Data Management Plans in Academy of Finland

3 October 2018, Jyrki Hakapää

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Academy of Finland in a nutshell

Key public funding agency for scientific research, major player in science policy in Finland

Strategic Research Council

Research funding budget 2017

€444m

Finnish Research Infrastructure Committee

136 employees

- to support scientific research
- to improve framework conditions for research

Four research councils

- Research Council for Biosciences and Environment
- Research Council for Culture and Society
- Research Council for Natural Sciences and Engineering
- Research Council for Health

Part of our funds come from proceeds of Finland's national gaming company Veikkaus. In 2018, these proceeds account for 70.7 million euros of our total funding for scientific research.

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What we do

We review funding applications and make funding decisions

We draft science policy lines and statements, engage in science policy debate

We conduct scientific and research foresight and impact analysis:

- State of Scientific Research in Finland
- impact assessment
- foresighting

We fund framework conditions for research and research environments (infrastructures and university research profiles)

We influence European and Nordic science policy

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Strategy

- Vision: “[…] The Academy is committed to supporting high quality, high impact and responsible research […].

- Implementation: “[…] The Academy of Finland promotes high quality, high impact and responsible research as well as the practical application of this research and the knowledge and skills it generates. […]”

- Links:
  - Strategy & Implementation: http://www.aka.fi/en/research-and-science-policy/strategy/
  - Responsible Research: http://www.aka.fi/en/funding/responsible-research/

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Research Data: Funding Decisions and Use of Funding

- Science policy issues for decision making include responsible research:
  - “We require that Academy-funded projects commit to open access publishing. We also work to promote open access to research data and methods. The goal is to make research publications, data and material, metadata and methods widely available for reuse.”
- Open science at Academy of Finland:
  - “We require that principal investigators of Academy-funded research projects see to that the projects’ data are stored and made available through major national or international archives or storage services that are important in the fields concerned. The degrees of data openness may justifiably vary, ranging from fully open to strictly confidential.”

- Links:
  - http://www.aka.fi/en/review-and-funding-decisions/funding-decisions/decision-criteria/
  - http://www.aka.fi/en/funding/responsible-research/open-science/

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Open Science in Applications

Data management plans required

Openly available research results required
- Peer-reviewed articles (others recommendable)

To improve the overall quality and impact of research and promote good scientific practice

Open data and methods required
- Depends on research ethics & law

Funding for publishing costs provided
- gold, hybrid

Recommended archives and storage services
- FSD, FIN-CLARIN, CERN Zenodo, EUDAT, AVAA, Etsin, IDA

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Data Management Plan – an Appendix of the Application

- Structure of data management plan
  1. General description of data
  2. Ethical and legal compliance
  3. Documentation and metadata
  4. Storage and backup during the research project
  5. Opening, publishing and archiving the data after the research project

- The plan should not be longer than 1–2 pages.
- Further instructions: http://www.aka.fi/en/funding/how-to-apply/appendices-required/guidelines-for-data-management-plan/

- Research plan includes closer explanation on why and how planned data is collected and used.

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Data management planning tool DMPTuuli

- https://www.dmptuuli.fi/

- Simple digital tool for writing DMP
- National network for developing national DMP form

- Besides the DMP form, it includes national, Academy's, universities' and data archives instructions on:
  - what kind of issues researchers need to think
  - examples for answers (Academy does not provide such examples)

- Applicants do not need to use DMPTuuli.

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Review Questions

1. Scientific quality and innovativeness of research plan
2. Implementation of research plan
3. Responsible Science (no numerical rating)

   Guiding questions: Are there any ethical issues involved and, if so, how are they taken into account? What is the intended level of open access to research results? **Does the data management plan responsibly support the reuse of research data?** How does the project promote equality and non-discrimination within itself or in society at large?
4. Competence of applicant(s), quality of research collaborations
5. Research team, significance of research collaborations
6. Researcher mobility

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Experiences

- Since 2015 more than 10 000 applications include DMP
- In 2015 feedback from reviewers

  - Importance of the issue is understood, mostly principally but in certain areas also practically ; the importance of the issue as part of the scientific evaluation work remained yet unclear in many disciplines.

    -> since 2018 new effort to evaluate ”responsible research”, not separate ethical and open science issues.

