

# European Commission policy on open access

## **Caroline COLIN**

### Digital Science Unit DG CONNECT caroline.colin1@ec.europa.eu

Gent, 18 Nov. 2015 – OpenAIRE Workshop



## What is open access (OA)?

- OA = online access at no charge to the user
- to peer-reviewed scientific publications
- to research data (includes re-use)

## Why open access?



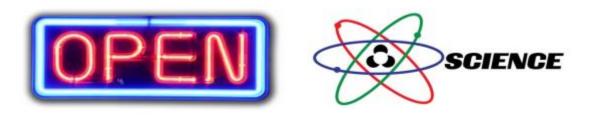
- To optimise the impact of publicly-funded research
- Expected benefits of open access:
  - Good for science: efficiency, verifiability, transparency
  - Good for the economy: access and take-up by industry
  - Good for society: broader, faster, transparent and equal access for citizens



## **Broader context: Open Science**

- The transformation and opening up of science and research through ICT
- Expected impacts:
  - Make science more efficient, transparent, interdisciplinary
  - Enable broader societal impact and innovation.
- Areas: open access, citizen engagement,

e-infrastructure, research assessment and metrics, ...





### **Commissioner view**



Carlos Moedas, Commissioner for Research, Science and Innovation



Günther Oettinger, Commissioner for Digital Economy and Society

"Open science is [...] about making sure that science serves innovation and growth. It guarantees open access to publicly-funded research results and the possibility of knowledge sharing [...]."

Blog post by Commissioners Oettinger and Moedas (22 June 2015): Open science for a knowledge and data-driven economy

https://ec.europa.eu/commission/2014-2019/oettinger/blog/open-science-knowledgeand-data-driven-economy\_en



## **Priorities of Commissioner Moedas**

- Open Innovation
- Open Science
- Open to the world





## **Open access in Horizon 2020**





## **Open Access to Publications**



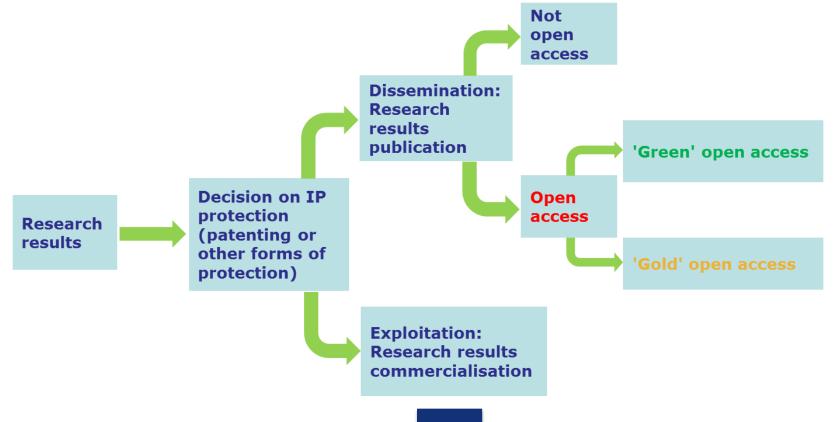






## What OA is NOT

- Not an obligation to publish
- Not at odds with patenting (see graph)
- Not of lower quality (peer review process)





## **OA to publications mandate in H2020**

## Each beneficiary must ensure OA to all peer-reviewed scientific publications relating to its results:

- **Deposit** a machine-readable copy of the published version or final peer-reviewed manuscript accepted for publication in a repository of the researchers choice (possibly OpenAIRE compliant)
- **Ensure** OA on publication or at the latest within 6/12 months
- **Ensure** OA to the bibliographic metadata that identify the deposited publication, via the repository
- Aim to deposit at the same time the research data needed to validate the results ("underlying data")



