

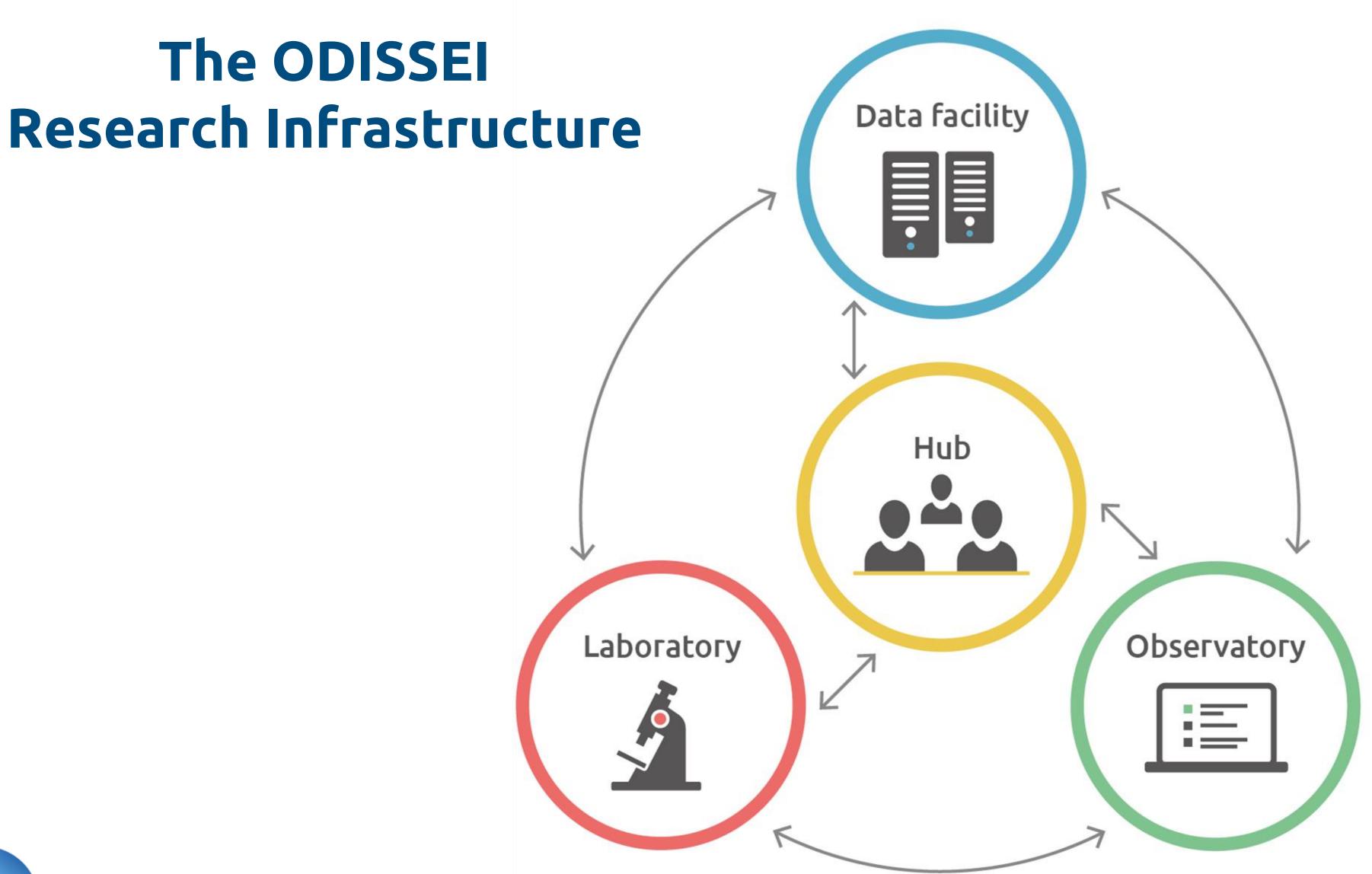


National Infrastructure for Social Science

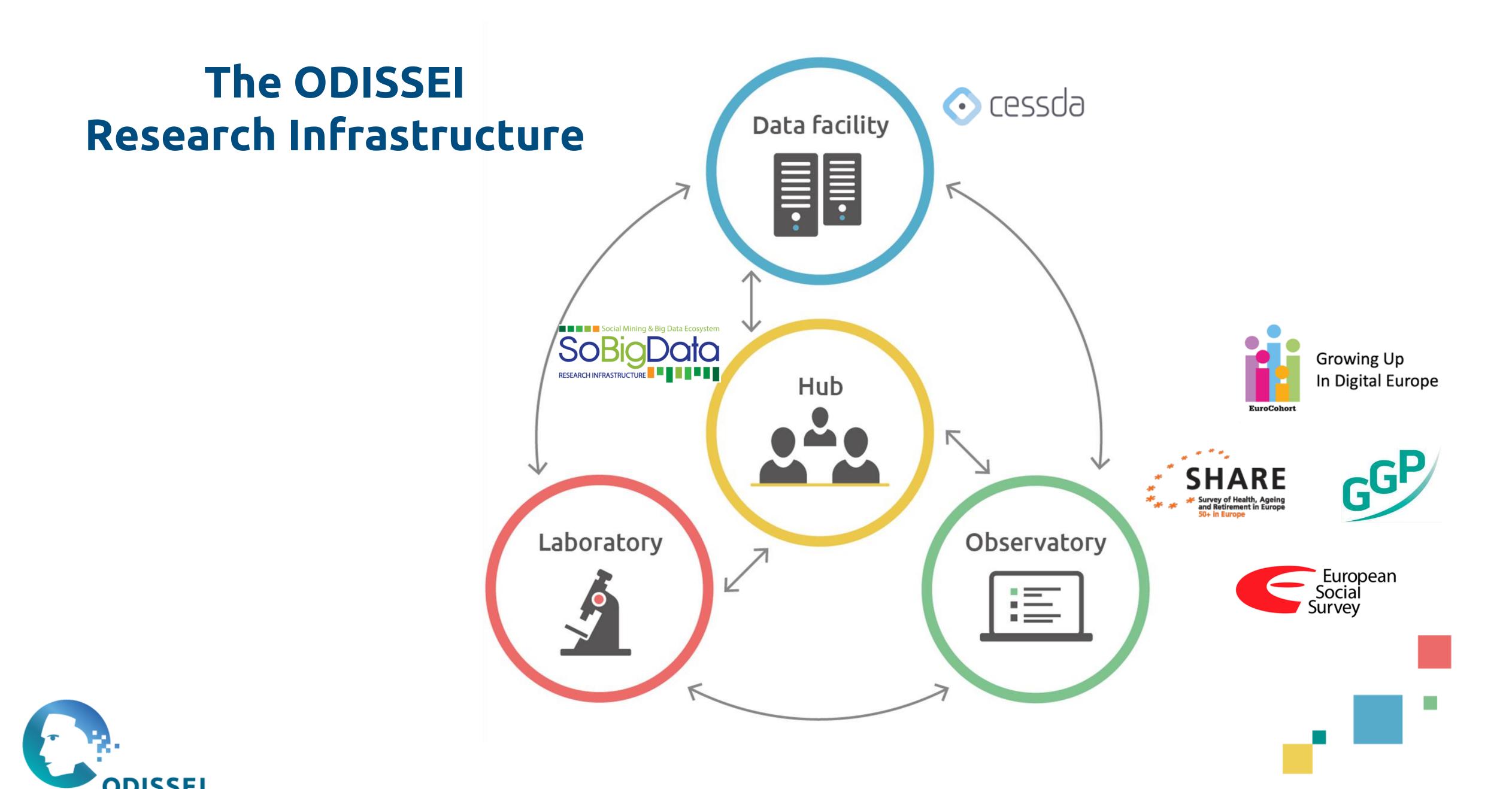
ODISSEI is a federated data infrastructure for the social and economic sciences in the Netherlands, representing 45 member organizations. 13 deliver services. Structural funding of €1 million per annum, LSRI funding of €9.4 million, plus additional grants

Operation funded by Members, investments funded by NWO.









