#### **National Coordination Open Science - NL**

Karel Luyben National coordinator on Open Science MEETING ON 'OPEN SCIENCE COORDINATION' HELSINKI, OCTOBER 21, 2019









As a matter of principle, it is important that society as a whole should benefit from publicly funded research. An innovative open model needs to be developed to enable target audiences such as SMEs, municipalities and the 'ordinary citizen' to access research results.

Moreover, Article 27 of the Universal Declaration of Human Rights provides that "Everyone has the right (...) to share in scientific advancement and its benefits" (United Nations, 1948)

## **Open Science Declaration**

#### 9 February 2017, The Hague Presentation of the National Plan Open Science

#### Assuming that open science

- is a transition which is taking place throughout the world's scientific community;
- offers great benefits for scientists in terms of research, education and valorisation;
- fosters the quality of scientific practice;
- gives people and organisations access to research and research data and enables them to contribute to it; and
- strengthens the innovative capacity of the Netherlands.

#### Noting that

- joint and coordinated action is required at national and international level to ensure the transition runs smoothly for researchers and other parties involved; and
- the Netherlands can play a guiding role in the transition.

#### We declare that we shall contribute to the transition towards an open science system in the Netherlands by

- taking measures to ensure that the ambitions in the National Plan Open Science, which require the active engagement of our organisations, are implemented; and
- participating actively in the National Platform Open Science.

### WHAT $\rightarrow$ ambitions

## **Key ambitions**

- Full open access to publications in 2020
- To make research data optimally suited for reuse
- Recognition and rewards for researchers and proposals
- To promote and support Open Science optimally

## HOW → governance

- Steering Committee of signees of declaration (chaired by the Ministry of Education)
- National coordinator for Open Science
- Open Science Platform
- Theme groups
- Secretariat

#### **National Platform**





## **Dutch relevant issues**

- Open access support
- Data services infrastructure
- Data-stewards (curriculum; programmes)
- Step-up in effort ('shift gear')
- Financing the transition

Confidence in the future of open science in the Netherlands

"Open science and open access become the norm in scientific research."

Coalition Agreement 2017 - 2021







# **BACK-UP**





#### **OPEN DATA OR FAIR DATA**



FAIR = Findable; Accessible; Interoperable; Reusable

#### **National Data Services Infrastructure**

Coordination team ~ 40 'data stewards'

Countrywide expert netwerk ~ 400 institutional 'data stewards'

e-Infrastructure and e-science experts at SURF, NLeSC, DANS plus institutional ICT/data centres

#### **NL Data Services Infrastructuur MS**

- Coordinating national Health-RI team
  - ~ 10 'data-stewards' (BBMRI/ELIXIR)
- Network of 'data stewards' in institutes & infrastructures
- Web of (FAIR) health/biomedische data collecties

MS domein

Health-RI

e-infrastructure and e-science experts at SURF, NLeSC, DANS plus institutional ICT/data centres

#### **NL Data Services Infrastructuur SSH**

Coordinating national team

domen

- ~ 10 'data-stewards' (CLARIAH/ODISSEI, ... )
- Network of 'data stewards' in institutes & infrastructures
- Web of (FAIR) data collections in SSH domain

e-infrastructure and e-science experts at SURF, NLeSC, DANS plus institutional ICT/data centres

The EOSC is projected to become a reality by 2020 and will be **Europe's virtual** environment for all researchers to store, manage, analyse and re-use data for research, innovation and educational purposes.

European Open Science Cloud New Research & Innovation Opportunities



#### **General recommendations in Europe**

- 1. Appoint **national coordinators** and task forces for the implementation of Open Science.
- 2. Ensure the scholarly infrastructure in Europe is highly **interoperable** to enable the simple and open sharing of metadata between systems, disciplines and countries, and that credit for research contributions is given to all participants. This will need all actors to require the use of standardised, unique persistent identifiers for researchers and outputs, and for the acknowledgement of diversity in researcher contributions. Components of the ecosystem (identifiers, metadata, vocabularies, data citations, repositories and other data-infrastructures) need to be developed where necessary, refined, standardized and implemented through dialogue with relevant research communities.
- 3. Ensure the HR Strategy for Researchers practices and FP9 evaluation reflect the principles required to effectively **embed a culture of Open Science at the institutional level**. These must involve research integrity (including the social, ethical and legal implications), researcher evaluation and the public availability of research outputs.
- 4. Foster Open Science literacy as essential to European competitiveness, together with other digital and information competencies. Member States need to secure support for the development of an accredited curriculum for Open Science skills training that fosters Open Science behaviours, from primary school through the whole educational system.
- 5. Implement a Europe-wide campaign, coordinated by the EC, to raise awareness and communicate the benefits of Open Science among decision makers, research and education bodies, private sector, industrial and citizen organisations.



All authors must make their data and software (i.e. excluding, if relevant, data owned by third-parties, etc) appearing in their open access publications FAIR (Findable, Accessible, Interoperable and Reusable). To this end, a key requirement is deposition in a trusted repository that adheres to FAIR principles. In addition, all publications must include a statement of FAIR compliance for the source data underpinning their claims and the licence for its reuse.

#### **Functional requirements for NCOS**

- scientist with leadership experience and involved in the international developments of open science
- able to take the different needs of different disciplines into account
- authority in the platform and an 'icon' for the (external) stakeholders
- knowledge of the different themes and their relationship
- able to enthuse researchers and board members for the open science developm
- taking responsibility for realising the open science ambitions
- linking the different subsystems in the Netherlands together
- actively involved in setting the national agenda on open science
- knowledgeable about the (inter)national developments in open science
- mandate to actively steer the four theme groups and inform the steering commination and platform