

Czech EOSC, during Czech Presidency!

L. Matyska, M. Svoboda, D. Hanzlíková,
J. Klánová, A. Strachotová, M. Cebecauer,
P. Straňák, J. Krejčí

EOSC Symposium 2022, Prague, 14.11.2022

Session plan



13:00-13:15: Introduction to the Czech Implementation of EOSC (L. Matyska)

13:15-13:50: Czech EOSC Lightning Talks:

M. Svoboda (Metadata),

D. Hanzlíková (Education and Human Resources),

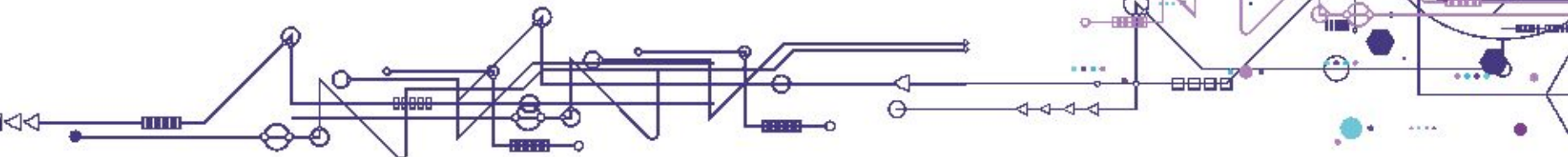
J. Klánová, J. Vondrášek (Environmental and Life sciences),

M. Cebecauer (Material Sciences and Technology),

P. Straňák, J. Krejčí (Humanities and Social sciences)

13:50-14:30: Panel Discussion and Q&A

Moderator: Jiří Marek, Open Science Manager, MUNI



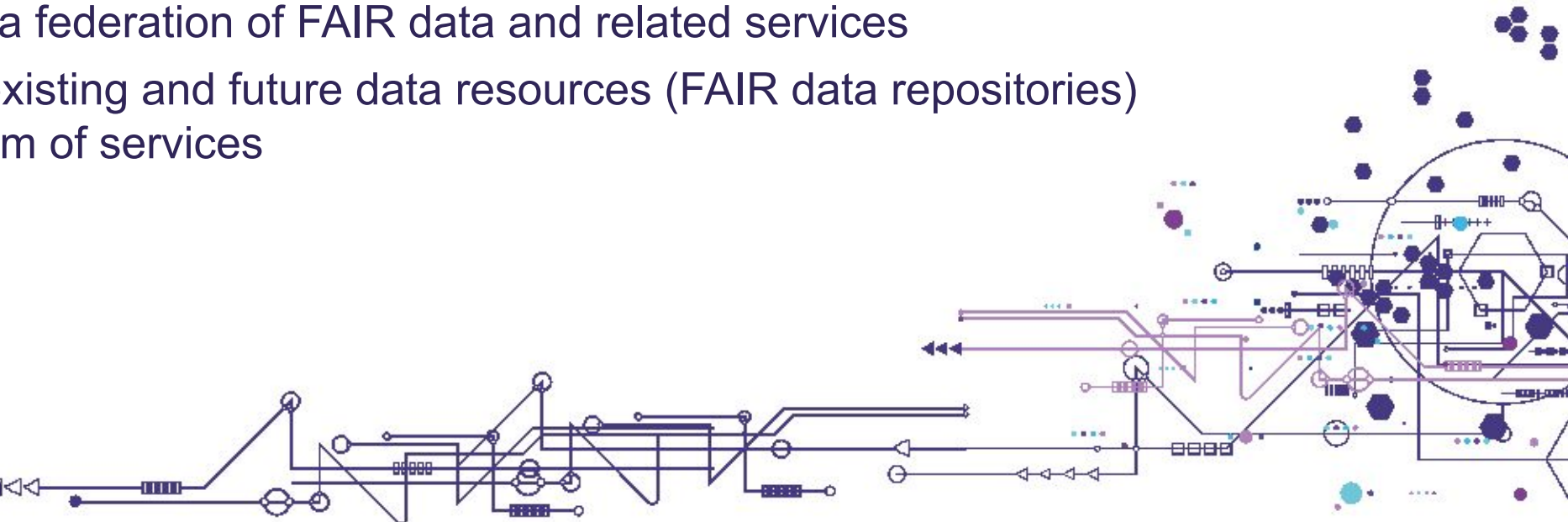
Steps towards the Czech Implementation of EOSC

L. Matyska

e-INFRA CZ (*CERIT-SC/MU, CESNET, IT4Innovations/VŠB*)

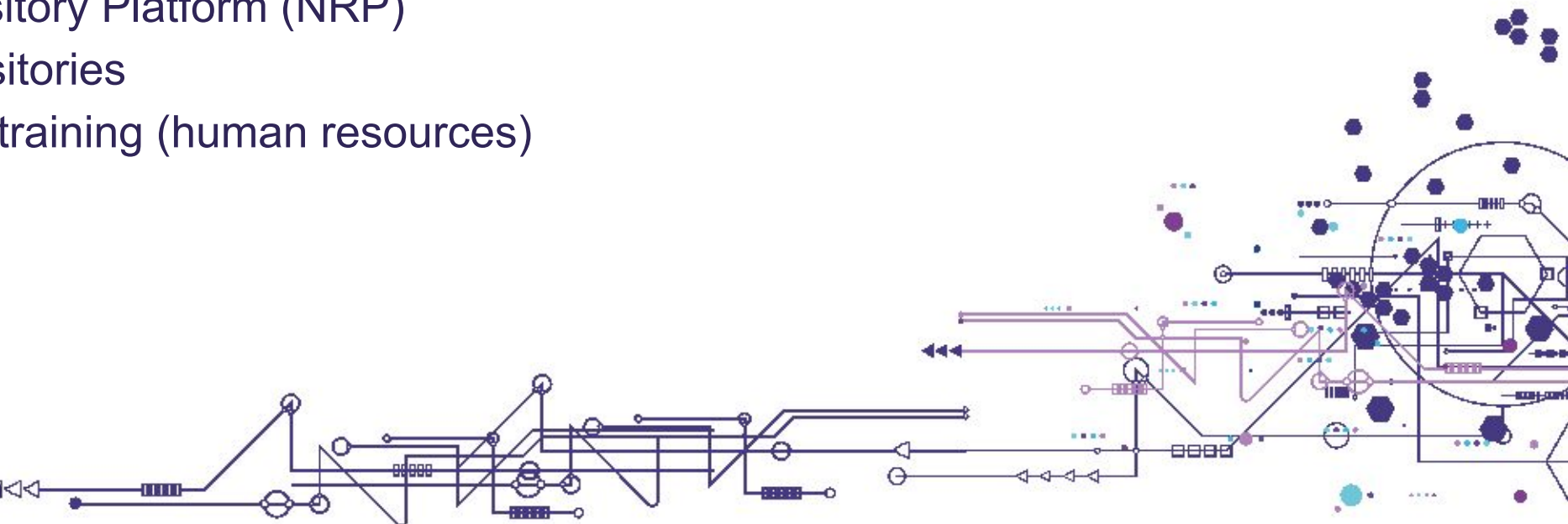
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- Broader context: Open Science principles
 - FAIR (**F**indable, **A**ccessible, **I**nteroperable, **R**eusable) data
 - Funding agencies pushing towards openness
 - Open Access
 - Data Management Plans
- **Focus on FAIR research data**
- **EOSC CZ** seen as a federation of FAIR data and related services
 - Federation of existing and future data resources (FAIR data repositories)
 - Open ecosystem of services



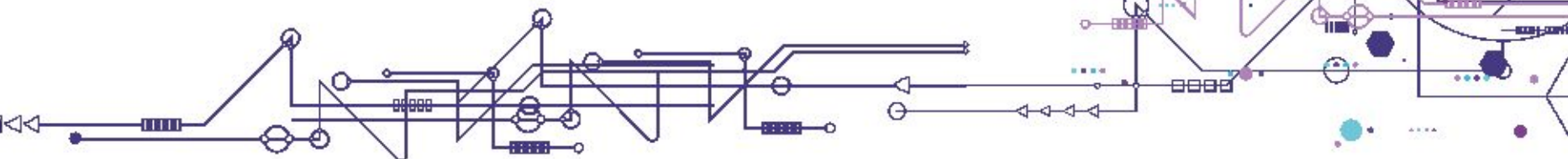
EOSC CZ Principles

- EOSC CZ architecture discussion in 2021
 - Under the auspices of the MEYS
- **Result: The Architecture of EOSC Implementation in the Czech Republic**
 - **National Data Infrastructure (NDI)**
- Data-centric infrastructure with 4 key components (pillars)
 - National Metadata Directory (NMA)
 - National Repository Platform (NRP)
 - Thematic repositories
 - Education and training (human resources)



Funding and calls

- EOSC implementation to be supported through structural funds
- Preliminary allocation of 120 M€ for the 2023-2028 period
- Several calls under discussion
- First call already out
 - Projects **EOSC CZ** (EOSC Secretariat, NMA, training coordination; e-INFRA CZ) and **CARDS** (Metadata, PIDs; NTK)
- Second call under preparation
 - NRP implementation, call early 2023, allocation around 50 M€
- Third call for the **thematic clusters**, call early 2024, allocation around 40 M€
 - Discussed/prepared within thematic working groups
- Fourth call **Uptake/Upskilling**, call early 2025
 - Initial discussion only



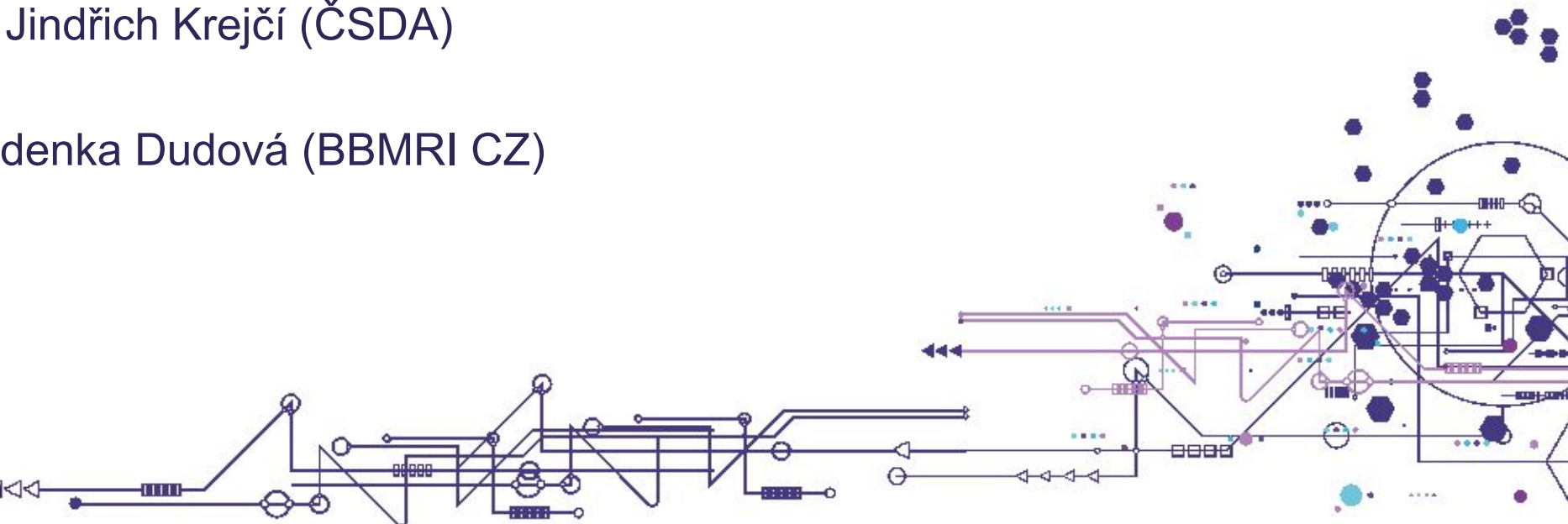
Governance and Preparatory Steps

- Coordination Board at MEYS
 - Chaired by two vice-ministers
- Working groups established since Autumn 2021
 - Open platform, with fluid membership
 - Discussion of basic principles of all aspects of the EOSC CZ implementation
 - What is needed by researchers and their communities
 - And how to best fulfill these expectations
- 4 foundation working groups
 - **Metadata, Architecture, Core Services, Training and Education**
- 7+1 thematic working groups
 - Defining gradually the thematic clusters



Thematic Working Groups

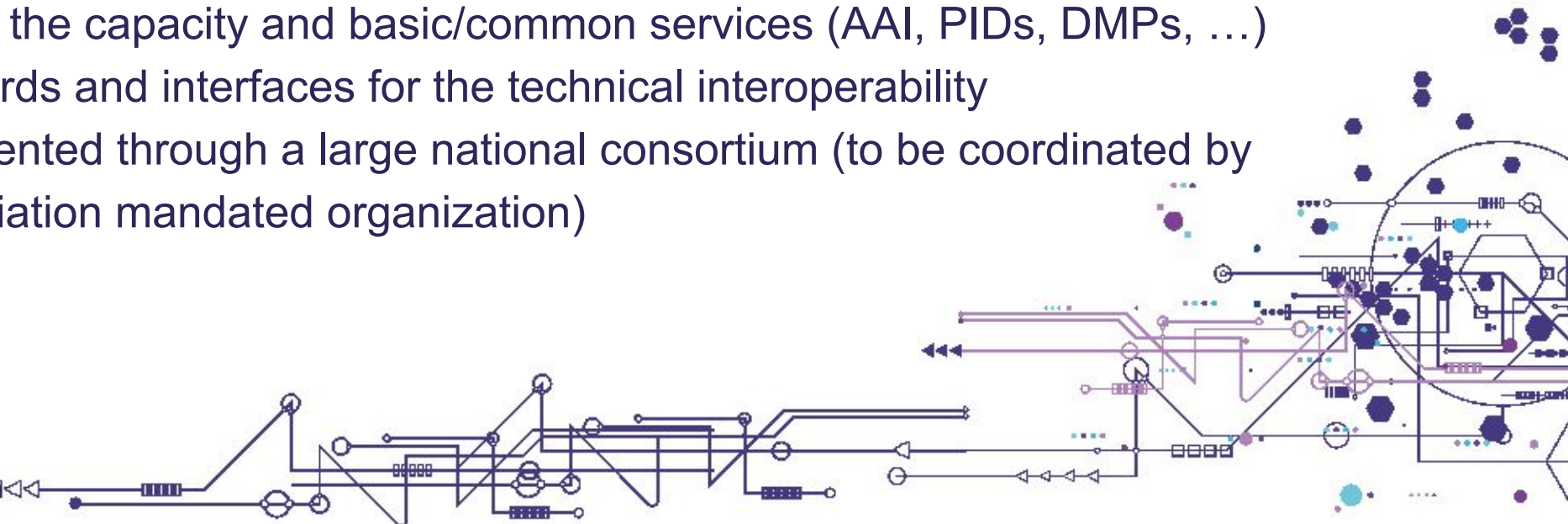
- **Bio/Health/Food** – Jiří Vondrášek (ELIXIR CZ)
 - **ENVRI** – Jana Klánová (RECETOX a EIRENE)
 - **Physics** – Jiří Chudoba (CERN)
 - **Material Sciences and Technology** – Marek Cebecauer
 - **AI and Digital Science** – Jan Šivic
 - **Humanities and Arts** – Jan Hajič (LINDAT/CLARIAH-CZ)
 - **Social Sciences** – Jindřich Krejčí (ČSDA)
- and
- **Sensitive Data** – Zdenka Dudová (BBMRI CZ)