Statistics Netherlands

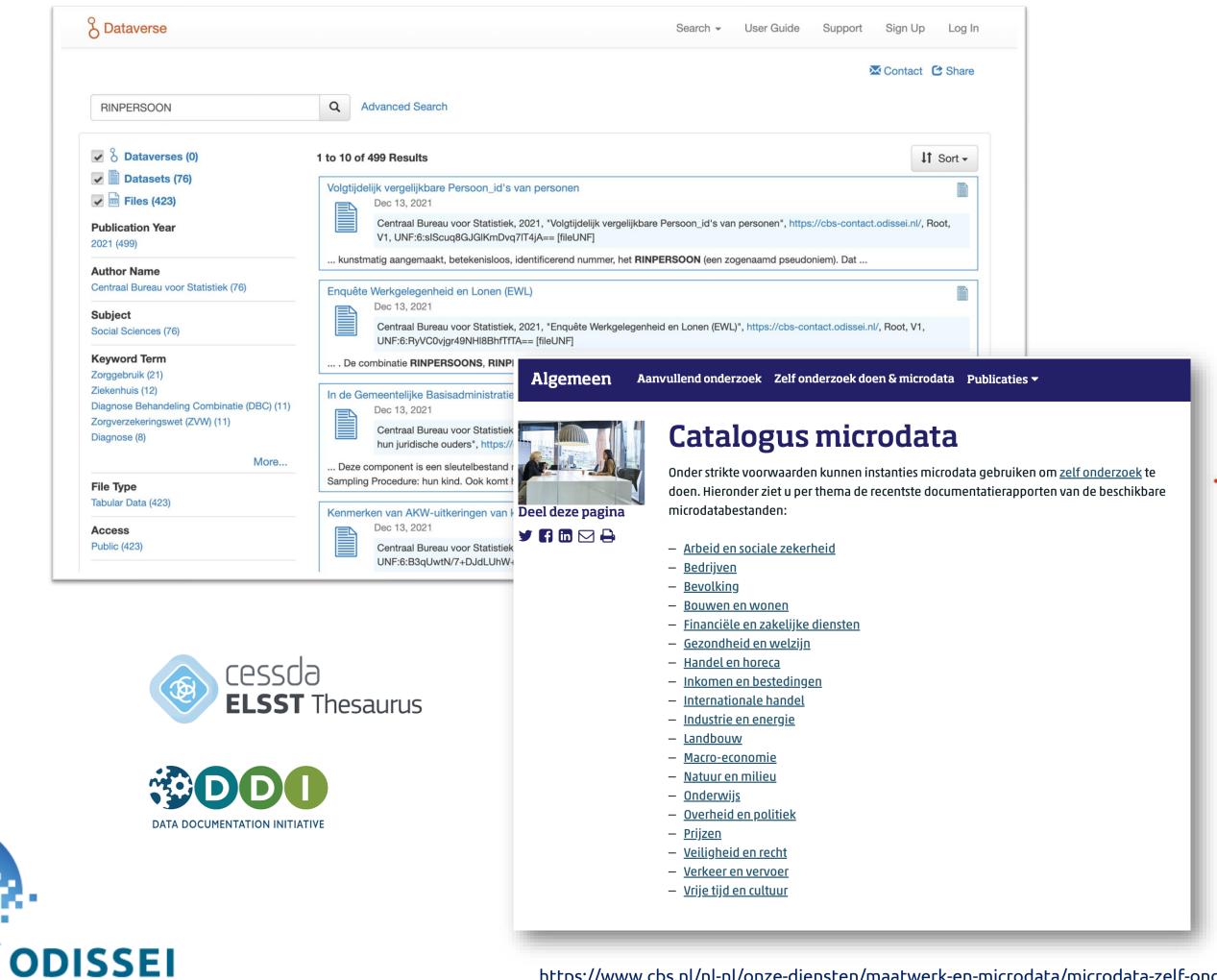
Administrative Data

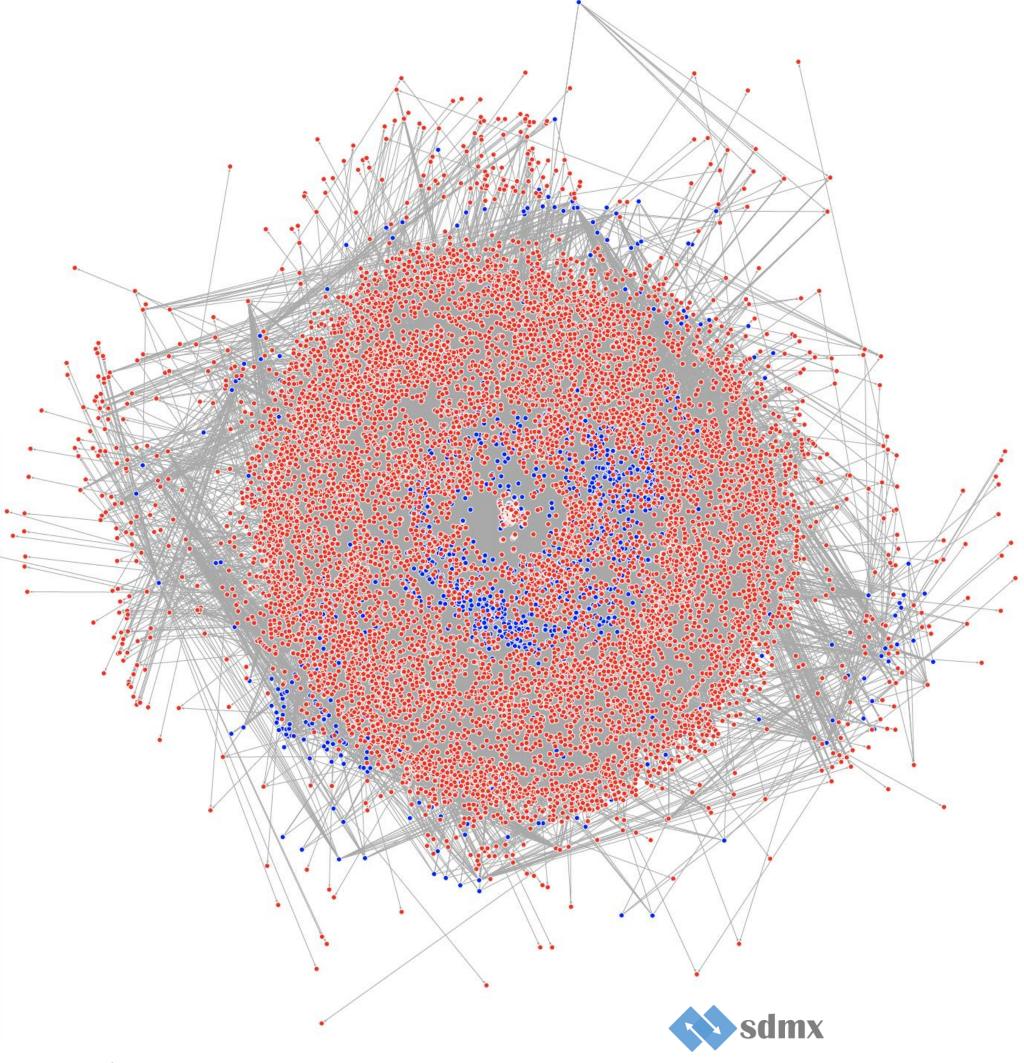
ODISSEI



A single, large-scale, relational database



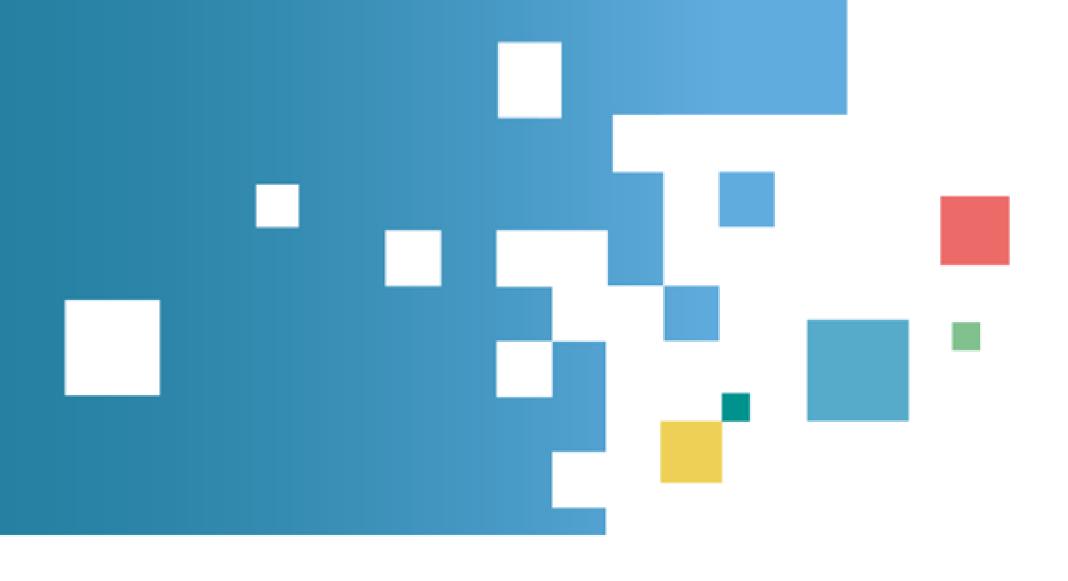




The LISS Panel

ODISSEI

An Online, representative, open access panel



The LISS panel

An online panel of 5,000 households, comprising of 7,500 individuals.

Based on a true probability sample by Statistics NL (CBS)

