

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

Business as Usual?

Karsten Kryger Hansen and Poul Melchiorson – EuroCRIS 2022
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AALBORG
UNIVERSITY

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 ⁹
- 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 publicing"^{3,4}
- "Increased time writing proposals [for funding] and **less time** gathering and thinking about data."¹
- "**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.

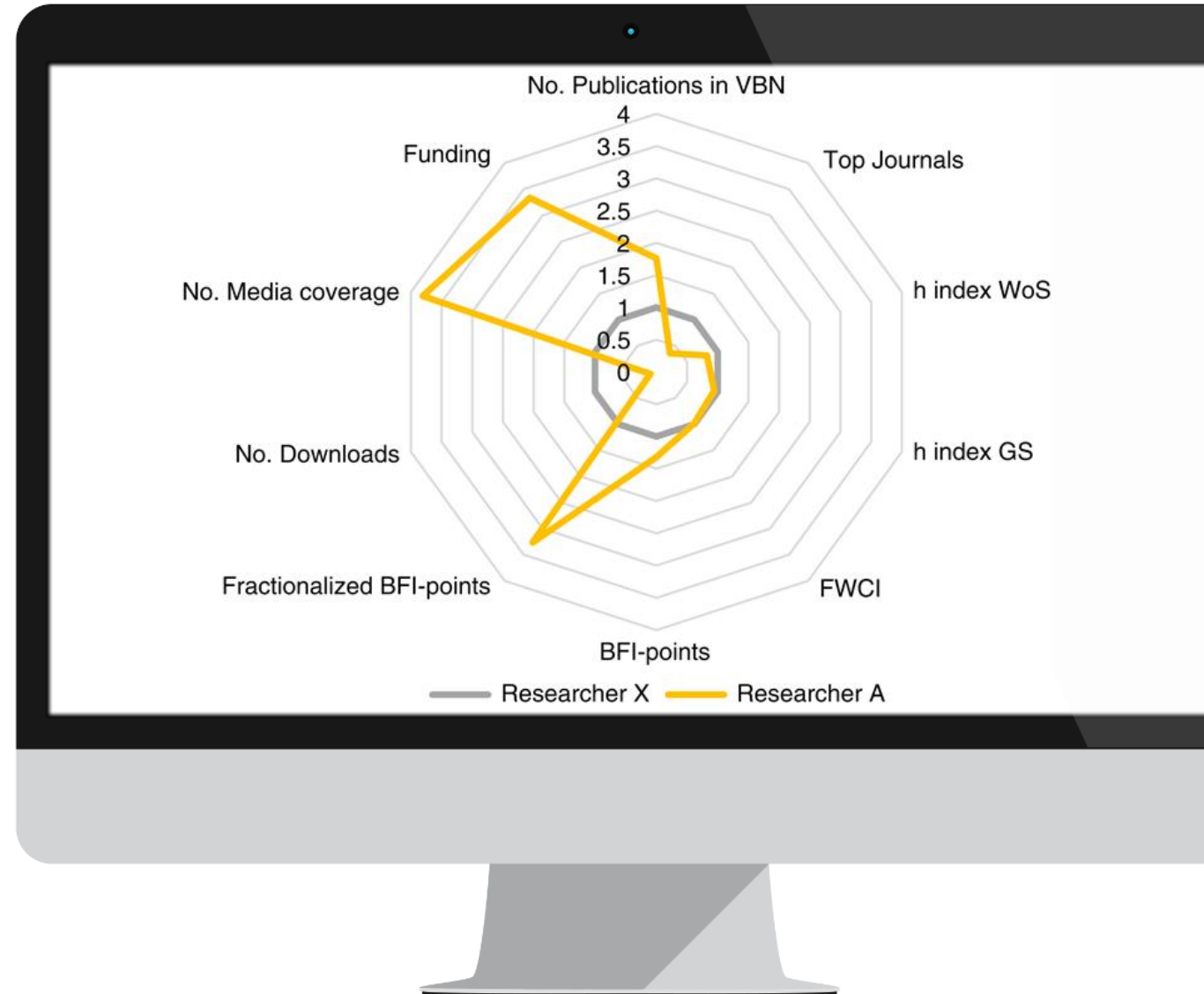


A FAKE STORY IN A TRUSTWORTHY GUIDE
TO THE FAIR PRINCIPLES FOR RESEARCH DATA.