National Data Infrastructure

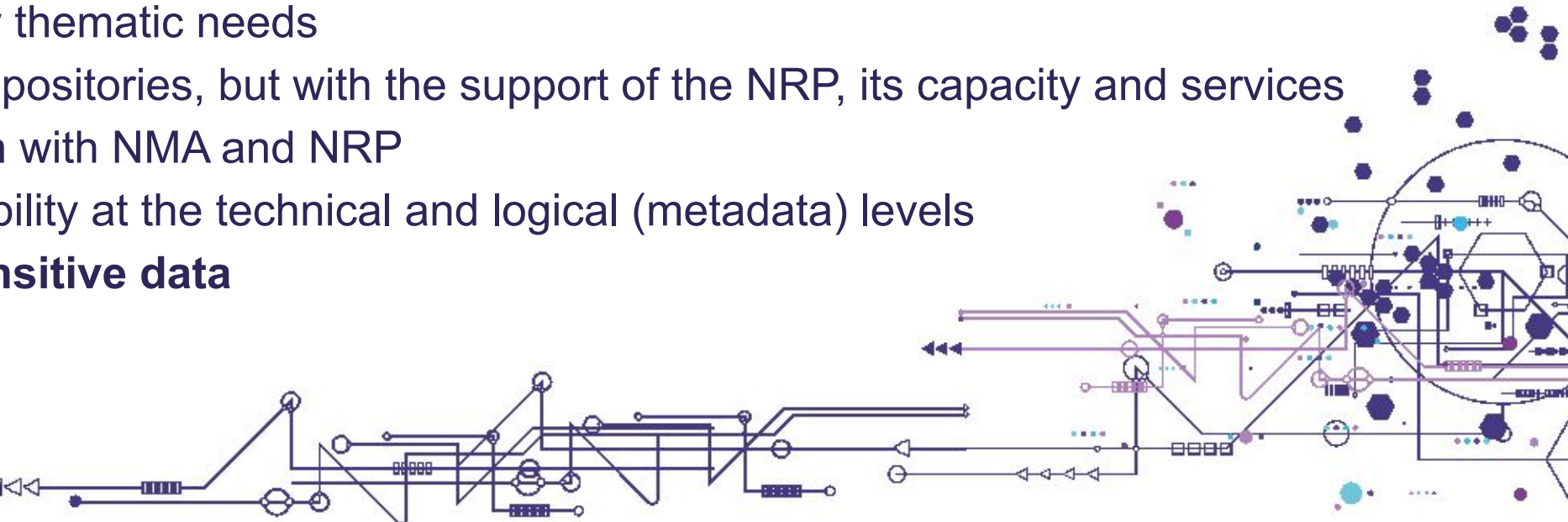
Key components

- **National Metadata Directory (NMA)**
 - Key component, guaranteeing findability and interoperability
 - Interacting directly with all other NDI components
 - Centrally managed NDI component
 - Still distributed; e-INFRA CZ responsibility
- **National Repository Platform (NRP)**
 - NDI backbone, the capacity and basic/common services (AAI, PIDs, DMPs, ...)
 - Defines standards and interfaces for the technical interoperability
 - Will be implemented through a large national consortium (to be coordinated by EOSC Association mandated organization)



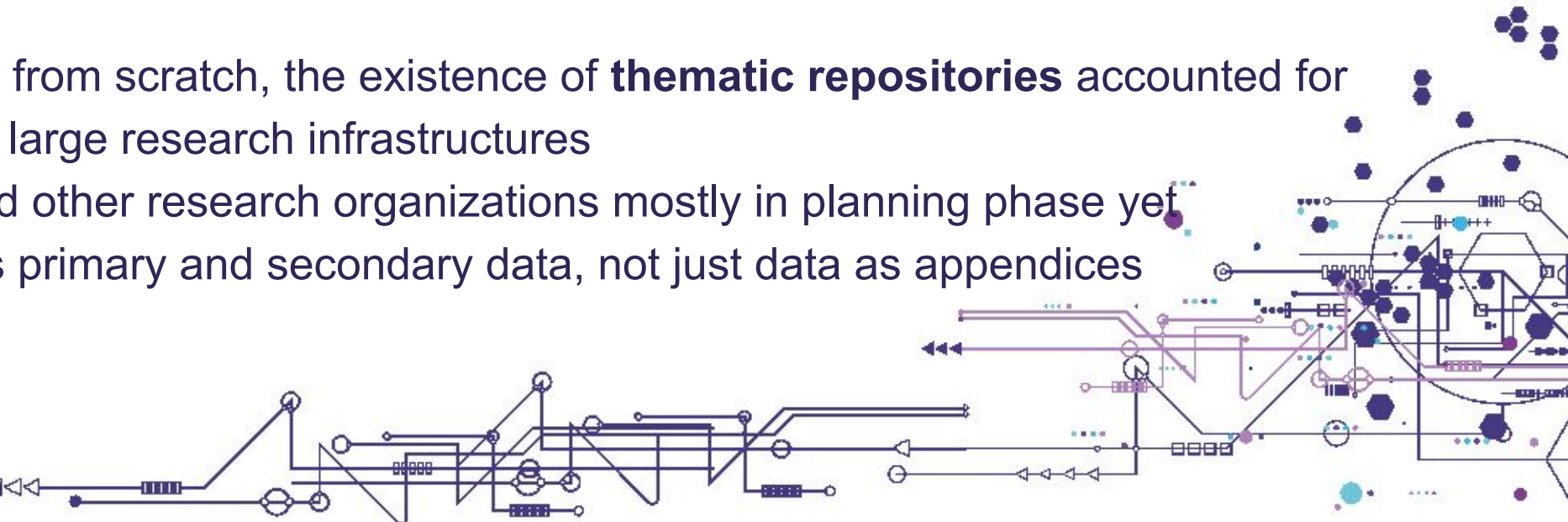
Other parts

- **Human Resources**
 - Horizontal Activity
 - To be supported through the whole implementation of NDI
- **Existing thematic repositories**
 - Support of on-going activities and repositories
 - Continuity, long term sustainability, ...
 - Support of new thematic needs
 - Not new repositories, but with the support of the NRP, its capacity and services
 - Interconnection with NMA and NRP
 - Interoperability at the technical and logical (metadata) levels
- Specific care of **sensitive data**



National Data Infrastructure

- Complex system with the following aims:
 - Basic **infrastructure** with **sufficient capacity** to store research data in Czechia
 - Open set of **key and other services** for data manipulation
 - **National Metadata Directory** and **National Repository Platform**
- With parallel support of **human resources**
 - Education of (future) scientists, new competencies (curation), data stewards, data scientists
- Not everything built from scratch, the existence of **thematic repositories** accounted for
 - Usually, part of large research infrastructures
 - Universities and other research organizations mostly in planning phase yet
- Data-centric means primary and secondary data, not just data as appendices to publications



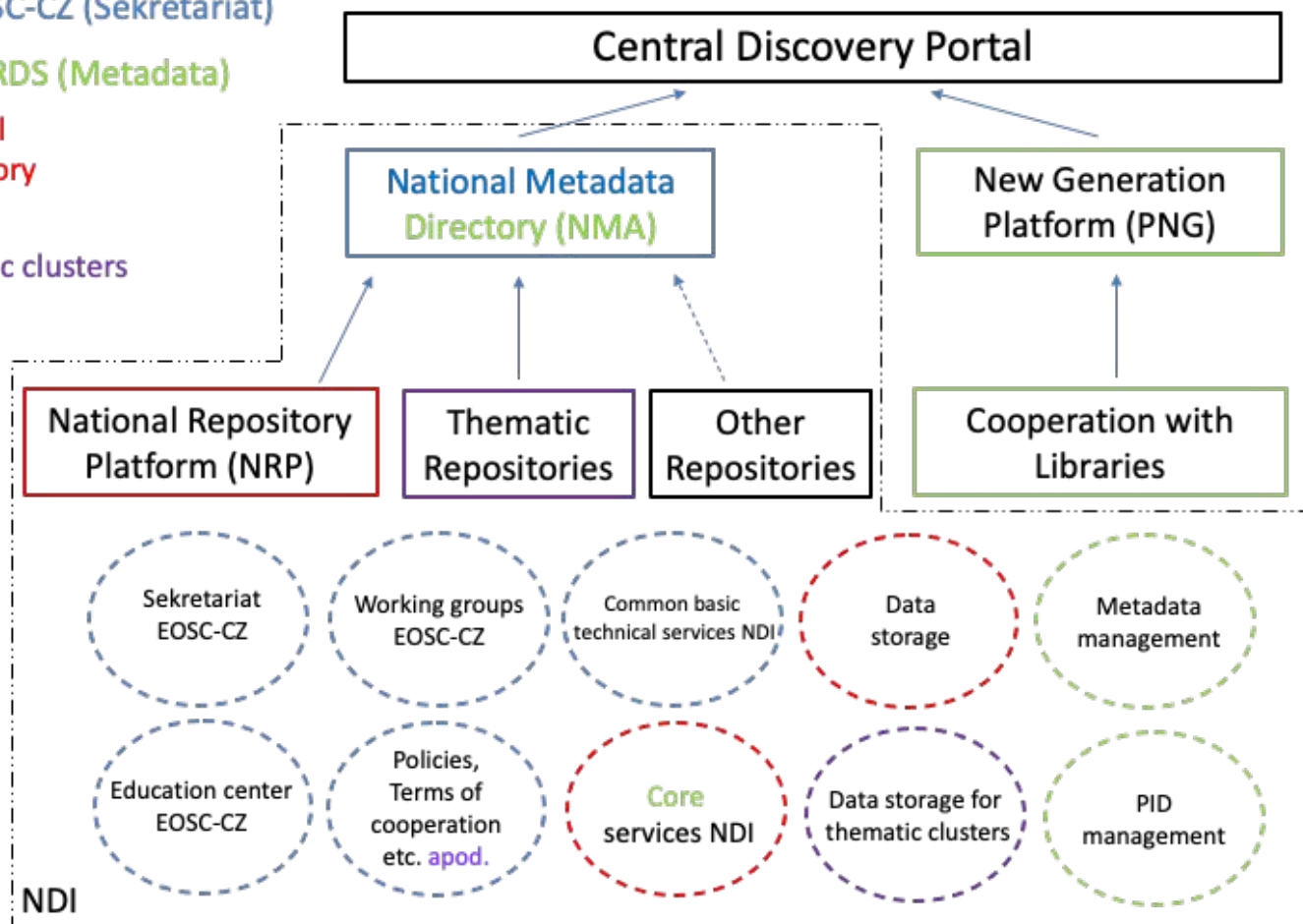
Czech EOSC implementation scheme

IPs EOSC-CZ (Sekretariat)

IPs CARDS (Metadata)

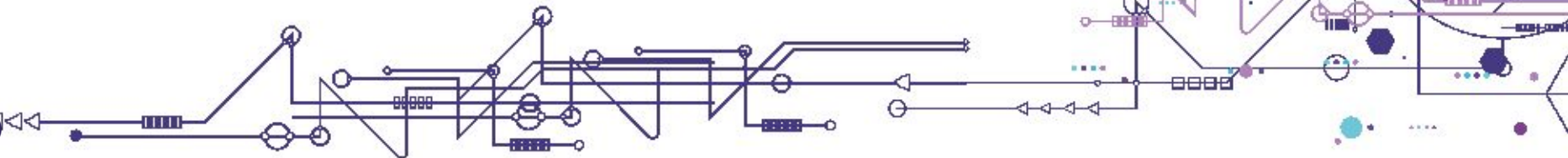
National
Repository
Project

Thematic clusters
projects



Summary

- EOSC: move from compute-centric to the data-centric view
 - Strong support from the ministry
 - Opportunity for the e-INFRA CZ – reshaping its core business
- EOSC implementation as an opportunity to evolve the national e-infrastructure
 - Collaboration and partnership a key
- Human resources through training and education
 - Universities' involvement a key
- NDI as an open complex environment
 - **Capacity, metadata and ontologies, services**
 - Full compliance with European level (MVE just a start)
 - Thematic repositories fully integrated into the whole ecosystem
- Also support for sharing and actively working with information about EOSC
 - Secretariat for EOSC CZ, Information and training Portal





Thank you for your attention

eosc-info@e-infra.cz

More information at e-infra.cz/EOSC

e-infra.cz

Metadata Interoperability in the Czech EOSC

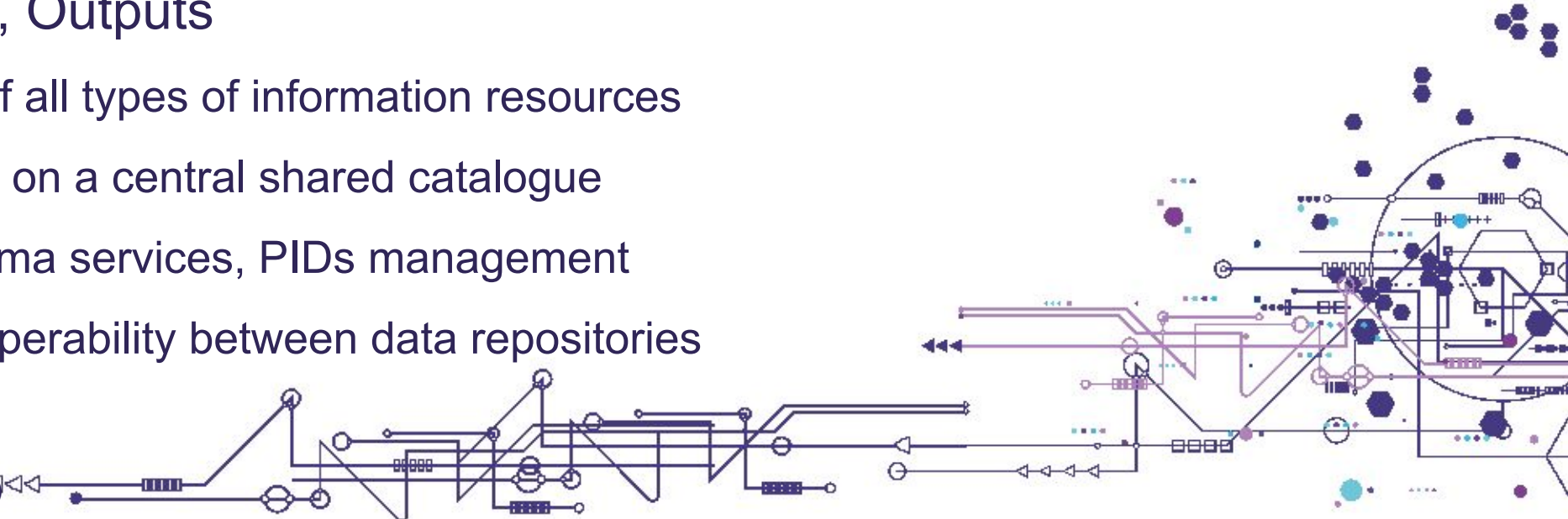
M. Svoboda, P. Černohlávková
(National Library of Technology)

EOSC Symposium 2022, Prague, 14.11.2022

CARDS project (2023 – 2028)



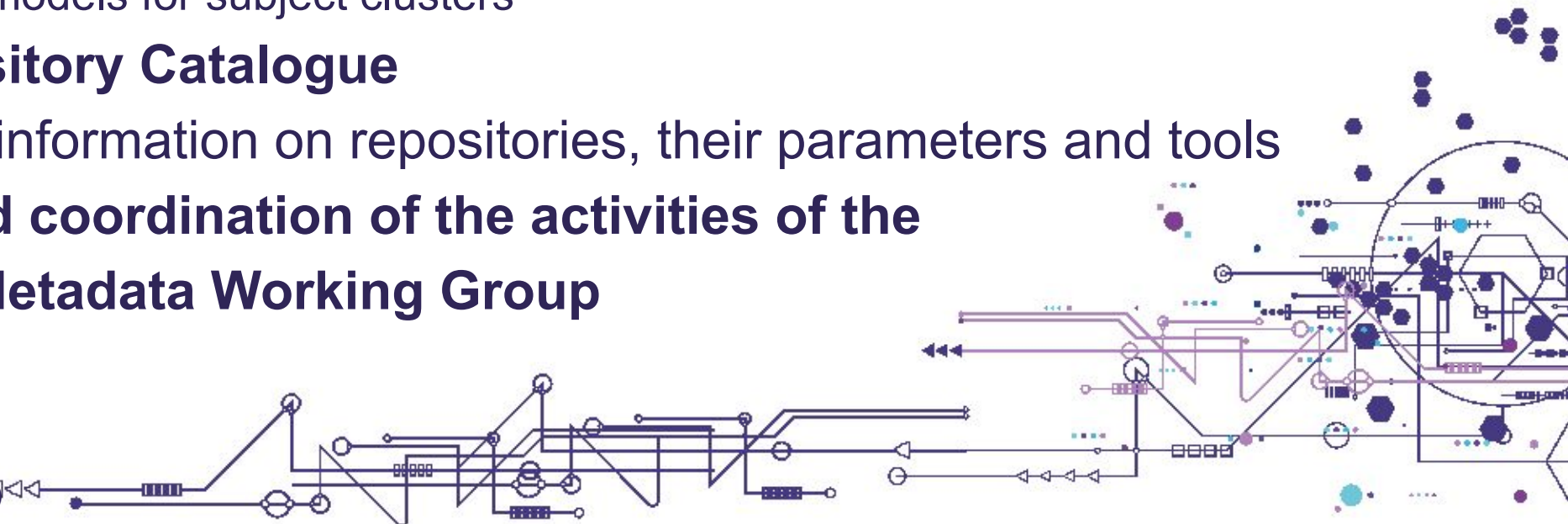
- Czech Academic and Research Discovery Services
 - PA 2 Central New Generation Platform (PNG)
 - PA 3 Research Data Metadata and Persistent IDentifiers Support – Metadata WG EOSC-CZ
- People - Martin Svoboda, Petra Černohlávková
- Goals, Activities, Outputs
 - management of all types of information resources
 - services based on a central shared catalogue
 - metadata schema services, PIDs management
 - ensuring interoperability between data repositories