Online questionnaire of 15 to 30 minutes, once per month

Ask own questions to a large group of respondents

Link data to already existing LISS panel data as well as CBS microdata



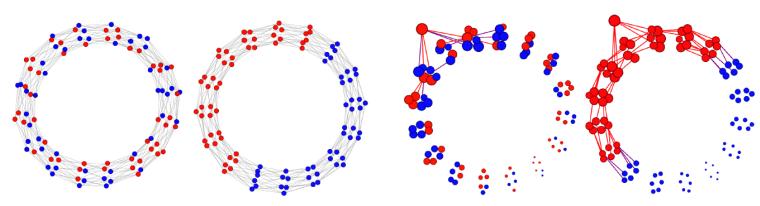


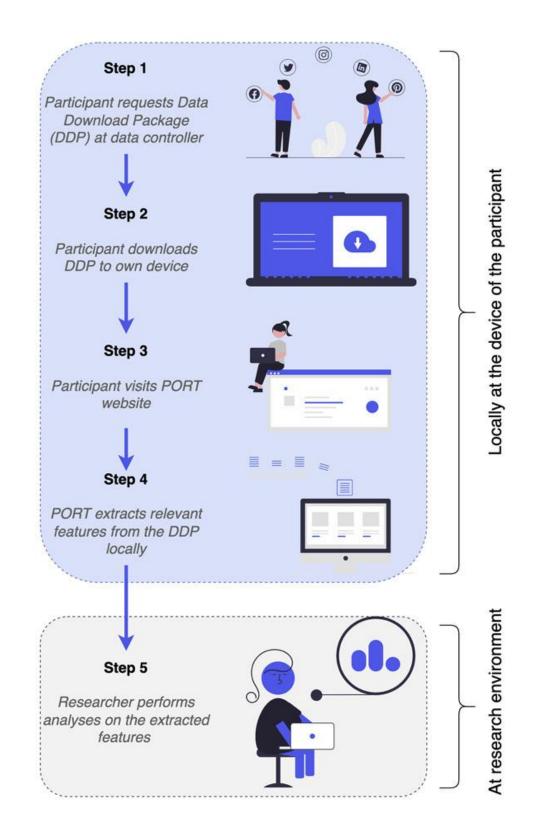
Extending LISS Functionality

- Mass Online Experiments in a linkable, representative sample using Otree within LISS.
 Allows for large group experiments (200+ people) to observe group dynamics.
- PORT Distributed analytics of locally stored personal data (social, financial, communications, travel, health etc) https://arxiv.org/pdf/2011.09851
- Both tools allow social interaction data to be linked to administrative data -> empirically drive ABM





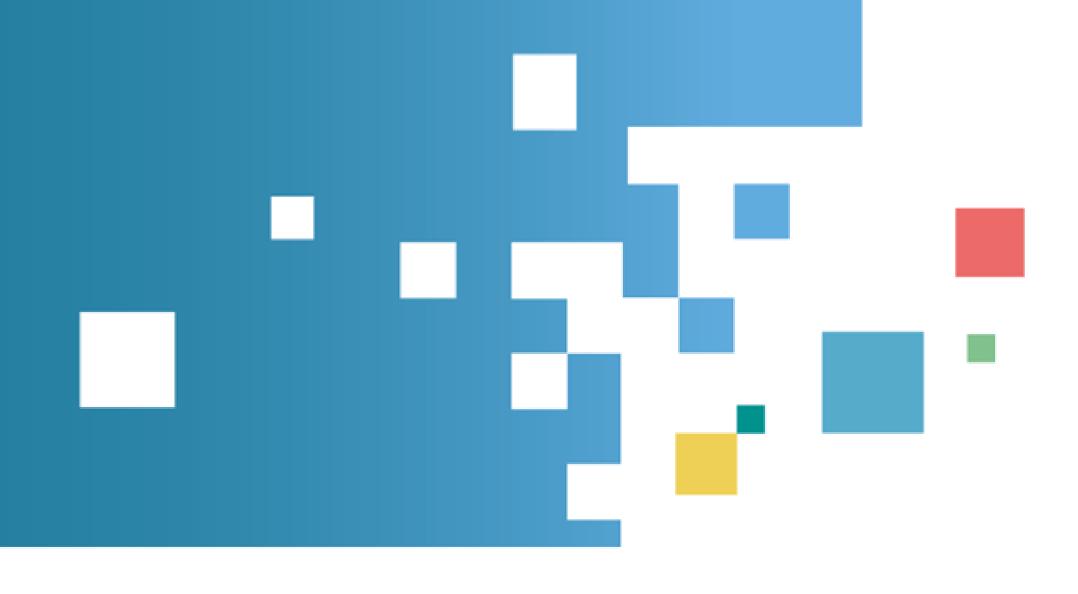






Supporting Researchers

ODISSEI

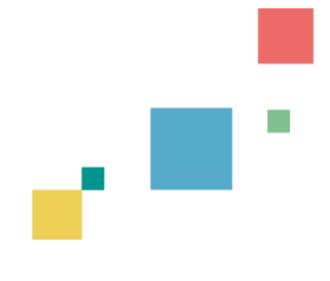


Netherlands eScience Grants



- In cooperation with the Netherlands eScience Center
- 3 months of Research Software Engineer (RSE) time in kind
- In 2021 round 5 projects were awarded. Examples:
 - modelling consequences for school segregation with an agent-based model
 - visualization and tracking tool of (cross-border) investment flows

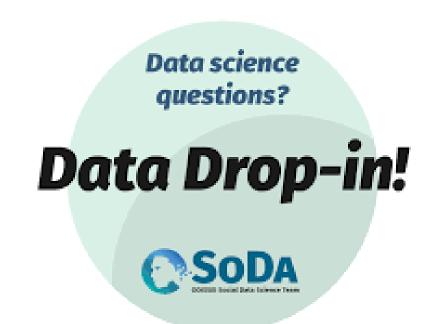




The ODISSEI Social Data Science Team (SoDa)

