



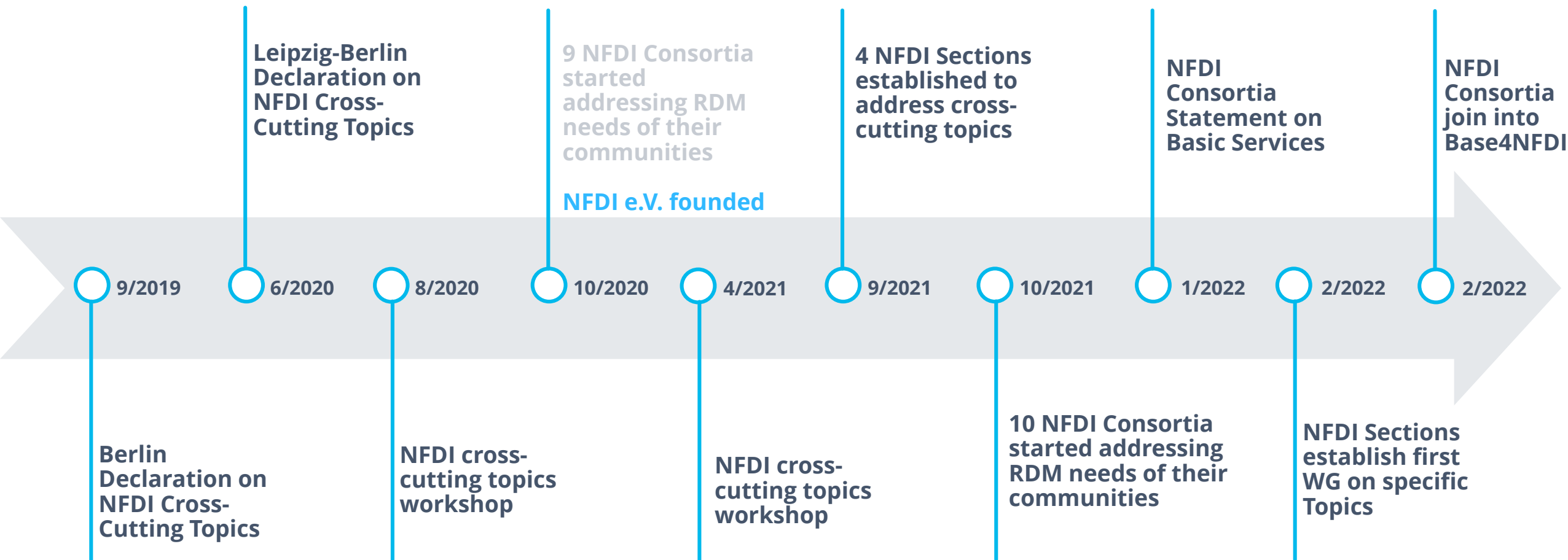
# NFDI4Earth

## The NFDI Sections and Base4NFDI

1<sup>st</sup> NFDI4Earth Plenary 2022 – June 9<sup>th</sup>-10<sup>th</sup>

Lars Bernard

# Cooperation of NFDI Consortia – joining into *one* NFDI...

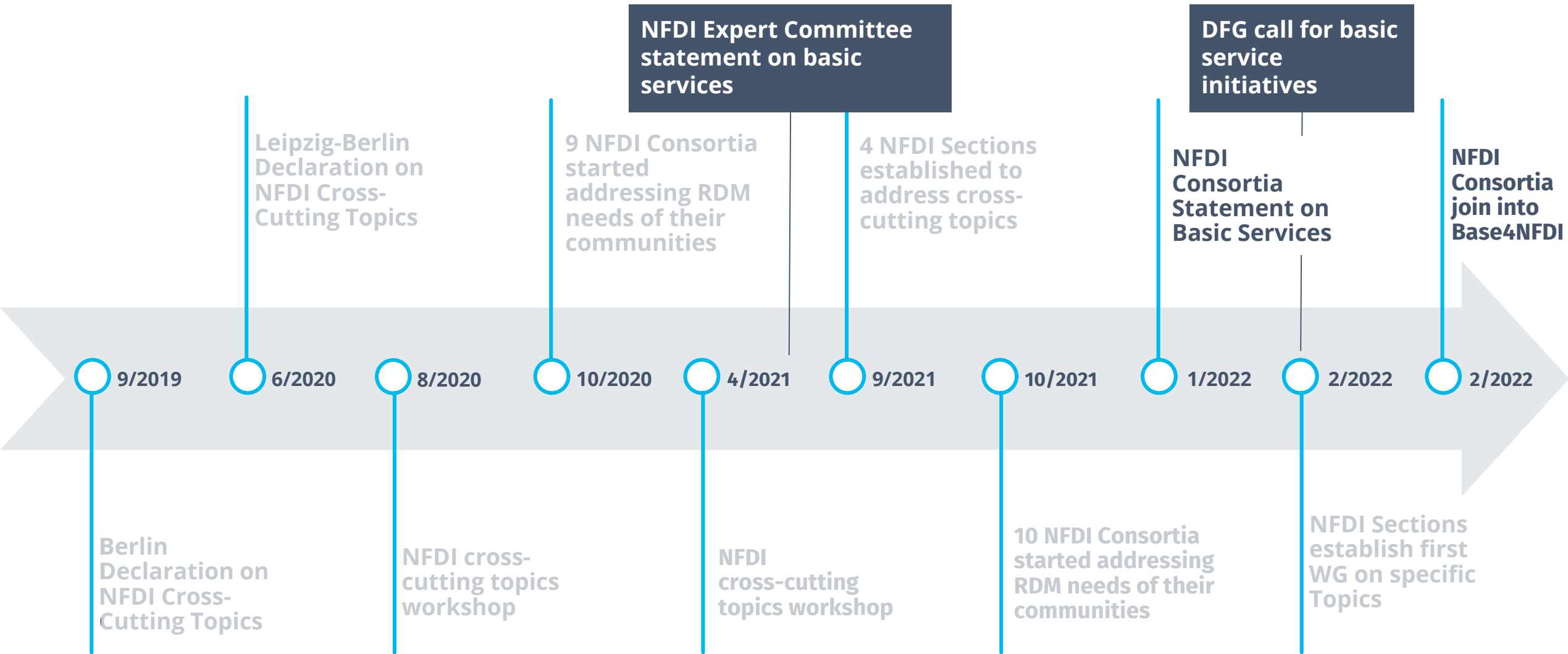


# NFDI Sections

- **NFDI Sections**
  - are **the places to identify and tackle cross-cutting topics of NFDI consortia**
  - Deliver position paper, standards, ...
- **4 Sections established in 2021:**
  - **Common Infrastructures** (*section-infra*)
  - **Ethical, Legal and Social Aspects** (*section-ELSA*)
  - **(Meta)data Terminologies and Provenance** (*section-metadata*)
  - **Training & Education** (*section-edutrain*)
- All 4 Sections published initial concept papers
- Sections are **open to new NFDI members** - see more under <https://www.nfdi.de/sections/>