Research Data metadata and PID support (1)

Metadata interoperability support

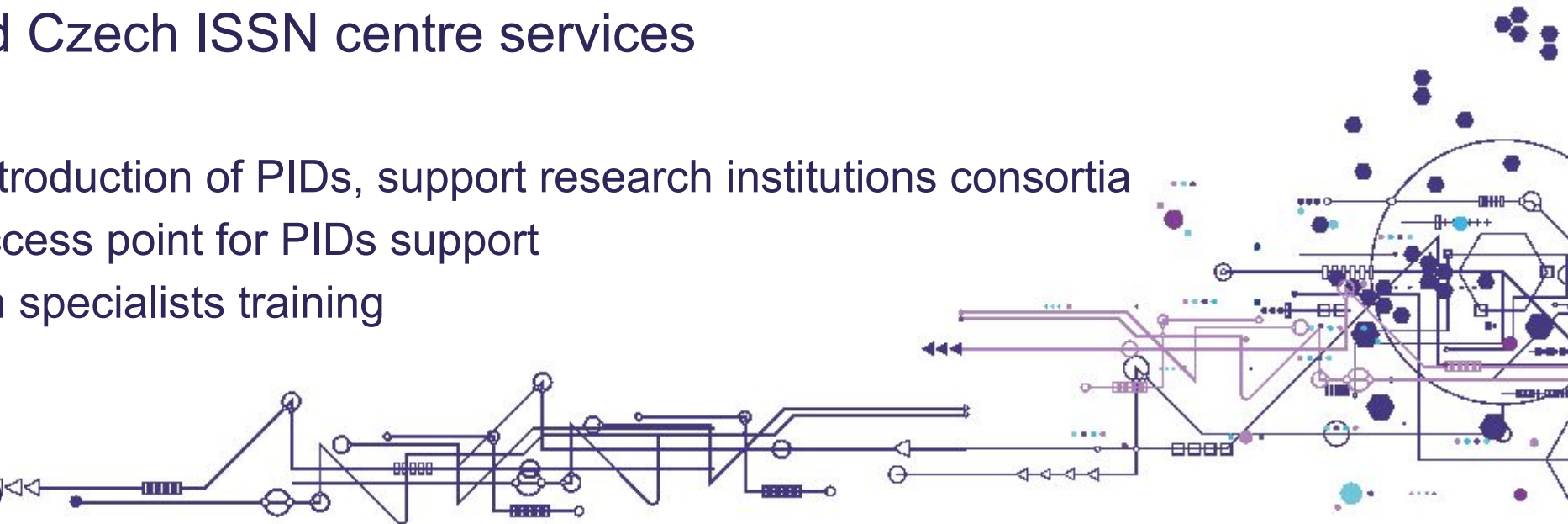
- **Dedicated department within NTK**
 - Support and consultations for research data metadata management
 - universal metadata model for research data description (definition, modification, implementation in National Metadata Directory)
 - metadata workflow settings
 - metadata models for subject clusters
- **National Repository Catalogue**
 - Operational information on repositories, their parameters and tools
- **Leadership and coordination of the activities of the EOSC-CZ Metadata Working Group**



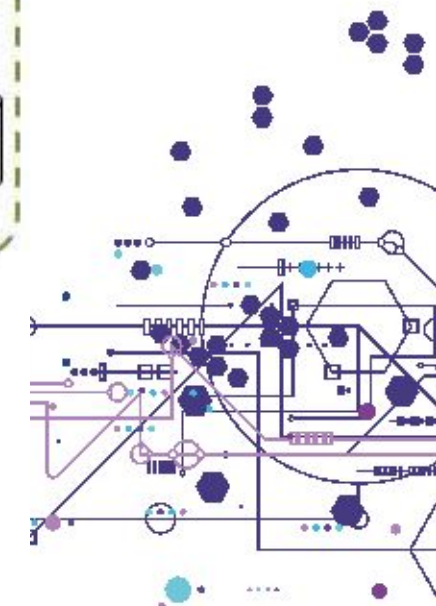
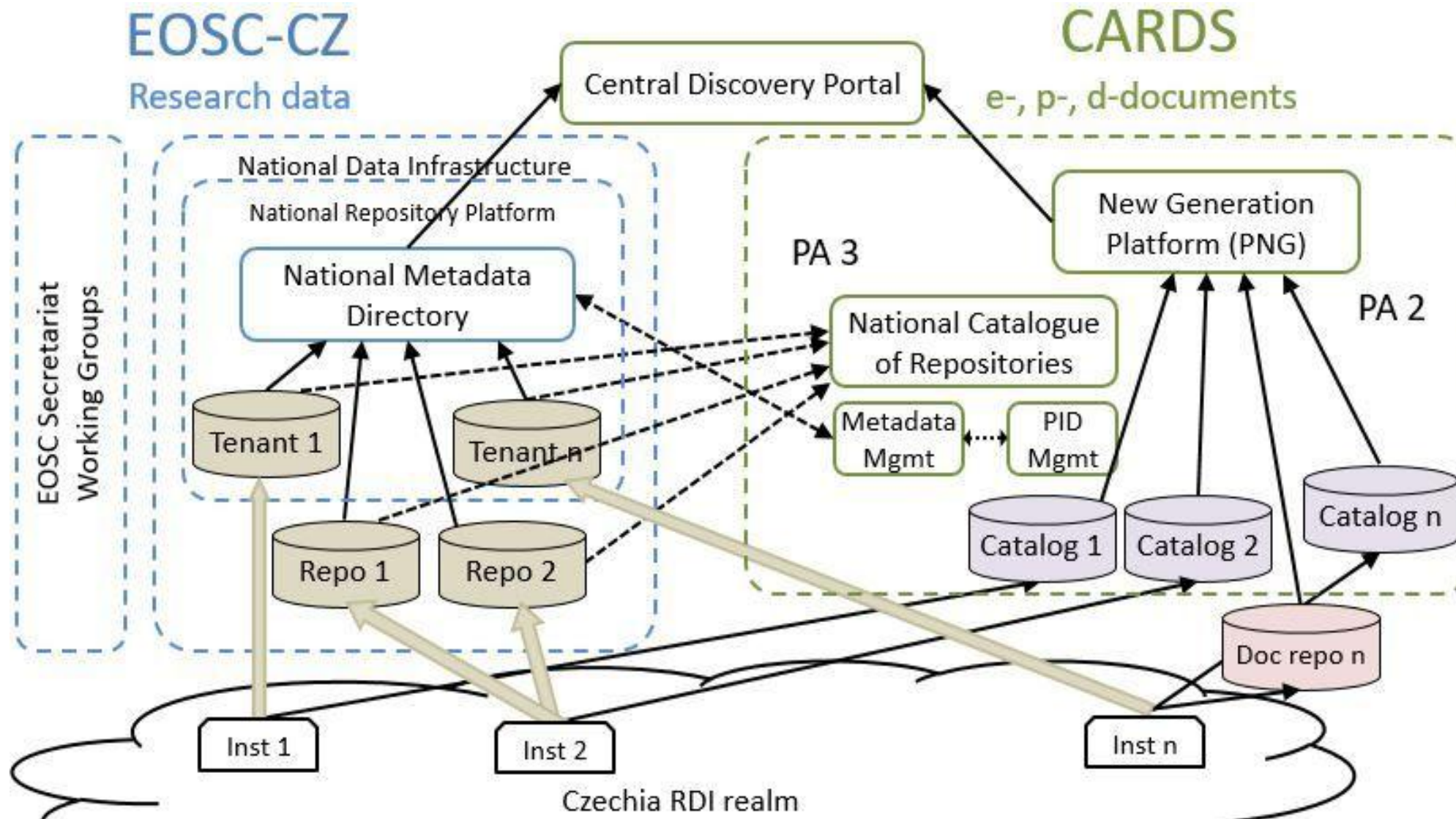
Research Data metadata and PID support (2)

National Persistent Identifiers Centre

- **Dedicated department within NTK**
 - National expert centre for the PIDs
 - administrative, coordination, methodological and financial support
 - DOI consortium
 - support for ORCID consortium
 - upgraded Czech ISSN centre services
 - **Goals**
 - facilitate introduction of PIDs, support research institutions consortia
 - national access point for PIDs support
 - information specialists training



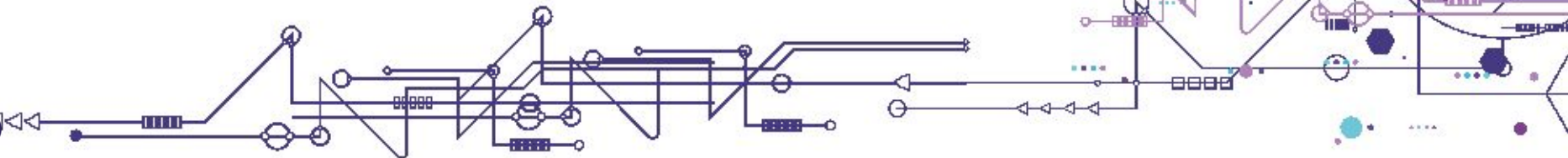
Complementarity of EOSC-CZ and CARDS projects



Integration in the Czech EOSC area

Complementarity of EOSC-CZ and CARDS projects

- **National Repository Catalogue**
 - directory of relevant resources to link to the NMD
- **Support for the National Metadata Directory**
 - metadata harvesting into the NMD support
 - implementation of the Universal Metadata Model
 - consultation on metadata issues and their impact on NMD functionality
- **Consultations (other metadata and PIDs support)**
- **Central shared catalogue PNG for digital research output, electronic, digitized and printed resources**



NTK

50°6'14.083"N, 14°23'26.365"E
Národní technická knihovna
National Library of Technology

Thank you for your attention

ndi-wg-metadata@e-infra.cz

More information: <https://cards.techlib.cz/>

techlib.cz/en
/ [WG](#)
[Metadata](#)

Data steward? What's a data steward?

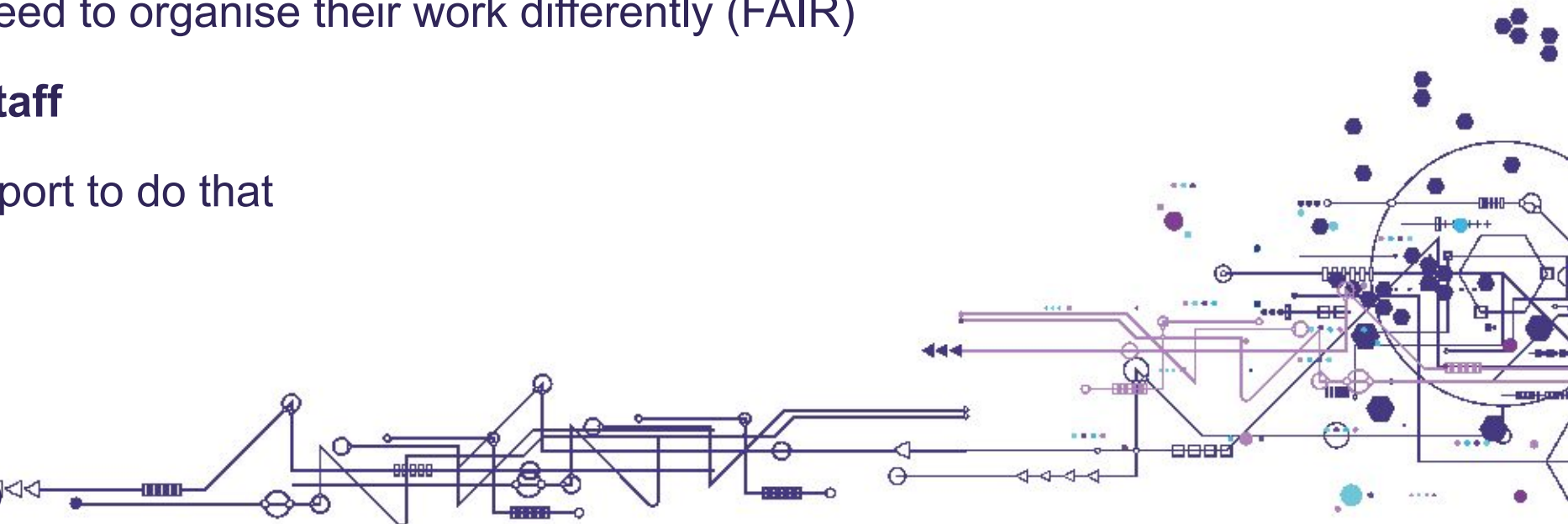
Dagmar Hanzlíková

EOSC Symposium 2022, Prague, 14.11.2022

Implementing a new infrastructure

What do you need?

- Resources
- People who build the infrastructure
- Clear policies and guidelines
- **Trained researchers**
 - Researchers need to organise their work differently (FAIR)
- **Trained support staff**
 - They need support to do that



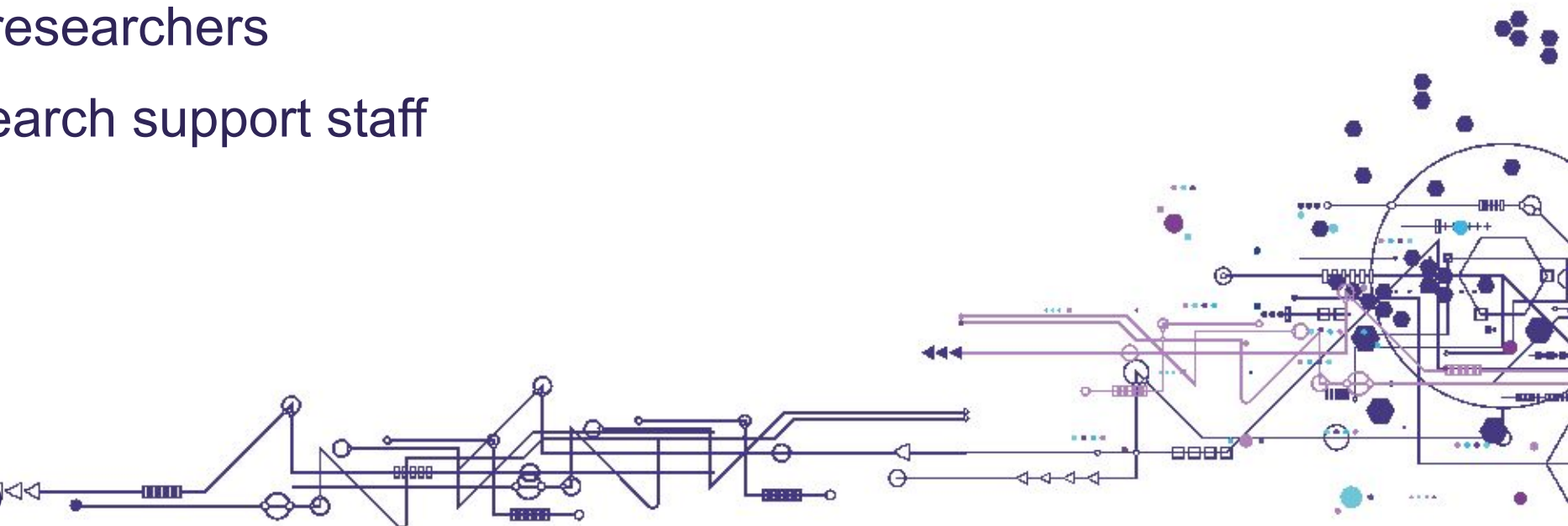
WG Education & Human Resources



- WG lead: Radka Římanová
- February 2022
- 35 members, 20 institutions
- Aims
 - Training for researchers
 - Training research support staff



CHARLES UNIVERSITY
Central Library



Trained researchers

- What **skills** do researchers need to have?
 - Basic knowledge x subject specific
- How do they **acquire** these skills?