  - How to evaluate such an issue – how to choose evaluators?

    -> part of regular research process

    -> which is better, regular and common or individual DMPs?

- Several universities now stress the importance of open research data ansd help their researchers on this matter.
- How to continue the use of DMPs once the project begins?
- Final report in process.

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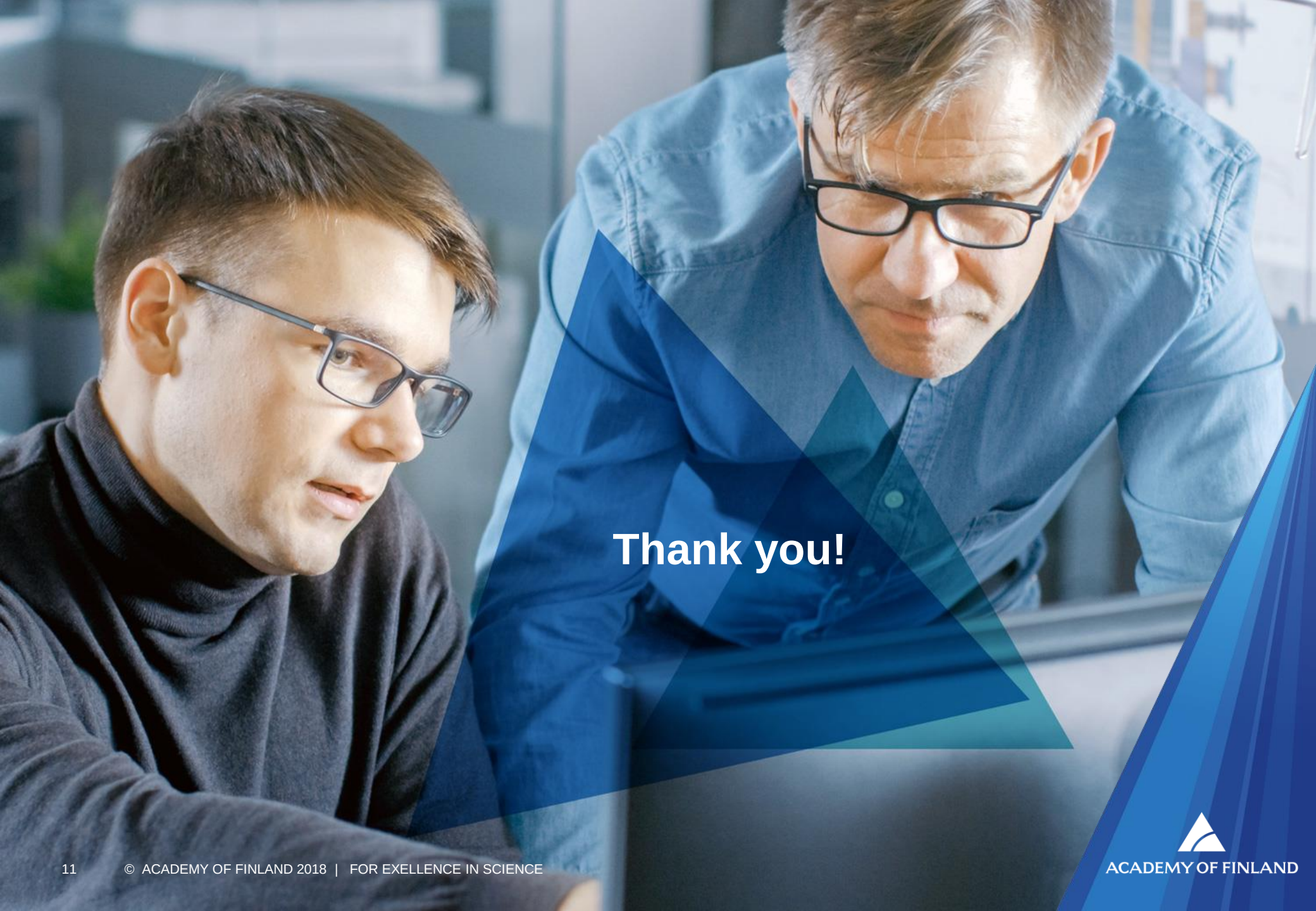

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