



# Monitoring Research Infrastructures - CESSDA performance

## Widening meeting Skopje, Makedonija

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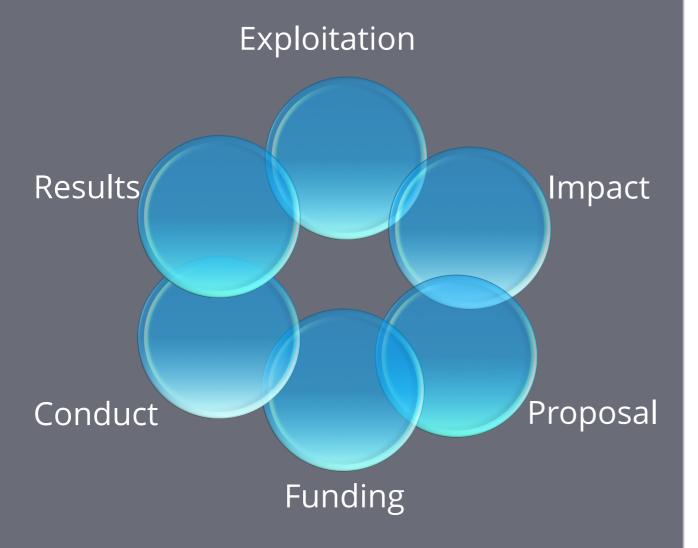
05 November 2019













## Sustainability of Research Infrastructures

Evaluation systems for RIs

Socio-economic impact

Mission, Vicion, Goals



Measurable imicators (KPIs)



Organisational structure



**FUNDING** 



### Broader context

#### ESFRI long-term sustainability

- ESFRI WG 35 recommendations in 7 key areas (June 17)
- EC Working Doc with 42 recommendations (Sep 17)

#### SCRIPTA Sustainability of Research Infrastructures

- 7 main recommendations:
  - Excellence;
  - Have the right people in the right place
  - Vision for convergent operation of RIs and e-Infra's
  - RI's as innovation hubs
  - Determine economic and wider social value of RI's
  - Effective governance and sustainable long-term funding
  - Foster coordination at national and European levels

### OECD on the socio-economic impact of RI's

Distinguish between performance, impact, time







- Members: national ministries (General Assembly)
- Designated national Service Providers
- Scientific Advisory Board
- European Commission

   (annual reports, EC projects)
- ESFRI
- ERIC Forum
- EOSC
- Scientific community
- Specific e.g. technical evaluation

- Evaluation
  - Socio-economic impact
    - KPIs
      - Business model
        - Funding



#### On national level

- influencing policy
- trusted repositories
- standards
- jobs at Service Providers
- outreach to new members

#### On EU level:

- Scientific community data sharing and re-use, training, thematic data clusters
- Policy level working groups, ERIC Forum
- EC funding EOSC, widening, standards

#### International level

Collaborations: RDA IG SSH
 Research Data, IASSIST, with other Disciplines

Evaluation

- Socio-economic impact
  - KPIs
    - Business model
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- Developed by ESFRI
- Developed by ERIC Forum
- Measure of performance
- Measure of impact
- Measurable over time
- Qualitative, quantitative
- CESSDA a distributed SSH RI
- Not: patents, publications.

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## National example (DE)

Research Data Centres accredited by the RatSWD



















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Key figures of the accredited network of 34 research data centres in 2018

https://www.ratswd.de/pressemitteilung/16102019



# ESFRI developments

Objective	KPIs
Achieving scientific	1. Number of user requests for access √
excellence	2. Number of users served √
	<ul><li>3. Number of publications</li><li>4. Percentage of top (10%) cited publications</li></ul>
	4. Fercentage of top (10%) cited publications
Delivery of education and	5. Number of MSc and PhD students using the RI √
training	6. Training of people who are not RI staff √
Enhancing collaboration	7. Number of Members of the RI from ESFRI countries √
in Europe	8. Share of users <del>and publications</del> per ESFRI member country √
Facilitating economic activities	<ol><li>Share of users associated with industry and publications with industry</li></ol>
	10. Income from commercial activities and the number of entities
	paying for service
Outreach to the public	11. Engagement achieved by direct contact √
	12. Outreach through media √
	13. Outreach via the RI's own web and social media $\checkmark$
Optimizing data use	14. Number of publicly available data sets used externally √
Provision of scientific	15. Participation by RIs in policy related activities √
advice	16. Citations in policy related publications
Facilitating international	17. Share of users <del>and publications</del> per non-ESFRI member
co-operation	country √
	18. International trainees
	19. Number of members of the RI from non-ESFRI countries $\checkmark$
Optimising management	20. Revenues
	21. Extent of resources made available √



## Relevant CESSDA KPIs

#### **Quantitative** (number of)

- Trust:
  - certified repositories
- Users:
  - data downloads, levels, registered, number of website visits, social media followers
- Studies (datasets):
  - new datasets added to collections, variables (if possible), published through CDC (or available in archive), openly available, restricted, data breaches (aiming at zero)
- Funding:
  - annual, share of project funding, staff (FTE equivalent)
- Training:
  - Organised seminars/training events/webinars, number of participants
- **O**

#### Qualitative

- Purpose of use for downloaded data (i.e. study, teaching, BA/MA/ PhD thesis, research or other)
- Utilisation rate (i.e. the share of studies downloaded at least once)
- Institutional developments (non-quantitative description)
- CESS FAIR metrics, policies...etc.

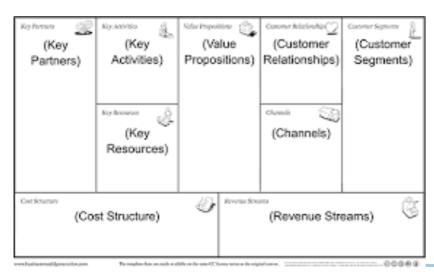
## Next steps

- Combine list of KPIs with CESSDA strategic goals
- Gap analysis of goals-KPI relationship
- Explore experiences of other domains (i.e. Humanities/CLARIN/Daan)
- Precise definition and description of KPIs
- Several iterations with SPs



## CESSDA ERIC business model (in progress)

- CANVAS Business Model
  - Key partners
  - Key activities
  - Key resources
  - Value propositions
  - Customer relationships
  - Communication channels
  - Costs (investments, maintenance)
  - Return (money, indicators/metrics)



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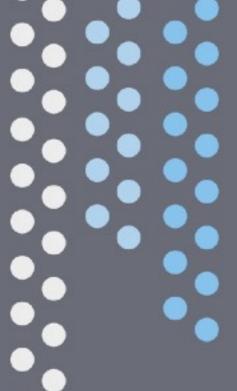


## **CESSDA ERIC funding**

- Membership fees
  - ministries, research councils
  - additional contributions
- Project funding, esp. EU
- Future:
  - Revenues from services (business models)

- Evaluation
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## Thank you for your attention!

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