Research Data Management

Dashboard / My courses / RDM_ENG


Introduction

Welcome to the Research Data Management course!

Data-based research is becoming more and more common across a wide range of scientific disciplines. With the growing importance of research data, there is also a growing need to manage data properly throughout the research process. In this course, we will introduce the **basic concepts of research data management** as well as some specific **tools** that can help you with data management.


During this course you will learn

- What are research data
- What is research data management
- What are the benefits of research data management
- What is a data management plan and how to create one
- Useful tips for collecting and processing research data
- What are open research data and how to share your data
- ...and a lot more!



How does it work?

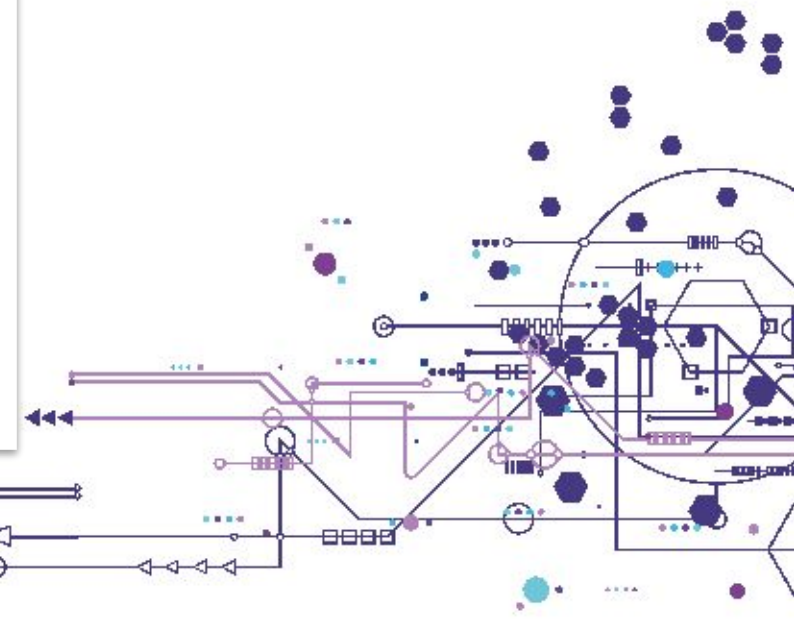
Each chapter introduces one topic of research data management and offers basic **definitions** and **description**, supplemented by multimedia, **useful links** and an overview of **recommended literature**. At the end of each chapter, there is a short **quiz** to test your newly acquired knowledge. In order to be able to complete the quizzes, you need to enrol in the course (cogwheel in the top right corner > Enrol me in this course).



Open Course

Data Stewardship

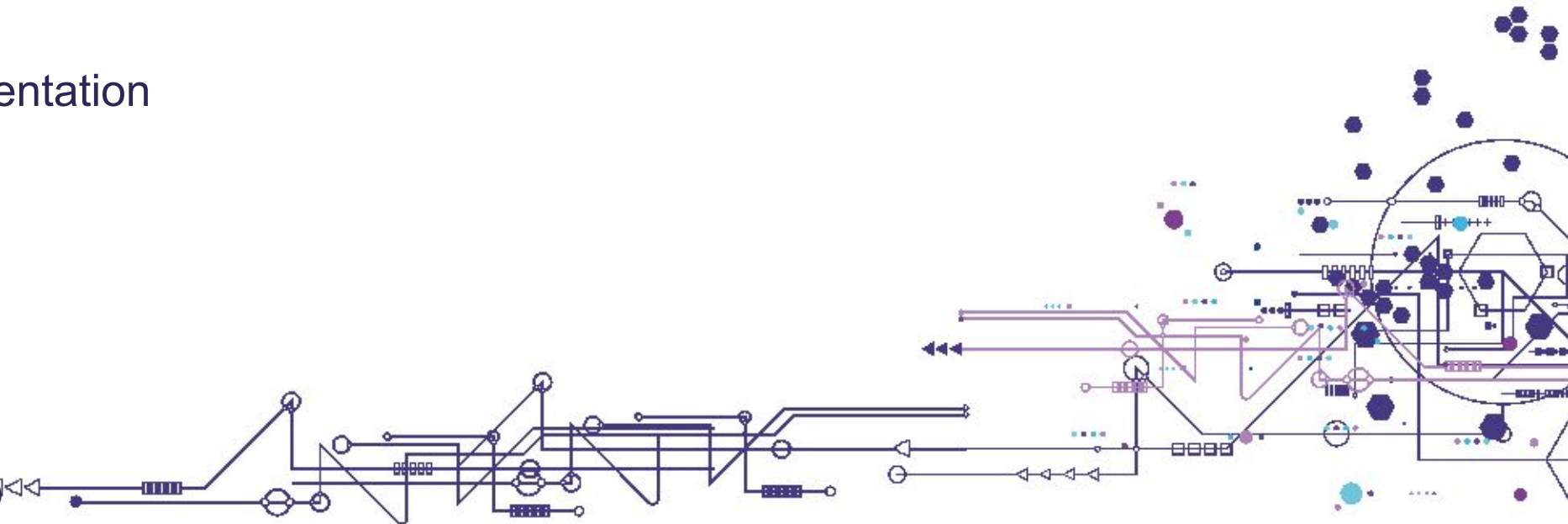
The online course in Data Stewardship provides an introduction to research data management. Managing research data in accordance with good practices is an easily transferable and sought-after skill both within and outside of academia. In many areas of the non-academic sphere data management is vital, and competencies and skills within this topic are therefore in high demand.



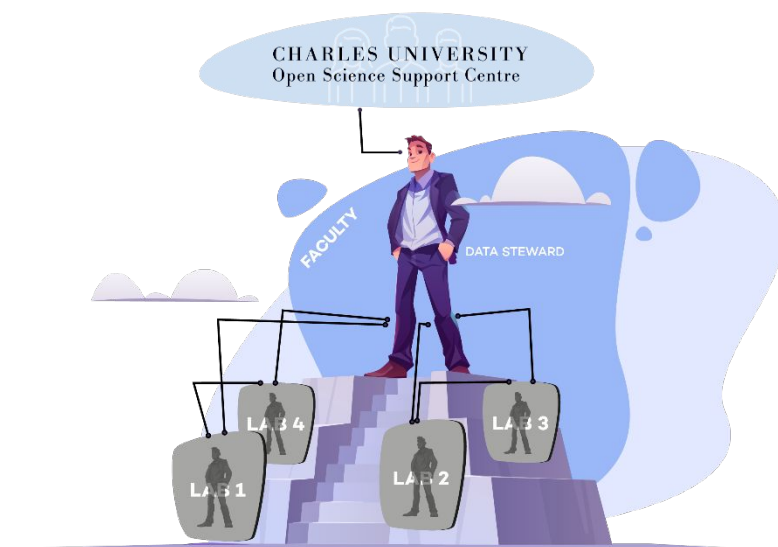
Trained support staff

Data Steward

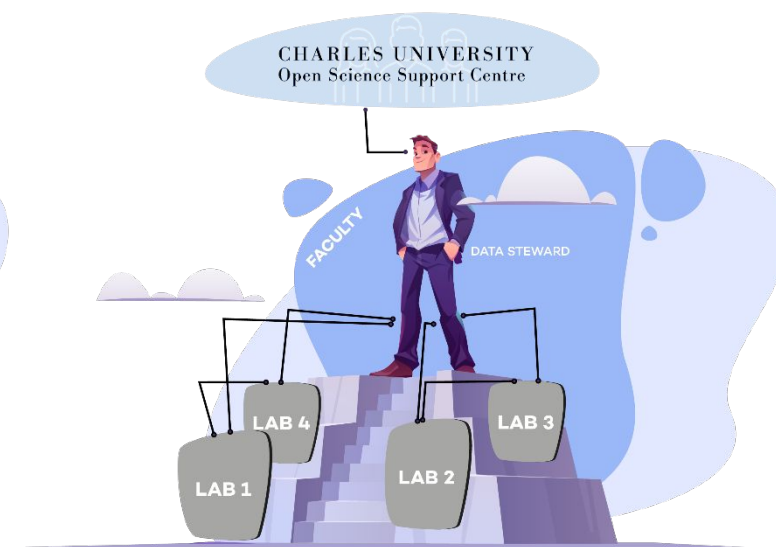
- New type of job position in the Czech Republic
 - Job profile
 - How to implement the position at an institution (money matters)
 - Administrative or research position?
 - Project-based or institutional?
- 3 models of implementation



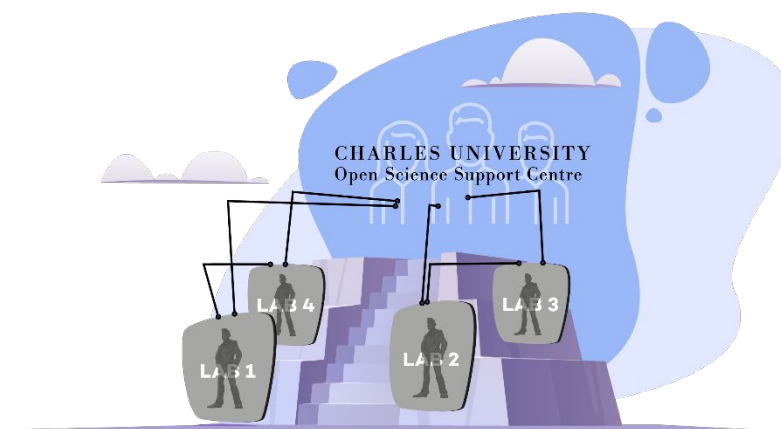
Models for implementing data stewards



Model 1



Model 2



Model 3



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Thank you for your attention

ndi-wg-education@e-infra.cz

Further information <https://www.e-infra.cz/eosc>

WG Education
and Human
Resources

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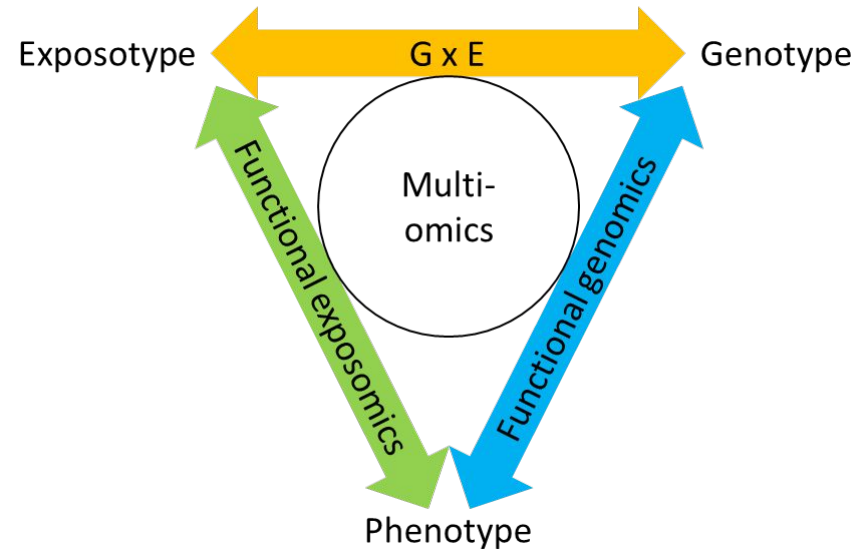
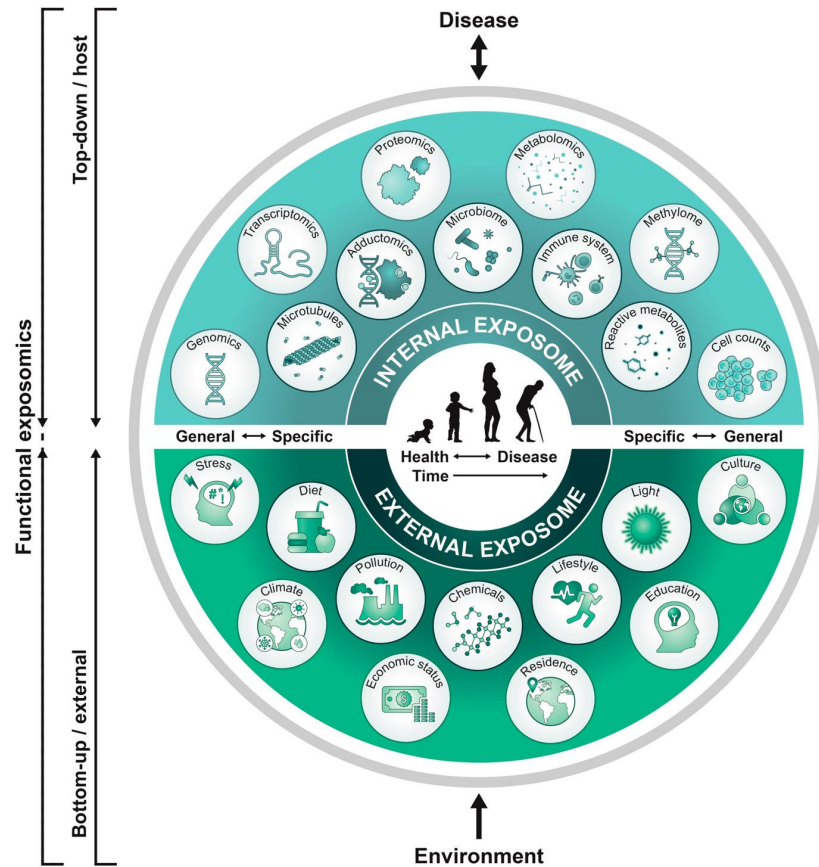
Environmental Health Sciences

Jana Klánová

EOSC Symposium 2022, Prague, 14.11.2022

Introduction

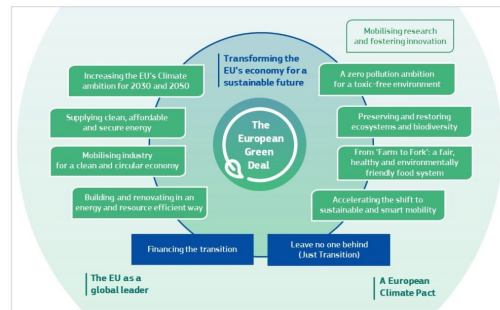
WG ENV EOSC-CZ: Linking environment and health



