



# JPI OCEANS

Open Science Clinic

Open Marine Science:  
Can we afford not to?

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19. We recognize that ICT developments, the digitisation and the vast availability of data, efforts to push the science frontiers, and the need to address complex economic and societal challenges, are transforming the way in which science is performed towards Open Science paradigms. We agree that an international approach can help the speed and coherence of this transition, and that it should target in particular two aspects. First, the incentives for the openness of the research ecosystem: the evaluation of research careers should better recognize and reward Open Science activities. Secondly, the infrastructures for an optimal use of research data: all researchers should be able to deposit, access and analyse scientific data across disciplines and at the global scale, and research data should adhere to the FAIR principles of being findable, accessible, interoperable, and reusable.

Source: [http://www.g7italy.it/sites/default/files/documents/G7%20Science%20Communiqu%C3%A9\\_1.pdf](http://www.g7italy.it/sites/default/files/documents/G7%20Science%20Communiqu%C3%A9_1.pdf)



*“replace research impact indicators beyond the typical bibliometrics and patenting”*

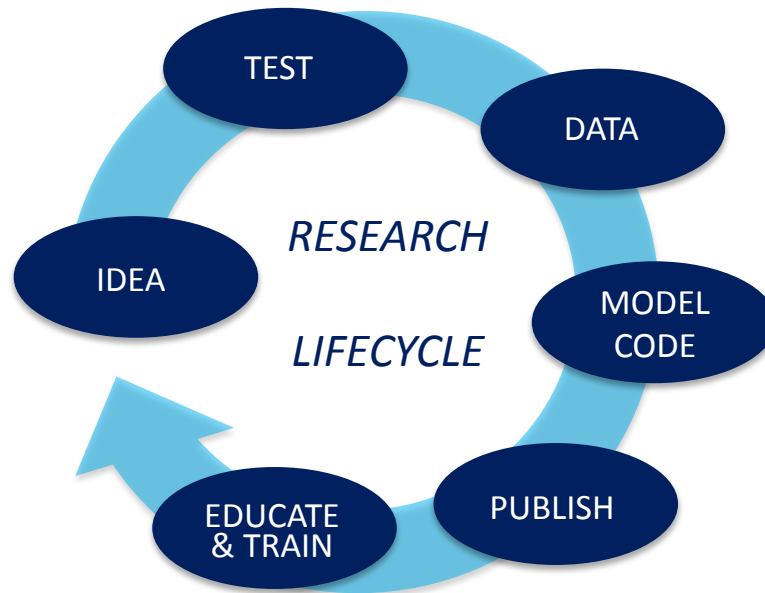
Source: Horizon2020 Societal Challenge 6, WP 2017 “Better integration of evidence on the impact of research and innovation in policy making”  
<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/co-creation-08-2016-2017.html>



