

Metaconcepts of Research Data Management

Watch out for Universality in Data Structure!

NFDI für disziplinäre und transdisziplinäre Physik

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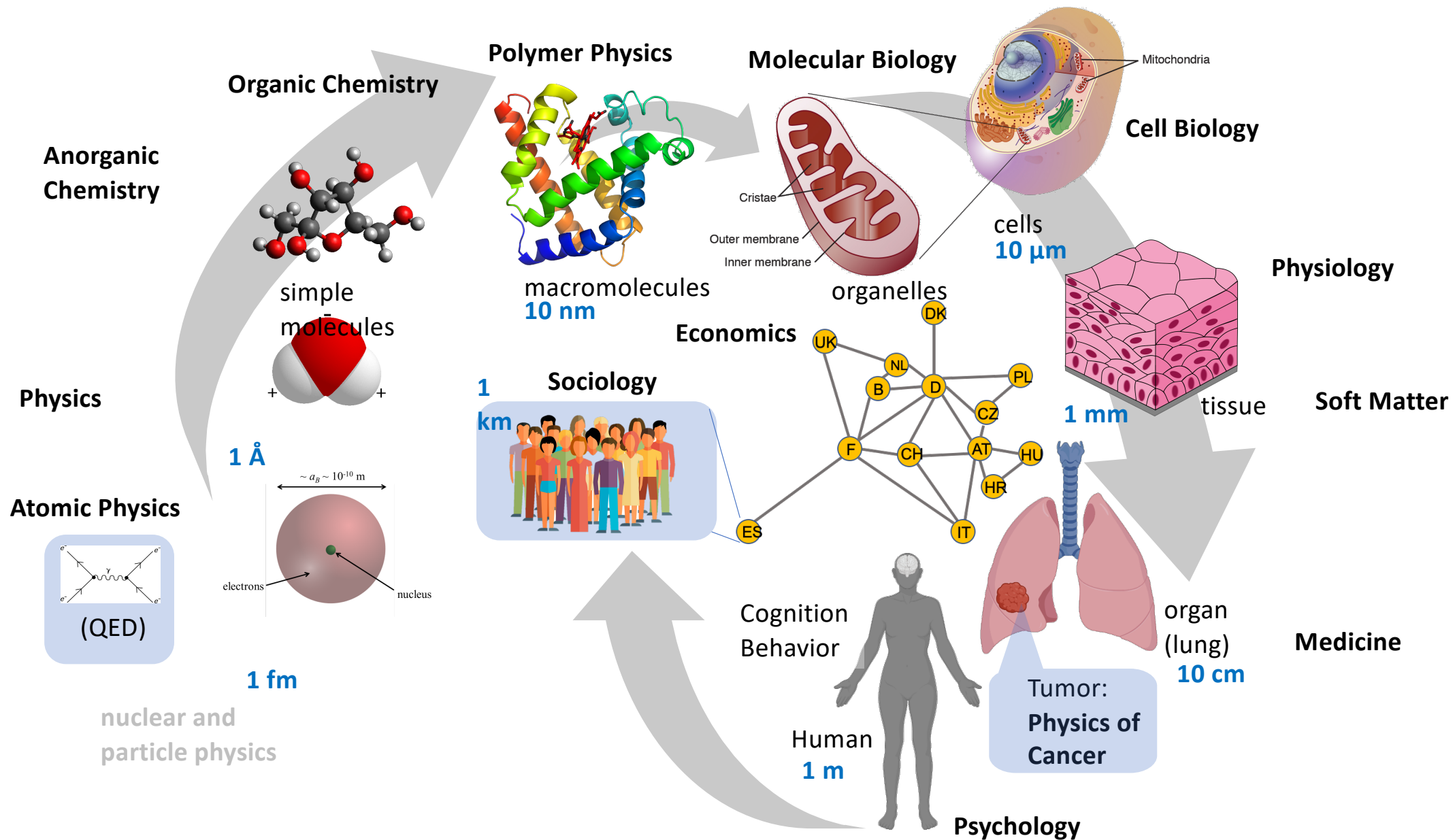
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Transdisciplinary Physics