<https://doi.org/10.1021/acs.estlett.1c00648>

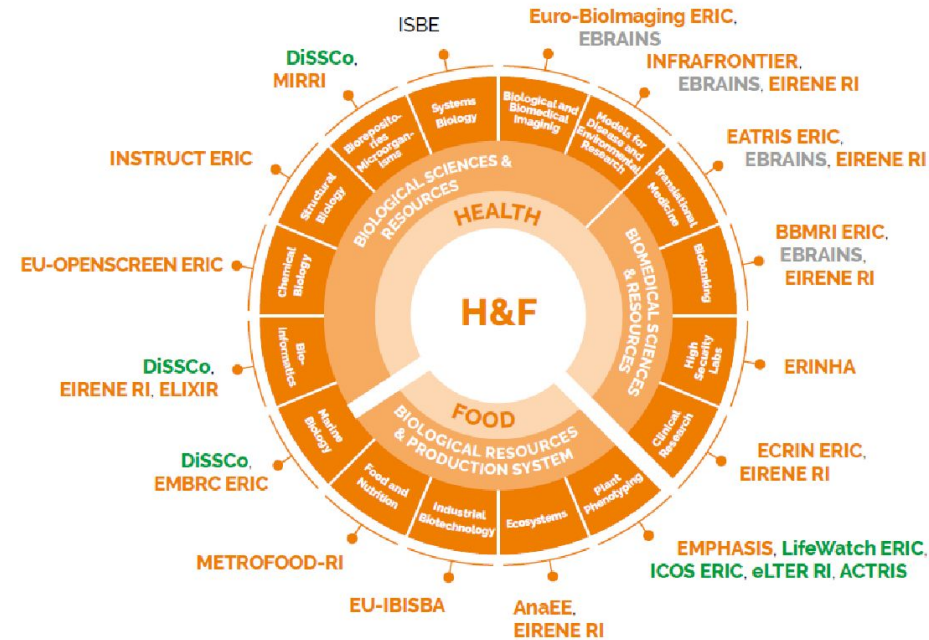
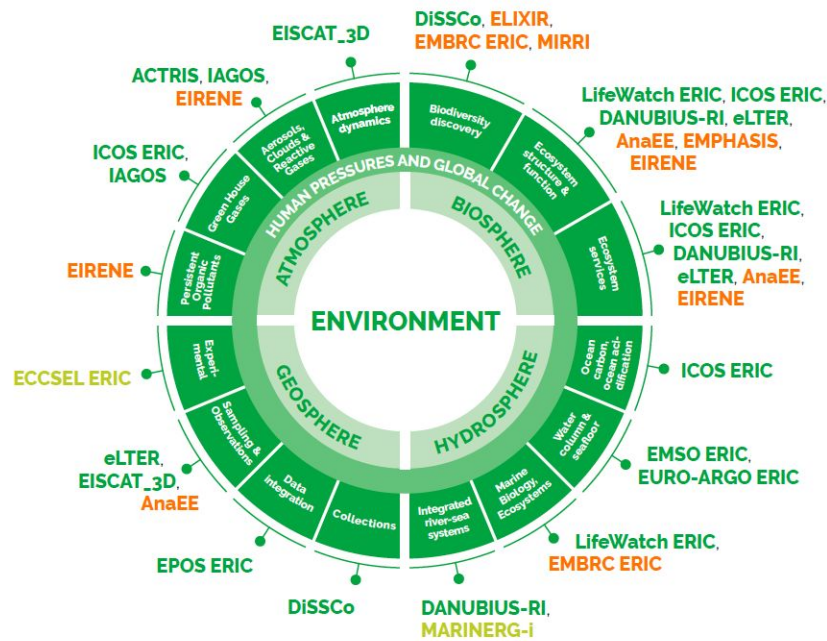
Objectives

- Instrumental for implementation of the Green Deal (Zero pollution ambition, Climate) and European Chemical Strategy
- Meta data harmonisation accross the research domains to enable federated analyses (to implement human exposome concept)
- Alignment / synergies with on-going European initiatives (Partnerships (PARC, Agriculture of data), Ris (EIRENE), EHEN, EURION)
- Implementation of FAIR standards
- Education and training
- Collaboration accros the domains (EIRENE, ICOS, ACTRIS, DANUBIUS, BBMRI, EATRIS, ECTRIN, ELIXIR).



Challenges and synergies

Environment, Life Sciences, Health and Food, Social, and e-RIs



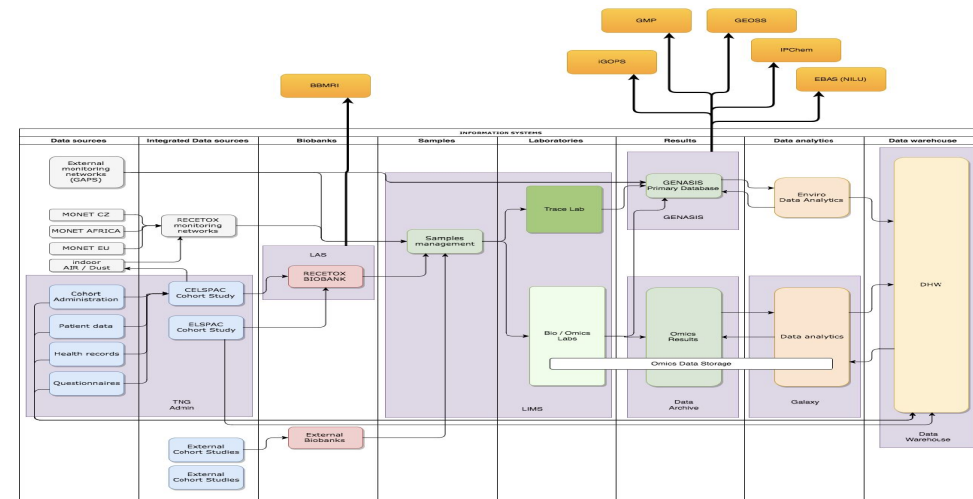
Data types

Interdisciplinary domain of Environmental Health Sciences works with data from

- environmental monitoring networks and field studies (air, water, soil, food, indoor environment),
- longitudinal population studies linking environmental data to socio-economic, lifestyle, health, etc.,
- health registers,
- sample collections and biobanks,

Data repositories include, for instance,

- geo-coded data from on-line measurements,
- results from laboratory analyses of biotic and abiotic samples or toxicological testing,
- data from questionnaires and health examinations,
- sensitive personal data.

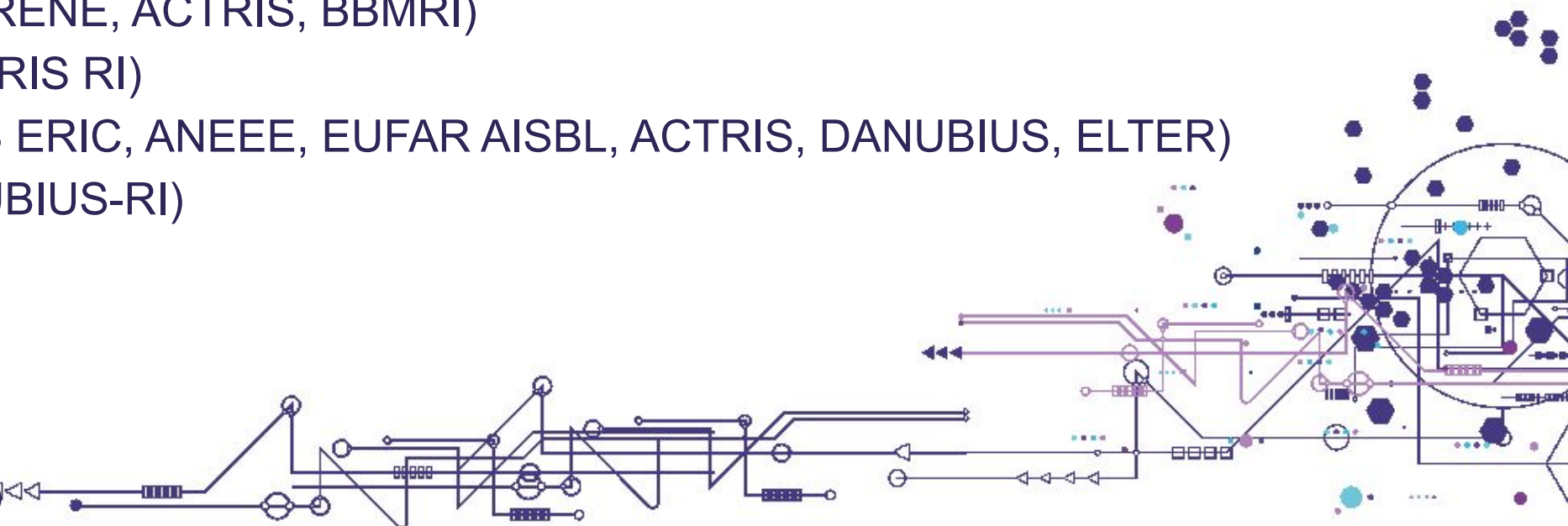


Participating Institutions and Infrastructures



MUNI | RECETOX

- Institutions:
 - Masaryk University, Charles University, South-Bohemian University, Global Change Research Institute, J. Heyrovský Institute of Physical Chemistry, Institute of Chemical Processes, Czech Hydrometeorological Institute
- Research Infrastructures:
 - RECETOX RI (EIRENE, ACTRIS, BBMRI)
 - ACTRIS CZ (ACTRIS RI)
 - CzechCOS (ICOS ERIC, ANEEEE, EUFAR AISBL, ACTRIS, DANUBIUS, ELTER)
 - CENAKVA (DANUBIUS-RI)
 - DiSSCo
 - NanoEnvicZ



MUNI | RECETOX

Thank you for your attention

ndi-wg-enviro@e-infra.cz

More information <https://www.e-infra.cz/eosc>



WG
Environmental
Scienceces

Czech EOSC, during Czech Presidency!

A.Strachotová, (J. Vondrášek)

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Introduction

- Work Group **Bio-Health-Food**



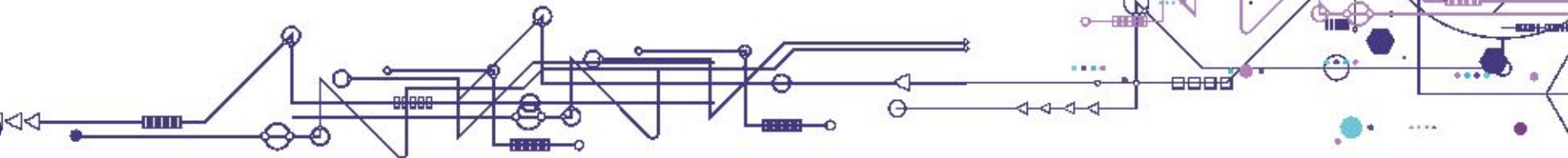
- Towards Open Science in Bio-Health-Food Data space
- Towards FAIR User Friendly Environment
- Health-care begins with Food and Bio Informatics



Participating Institutions and Infrastructures



- ÚOCHB (IOCB) - Prague
- MUNI - CEITEC, Faculty of Informatics - Brno
- FNUSA - Brno
- METROFOOD-CZ (ČZU) - Prague
- ÚMG (IMG) – AS CR Prague
- UPOL - Olomouc
- UK - LFHK, PŘF, 1.LF (Ústav lékařské biochemie a laboratorní diagnostiky), IMCF - Prague
- CZ-OPENSOURCE – (UMG), Prague
- BIOCEV - Prague
- VFN – Hradec Kralove
- CCP – (UMG), Prague



Data Life Cycle and Open Access (Institutional Point of View) in the WG



Other groups
Public
Evaluators

Projects

In House Data resources
Data Brokering
Public Database
A Repository

Core Facility
External provider

Inst. Repository
Public Repository
National Repository

Core Facility
Specialists
External Provider

Infrastructure
Service Facility Specialists



Disciplinary heterogeneity and intersection with other working groups - Sensitive data

- Supporting links to the decisions of the “Open Access Data Commission”
- Support for DMP creation.
- Support for DMP specific templates/checklists for sensitive data.
- Support for DMPing, i.e. data management planning, i.e. the process as such, not just the creation of DMP as a document.
- Methodological support for managing sensitive data.
- Suitable technical means for data storage and processing
- Secure storage appropriate certification, security policy, etc., which may be referenced from the DMP to be used.

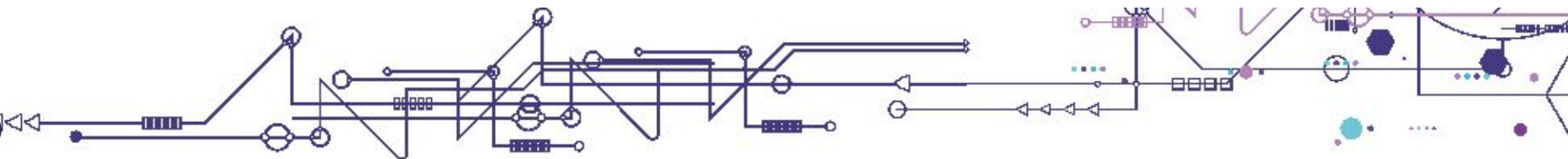


GUIDING PRINCIPLES ON FAIR DATA MANAGEMENT IN LIFE SCIENCES

SEPTEMBER 11, 2017

The ELIXIR hub has published a set of guiding principles on FAIR (Findable, Accessible, Interoperable and Reusable) Data Management.

- Open sharing of research data is a core principle for publicly-funded research and ELIXIR encourages all funders to adopt Open Data mandates.
- Data Management is crucial part of good scientific practice and research excellence.
- Whenever possible, biological research data should be submitted to the recommended community deposition databases.
- All data submitted to Open Data archives must be annotated in accordance with community-defined standards.
- ELIXIR Nodes are the national implementation of a harmonised FAIR Data Management programme for the life sciences.
- FAIR data management requires professional skills and adequate resources.
- Good research data management requires appropriate funding for data infrastructures.





Thank you for your attention
ndi-wg-bio-health-food@e-infra.cz

Další informace na <https://www.e-infra.cz/eosc>

**WG Bio/Health/
Food**

NAMIDAS - decentralized data repositories for active communities

Marek Cebecauer

**J. Heyrovsky Institute of Physical Chemistry of
the Czech Academy of Sciences**

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Introduction

WG Material Sciences and Engineering/Technologies EOSC-CZ

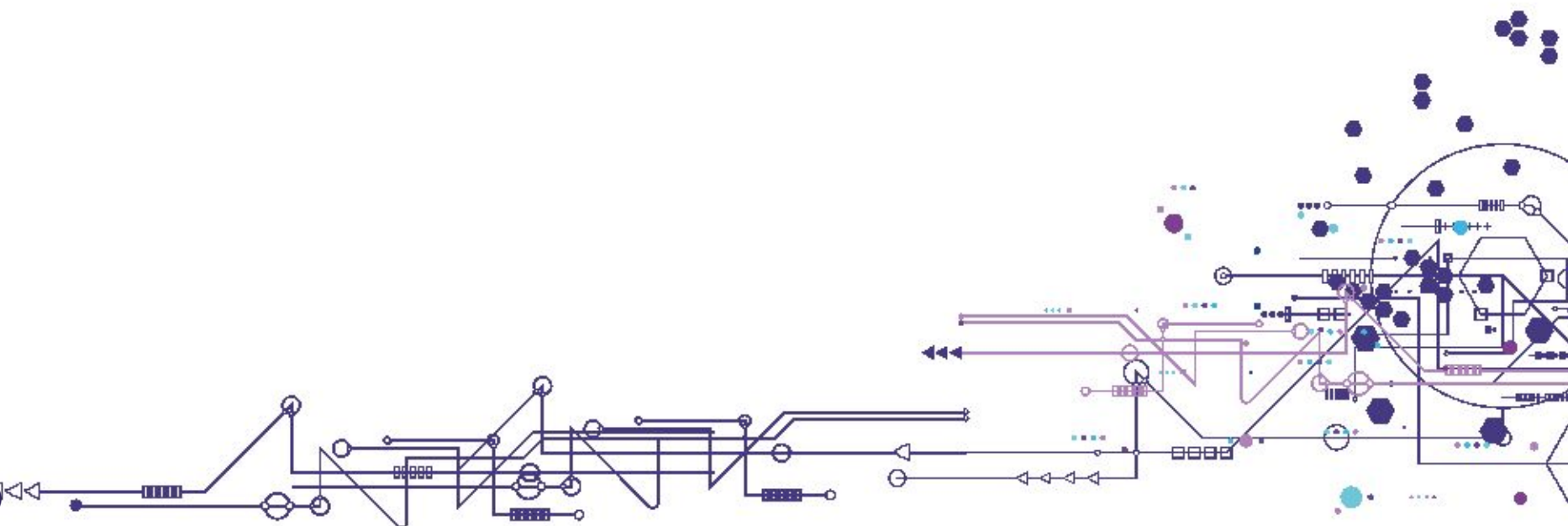
- 26 members, 14 universities and research institutes from all corners of the Czech Republic, 4 RIs
- Experimental and computational work
- The aim is to map needs of the Czech MSE community for storage and sharing of FAIR^t data, to design domain-specific EOSC-CZ repository and to get involved in the development of data management standards with similar activities around the world.



