Promotion and Realisation of FAIR and Open Science through CRIS- and Data Management-teams

Business as Usual?

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What is VBN CRIS and CLAAUDIA DM – and who are Karsten and Poul?

- Aalborg University – Full-fledged: SSH + STEM: 1974-
- VBN CRIS: 2002-
- CLAAUDIA DM: 2018-
- 0000-0002-2407-8764:
  - Chief Consultant on Data Management
  - Innovation, Behavioral economics, Digitization
- 0000-0002-3751-9821:
  - Specialist – CRIS and Research Analytics
What happens if we don’t change anything?

- Premise: If we don’t change anything, we die!
- What is status quo? - Is it really that bad?
  - Two perspectives:
    - Greater perspective
      - Open Science
      - FAIR – data and software
    - VBN CRIS & CLAAUDIA DM “products” and focus

"So what type of experience can assist in the survival of incumbent firms in the face of disruption? The thesis proposed in this book (...) is that incumbents can insure against disruption if they develop integrative experience and capabilities." 8
Rewards and Incentives – Status Quo

Few real solutions and little efficiency?? - unintended consequences of research policies and CRIS use

- "academics [...] tailor their research practices and problem choices to fit university evaluation criteria for tenure rather than solving societal problems."\(^1\)
- "Extended reference lists to inflate citations; reviewers request citation of their work through peer review."\(^2\)
- "Salmami publishing"\(^3,4\)
- "Increased time writing proposals [for funding] and less time gathering and thinking about data."\(^7\)
- "brain drain process from low-ranked institutions [...] 'Matthew effect' [...] by which high-status institutions can attract the best scholars, the best students, and high levels of funding and donations, further securing or improving their position at the top."\(^2\)
Open Science – Rewards and Incentives

- European perspective
  - Paris Call – OSEC 2022 (EU, UNESCO)
    - Alignment: assessment and values
    - Qualitative judgement and responsible use of metrics
    - Reward quality, integrity, diversity (activities, outputs, roles and career paths), societal impact
    - Respect variety of research disciplines
    - Value collaboration and open practices

- National perspective
  - No common Danish research indicator
  - https://www.nora.dtu.dk/
  - Thoughts, ideas and demands
FAIR – Data and Software

- FAIR principles => KPI’fication
- Data stewardship profession
- Go into a clinch with the research methods etc.
- Touches GDPR, reproducibility, reusability etc.
- Ensuring the prerequisites of FAIR in an institutional context
- Blurry boundaries.

A FAIRy tale

A FAKE STORY IN A TRUSTWORTHY GUIDE TO THE FAIR PRINCIPLES FOR RESEARCH DATA.

VBN CRIS
"Products"/Focus

- Beyond coverage and multiple dimensions
- Impact registration
- Data Monitor (in collaboration with CLAAUDIA)
VBN CRIS Focus/Products - Research evaluation/registration is/has become multidimensional

Publication List
Publications per Organisation
More Content Types Related

A History of CRISs

Impact (Societal)
Projects
VBN CRIS Focus/Products
Impact and Data Set Registration

Impact registration
1. Press -->
2. Curation -->
3. Description and Classification -->
4. Relations to registrated content (evidence) -->
5. Notification to resesarcher

Non-incremental evolution

Data Set from Data Monitor

Impact (Societal)
Ensure legal, ethical and contractual compliance

Improve visibility of research data and code

Optimize for choice of infrastructure

Support good planning practice

Award of grants

Tools:
- Platforms, eg. DMPonline, mix of infrastructures
- Teaching and/or workshops
- Self guidance
- Facilitate and inspire co-creation
Collaboration

Why collaboration between the CRIS and DM teams?

- Data Monitor (concrete cause)
- Data should be FAIR (CRISs help with the (re) F - findable)
- CRIS is a goldmine of information and relations – very useful for DM work, where you need very specific knowledge about the researcher and the research process (policies, ethics, work process, data format, file format, file size etc.)
- CRIS focus on output and impact, whereas DM must be involved in the research process – CRIS can inform that work however
- Necessity?: We cover different PIDs
Approach

- Understand and foster innovation
- Architectural innovation as a concept
- Allow for creative destruction
- Network effects

We are re-thinking the CRIS both as a platform, and as a team of competences

- Facilitate **digital absorptive capacity**
  - Technological options and data driven
  - DevOps and the agile mindset
  - Scalability and the exponential mindset
  - Ultra personalization

- Understand and design for **human behaviour**
  - Behavioral economics
  - Trigger based actions
  - Progressive profiling

- Understand and challenge **inertia**
  - Structural
  - Dominating logic
  - Negative capability and need for reflexivity
Approach

Move in a more non-deterministic direction

- Data Management Plan
  - DMP => maDMP

CRIS

ELN

Library resources

A new workflow to easy visibility of current research

New recommender services
Conclusion

- Do we want to innovate? Yes! – but we must understand it, and facilitate it
- Expanding and reframing the puzzle of services
- Shared purposed and mutual understanding for authentic purpose is key to integrative approach
- The innovative support of realization of Open Science lies in a joint venture
- CRIS as master data for data management and vice versa and openness to technical and semantic integration - and uncertainties.
- Discuss capabilities in each team and in conjunction
- New approach to explore the potentials in collaboration.
  Idea; explore Data Management Planning for O.S. utilizing the CRIS platform. TBD.
References


https://doi.org/10.2307/2393549