biology

medicine

psychology

sociology

economics

neurobiology



biological physics

medical physics

behavior

sociophysics

econophysics

neurophysics & physics of cognition

Domains of NFDI4Phys

Atoms & Molecules

Quantum Information

Dynamics & Statistical Mechanics

Optics & Photonics

Medical Physics

Biological Physics & Soft Matter

Cold Plasma

Socioeconomic Systems

Transdisciplinary Domains

NFDI4Phys

Forschung Daten Infrastruktur

Data Infrastructure

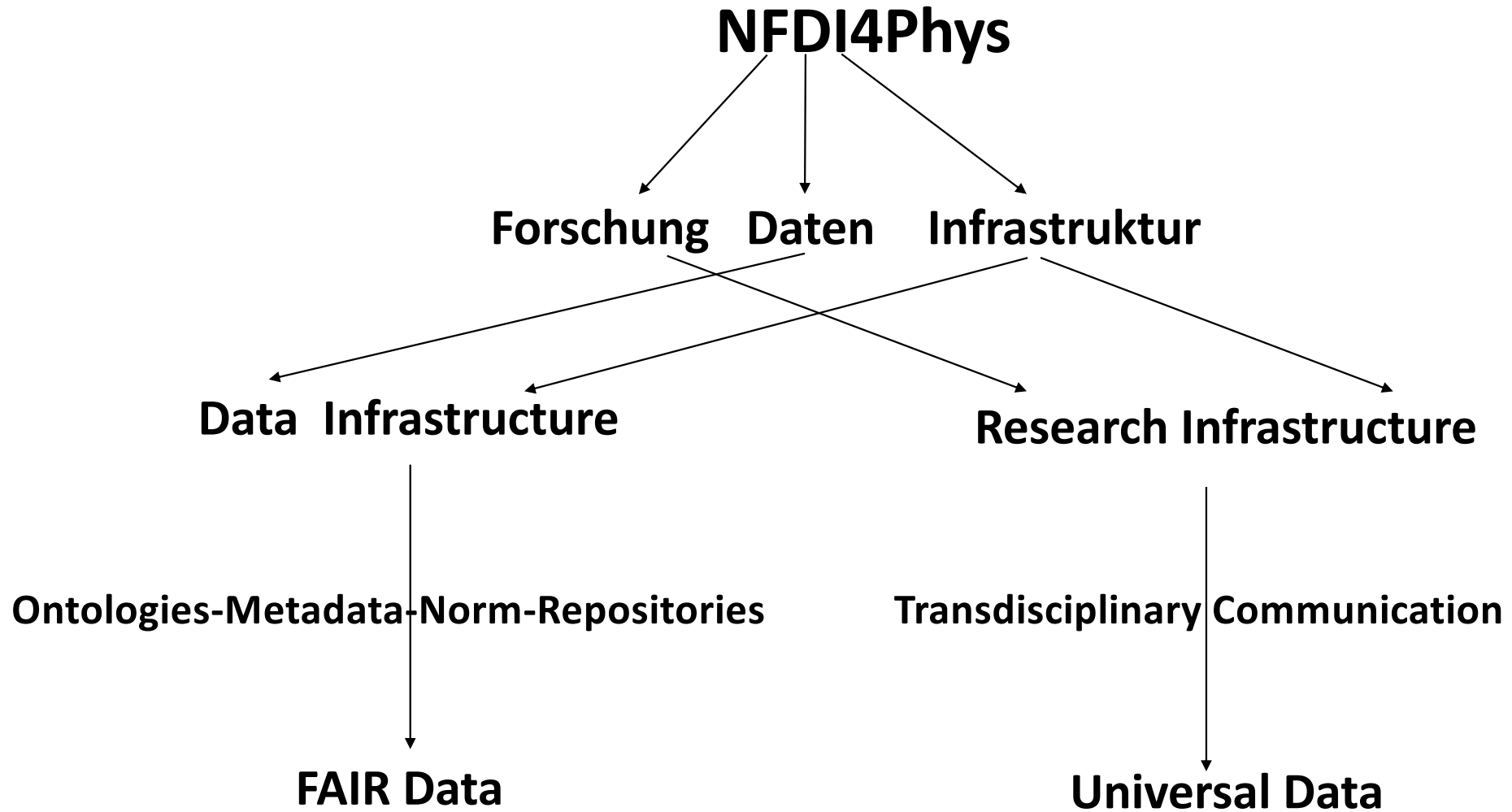
Research Infrastructure

Ontologies-Metadata-Norm-Repositories