FAIR^t data

Inspired by Petr Čermák, MGML RI / MFF UK Praha

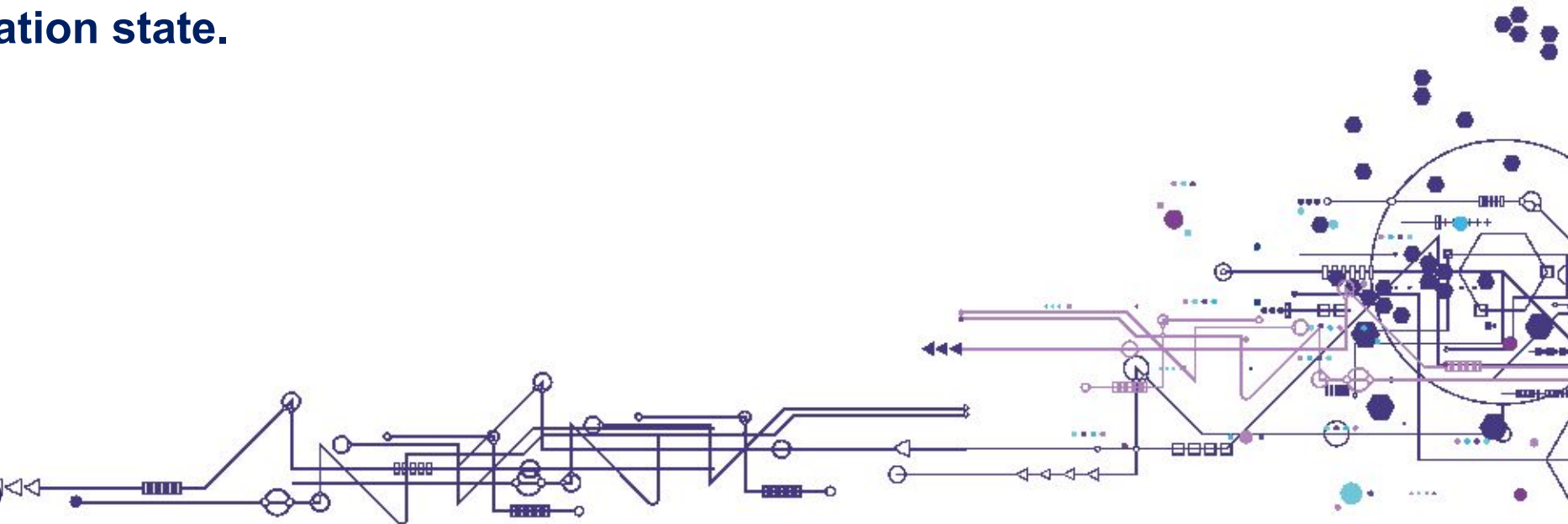
- FAIR data principles: <https://www.go-fair.org/fair-principles/>
- FAIR – findable, accessible, interoperable, reusable
- What is missing?



FAIR^t data

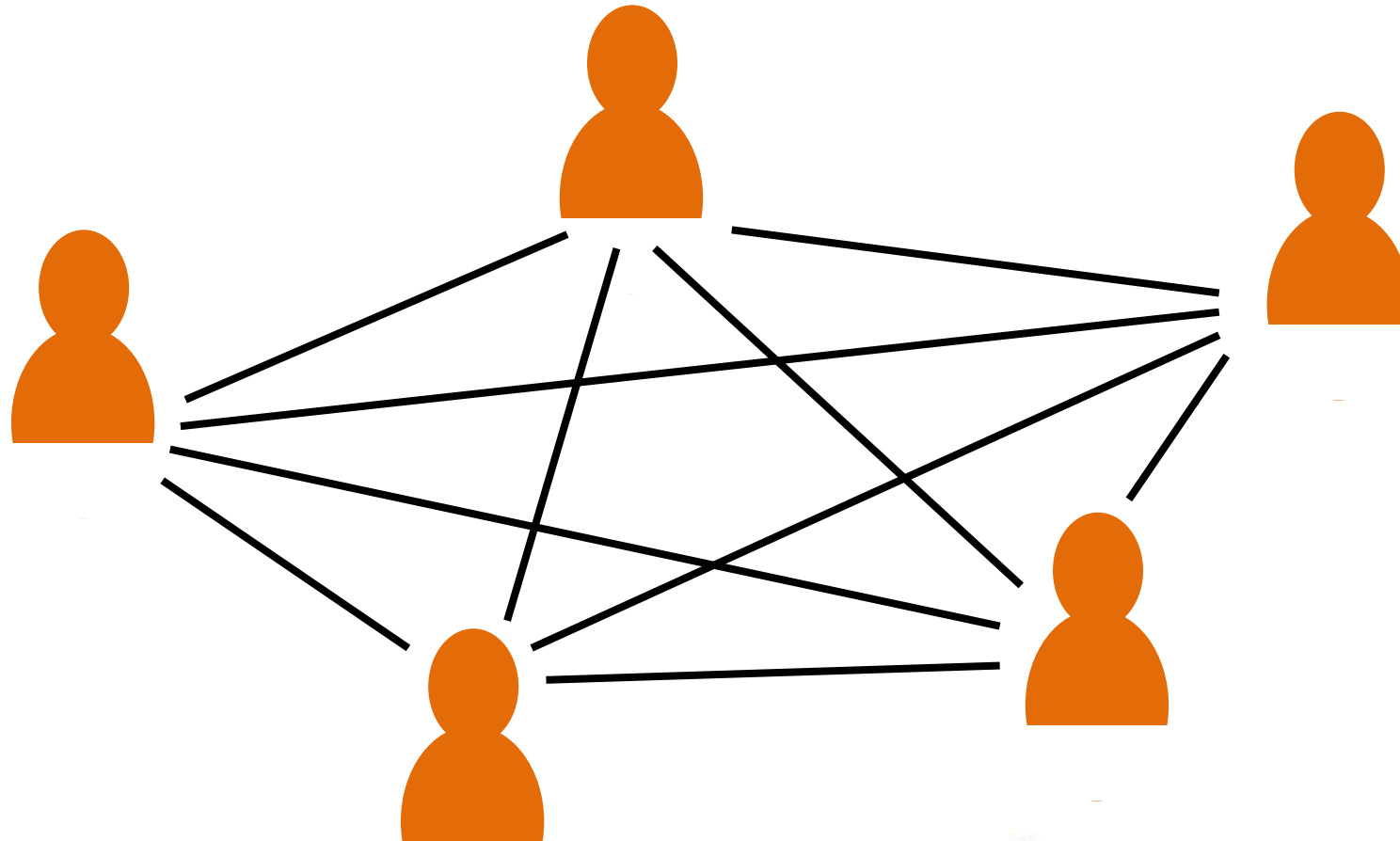
Inspired by Petr Čermák, MGML RI / MFF UK Praha

- FAIR data principles: <https://www.go-fair.org/fair-principles/>
- FAIR – findable, accessible, interoperable, reusable
- What is missing?
- FAIR^t = FAIR + trustworthy
- We suggest that data in our repository should be FAIR^t or at least provide information about their verification state.

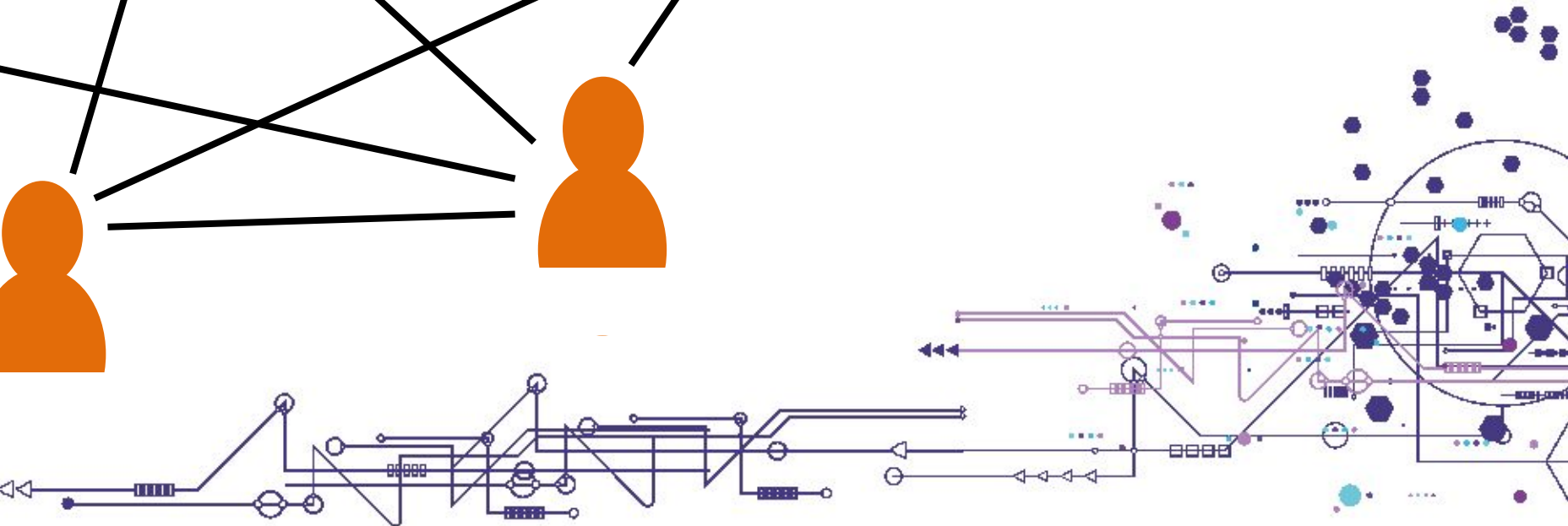


INFRAEOSC project proposal: NAMIDAS

... with partners from Prague, Brno, Vienna, Ghent, Heidelberg, ...

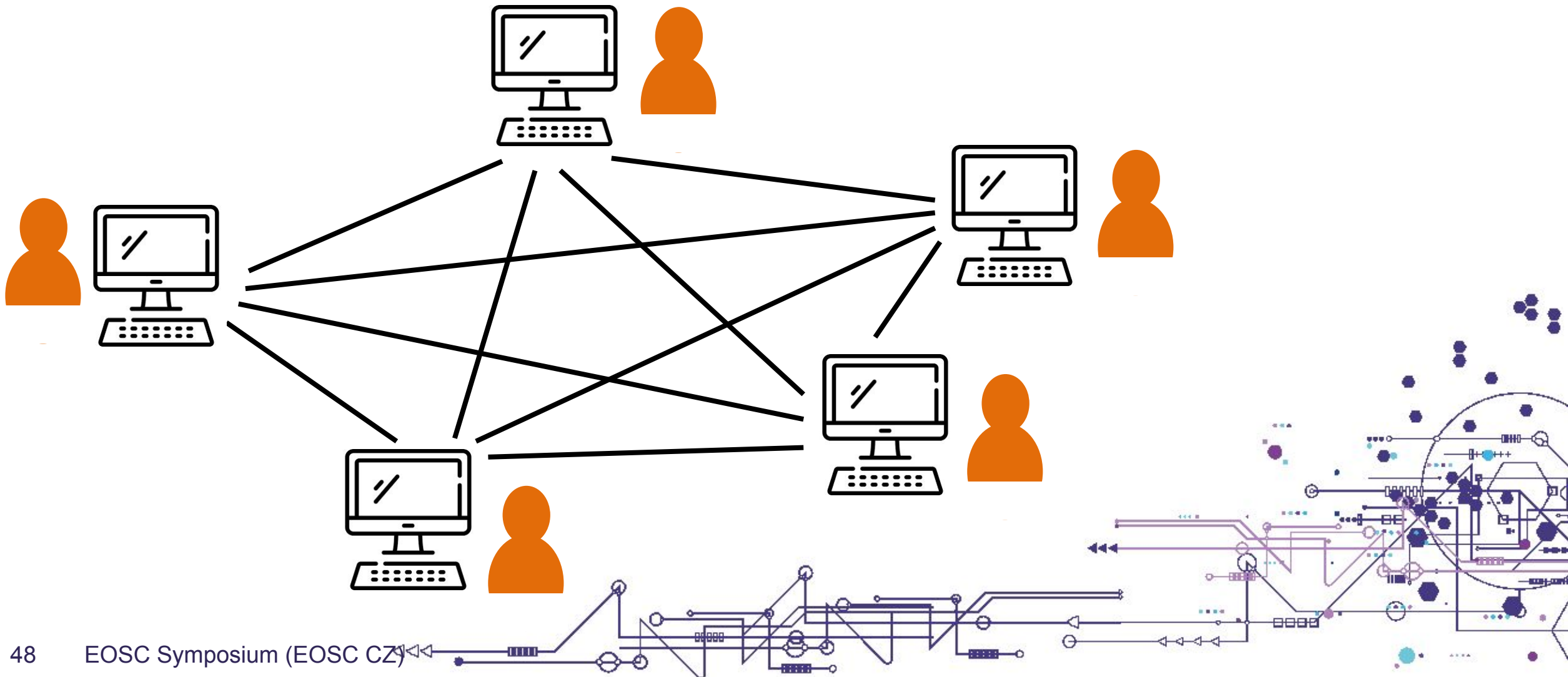


**Small community
(10-100 members)**



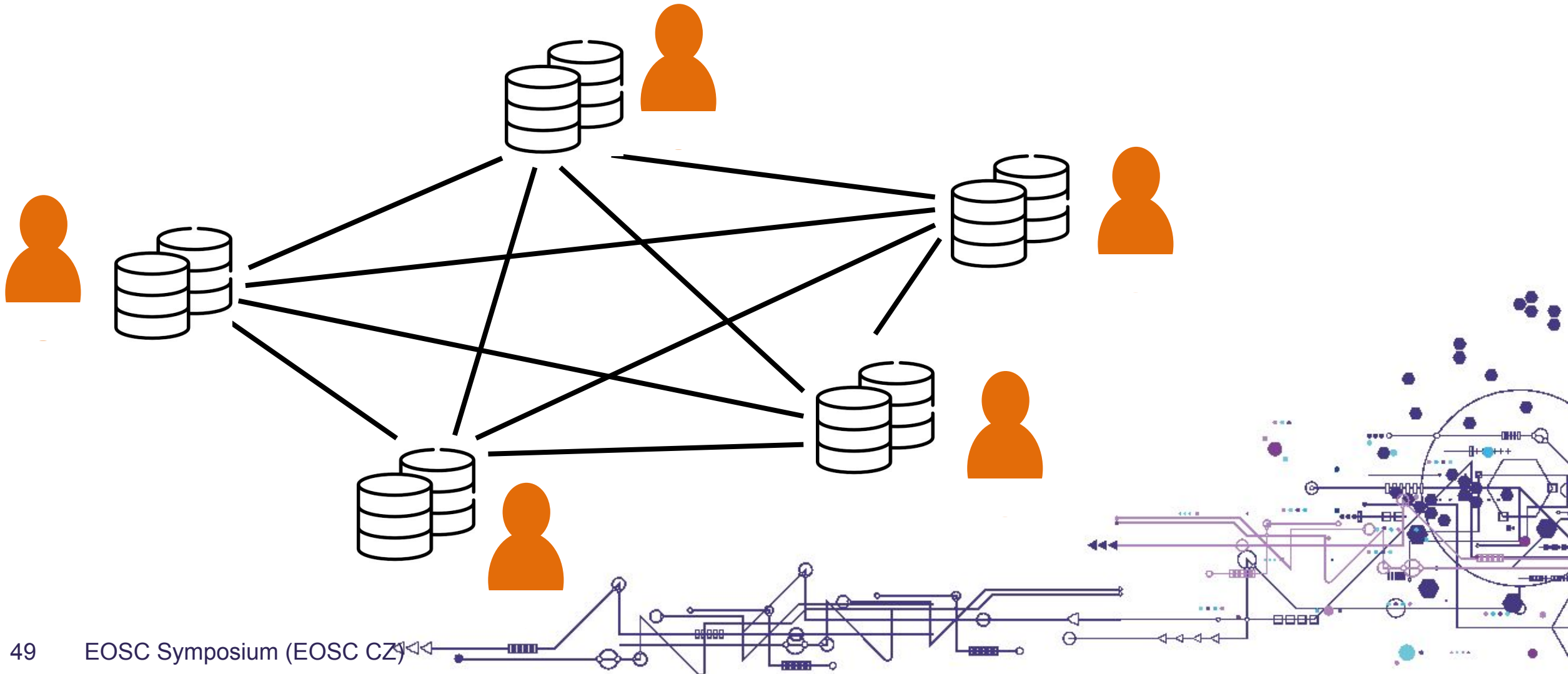
INFRAEOSC project proposal: NAMIDAS

Sharing '*hot*' data – decentralised repository



INFRAEOSC project proposal: NAMIDAS

Sharing '*hot*' data – decentralised repository



INFRAEOSC project proposal: NAMIDAS

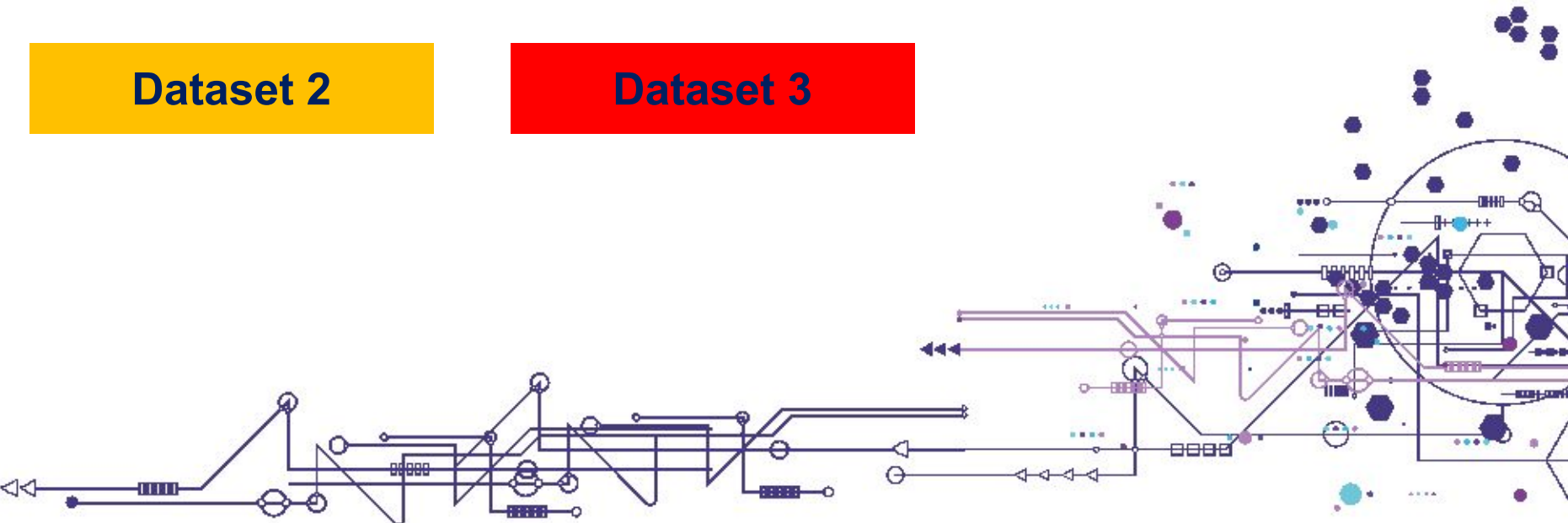
Decentralised community repositories with web-based architecture