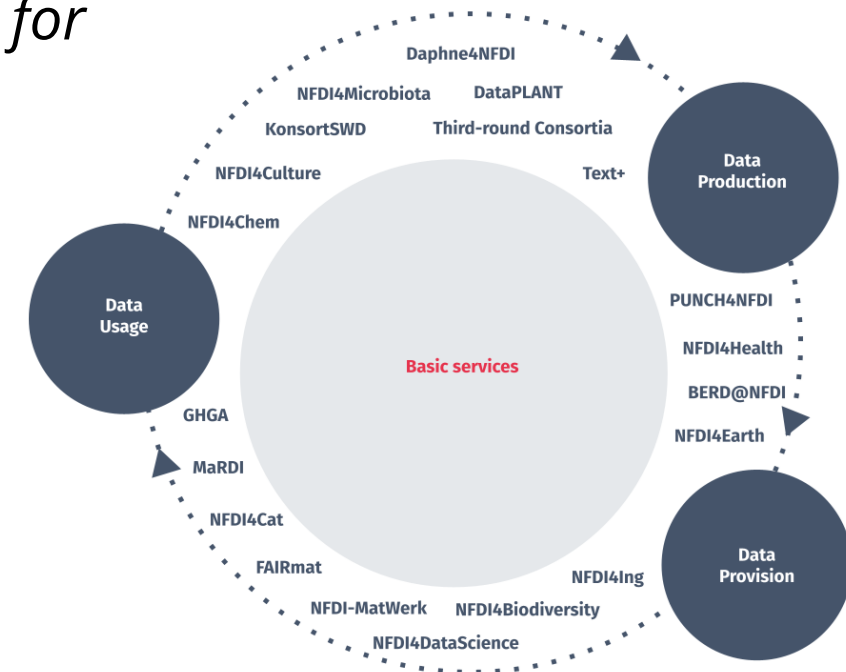
# Basic Service for NFDI



# Basic Services !?!

*A service is a technical-organisational solution, which typically includes storage and computing services, software, processes and workflows, as well as the necessary personnel support for different service desks.*

- **NFDI-wide basic services** would have the **potential to serve most or all consortia**
- **Target group** is the wider NFDI-community and, in particular, **operators of specialised community resources**



# Base4NFDI: Basic Services across NFDI Consortia

- Scientific Domains organized in NFDI consortia
- **Leading infrastructure providers are already part of these consortia**
- Consortia in unique position to determine fit-for-purpose services for RDM support
- Common, **interoperable basic services** are core **to deliver** on promise of **integration and long-term operational models**
- Joined **linkage into EOSC** and further international infrastructures
- **All NFDI consortia agreed upon and joined in Base4NFDI**

**3/3** Gauss Centers for Supercomputing

**7/9** National High Performance Computing Centers (NHR)

**12/13** German Gauß-Allianz (HPC Tier 1-3)

**1/1** German Research and Education Network (NREN)

**6/6** German AI Competence Centers

... ..

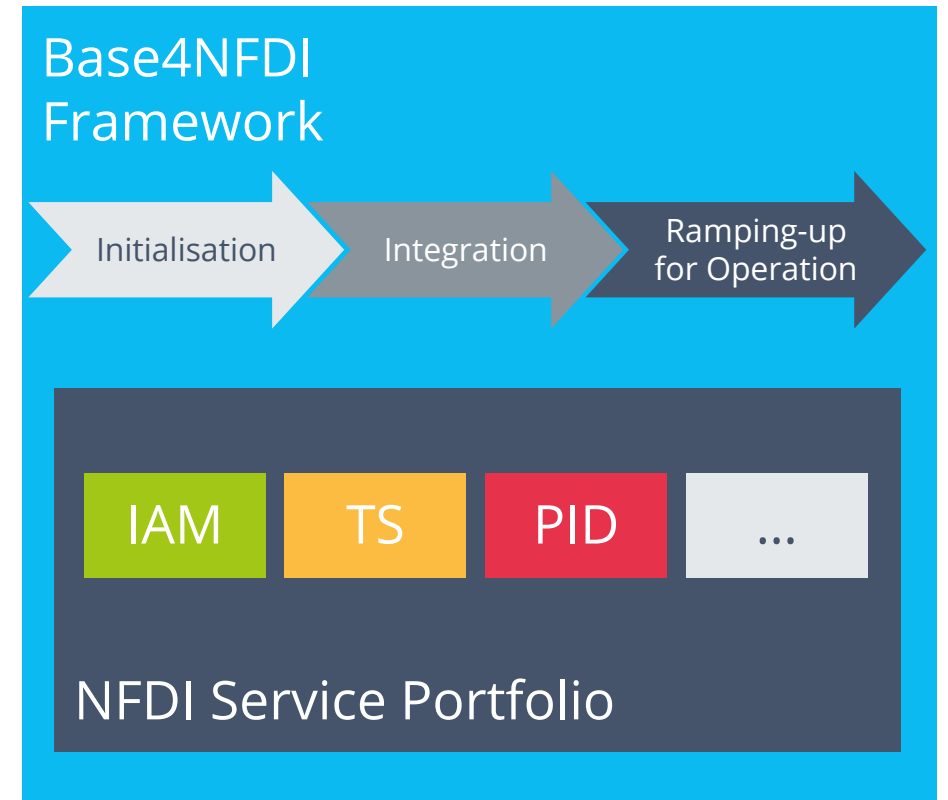
**12/19** German EOSC Association members

