



# Open Access and Open Research Data in Horizon 2020

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**22 November 2013 – Train the Trainer for H2020**

**European Consortium of Innovative Universities**

# What is open access?

***OA = online access at no charge to the user***

- to peer-reviewed scientific publications
- to research data

***For publications: two main OA publishing business models***

- **Green OA**: deposit of manuscripts / usually **delayed OA** provided by author / repositories
- **Gold OA**: costs covered (e.g. by 'authors') / **immediate OA** provided by publisher / publisher website

***OA is not an obligation to publish***

***OA is not at odds with patenting***

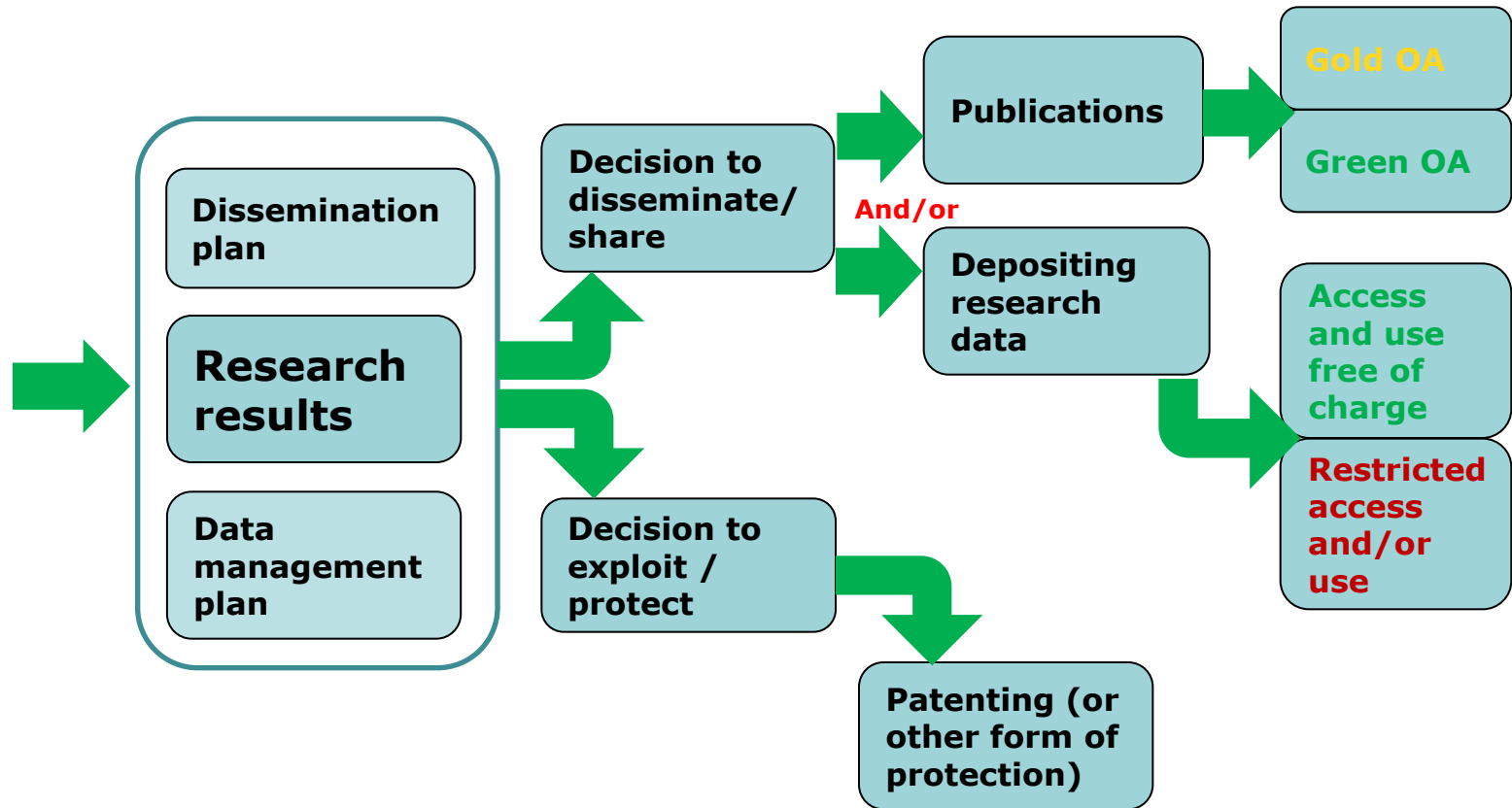
***OA publications go through peer review process***



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# OA in context: Dissemination & exploitation of research results

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# Why open access (OA)?

