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INLEIDENDE BESCHOUWINGEN

Tussen bubbel en silo: sporen naar adequate informatie. / Inge Van Nieuwerburgh / 24 nov. 2022

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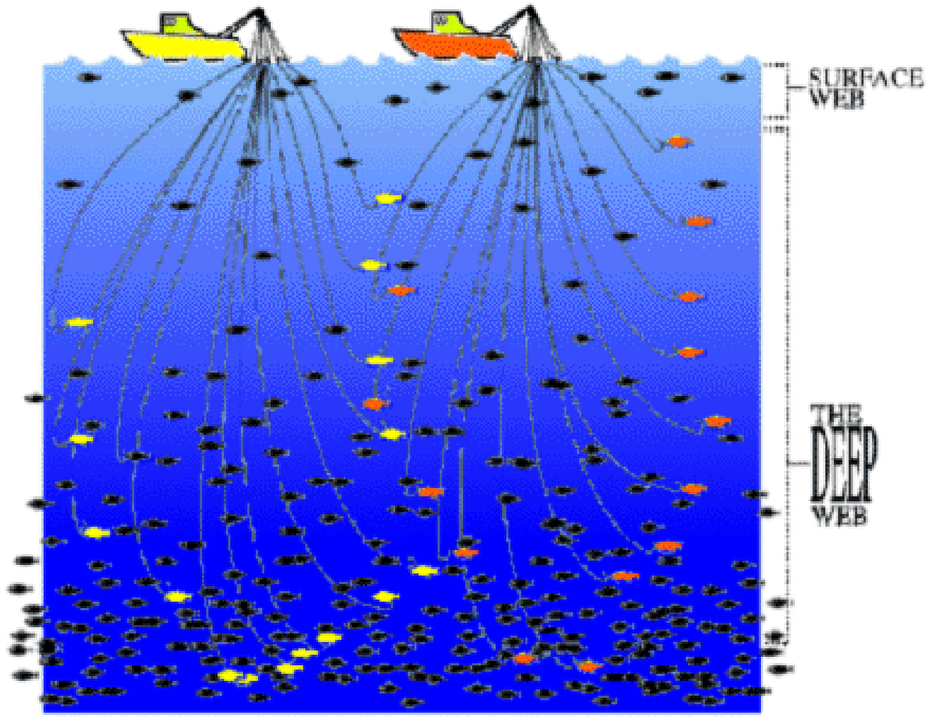

