Open Science in Hungary
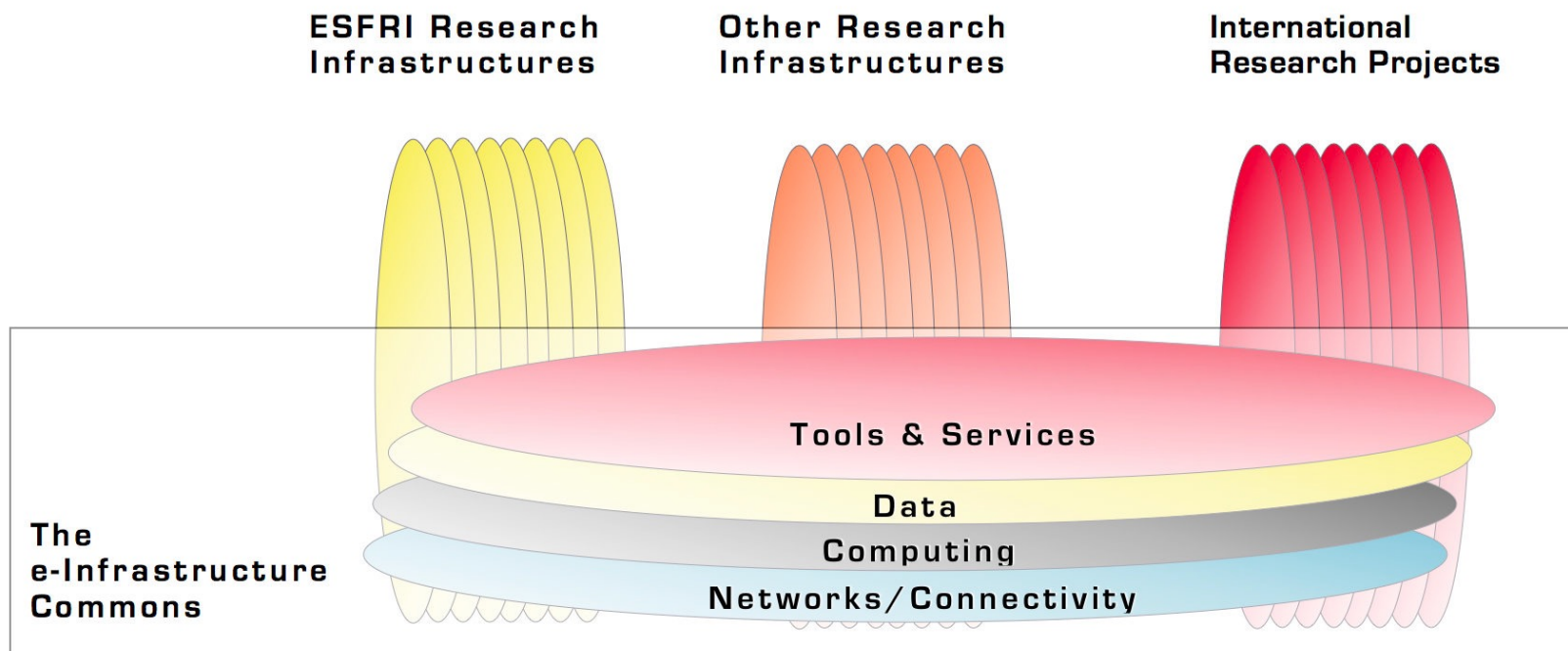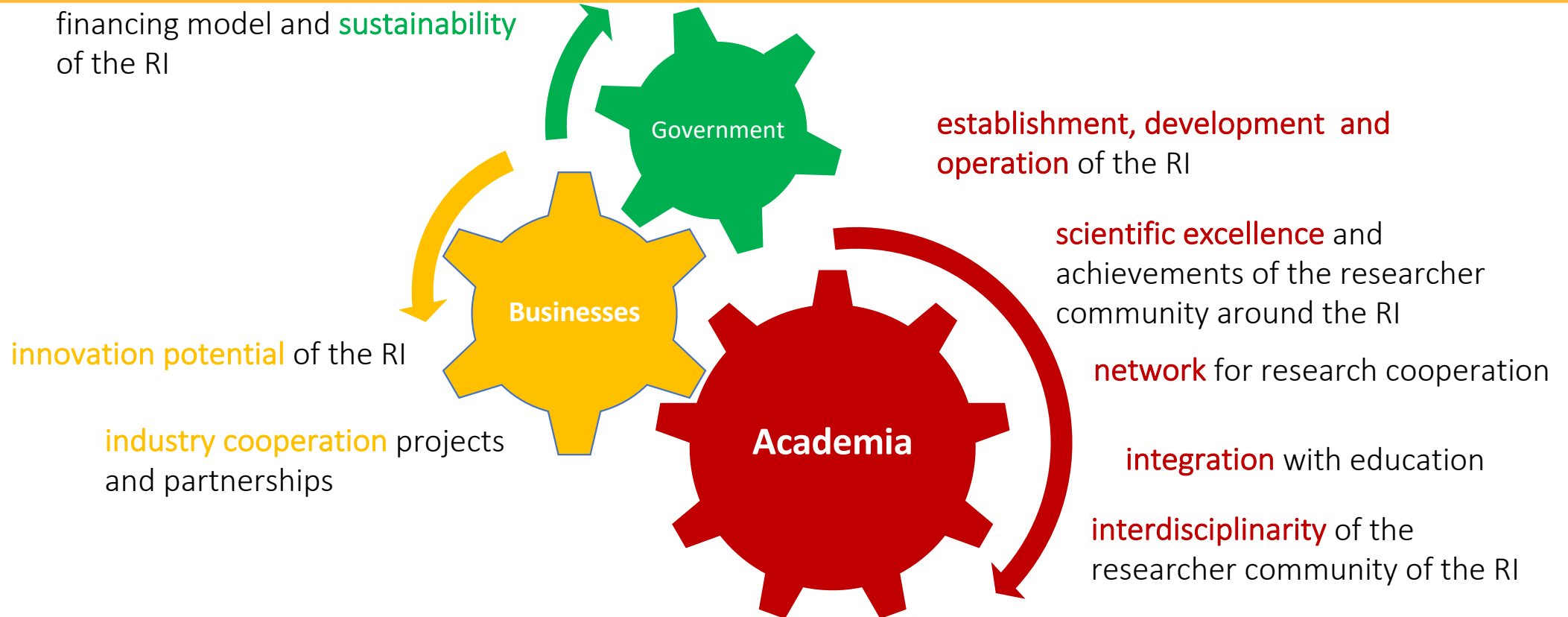## Hungary contribution to EOSC activities