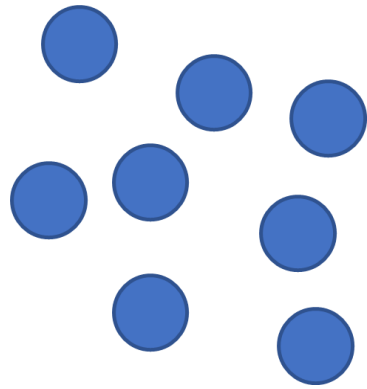
VBN CRIS

"Products"/Focus

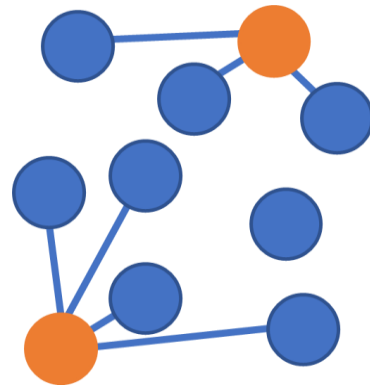
- Beyond coverage and multiple dimensions⁶
- Impact registration
- Data Monitor (in collaboration with CLAAUDIA)



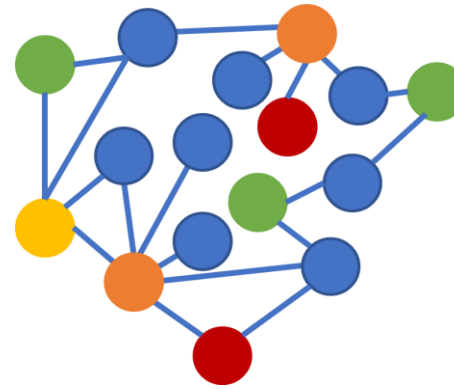
VBN CRIS Focus/Products - Research evaluation/registration is/has become multidimensional⁵



Publication List



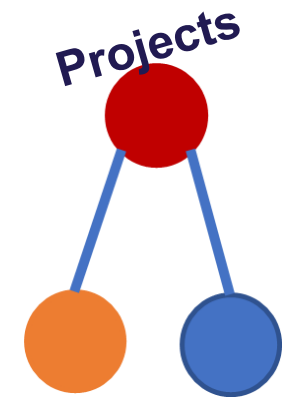
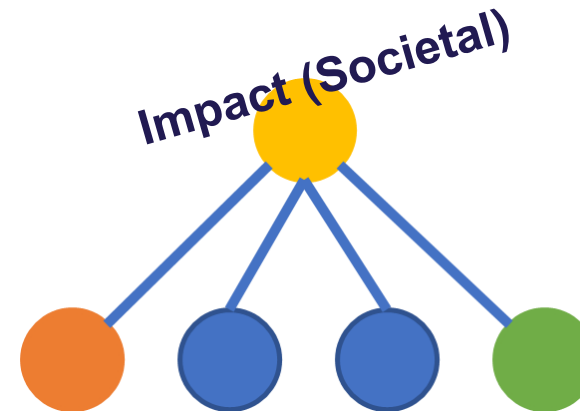
Publications per
Organisation



More Content
Types Related



A History of CRISs



VBN CRIS Focus/Products

Impact and Data Set Registration

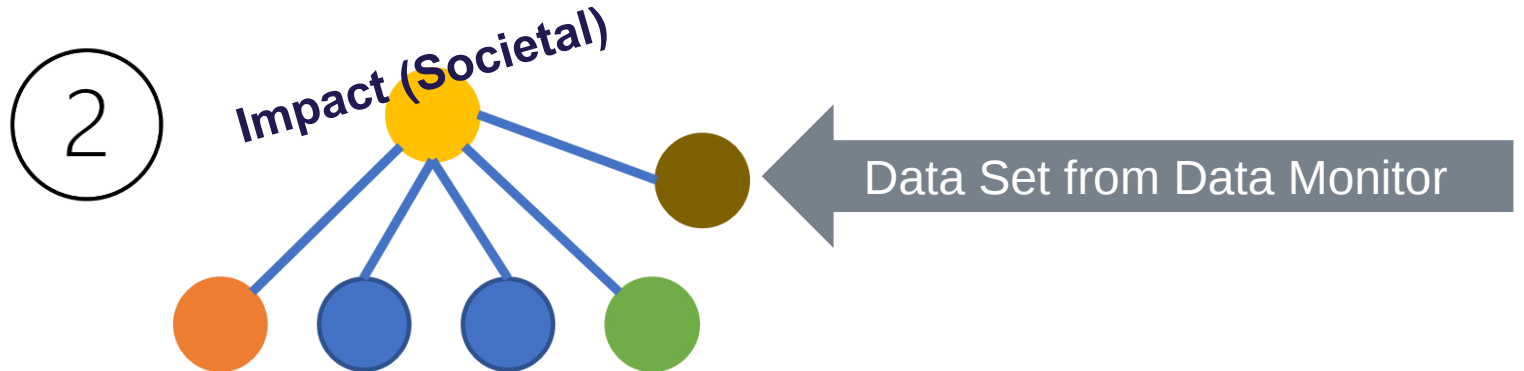
Impact registration

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

1

3

Non- incremental
evolution



CLAUDIA

RESEARCH DATA SERVICES

- 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:

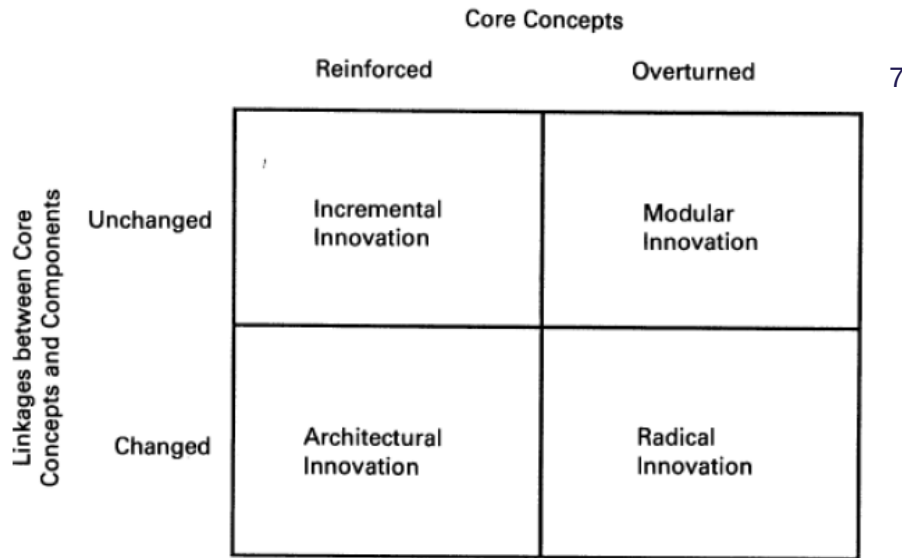
- Platforms, eg. DMPonline, mix of infrastructures
- Teaching and/or workshops
- Self guidance
- Facilitate and inspire co-creation



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

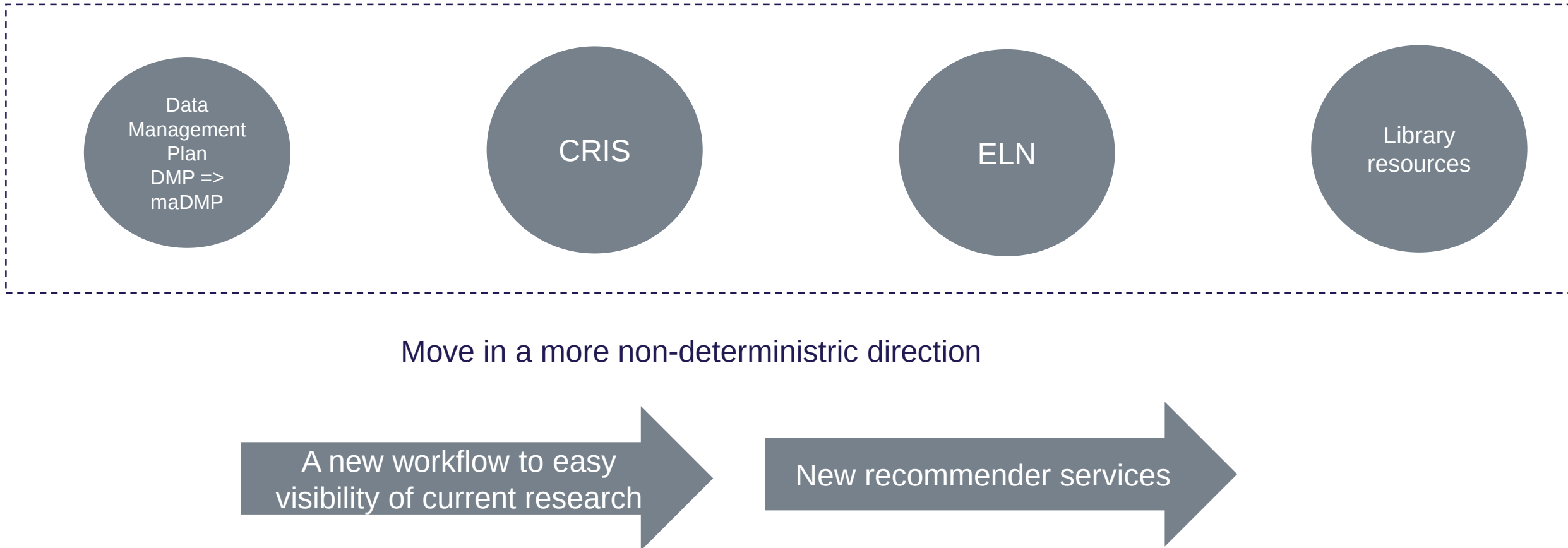


- Understand and challenge **inertia**
 - Structural
 - Dominating logic
 - Negative capability and need for reflexivity

- 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

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

Approach



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.

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