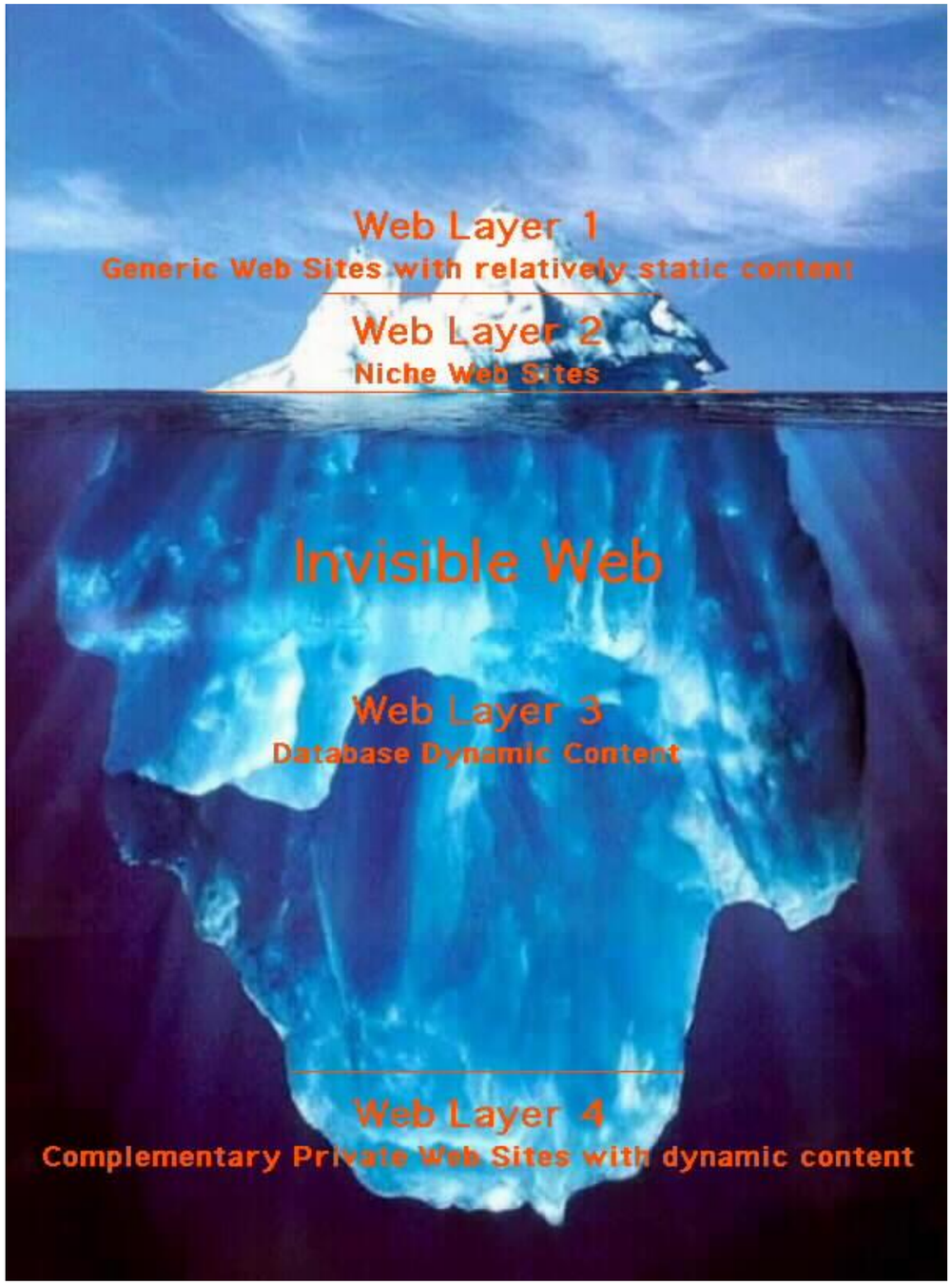

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DILEMMA

Information overload

-

Open science

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OPEN SCIENCE

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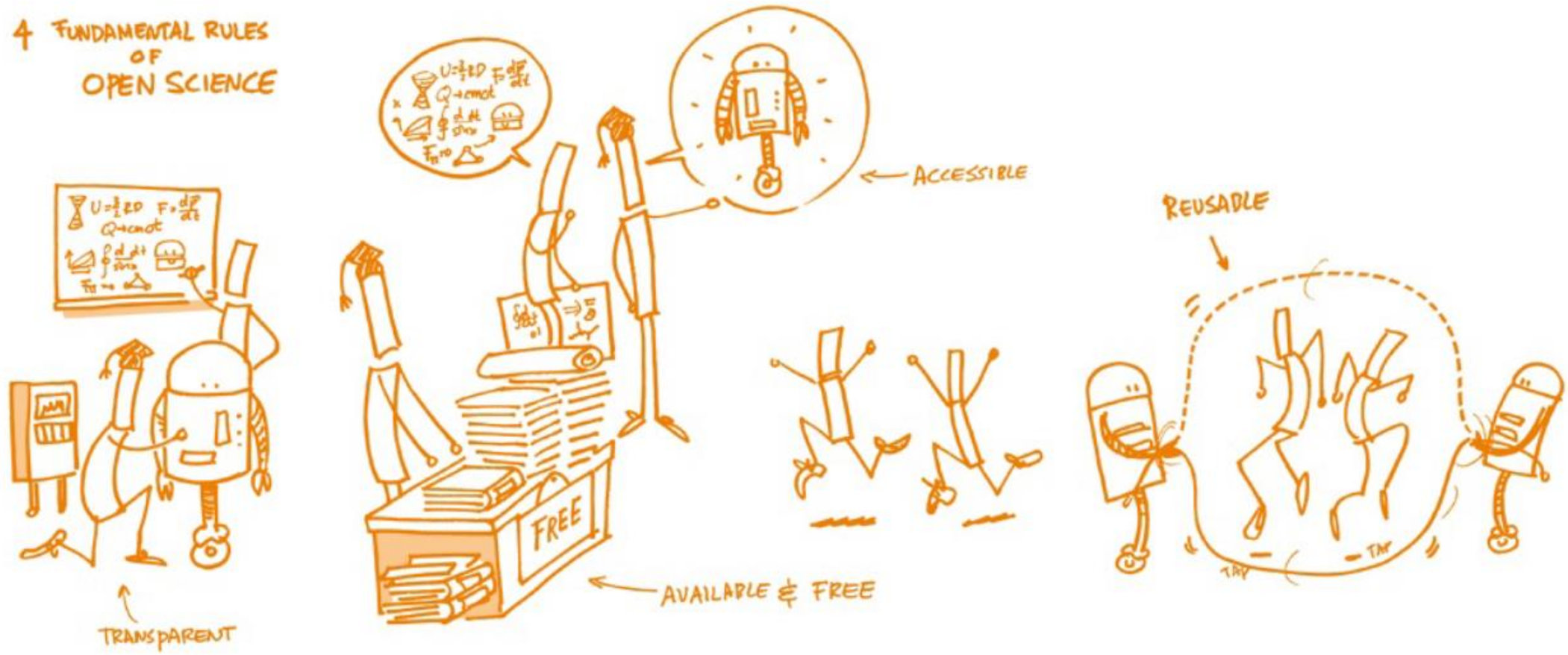
OPEN SCIENCE



Source: The Open Science Training Handbook https://www.fosteropenscience.eu/content/open-science-training-handbook

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Components of Open Science

From: Towards a Unesco recommendation on Open Science. Building a global consensus on Open Science
https://citizenscience.org.au/wp-content/uploads/2020/05/UNESCO-partnership.pdf

Source: Hack your PHD
http://hackyourphd.org/en/flyers/

CONTEXT

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UNESCO RECOMMENDATION OPEN SCIENCE

– Press release:

> “The COVID-19 pandemic has brought into focus how open science practices such as open access to scientific publications, the sharing of scientific data and collaboration beyond the scientific community can speed up research and strengthen the links between science policy and society. The UNESCO Recommendation on Open Science will drive the wider adoption of open practices, encourage greater endorsement of open science and ensure that research findings are beneficial to all.”
>
> **Audrey Azoulay, UNESCO Director-General**

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Open Science for the People, Planet & Prosperity

Open Science has the potential of increasing the quality of science and making the entire scientific process more transparent, collaborative and inclusive.

Open Science is increasingly recognized as a critical accelerator for the implementation of the Sustainable Development Goals.

By making science more connected to societal needs and by promoting equal opportunities for all (scientists, policy-makers and citizens), Open Science can be a true game-changer in bridging the science, technology and innovation gaps between and within countries and fulfilling the human right to science.

unesco

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EOSC: WEB OF FAIR DATA AND SERVICES