János Mohácsi, Head of International Relations, KIFU

E-infra commons

ESFRI Research Infrastructures

Other Research Infrastructures

International Research Projects

The e-Infrastructure Commons

Tools & Services

Data

Computing

Networks/Connectivity

Source:e-irg

Research Infrastructures - stakeholder responsibilities

financing model and **sustainability** of the RI

Government

establishment, development and operation of the RI

scientific excellence and achievements of the researcher community around the RI

Businesses

innovation potential of the RI

Academia

network for research cooperation

industry cooperation projects and partnerships

integration with education

interdisciplinarity of the researcher community of the RI

Hungary participation in International Cooperations

Source: NKFIH

KIFÜ

- **ICT infrastructures (e-Infrastructures)**
  - Encourage federation in EOSC
    - compatibility
    - Keeping MS/AC and disciplinary independence
- **Challenges to address**
  - technological development
  - technical standardization
  - legal regulation
  - workflow organization
  - financing issues
  - human capacity
  - from wide acceptance to user engagement
  - from governance to sustainability

Governance Board – Delegated experts from Member States and associated countries
In Hungary: János Mohácsi (KIFÜ)

KIFÜ
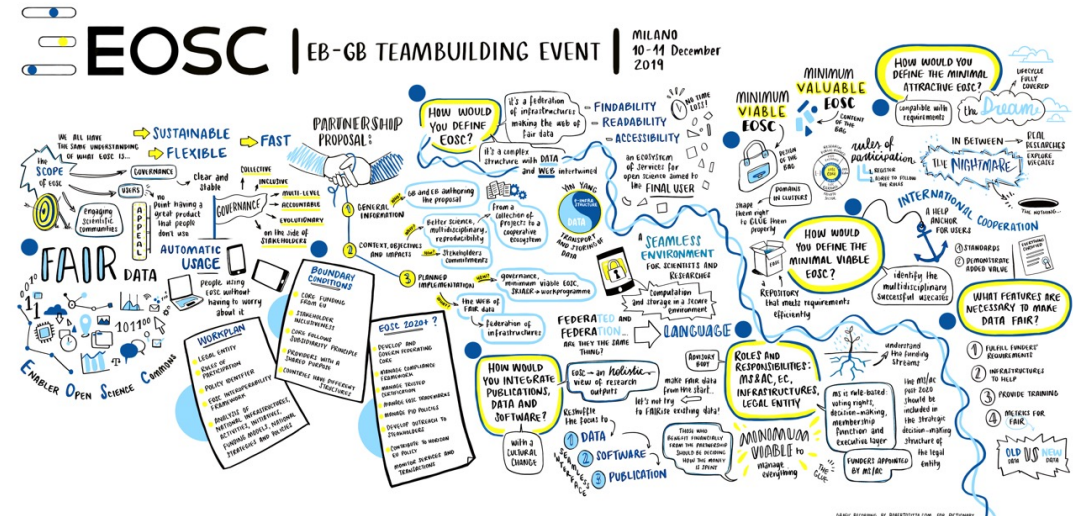
EOSC RoP
Executive Board Working Group

EOSC FAIR
Executive Board Working Group

Hungarian member: Holl András – MTA KIK

EOSC Architecture
Executive Board Working Group

Hungarian member: Micsik András - SZTAKI

EOSC Landscape
Executive Board Working Group

Hungarian ,member: Szeberényi Imre - BME

EOSC Sustainability
Executive Board Working Group

Hungarian member: Máray Tamás, earlier Bálint Lajos

EOSC Skills&Training
Executive Board Working Group

Huingarian mermber: Fazekas-Parragh Judit – DE

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# Open Science – Hungarian Legal environment

- **Act LXXVI of 1999 on Copyright**
    - Libraries and public collections are required to digitise any items in their collection and display them to individual members of the public.

