LINDAT/CLARIN Language Resources and Technology

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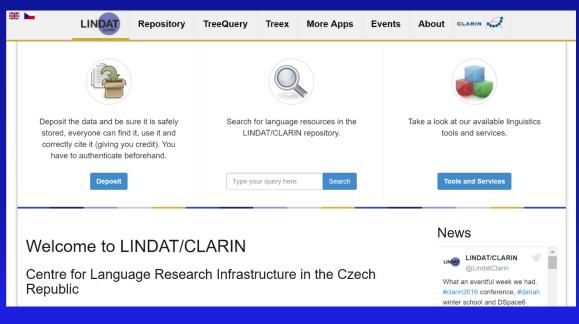






LINDAT/CLARIN

- Data, tools and services
 - 1000+ repository items, Open Access, special Open Source SW
 - 14 major services & applications all tools Open Source
 - 30,000 accesses / 2,000 downloads / mo
 - Ex.: Internet Language Reference Book, Holocaust archive access
- Coordinated by Clarin ERIC





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Panel questions

- ESFRI issues
 - Relevant: Exellence in Science, Human Resources (ext.), Coordination
 - Challenging: socioeconomic impact (to prove)
- Lifecycle concept
 - SSH area commercial use < 20%
 - Cornerstones: international coordination, excellence of services, data, tools, match to changing user needs, funding
- Performance indicators
 - External mapped to internal (aligned)
- National and ESFRI coordination
 - ESFRI: must acknowledge successfully running Ris (landmarks)
 - National: well-managed process, useful feedback from evaluation





GLOBAL CHANGE RESEARCH INSTITUTE Czech Republic Academy of Sciences

CzeCOS

Motto: "CHANGE IS CHALLENGE"

Long term sustainability of research infrastructure

Jiří Kolman Scientific Secretary of Global Change Research Institute





Globe Global Change Research Centre AS CR, v. v. i.

Long term sustainability of research infrastructure

Benefits of current model that is OK:

- Stable long-term funding
- **Based on robust international regular and fair** evaluation
- Significant funding (surely more funding better funding)
- Multisource funding supporting the RI development and operation is possible (e.g. H2020 project **Readiness of ICOS for Necessities of integrated Global Observations (RINGO)** implemented 2017-2020

www.czechglobe.cz RINGO

Readiness of ICOS for Necessities of Integrated Global Observations

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Long term e-infra sustainability

e-Infrastructures: trully horizontal activity

- networks (GEANT), grid/cloud computing (EGI), supercomputing (PRACE), storage (EUDAT, EGI)
- cross disciplinary collaboration essential
- (e-)infrastructures contribute to and **serve** excellent science
- Interational collaboration and coordination
 - vertical within the e-infra segment
 - vertical and horizontal cross e-infra segments (PRACE in ESFRI)
 - with ESFRIs and other large scientific communities
 - horizontal and cross-collaboration not (much) explicitly supported
- Continuous self-evaluation
 - capacity consumption
 - quality of impact/outcome in other scientific disciplines
- Long-term strategy crucial
 - fast technology turnaround vs. trust in long term existence
 - can't directly compete with IT giants
- Current funding cycles far too short

Ludĕk Matyska

Sustainability

2. 11. 2017 1 / 1

Day of National Research Infrastructures (2 November 2017, Brno) doc. Ing. Ivan Štekl, CSc.

Institute of experimental and applied physics, Czech Technical University in Prague

Session II: Long term sustainability of research infrastructure

Personal experience with research infrastructures:

- Member of ESFRI WG Energy (project assessment, preparation of Roadmap)
- Member of MEYS committee for research infrastructures in Czech Republic
- Long term cooperation with CERN, ESA and JINR Dubna
- In IEAP CTU there are 2 RIs
 - <u>LSM-CZ</u>: multidisciplinary fundamental and applied research in ultra-low background conditions, deepest underground laboratory in Europe, 4 800 m.w.e., dark matter search, mass and type of neutrino, environment studies, microelectronics, radiobiology in ,,ZERO DOSE" environment ...
 - <u>VdG</u> (accelerator of ions): fundamental and applied research in subatomic physics, material physics, development of detectors and space research.

Why the question of long term sustainability of RIs is important?

- 1) Every modern country (and CR is highly developed country) needs sophisticated research base in many areas
- 2) In last period Czech Republic donated large funds into RIs and into new research centers (effectiveness of the financial resources)
- 3) Quick changes in today's scientific world

How to support long term sustainability (items for discussion)?

- 1) Regular upgrade of the equipment
- 2) Attraction for international community (staff from abroad)
- 3) Ambitiousness towards results (articles, citations, patents)
- 4) Connection with education (attraction for young students)
- 5) International cooperation based on reciprocity (EU, USA, Canada, Japan...)
- 6) Cooperation with industry (in some area it is crucial question, direct sell of the results)
- 7) Financial budget:
 - a) governmental support (based on international refereed process)
 - b) part of budget based on results at Czech Republic scale (based on strict system and not on committee decision)
 - b) part of budget from business
 - c) part of budget from intergovernmental level (cooperation inside EU H2020, ESFRI...)
 - d) part of budget from grant agencies in CR (but to avoid double financing)
 - e) philanthropy foundations

How to avoid the stiffness of the scientific environment (to close RI, to open new RIs)?

- 1) Regular (e.g. 5 years) control of the results and progress international level
- 2) Regular (e.g. 5 years) estimation of new demands, changes in scientific world international level, small support for emerging projects, different stages of the RI (preparatory, ...)
- 3) Not to loose experts from RIs at the end of exploitation.

Day of National Research Infrastructures 2017

Long term sustainability of research infrastructure Jiri Vondrasek, ELIXIR CZ at IOCB AS CR

November 2nd, 2017



Long term sustainability of research infrastructure

- Sustainability of the RI services as well as RI investments is conditional on the sustainability of funding
- MYES as the major provider of the funds and the RI support should clearly define priorities and evaluation criteria
- Long-term vision of the RI utilization is necessary
- Anchoring the RI within European environment is key
- Quality of the RI depends upon national funding quality of the RI services is a crucial condition to apply for European resources (competitiveness and eligibility)
- Sustainability of the funding is therefore the most important element towards a high-level quality RI and sustainability of its services