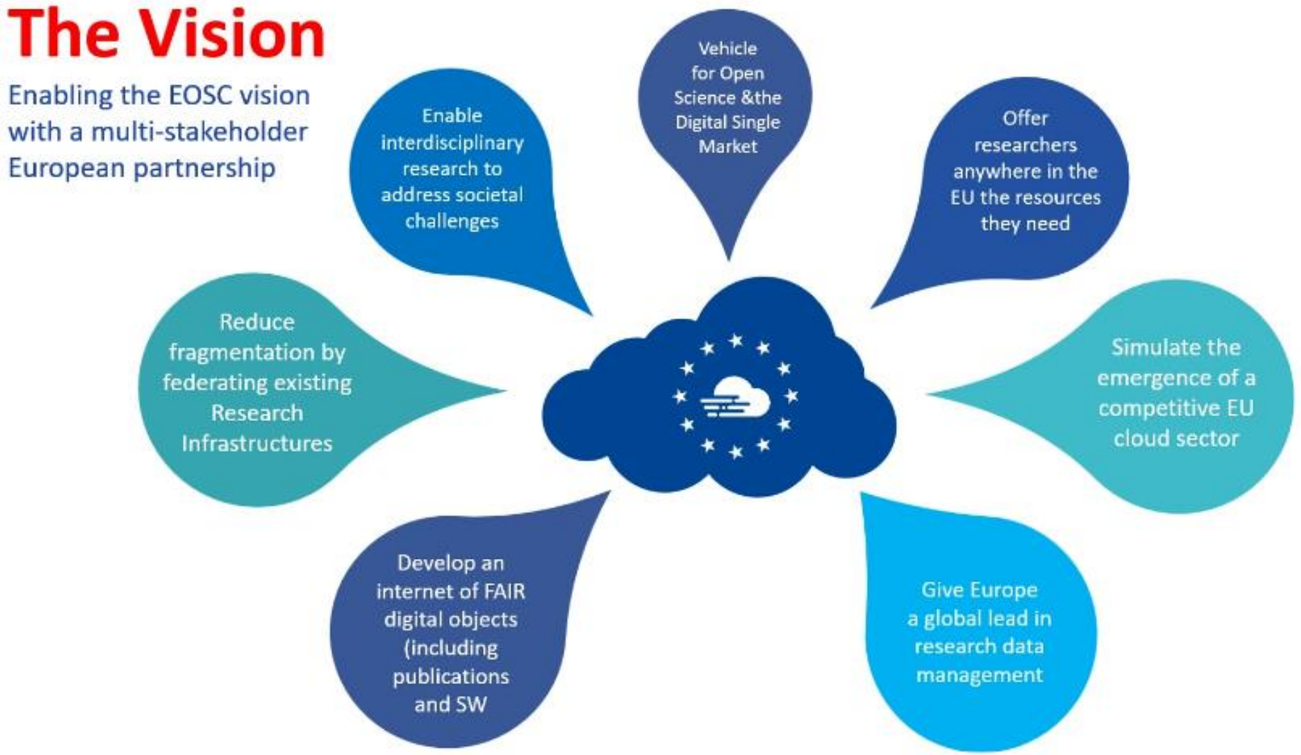

Figure 1: EOSC vision (II)

Source: https://ec.europa.eu/info/sites/default/files/research_and_innovation/funding/documents/ec_rtd_he-partnership-open-science-cloud-eosc.pdf