## OA to publications mandate in H2020

#### **Routes towards OA:**

- OA publishing/gold and self-archiving/green considered valid and complementary routes
- **Self-archiving**: 'traditional' publication plus deposit of manuscripts in a repository ('Green OA')
  - Both versions contain the same peer-reviewed content, but may be differently formatted
- OA publishing: immediate OA provided by publisher ('Gold OA') usually, but not always, 'Author-pay' model (APC) some journals offer both subscriptions and open access publishing to selected on-line articles (hybrid journals)
- Deposit into a repository also in the case of OA publishing



## **OA to publications mandate in H2020**

### Licencing:

• Encouragement to authors to retain their copyright and grant adequate licences to publishers (e.g. Creative Commons)

### **Costs for OA publishing:**

- Eligibility of OA publishing costs during the grant (as in FP7)
- FP7 post-grant Open Access publishing funds pilot



## FP7 post-grant Open Access publishing funds pilot

• 24 month-subproject of OpenAIRE 2020

(https://www.openaire.eu/goldoa/fp7-post-grant/pilot)

- Mechanism to support gold open access after end of grant
- Budget: €4 million
- FP7 publications
- For publications published up to two years after project end
- Up to three peer-reviewed publications per project
- OA monographs are eligible
- 2000 euros per publication; No hybrids
- The pilot started its operation on June 1, 2015. It is therefore too early for a statistically significant analysis.



## **Open Access to Research Data**





## Pilot on Open Research Data in H2020

### **Key questions:**

### Which thematic areas are covered?

What data is covered?

What are the requirements?

What about data management?



## Pilot on Open Research Data: Scope(1)

## Areas of the **2016-2017** Work Programme participating in the Open Research Data Pilot are:

- Future and Emerging Technologies
- Research infrastructures (new: coverage of the whole area)
- Leadership in enabling and industrial technologies Information and Communication Technologies
- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology: 'nanosafety' and 'modelling' topics (new)
- Societal Challenge: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy - selected topics as specified in the work programme (new)



## Pilot on Open Research Data: Scope(2)

### Continued

- Societal Challenge: Climate Action, Environment, Resource Efficiency and Raw materials – except raw materials
- Societal Challenge: Europe in a changing world inclusive, innovative and reflective Societies
- Science with and for Society
- Cross-cutting activities focus areas part Smart and Sustainable Cities (moved from Energy WP)

## **Projects in other areas are encouraged to participate on a voluntary basis**



## **Pilot on Open Research Data: Opt-out**

## **Projects may opt out of the Pilot on Open Research Data in Horizon 2020 in a series of cases (submission stage):**

- If the project will not generate / collect any data
- Conflict with obligation to protect results
- Conflict with confidentiality obligations
- Conflict with security obligations
- Conflict with rules on protection of personal data
- If the achievement of the action's main objective would be jeopardised by making specific parts of the research data openly accessible (to be explained in data management plan)

#### Participation in the Pilot is not part of the project evaluation

#### **Opting out during project also possible**

Being in the Pilot does not mean opening all data



## Pilot on Open Research Data: requirements

### **Types of data concerned:**

- Data needed to validate the results presented in scientific publications ("underlying data")
- Other data as specified in data management plan (=up to projects)

### **Beneficiaries participating in the Pilot will:**

- Deposit this data in a research data repository of their choice
- Take measures to make it possible to access, mine, exploit, reproduce and disseminate free of charge
- Provide information about tools and instruments at the disposal of the beneficiaries and necessary for validating the results (where possible, provide the tools and instruments themselves)

### **Approach: as open as possible, as closed as necessary**



## **Data management in Horizon 2020**

- Data Management Plans (DMPs) mandatory for all projects participating in the Pilot, optional for others
  - DMPs are NOT part of the proposal evaluation
  - To be generated within first 6 months of project, updates as needed
- DMP questions (EC template):
  - •What data will be collected / generated?
  - •What standards will be used / how will metadata be generated?
  - •What data will be exploited? What data will be shared / opened?
  - •How will data be curated and preserved?
- DMP: tool to determine what datasets can/cannot be open