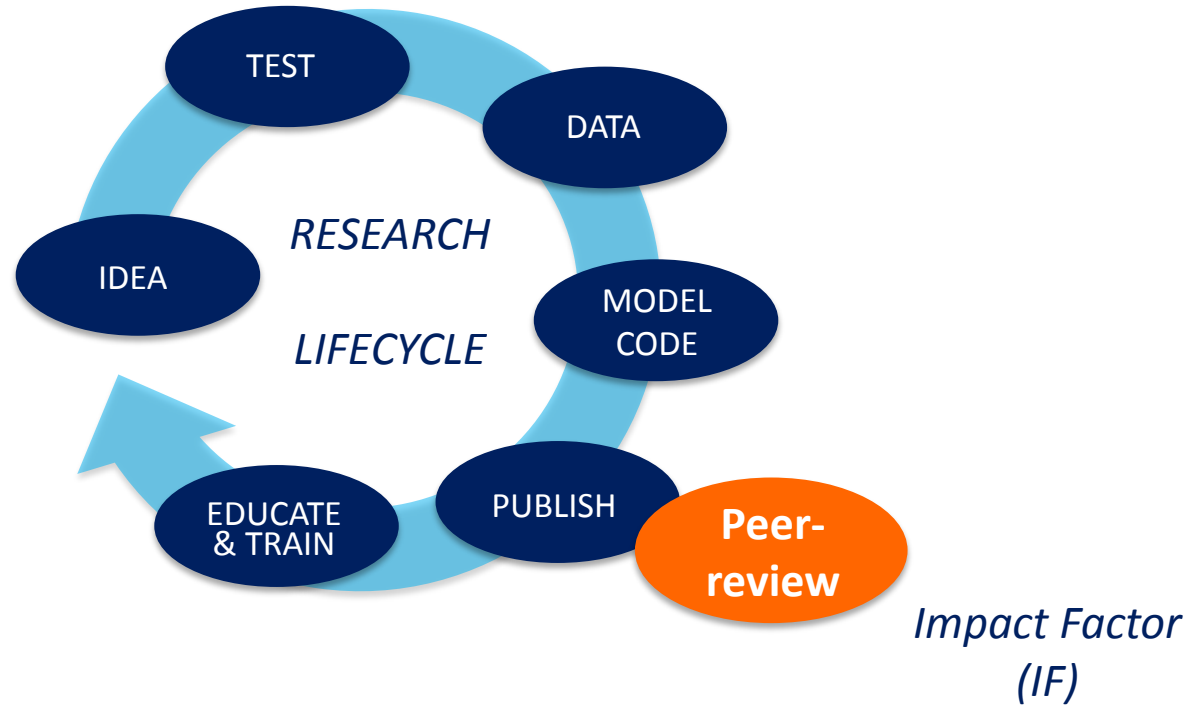
# Please meet some of our 'test subjects':