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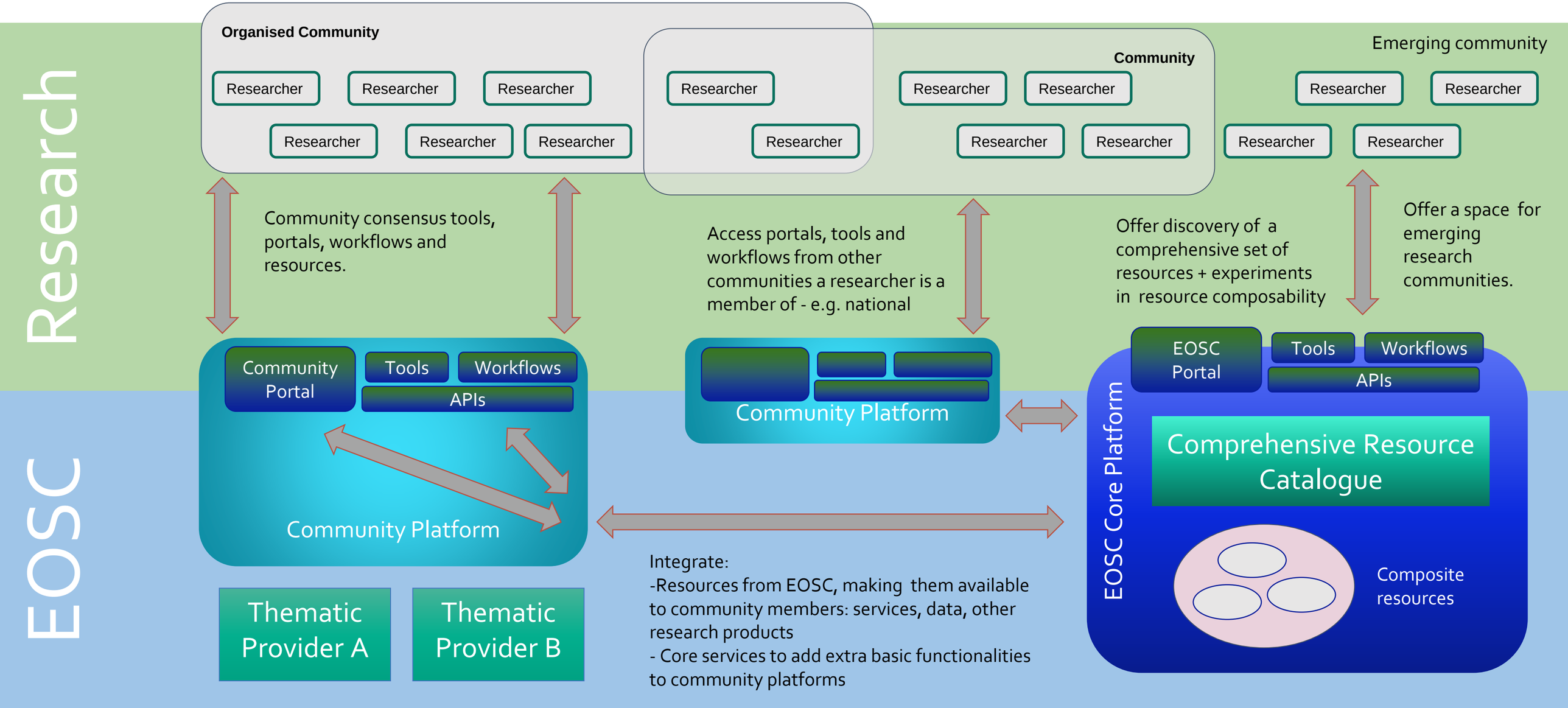