## **Data management in Horizon 2020**

- Which tool ?
  - DMPonline (developed by Data Curation Centre, UK): helps create a DMP based on the EC template
  - mid-term view: a EC DMP tool ? under discussion
- Costs for data management
  - eligible costs as part of Horizon 2020 research grants; no extra money assigned to them
  - art. 6.2.D.3 of the Annotated Model Grant Agreement refers to "costs of other goods and services"
  - including dissemination costs i.e. notably costs related to data maintenance or storage

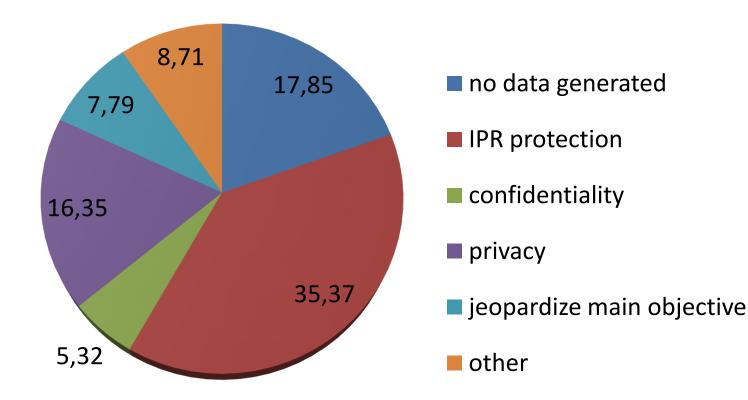


## ORD Pilot: take-up in first calls of H2020

- Basis: 3699 Horizon 2020 signed grant agreements
- Calls in core-areas: **opt out 34,6%** (149/431)
  - → In other words 65,4% of projects in the core areas participate in the ORD pilot.
- Other areas: voluntary **opt in 11,9%** (409/3268)
- → Limited divergence from 2014 proposal figures but larger dataset used
- → Note that 100% participation is not feasible or even desirable (e.g. not all projects generate data)



## ORD Pilot: opt-out reasons among proposals





## **ORD Pilot: a chance to co-shape policy**

- Opening up research data: the new frontier
- Ambitious, yet pragmatic design of the pilot: broad scope, optout, voluntary participation possible
- Pilot is flexible; numerous safeguards in place
- Aim: kick-starting a virtuous circle
- Uptake of and experiences with the Pilot need to be monitored during the complete life cycle of a project: from application, to grant preparation, execution and final reporting
- Participating in the Pilot means co-shaping European policy on opening up research data





H2020 Guidelines:

Open access: http://ec.europa.eu/research/participants/da ta/ref/h2020/grants manual/hi/oa pilot/h20 20-hi-oa-pilot-guide\_en.pdf

Data management: http://ec.europa.eu/research/participants/da ta/ref/h2020/grants\_manual/hi/oa\_pilot/h20 20-hi-oa-data-mgt\_en.pdf



**Resources** Publications:

- List of publications repositories: <u>http://www.opendoar.org/</u>
- List of publisher policies: <u>http://www.sherpa.ac.uk/romeo/</u>
- Directory of OA journals: <u>https://doaj.org/</u>
- Zenodo <u>http://zenodo.org/</u> (OpenAIRE)

#### **Research Data:**

- List of research data repositories: <u>http://www.re3data.org/</u>
- B2Share <a href="http://eudat.eu/services/b2share">http://eudat.eu/services/b2share</a> (EUDAT)
- Zenodo <u>http://zenodo.org/</u> (OpenAIRE) focus on link with publications, communities

#### **Data Management Plan:**

 Digital Curation Centre <u>https://dmponline.dcc.ac.uk/</u>, <u>http://www.dcc.ac.uk/resources/data-management-plans</u>. Other institutions developing tools. EC resources are being developed.



## Thank you !