# What is "Open Science"?

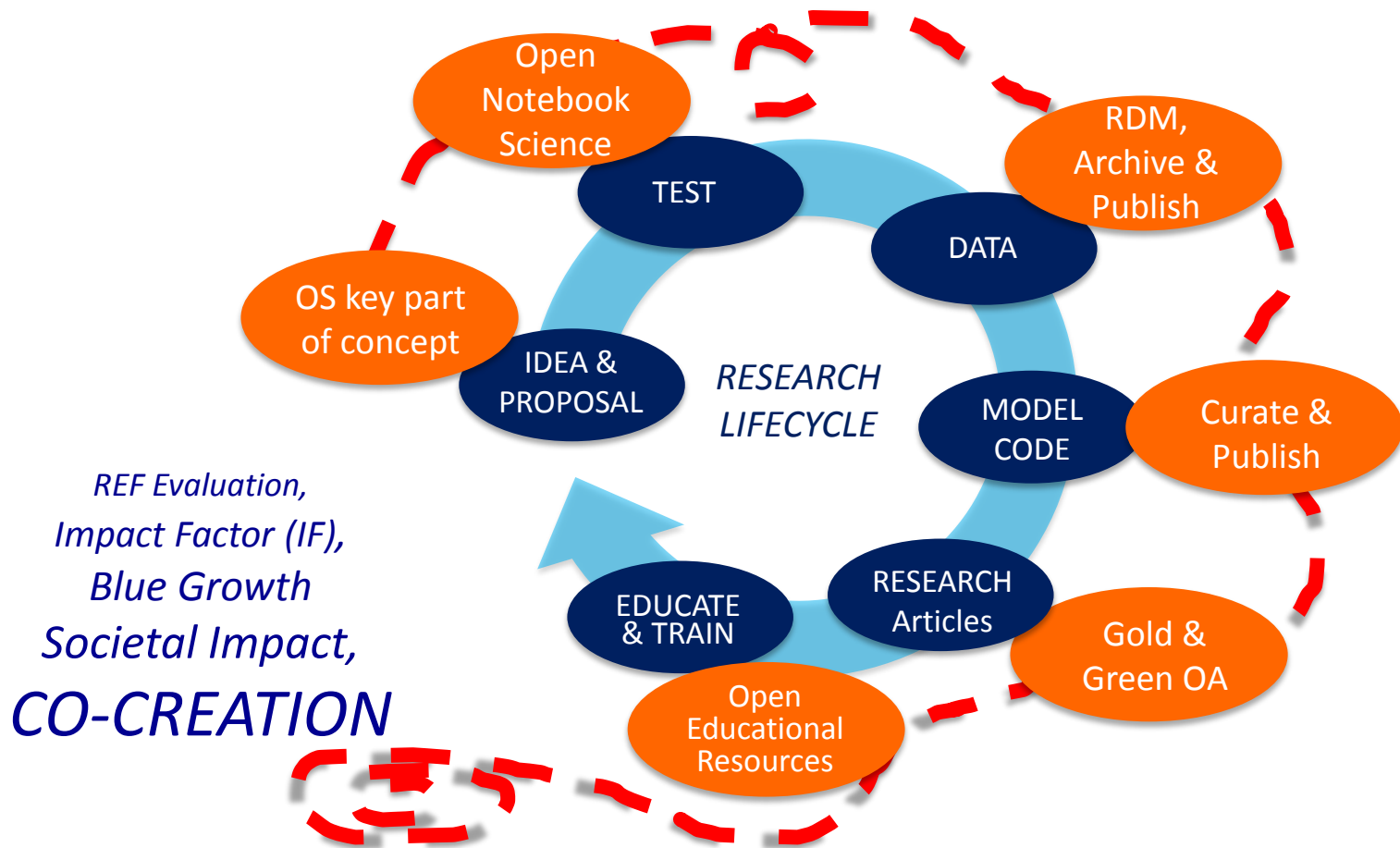


# WHY is "Open Science"?















"Research Cycle" adapted from Tenopir et al., (2011) doi:10.1371/journal.pone.0021101  
<http://www.plosone.org/article/info:doi/10.1371/journal.pone.0021101>

# WHY is "Open Science"?



# Why Open Science in every Grant Proposal?

|  |   |  |
|--|---|--|
| <p>OPEN IN ORDER TO</p>  <p>FACILITATE COLLABORATION</p> <p> whyopenresearch.org #OAweek</p> | <p>OPEN IN ORDER TO</p>  <p>ACCELERATE DISCOVERY</p> <p> whyopenresearch.org #OAweek</p> | <p>OPEN IN ORDER TO</p>  <p>INCREASE ACCESS TO EDUCATION</p> <p> whyopenresearch.org #OAweek</p> |
| <p>OPEN IN ORDER TO</p>  <p>STIMULATE INNOVATION</p> <p> whyopenresearch.org #OAweek</p>   | <p>OPEN IN ORDER TO</p>  <p>EXCHANGE KNOWLEDGE</p> <p> whyopenresearch.org #OAweek</p> | <p>OPEN IN ORDER TO</p>  <p>IMPROVE REPRODUCIBILITY</p> <p> whyopenresearch.org #OAweek</p>    |





# Why Open Science in every Grant Proposal?





*So... does Open Science  
impact at proposal  
EVALUATION*

*(results inc.2017 calls)*

*Based on: Winning Horizon 2020 with Open Science,  
<http://dx.doi.org/10.5281/zenodo.12247>*

# Excellence:

*“reproducibility & EU Charter for Researcher principles essential to method design”*

*“Open Science & Responsible Research & Innovation principles are part of excellent methodology”*

*Source: quotes from EC Evaluators 2014-2017*

*Based on: Winning Horizon 2020 with Open Science,  
<http://dx.doi.org/10.5281/zenodo.12247>*



# Impact:

*“Strengths: extensive dissemination of data to the scientific community (open access, databases)”*

*“Mentoring high school teachers & students is recognised as further professional skill”*

*“research software is freely available”*

*“Open Science training compliments Entrepreneurship & Commercialisation of Research”*

*Source: quotes from EC Evaluators 2014-2017*

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