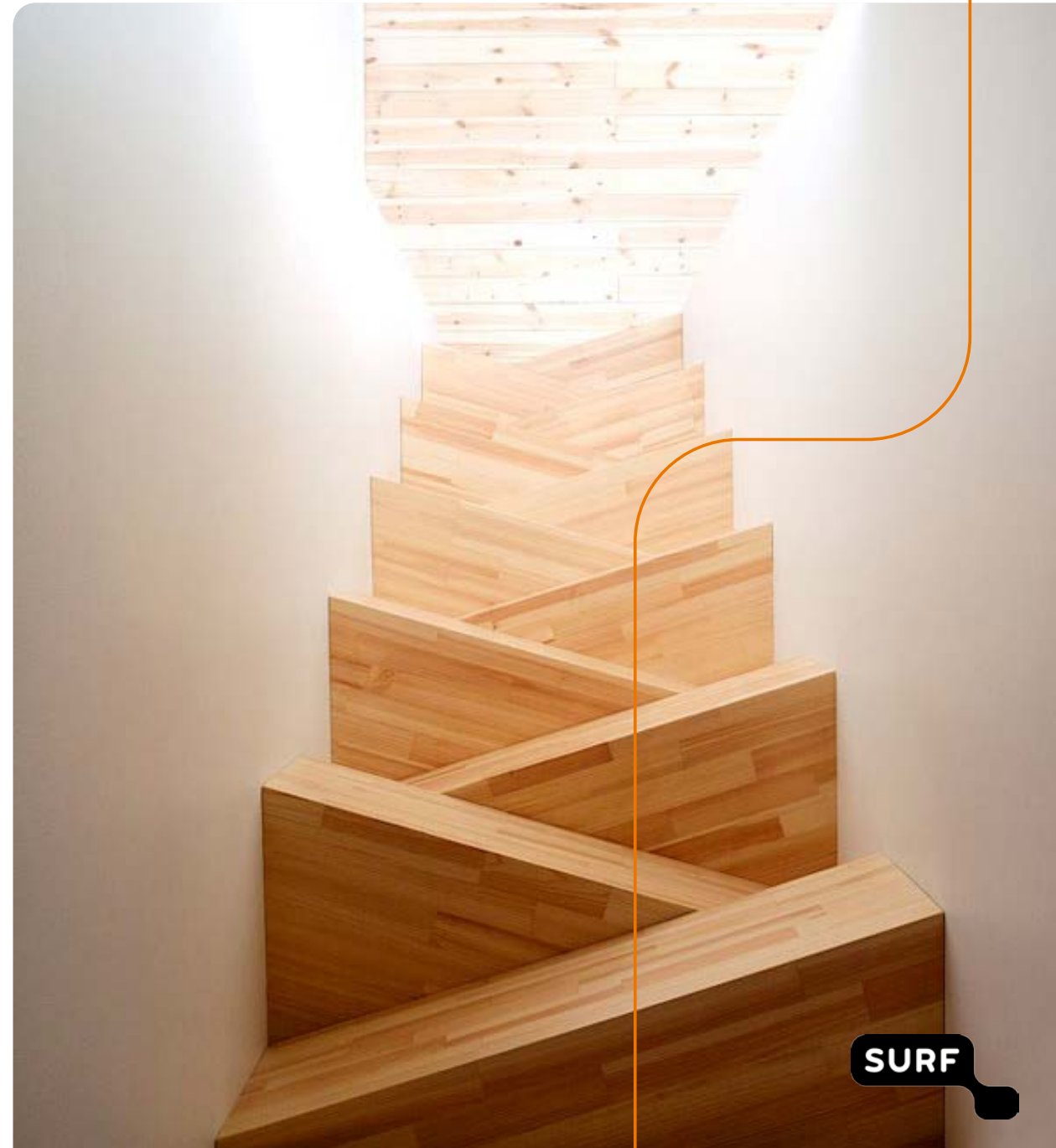
EMPOWERING THE E-INFRASTRUCTURE PARTNERSHIPS IN ERA

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Glossary

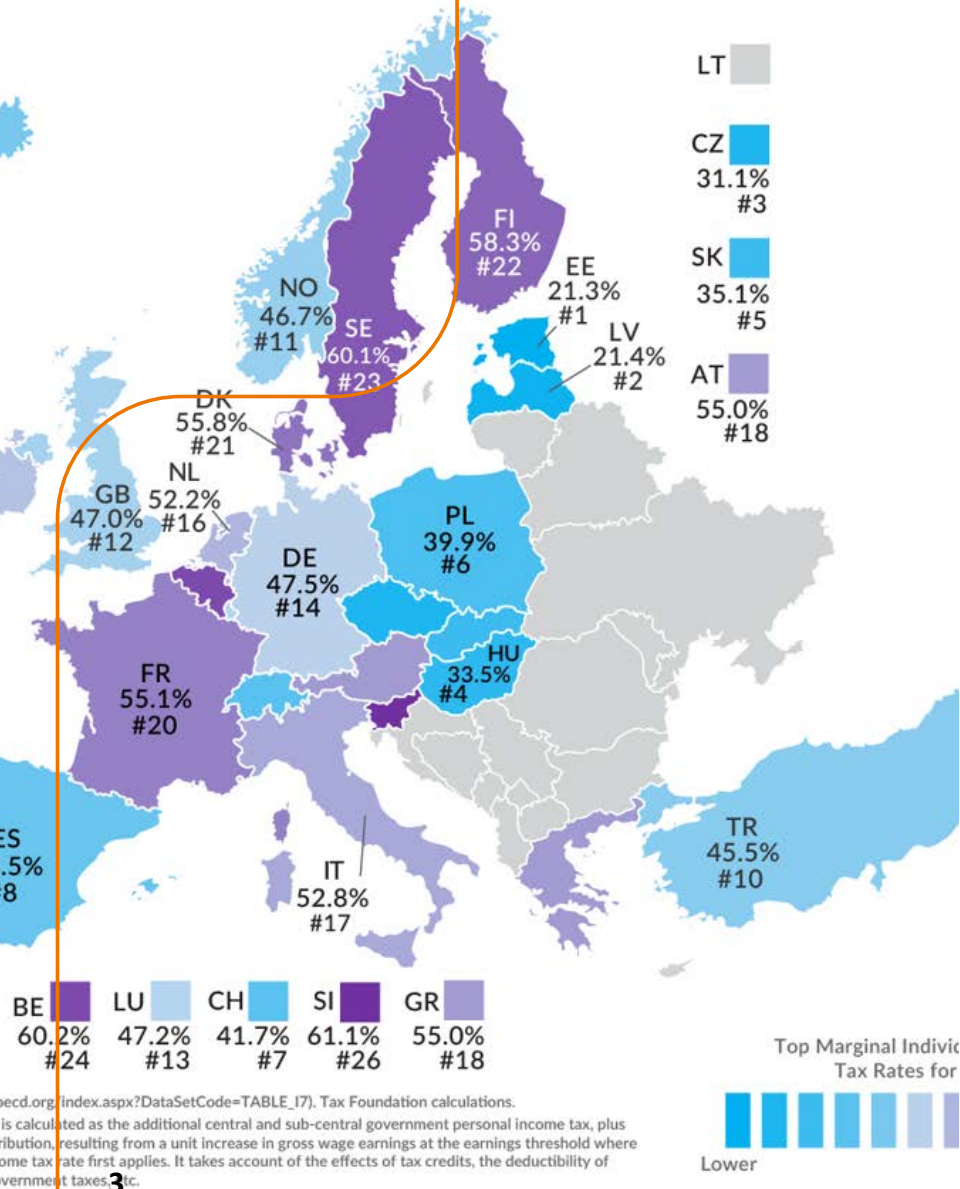
1. Setting the scene: partnerships
2. A (MS) view on partnerships in a NOSC
3. Concluding challenges

Source: TAF Arkitektontor, Stockholm



Individual Income Tax Rates in Europe

Individual Income Tax Rates for 2017



Setting the scene: partnerships

- “(We think) this is taken care of” – someone else does this, and pays for it; it should be there for us to use it.
 - A partnership can be understood as a means for ‘taking care of things’.
 - A partnership is agreed on a hierarchical level such that the levels below are not bothered (on a daily basis): => things are taken care of
 - Decreases the amount of ad-hoc, possibly fragmentation; increases transparency, possibly focussing resources
- There is no free lunch – compare with paying taxes.
 - A partnership should clarify the value case, including what is left un-catered for
 - A partnership should cater for adapting the content of the arrangement on a regular-but-non-daily basis: => change (& run), tech- and use-inspired dialogue, road mapping