- Linked Data principles and metadata models
- Solid Pod and Solid principles
- Social network-like technology and principles
- Data verification within a small community to achieve **trustworthiness (FAIR^t)**
- Colour-coded data verification state:

Dataset 1

Dataset 2

Dataset 3



INFRAEOSC project proposal: NAMIDAS

Decentralised community repositories with web-based architecture

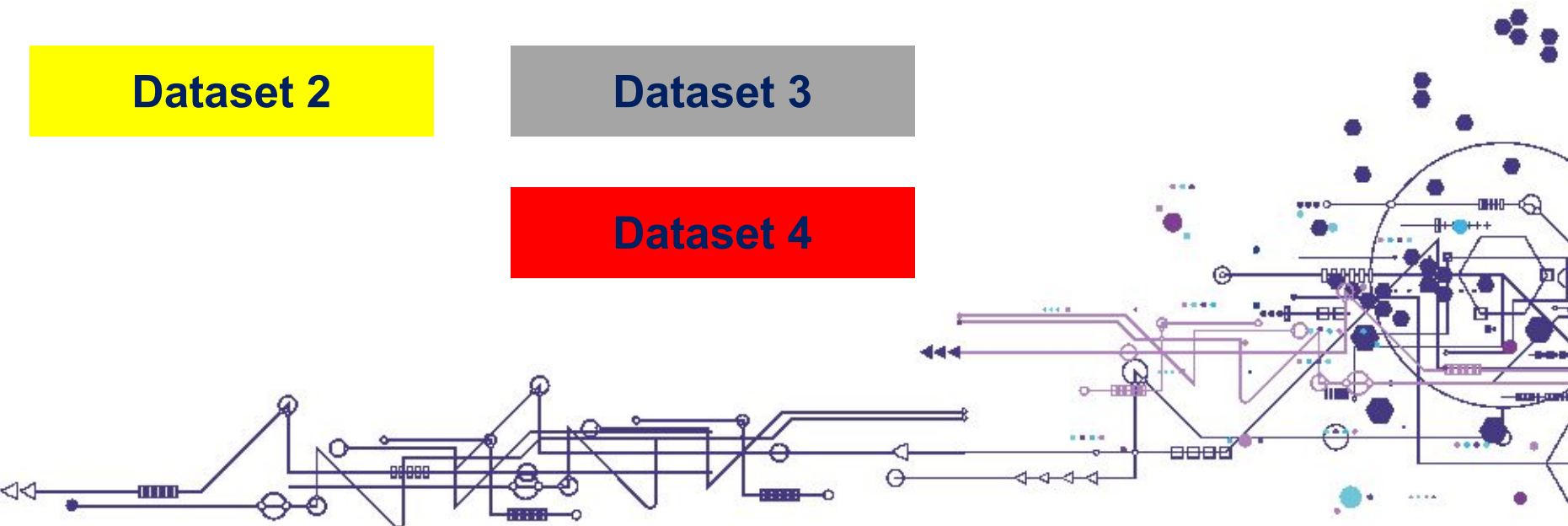
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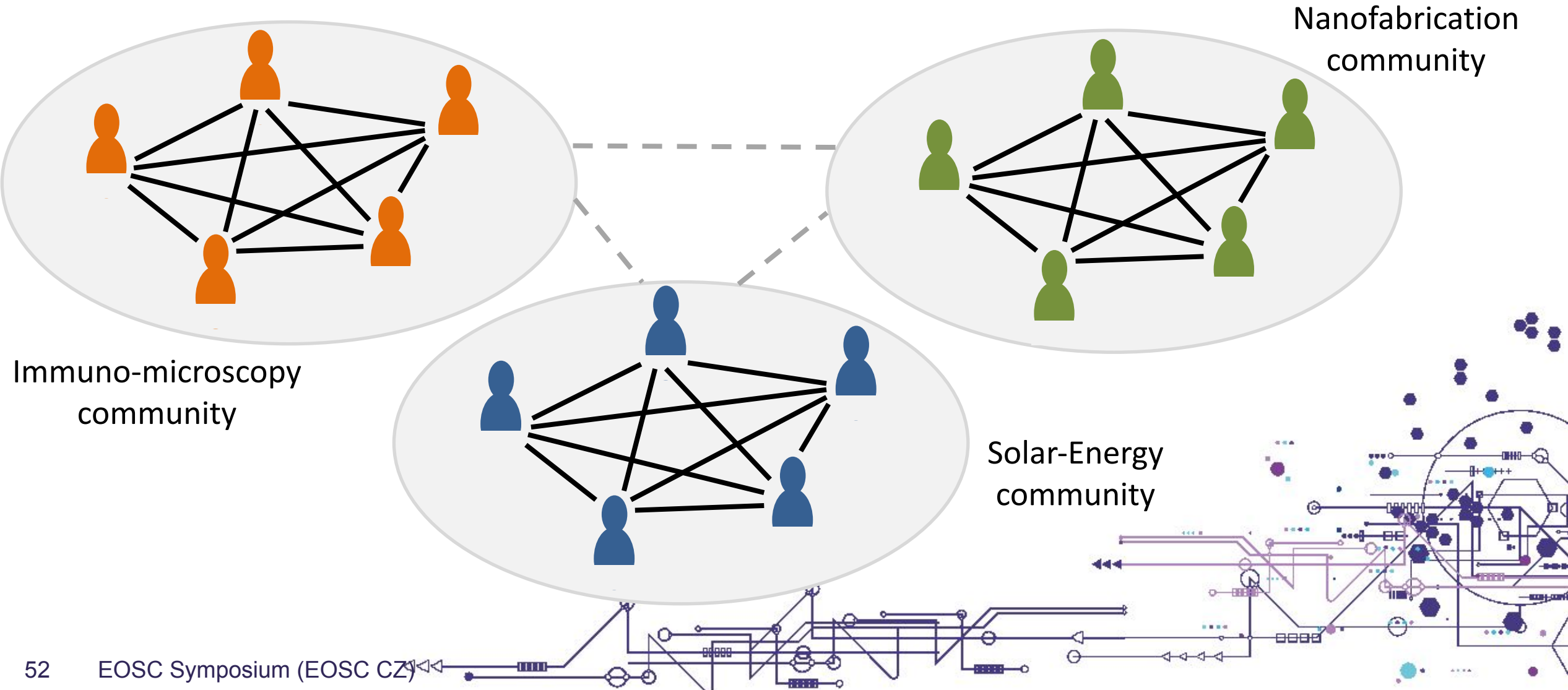
Dataset 3

Dataset 4



INFRAEOSC project proposal: NAMIDAS

Interoperability of decentralised repositories



Thank you for your attention

ndi-wg-matech@e-infra.cz

• More information at <https://namidas.eu> (from Dec 2022)



WG Material
Sciences and
Technology

LINDAT Services for EOSC

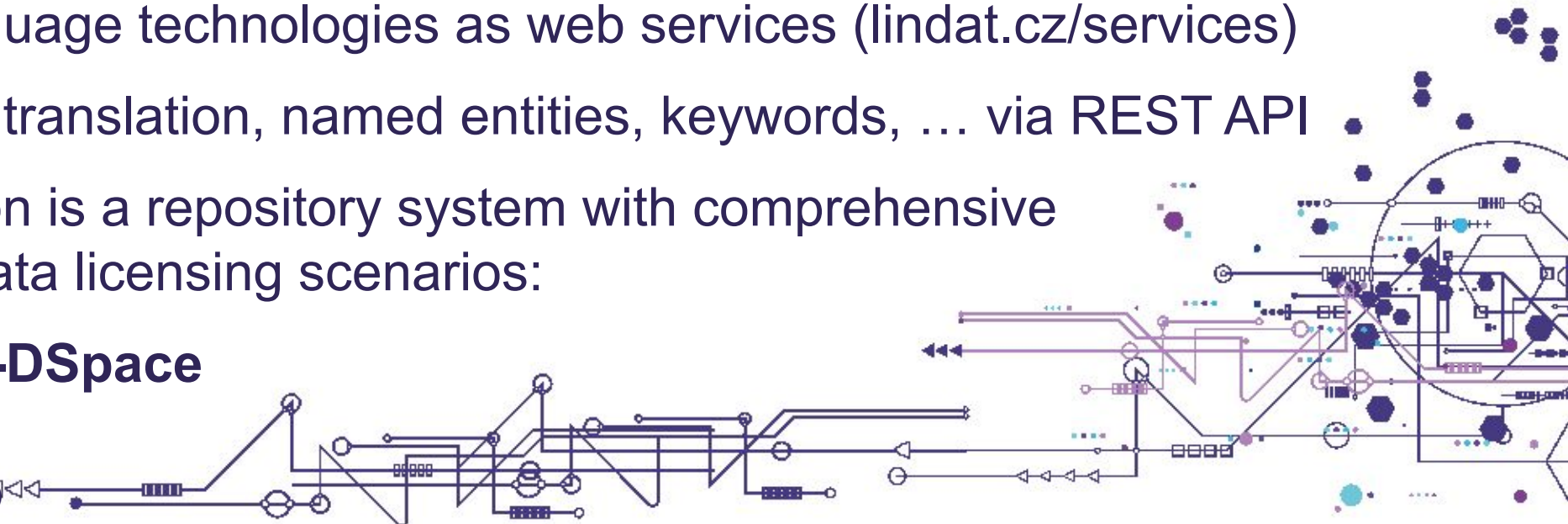
Pavel Straňák

EOSC Symposium 2022, Prague, 14.11.2022

Introduction

EOSC-CZ WG Humanities and the Arts

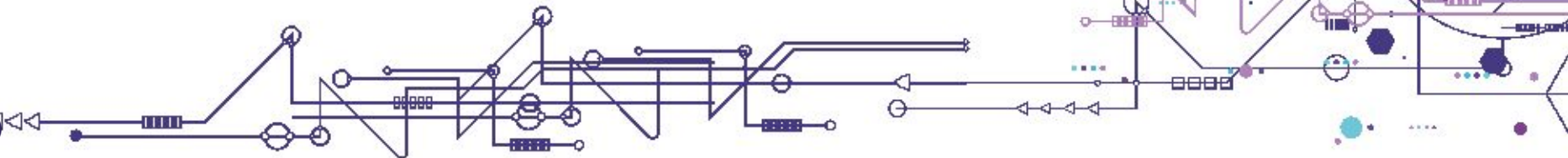
- FAIRification of data landscape in Arts and Humanities
- Data management
- Training
- **Technical solutions**
 - LINDAT language technologies as web services (lindat.cz/services)
 - machine translation, named entities, keywords, ... via REST API
 - A key solution is a repository system with comprehensive support of data licensing scenarios:
 - **CLARIN-DSpace**



CLARIN-DSpace for EOSC

Development

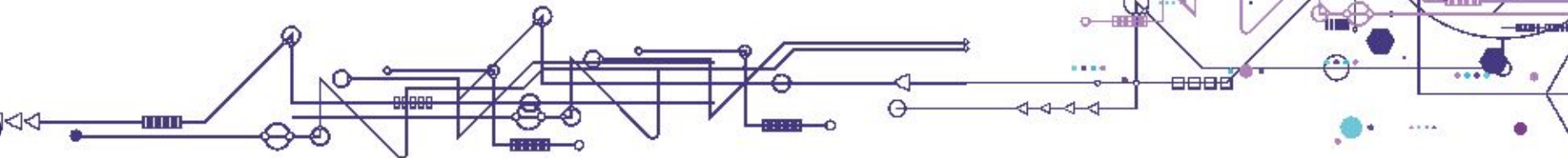
- 13 years of development and maintenance experience
- Originally adaptations of DSpace for CLARIN centre: LINDAT-DSpace
- Substantial improvements targeted at FAIR sharing of datasets
- ... while keeping DSpace ease of deployment
- more deployments within CLARIN RI (and some outside):
 - CLARIN-DSpace
- collaborative development at <https://github.com/ufal/clarin-dspace>
 - most development still by the LINDAT team
 - lately substantial participation of Oxford University
 - an upgrade to the latest DSpace 7 code base
 - testing in December 2022
 - deployment in 2023