**18+** members involved in EOSC projects

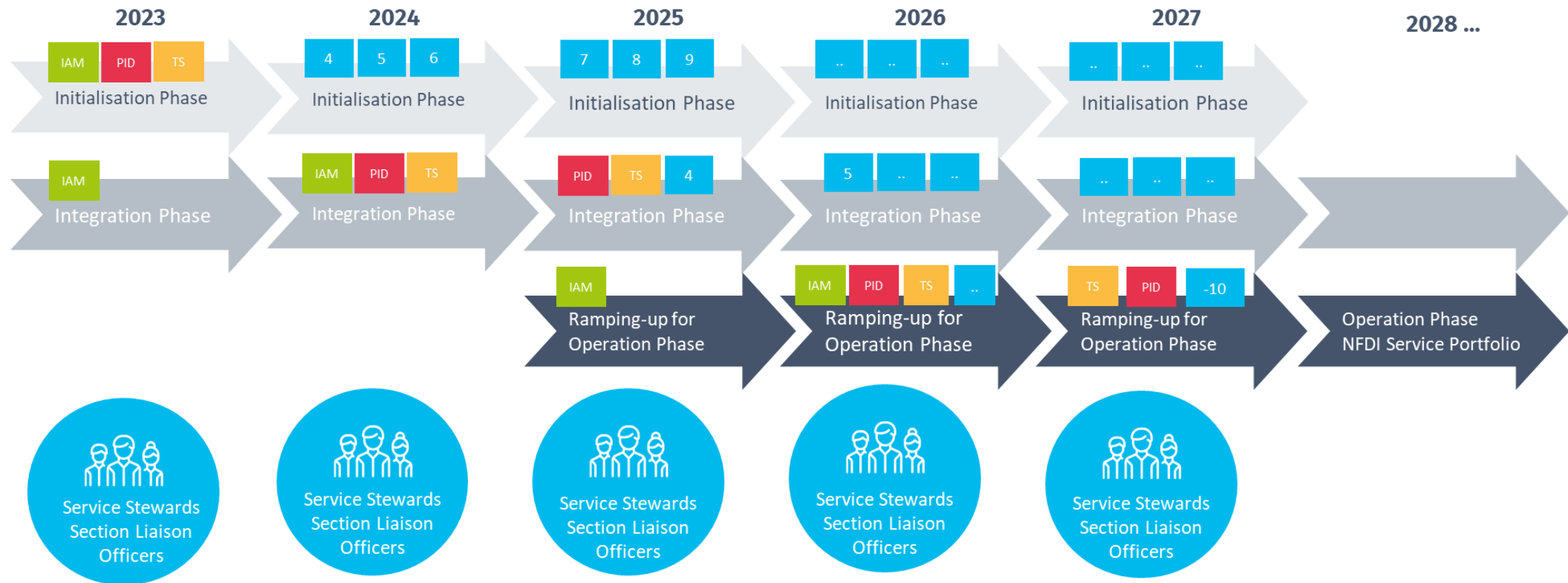
**9** ERICs represented by members

# Base4NFDI - Key Deliverables

- **Framework** for user-driven and quality-assured basic service development
- **Agile process** to **establish** a NFDI-wide **basic service portfolio**
- Up to 10 fully established basic services starting with:
  - Identity and Access Management Service (IAM)
  - Persistent Identifier Service (PID)
  - Terminology Services (TS)
- Building on existing solutions and complementing EOSC