- Forms of support:
 - Collaborative projects or consultations
 - Support in grant applications (ODISSEI eScience but also ERC/NWO and related)
- Data Drop- ins
 - informal (online) meetings to answer all data related questions
 - every third Thursday of the month
 - next meeting on 17 February, 16.00-17.00
 - no registration needed

Support by SoDa - free of charge, subject to availability





The ODISSEI-SICSS Summer School

SICSS

June 20th - 1st July – Rotterdam

20 Participants, 1 week of hands-on Tutorials, 1 week of Benchmark Challenge

Onboarding: eScience Data Carpentry Workshop for Python

Week 1: ODISSEI, Networks, Machine Learning, Benchmarking

Week 2: Benchmark Challenge on <u>Precarious Employment</u> and <u>Institutional Trust</u>

































The ODISSEI Conference for Computational Social Science in the Netherlands

November 3rd 2022 - Utrecht

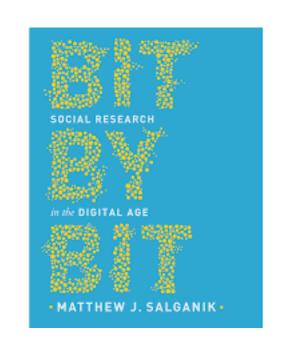
Professor Frauke Kreuter, Social Data Science Center at the University of Maryland and BERD at University of Mannheim

Professor Matt Salganik, Princeton University, author of Bit by Bit, co-Founder SICSS, PI of Fragile Families Challenge

Registration close, but will be streamed (@ODISSEI_nl)











Use Cases of ODISSEI

ODISSEI

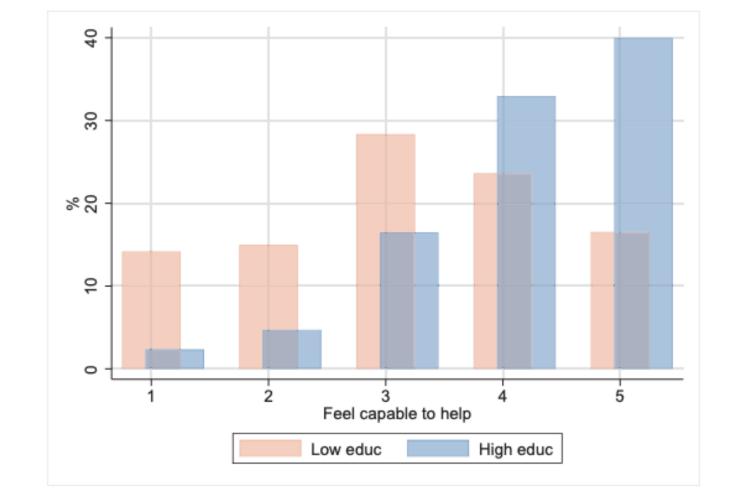


LISS Rapid Fielding

- LISS Panel COVID Grant
- Inequalities in home-schooling during lockdown
- Not just immediate effects but also long term effects become observable
- https://osf.io/preprints/socarxiv/hf32



Figure 10: Capability to help (secondary education)



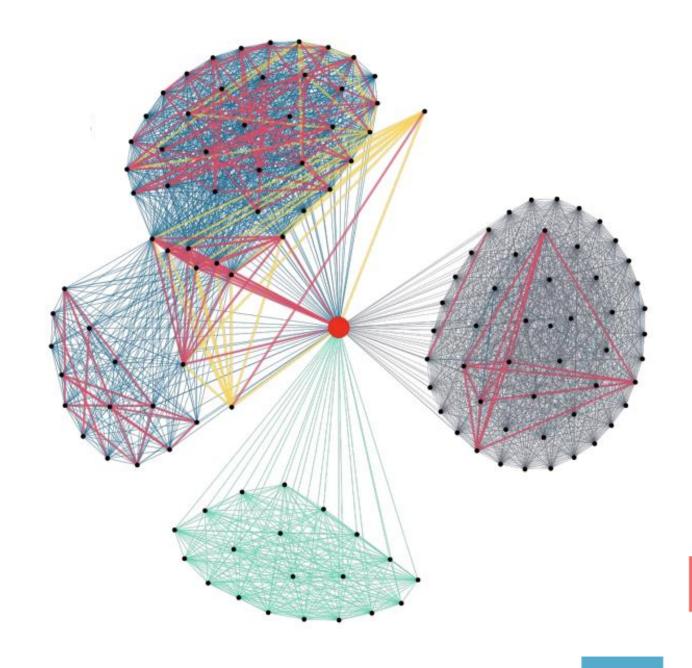




Whole Population Network

- Whole Population Network of the Netherlands
- 17 million people, 1.4 billion links
- Constructed in the OSSC, linking diverse data togethe to understand social structures
- https://www.popnet.io/
- https://www.cbs.nl/en-gb/background/2022/20/a-person-network-of-the-netherlands