CLARIN-DSpace for EOSC

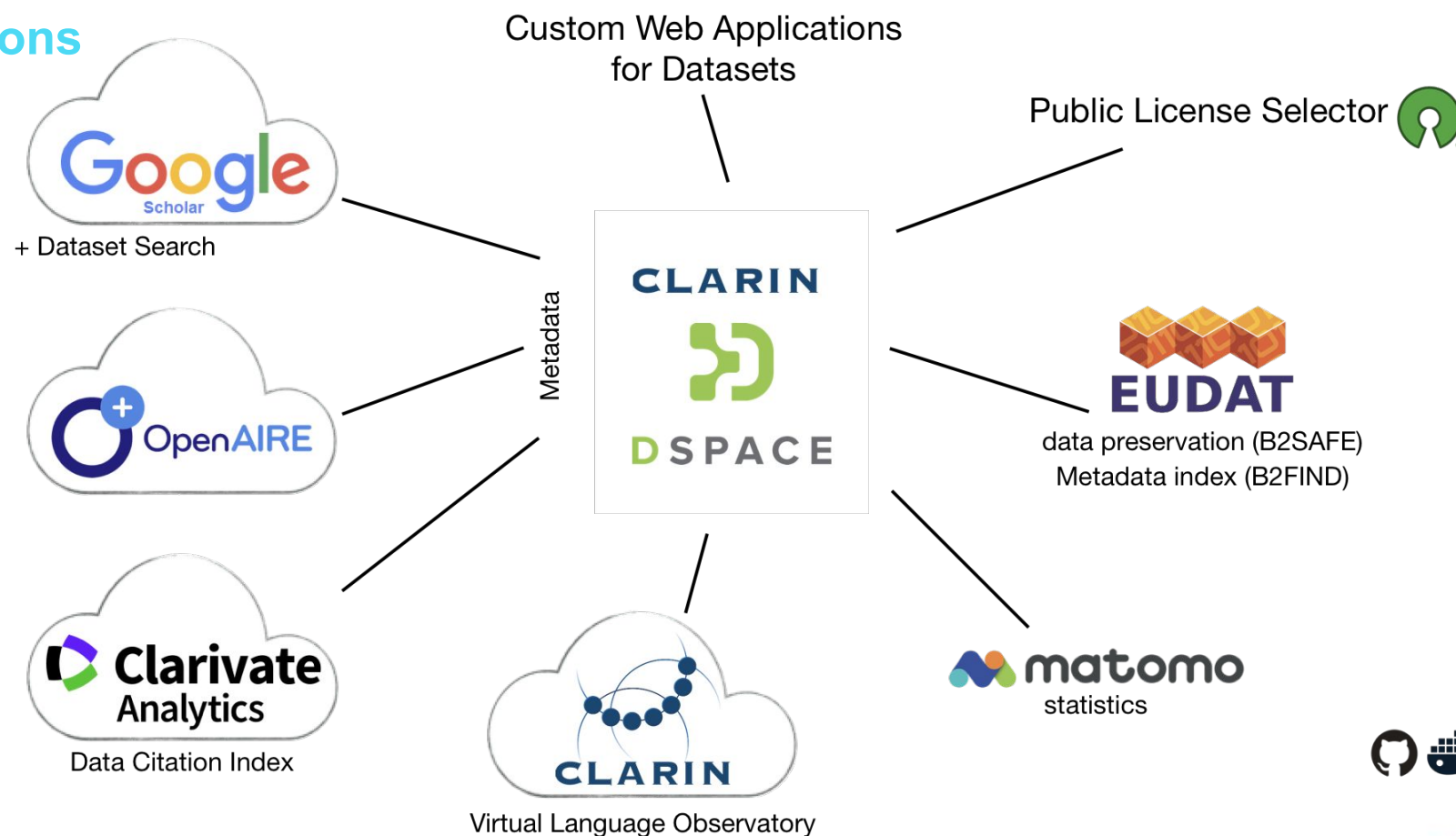
Main Features

- EPIC Handles (European PID Consortium)
- Licensing framework:
 - License signing when needed; Public License Selector for **OPEN ACCESS**
 - Any license (including custom licenses and signing)
- More metadata:
 - CMDI (Component Metadata Infrastructure)
 - BibTeX + more (for direct citation of datasets)
 - OpenAIRE integration
 - Clarivate DataCitationIndex, OLAC ... metadata
- Control Panel additions (backups, AAI debugging, health checks ...)
- UI makeover (search-centric, no hierarchies, submission: auto-suggest)
- Statistics (Matomo, UI integration + standalone application)
- Versioning via DC relations (data, new submission, UI, search)



CLARIN-DSpace for EOSC

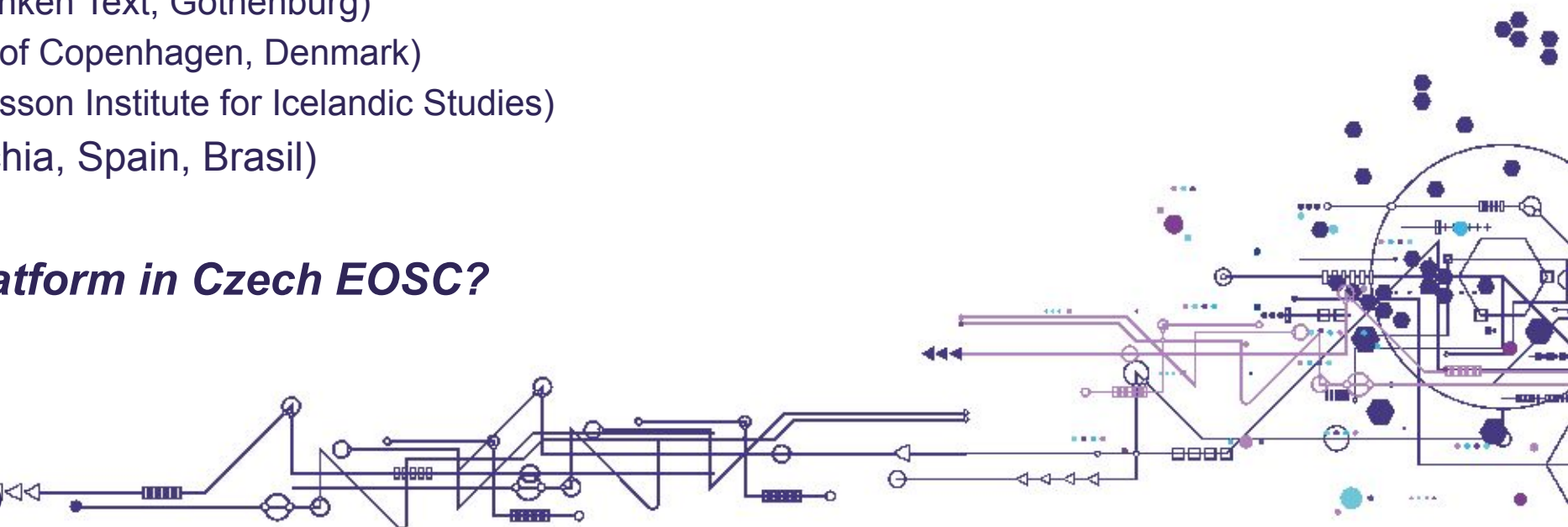
Integrations



CLARIN-DSpace for EOSC

Deployments

- LINDAT/CLARIAH-CZ (Prague, Czechia)
 - Oxford Text Archive (University of Oxford, UK)
 - CLARINO (Bergen University, Norway)
 - CLARIN.SI (Jožef Stefan Institute, Slovenia)
 - CLARIN-PL (Politechnika Wroclawska, Poland)
 - CLARIN-IT (ERCC and CNR, Italy)
 - CLARIN-LT (Vytautas Magnus University, Lithuania)
 - SWE-CLARIN (Språkbanken Text, Gothenburg)
 - CLARIN-DK (University of Copenhagen, Denmark)
 - CLARIN-IS (Árni Magnússon Institute for Icelandic Studies)
 - + several more (Czechia, Spain, Brasil)
-
- **+ *virtualisation platform in Czech EOSC?***





Thank you for your attention
ndi-wg-humanities-arts@e-infra.cz

A complex, abstract graphic on the left side of the slide. It features a network of black lines, some forming a circular loop, with various colored dots (blue, green, red, yellow) scattered throughout. There are also some geometric shapes like hexagons and rectangles.

lindat.cz / WG
Humanities
and Arts

A complex, abstract graphic on the right side of the slide, similar to the one on the left. It features a network of black lines, some forming a circular loop, with various colored dots (blue, green, red, yellow) scattered throughout. There are also some geometric shapes like hexagons and rectangles.

Czech EOSC, during Czech Presidency!

Jindřich Krejčí

Role of the Social Science Data Services

EOSC Symposium 2022, Prague, 14.11.2022

Introduction



- **Jindřich Krejčí**

Institute of Sociology of the Czech Academy of Sciences
Czech Social Science Data Archive (ČSDA) - CESSDA Service Provider
CESSDA ERIC Widening & Outreach WG



- **WG EOSC-CZ on the Social Sciences**

- Sociology, economics, political science, social geography, psychology, law...
- Landscape analysis; EOSC relevant procedures, standards & tools; issues of multidisciplinary research; data management; training



Domain data archives - added value

- Why Open Access to Research Data?

- Data reuse - data in the scientific knowledge cycle
- Enhancing quality of research incl. its transparency

vs.
Data repository as a black box

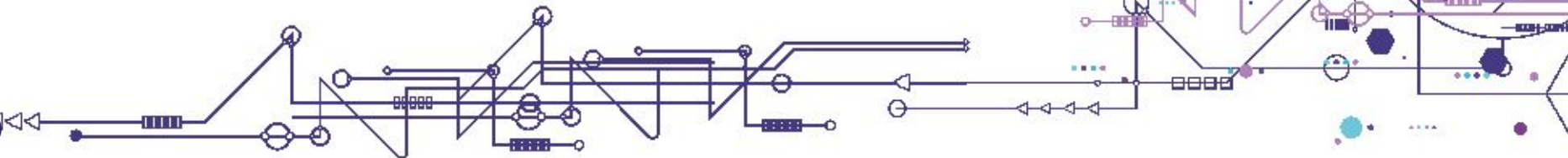
- Data storage & protection
- Permanent curation
- Ways to access the data
- **Understandable data**



- Domain specific knowledge:

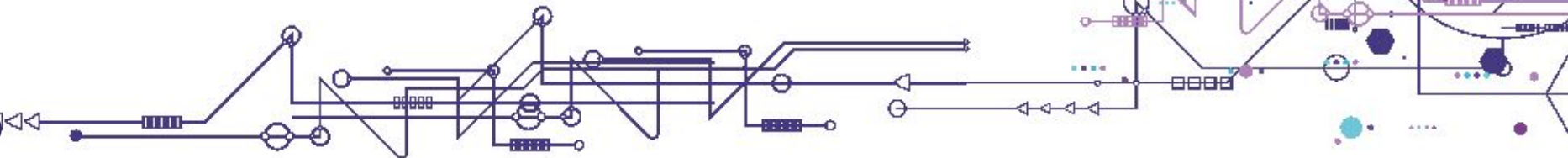
Data acquisition, data management, data organisation, reach metadata, tools, technologies, standards, context of other data, training

=> FAIR Data



Social science data services

- Roper Center (USA 1957), ZA - Zentralarchiv für Empirische Sozialforschung (Germany 1960, now GESIS), ICPSR - Inter-university Consortium for Political and Social Research (USA 1962), Steinmetz Archive (Netherlands 1964)...
- Czechoslovakia/Czech Republic: First efforts in 1967; Sociological Data Archive in 1998 -> Czech Social Science Data Archive
- Data library vs. data archive: Archivation of virtual data is a permanent process
- Created by researchers in response to their needs
=> data ready to reuse; building data sharing culture
- Data sharing needed for comparative research (time, cross-national)
- Longitudinal/international comparative research programmes since 1970s/1980s



Landscape

CZ Social Science Data

Universities, Czech Academy of Sciences,
public research institutes

- data producers & data users

Official statistics
Administrative data
„New data types“

Other disciplines, multidisciplinary research

Commercial sector data for public use



Research Infrastructures: ČSDA (Czech Social Science Data Archive), ESS- CZ (European Social Survey), SHARE-CZ (Survey of Health, Ageing and Retirement in Europe), GGP-CZ (Generations & Gender Programme); ISSP (International Social Science Programme), EVS (European Values Study) ...



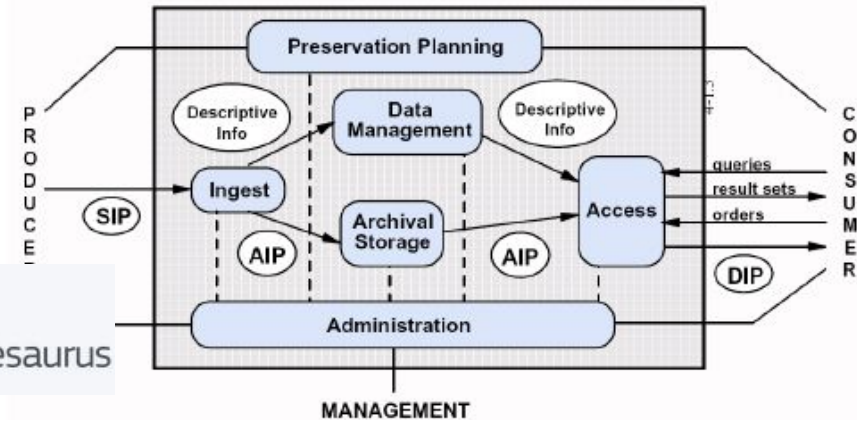
European Research Infrastructures - ESFRI



Social Sciences & Humanities Open Cloud

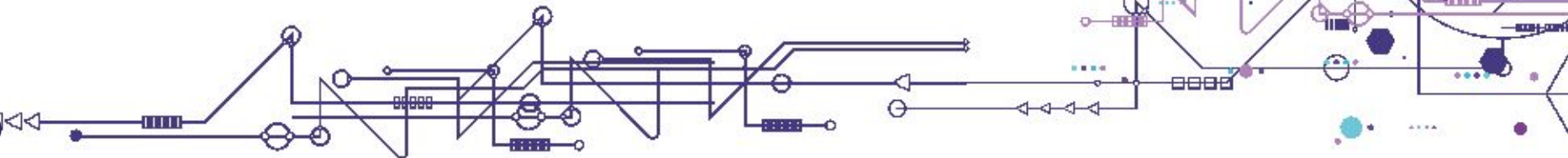


Another dimension of the landscape: standards, policies, technologies, tools



Expectations from EOSC

- Upgraded data sharing culture
- Political and economic aspects: speeding up long-lasting processes, sustainability
- Interoperability, complementarity, cooperation - economy of scale
- Widening the perimeter of data; multidisciplinary environment
- Risks: black box instead of understandable data ready for reuse
= no benefits, just costs => priorities: data policies, FAIR data principles, strengthening of the data sharing culture



Thank you for your attention

ndi-wg-social-sciences@e-infra.cz



**WG Social
Sciences**



Czech EOSC, during Czech Presidency! – Panel Discussion

L. Matyska, M. Svoboda, D. Hanzlíková, J. Klánová, A. Strachotová, M. Cebecauer, P. Straňák, J. Krejčí

EOSC Symposium 2022, Prague, 14.11.2022

Panelists



Luděk Matyska



Martin Svoboda



Dagmar Hanzlíková



Jana Klánová



Jiří Vondrášek



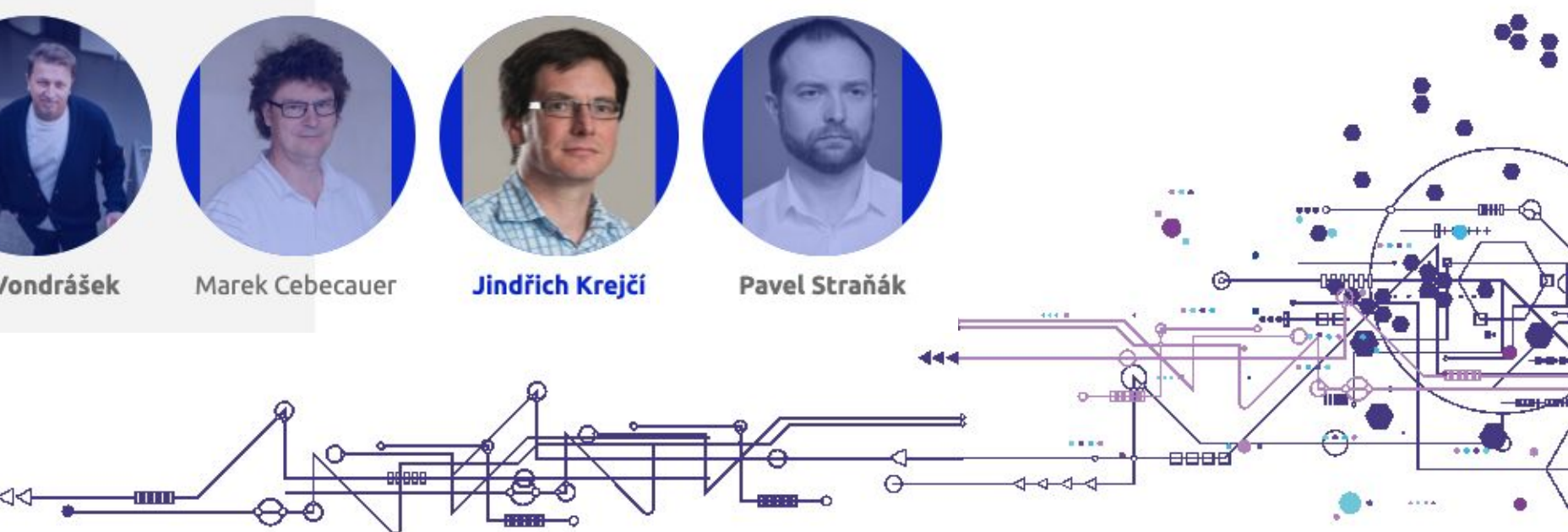
Marek Cebecauer



Jindřich Krejčí



Pavel Straňák





Thank you for your attention

eosc-info@e-infra.cz

More information at e-infra.cz/EOSC

e-infra.cz