Source: OECD, 2017



A (MS) view on the state of affairs in the Netherlands

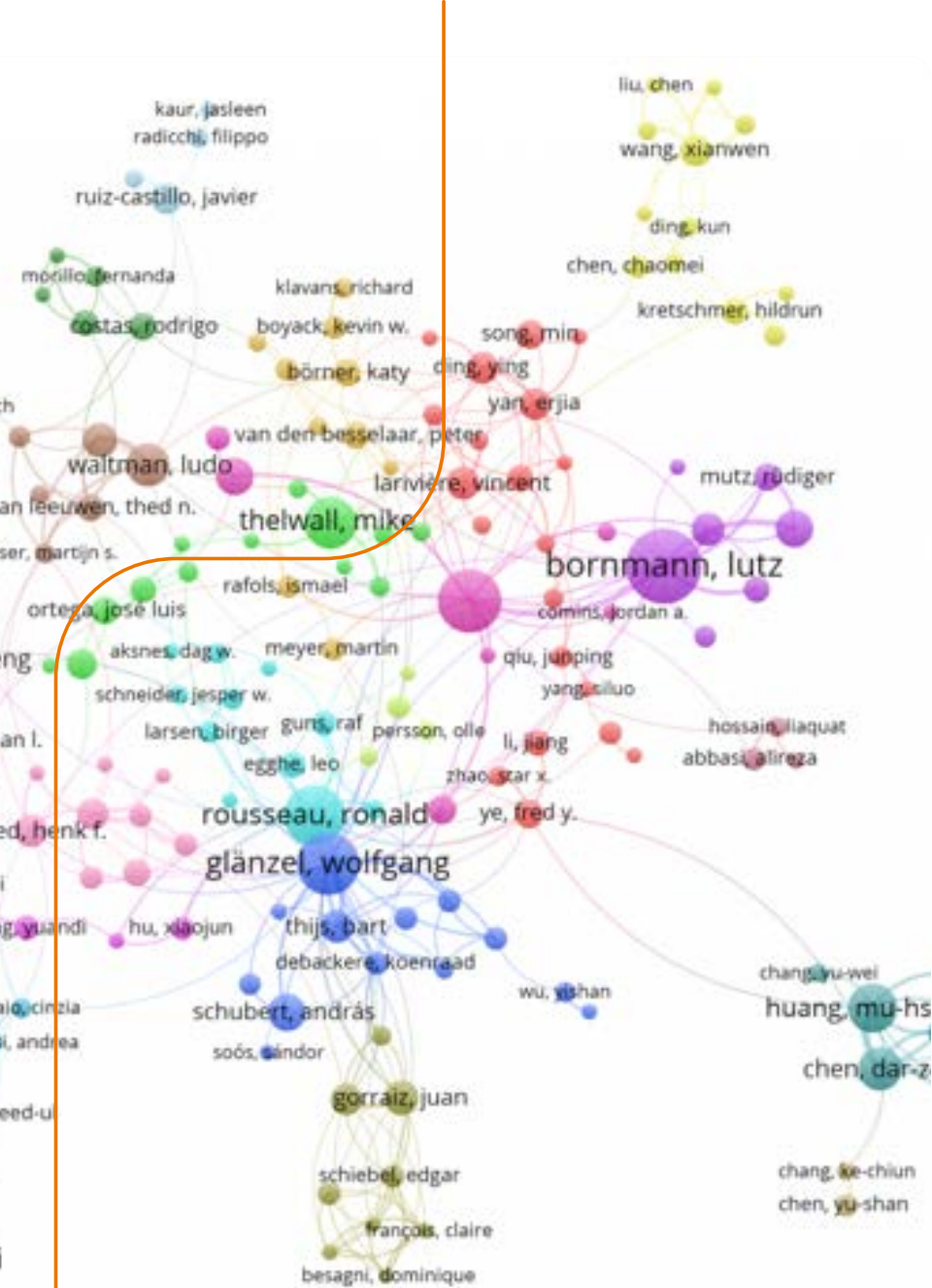
- Focus on two types of partnerships:
 - “horizontal”: between *national & regional/local* e-infrastructure facilities, resources and services
 - “vertical”: between *e-infrastructure* facilities, resources and services & *scientific user communities*
- (Recent new) building blocks:
 - Digital of data competence centres (*university-* and *inter-university-* based):
 - Landing site for software originating from projects (own personnel, Netherlands eScience Center); goal is to maintain and publish (=> FAIR)
 - (Local) expertise and advice centre for FAIR data and software
 - Expertise and advice centre for local ICT-infrastructure
 - Node in a federated network for data, computing and expertise
 - Roadmap for Large-scale Research Infrastructure



Source: Traag, Waltman and Van Eck, 2019 (CWTS).

Building a NOSC

- Building blocks allow to construct a first version of a NOSC (national open science cloud), with clear links ('edges') to a European / international network
 - Many research infrastructures on the roadmap serve as national node in a European research infrastructure (=> connection to ESFRI).
 - National e-infrastructure serves as national node in a number of European federations (GÉANT, PRACE, EGI, EUDAT, ...)
- Building blocks receive semi-structural funding: 5 year
 - Next step: develop process to evaluate and to decide on tapering-off-or-continue
- Agenda for partnerships: specific focus on 'glue' between partners that should build trust
 - Horizontal: (change) joint projects to develop new services, (run) operating a federated facility with central node and edge nodes
 - Vertical: (change) joint projects to build data standards and a service catalogue, (run) joint application for big (societal/scientific) challenge-projects



Source: Van Eck and Waltman, 2017 (blog, CWTS).

Concluding challenges

- Can we build an EOSC on different NOSC flavours?
 - Can we decide on minimum interoperability “standards”?
 - “Standards” include compatibility of business models!
- Can we build a first version of an EOSC that is forward-compatible?
 - Challenge: do not try to cater for everything in the first version!
- Balancing change and run; deciding on pace for developing partnership
 - Regular (non-daily!) re-thinking partnerships is necessary to continue to build trust

Driving innovation together