Transdisciplinary Communication

FAIR Data

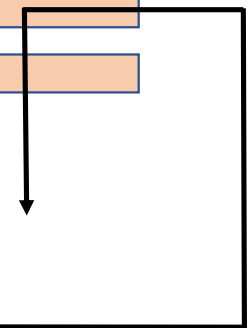
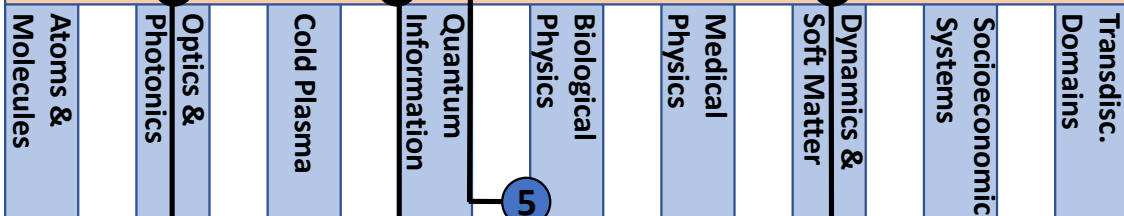
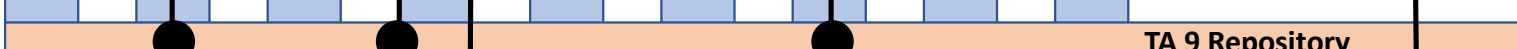
Universal Data



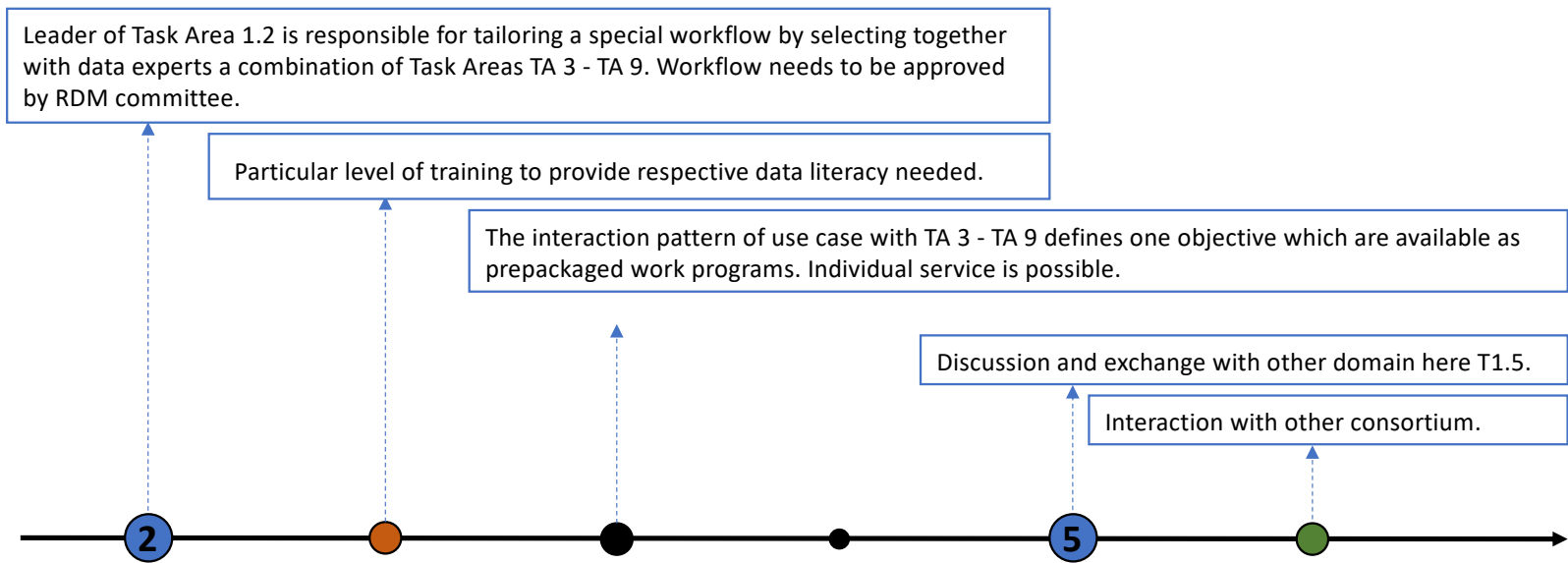
Workflows



TA 1 Domains



A **workflow** corresponding to a **paradigmatic use case** defines one **objective**.



- **Data structures mirror the physical processes producing them.**
- **Physical Processes belong to emergent Universality Classes.**
- **There are corresponding Universality Classes of data structures!**
- **Let's find them to foster **One NFDI**.**