***Goal: to optimise the impact of publicly-funded research and innovation***

***How?*** Open access to publications and research data resulting from EU-funded research / e.g. H2020

***Expected impacts of open access:***

- Better science (build on previous results)
- More efficient science (avoid duplication & promote re-use)
- Economic growth (accelerated and open innovation)
- Improved transparency (involving citizens & society)

**Political basis: Scientific Information package (Communication & Recommendation to MS), July 2012**

# Open access to **publications**: from **FP7** to **Horizon 2020**

## **Open access Pilot in FP7**

- 'Best effort' to provide OA
- 7 areas
- Peer-reviewed publications
- Allowed embargos: 6/12 months
- Green and Gold OA supported



## **Open access *mandate* in H2020**

- **Obligation** to provide OA to publications
- **All areas**
- Peer-reviewed publications
- Allowed embargos: 6/12 months
- Green and Gold OA supported (gold: reimbursement during project; piloting for costs after project end)
- **Beneficiaries must aim to deposit the research data needed to validate the results presented in publications ('underlying'/'linked' data)**

# Open Research Data Pilot

- **Scope :**
  - specific areas of the WP2014-15 participating (TBD)
  - voluntary participation for all other projects
- **Two-step requirement:**
  1. deposit in a data repository
  2. best-effort requirement to open up data
- **Opt-out clause:** "opt-out of openness" if:
  - need for confidentiality for commercial reasons
  - need to protect data for privacy reasons
  - need to restrict data for security reasons
  - main project aim contradicted by opening data
- **Incentives:**
  - costs related to pilot are eligible for reimbursement
  - dedicated support services through eInfrastructures WP



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# Infrastructure support: **OpenAIRE**



[www.openaire.eu](http://www.openaire.eu)

*Started as an infrastructure for the EC FP7 Open Access Pilot (covering 20% of FP7 funding)*

- **Harvests information of the whole FP7 publication output and generates relevant statistics (currently: 41000+ publications; 16000+ OA publications)**
- **Helpdesk & contact points in the EU Member States**
- **Repository for 'homeless' publications (Orphan repository)**
- **Is prepared to provide same support for H2020 including the Open Data Pilot (+ automatic data exchange with EC)**

*Expected to become a legal entity*

# Data management in Horizon 2020

- **Data Management Plans (DMPs):**
  - Mandatory for all projects participating in the pilot, invited where relevant for all others
  - What data will be collected / generated?
  - What data will be shared / made open?
  - How will metadata be generated?
  - How will data be curated and preserved?
  - Etc.



## In summary

- **Open access:** means improving efficiency, quality and impact of publicly-funded research for society and innovation in Europe.
- **Open access to publications:** a general principle in H2020. Both **Green** and **Gold** open access models are promoted. Depositing underlying data is encouraged.
- **Open access to data :** a pilot in H2020 will test and monitor analyse experiences.
- **Open access policy** is not a goal in itself, but an element in promoting digital science practices for future research, education and innovation



# Open Access and Open Research Data in Horizon 2020

**Thank you!**

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# OA Policy Context: Digital Science

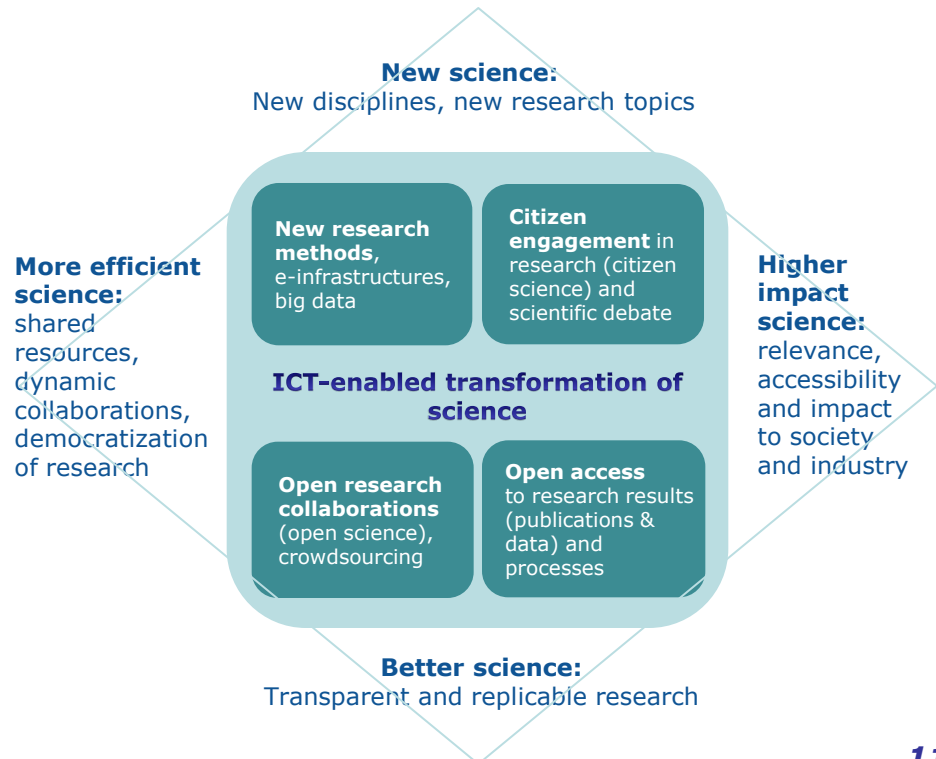
**Digital science** is about making science and research more efficient, transparent, better valued and with higher impact through the tools, collaboration models and openness (**Open access = free online access**) made possible by ICT.

## Digital Science in H2020:

- Content: Contribute to developing discipline-specific or generic scientific tools and processes
- Process: Apply modern scientific tools and processes in different topic areas

## Open Access in H2020:

- Mandatory for all publications resulting from H2020 projects
- Open data pilot for specific areas
- E-infrastructure support for OA publications and research data management & sharing



# Open Research Data Pilot

- **Objective:** raise awareness about the value of research data, observe in a large cross-section of the Programme
- Projects participating in the Pilot make the data needed to validate results in publications openly available (**underlying data**)
- Projects participating in the Pilot make **other research data** available on a voluntary basis, as specified in their data management plans