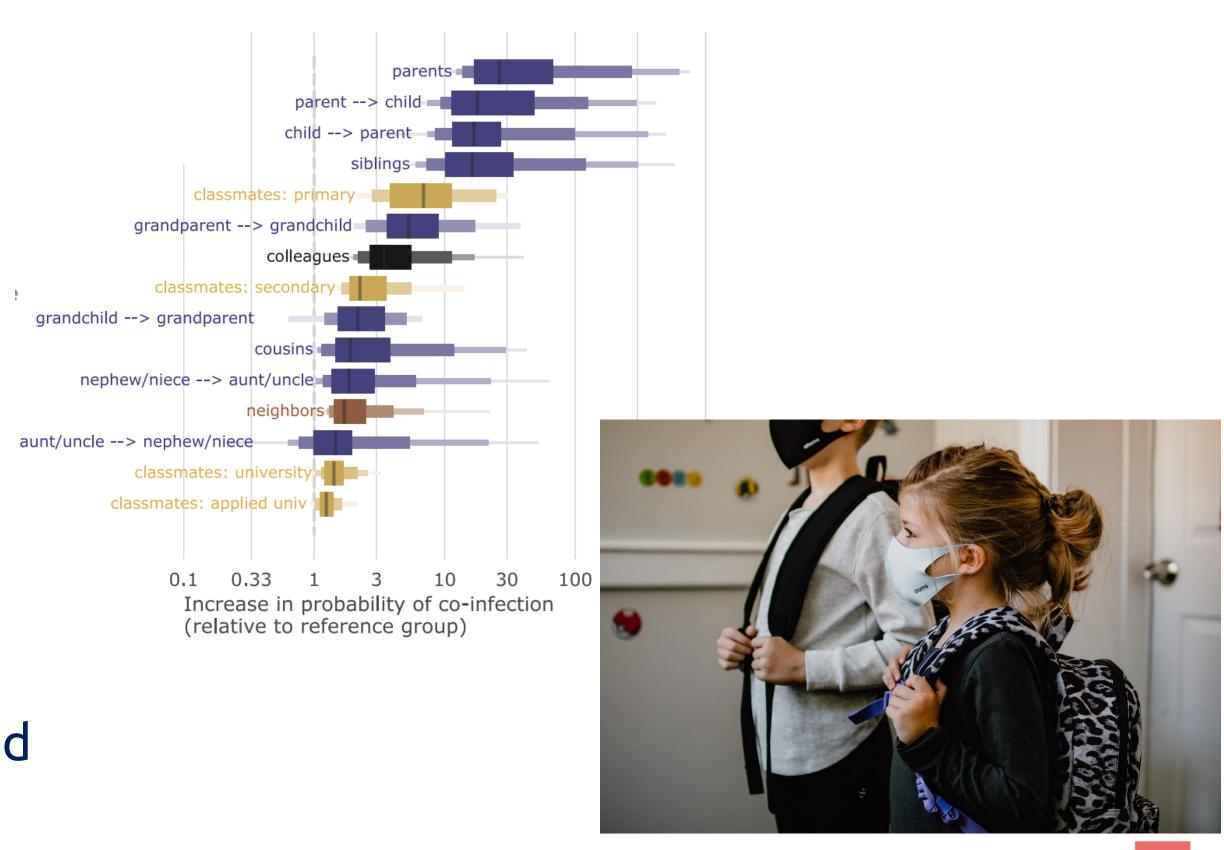






Use Cases – COVID transmission

- Do we observe increased risk of COVID transmission through the network?
- Which Layers and which Relationships are associated with transmission risk?
- Does this vary over the duration of the pandemic?
- Missing link between 'administrative' links and actual relationships and interactions