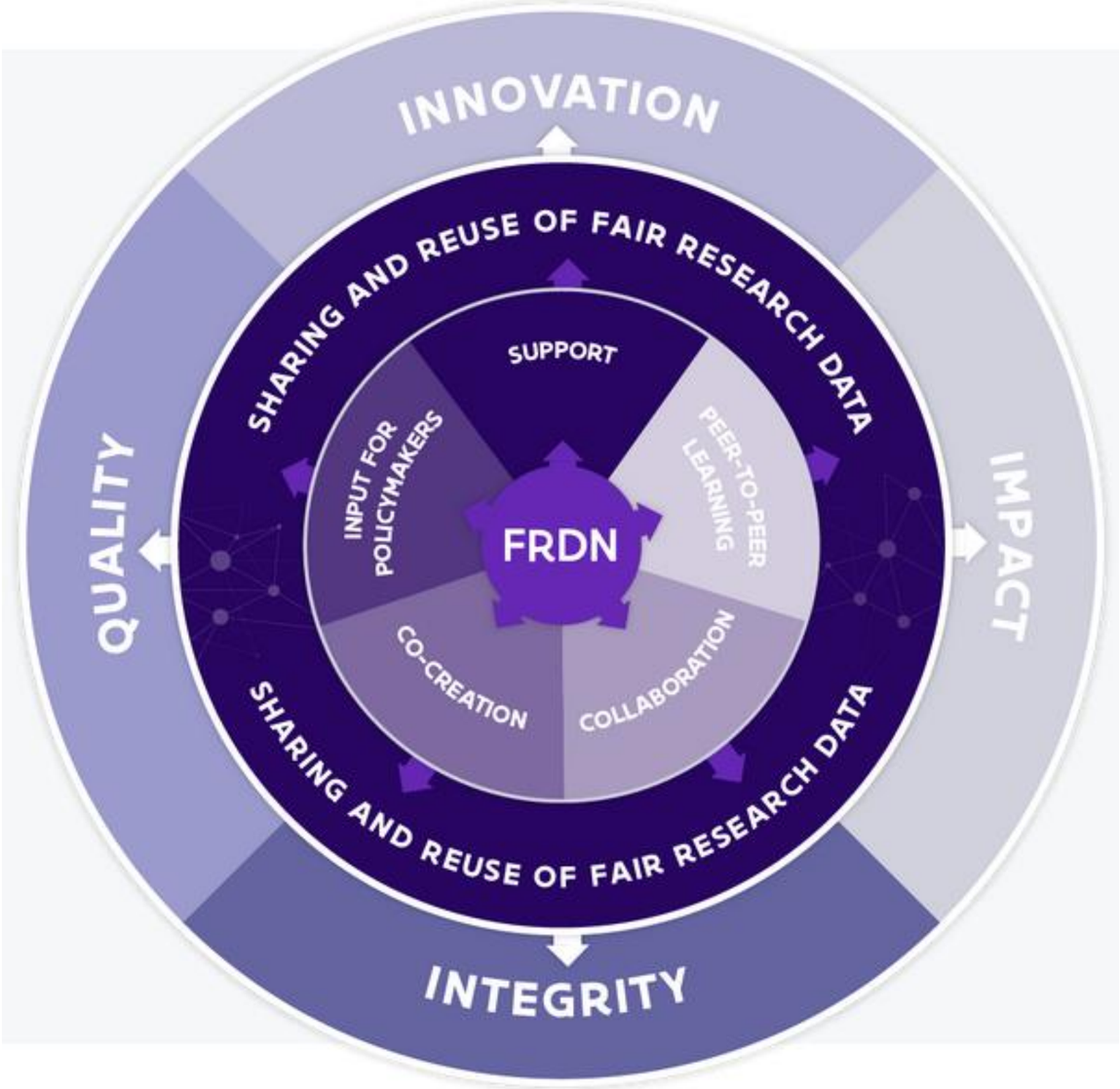
EUROPEAN OPEN SCIENCE CLOUD