# Base4NFDI: Development of basic services in a 3-Stage Process

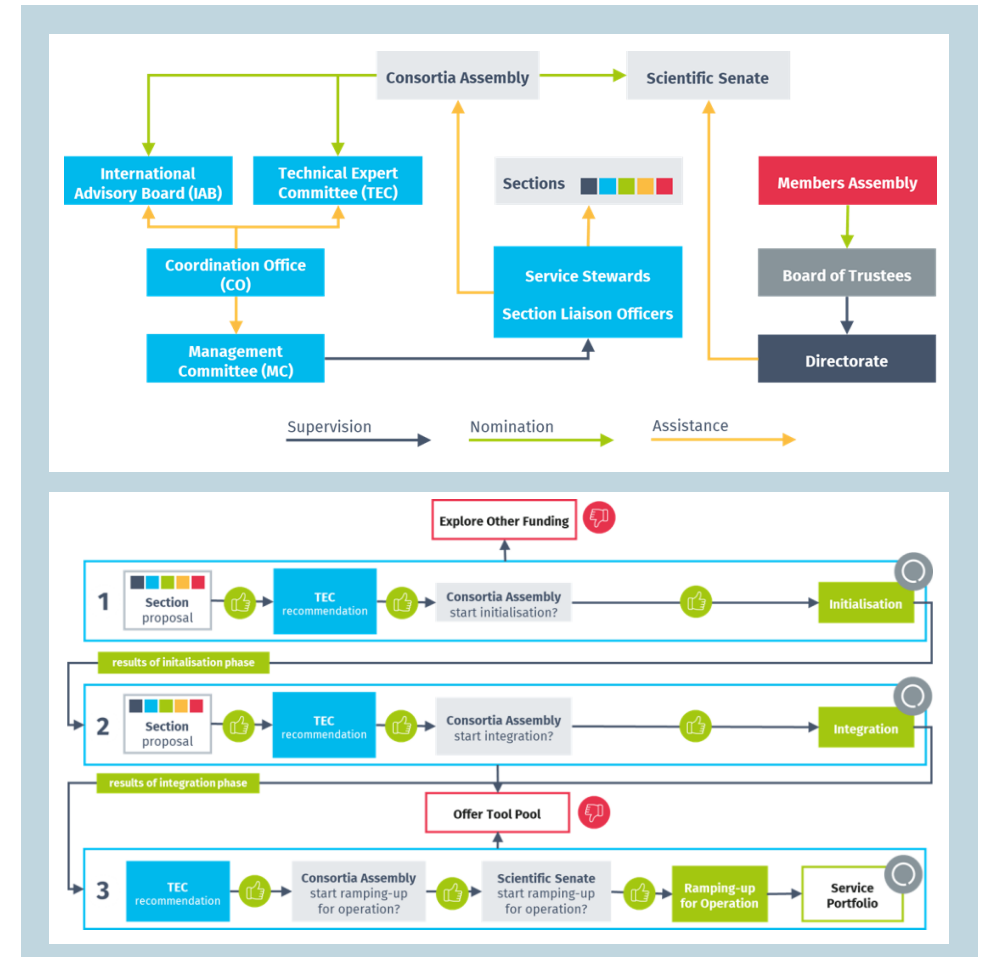


- **Flexible Funds** allow to adapt to organizational/technical dynamics and technical complexities
- Will enable development and roll-out of substantial number of services
- Will help to ensure integration in diverse existing landscapes by supporting adoption



# Base4NFDI decides embedded in the NFDI Association and with different perspectives

- A **Technical Expert Committee (TEC)** assures infrastructural expertise and commitment
- In **each phase the services' readiness is evaluated** by the TEC and the Consortia Assembly
- A **set of decision criteria, templates and dossiers** will support/document decisions and feedbacks



## Base4NFDI - Path to sustainability

- **Base4NFDI contributes to successful NFDI evaluation** through basic services that
  - support interoperability and integration across domains
  - are ubiquitous in RDM and heavily used by consortia
  - avoid double funding and help achieving synergies and cost savings
  - are operated reliably in the NFDI service portfolio, many as part of EOSC
    - are prime example for NFDI-wide collaboration
- **Future coordination can be transferred to NFDI Directorate**

## Base4NFDI - A challenging timeline

- 2022 February: DFG call for proposals
- 2022 March: Lol Base4NFDI sent to DFG
- 2022 April 29th: Joint proposal of Base4NFDI initiative submitted
- 2022 May 11th: Base4NFDI presentation to NFDI Scientific Senate
- 2022 May 23rd: **Defense of the proposal in front of reviewers' board**
- 2022 June-November: Base4NFDI preparing for basic service initialization of IAM Services, PID Services and Terminology Services
- 2022 November: Decision on funding by Joint Science Conference
- 2023 January: Start of the Base4NFDI project (for 5 years)

# Thank you ! Questions ?