Ministerie van Volksgezondheid,

en Milieu

Welzijn en Sport

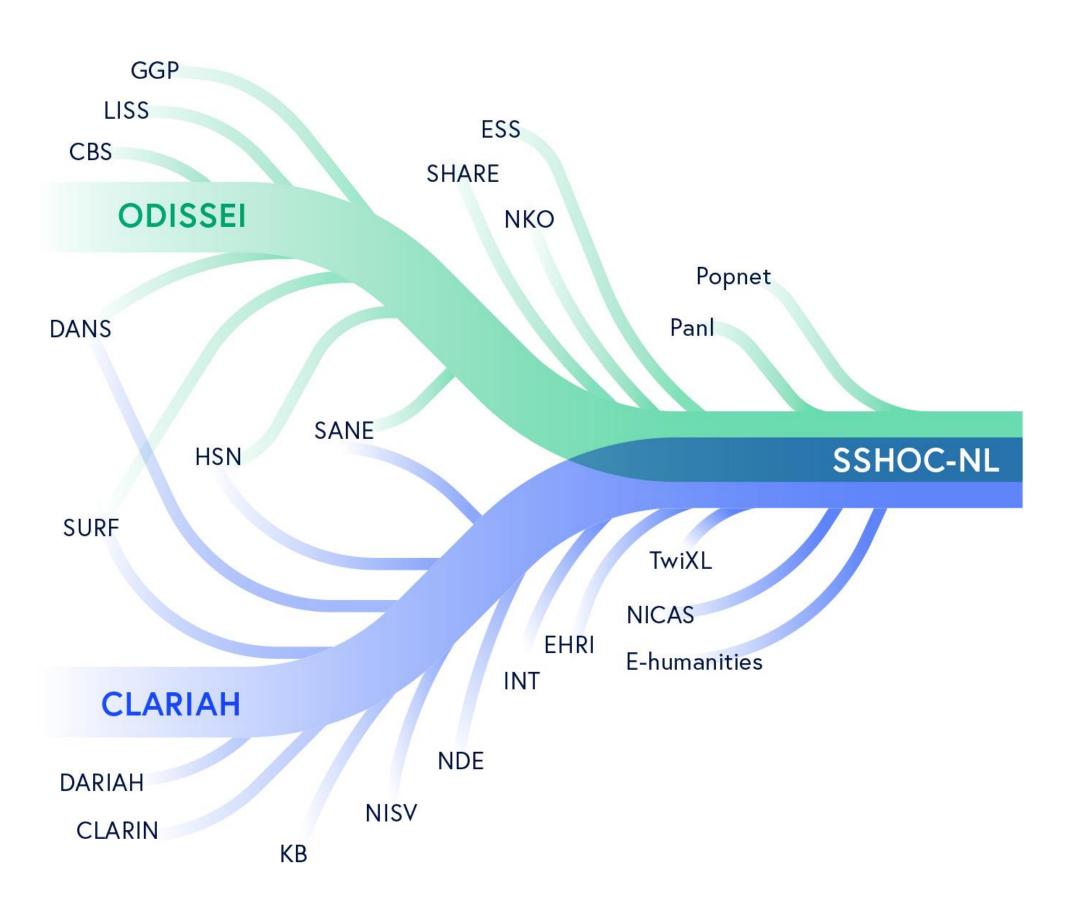




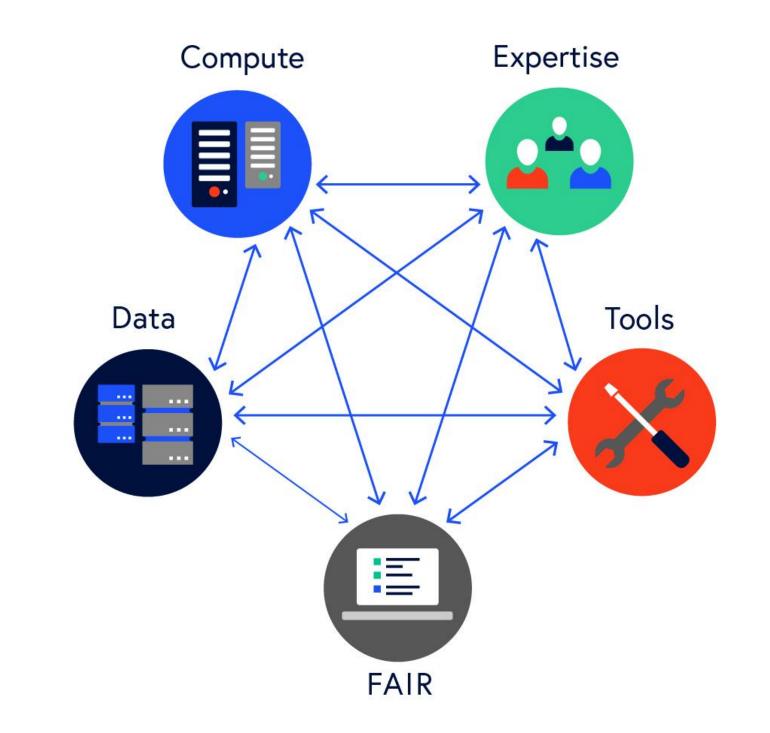


Next Steps **ODISSEI** Open Data Infrastructure for Social Science and Economic Innovations

SSHOC-NL









- ~ same as SSHOC-EU
- Vital for interaction with e-Infra where investments are very large
- Large investment in coordination and managing the AI transition in SSH



Contact

Subscribe to our newsletter via https://odissei-data.nl Follow us on Twitter @ODISSEI_NL

For questions: info@odissei-data.nl

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