- **Act CCIV of 2011 on National Higher Education amended in 2013**
    - Mandates open access to doctoral dissertations.
    - Doctoral dissertations and their abstracts are to be publicly available for all, without restrictions, in both electronic and printed format in the institutional repository and in the library of the awarding institution.
    - Many universities provide open access also for BSC and MSC thesis

- NRDI Office introduced an Open Access mandate in 2014
  - The obligation to make publications open access is integrated into the text of the Grant Agreements
  - The Grant agreement states that it is the responsibility of the project leader to provide open access to publications funded by NRDI Fund.
  - Approximately 2.5 % of the funding for all research projects is dedicated to open access costs.
- NRDI Office introduced a requirement for RDM plans in 2020
  - RDM plan should be submitted as part of the project proposal (first OTKA, other calls later)
  - Aligned with Horizon2020 and later Horizon Europe

- Hungary early partner building e-Infrastructures.
    - research networking started in the late 80's - one of the first European NREN in the region
    - founding members and early users of the GÉANT infrastructure, and also grids, multimedia, HPC (including PRACE and EuroHPC) and storage, clouds, virtual environments, etc.
    - Projects (series of GEANT and in country 1998-) to provide Access/Networking and AAI to all research infrastructures in Hungary
    - Early participation in OpenAIRE e-infrastructures (2009-) – establishment of NOAD in Hungary
- HUNOR - HUNgarian Open Repositories association
    - to advance national open access practices, promote open access
- Several repositories (REAL, Videotorium etc.) and common repository search tools (OAIkereso)

- HRDA - Hungarian Research Data Alliance (2019-)
  - To develop and support the Hungarian RDM community
- Establishment of ELKH (2019–)
  - Optimise research, development and innovation
- Establishment of National Laboratories (2020–)
  - expected to support research data managements and industrial exploitations and innovations
- EOSC project participations (2019 –)
- NOSCI forum intiative (2021-)

NEMZETI LABORATÓRIUMOK
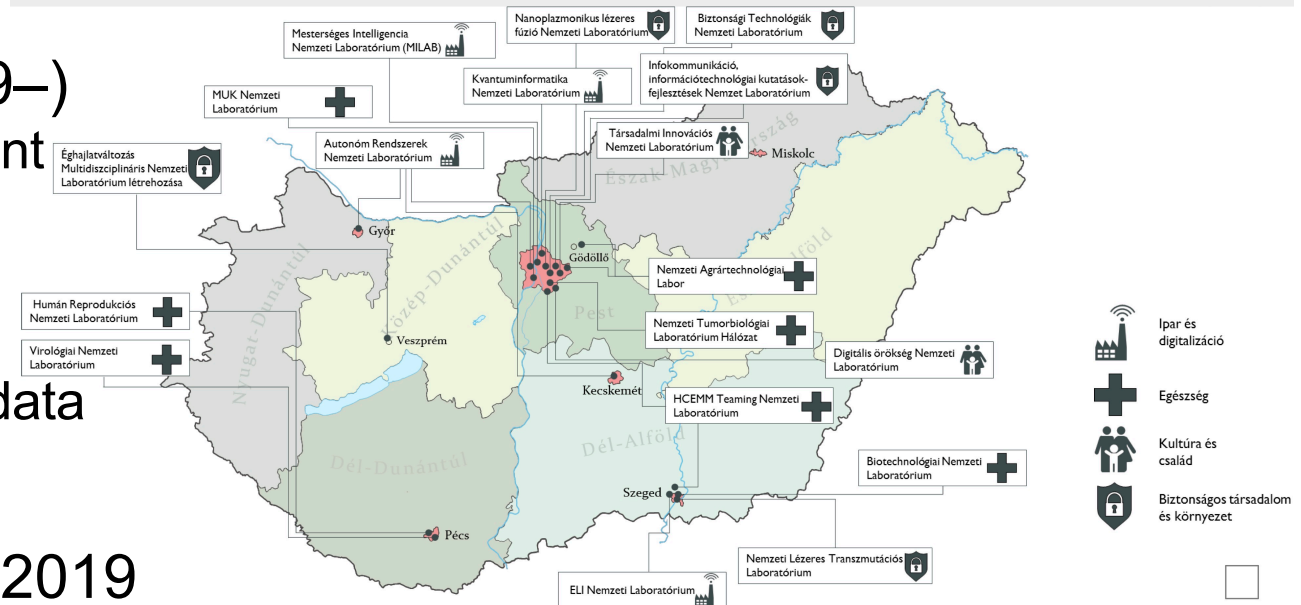
EOSC projects and Hungarian participation

Source: https://www.eosc-portal.eu/about/eosc-projects

"Data scientists are kind of like the new Renaissance folks, because data science is inherently multidisciplinary."
— **John W. Foreman**

János Mohacsi

Questions?
openscience@kifu.hu