FOSB - FRDN



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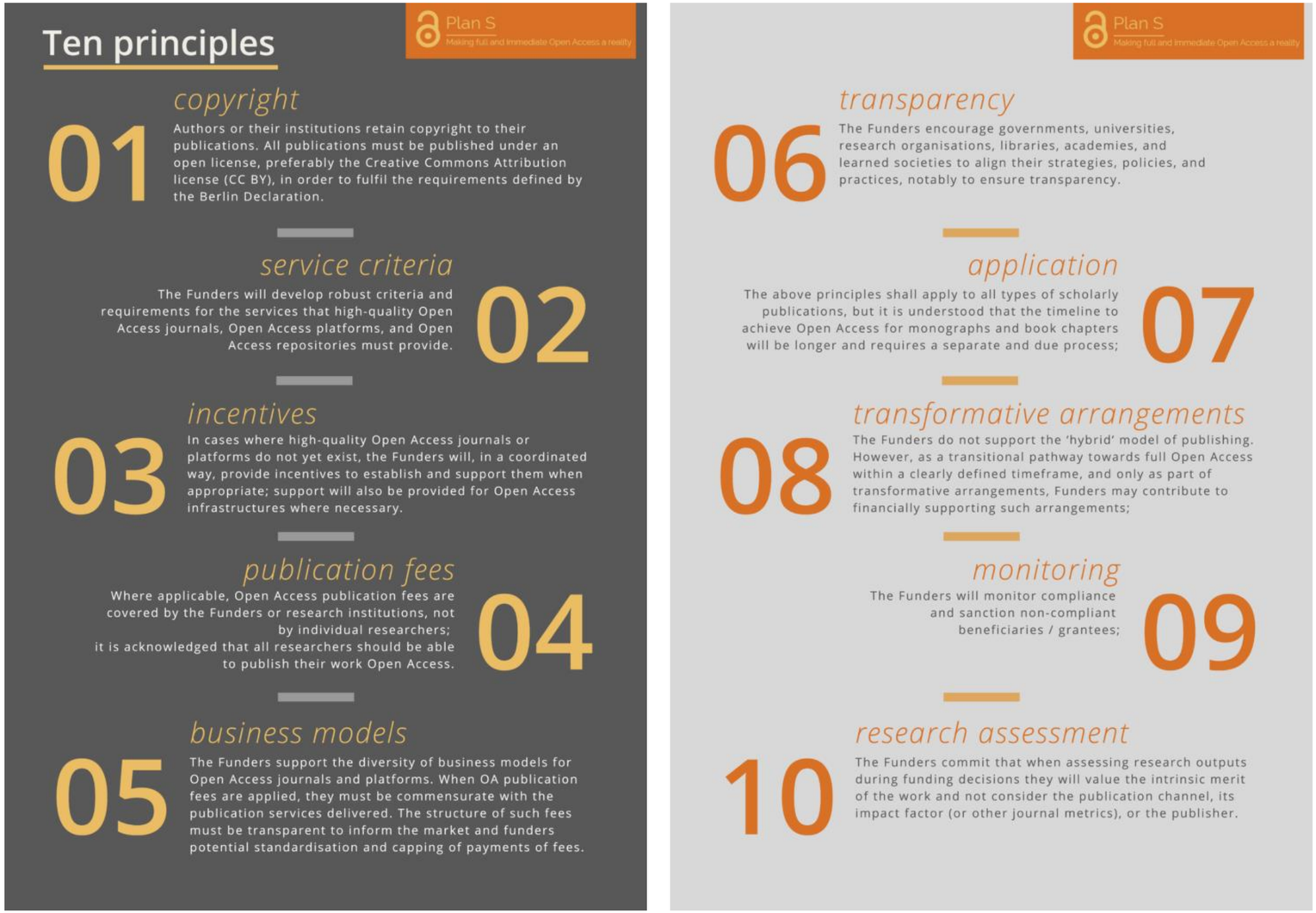
COALITION S

– Funders unite to forward open access



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ENKELE TRENDS

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1. PREPRINTS

“The COVID-19 pandemic has seen a surge in the numbers of preprints submitted by researchers [97]. While 807 preprints were deposited on medRxiv in the six-month period between 1st July 2019 and 31st December 2019, 6,771 preprints were submitted in the next six months (between 1st January 2020 and 30st June 2020), an increase of 739%. These figures are, respectively, 15,838 and 21,804 for bioRxiv (38% increase) and 87,942 and 112,197 for arXiv (28% increase). A recent study [98] gives more insights on the scale of this disruption. The use of preprints during outbreaks is certainly not new: a systematic review identified the publication of 174 and 75 preprints during the Ebola and Zika virus outbreaks, respectively [99]. Nevertheless, these figures are much smaller than the number of preprints submitted in the first 6 months of the COVID-19 pandemic.”
Besançon, L., Peiffer-Smadja, N., Segalas, C. *et al.* Open science saves lives: lessons from the COVID-19 pandemic. *BMC Med Res Methodol* **21,** 117 (2021). https://doi.org/10.1186/s12874-021-01304-y

1. PREPRINTS

U brak nog met een tweede taboe: u trekt zo snel mogelijk naar de media en wacht niet af tot een analyse in een vaktijdschrift is gepubliceerd.

‘We analyseren een extreem weerfenomeen in realtime en wachten niet op de peerreview, de gebruikelijke en belangrijke kwaliteitscontrole door collega-wetenschappers. Je kan dat arrogant noemen. En als ik het niet zelf zou doen, zou ik ook heel sceptisch zijn over die werkwijze.’

Waarom moeten wij dan vertrouwen hebben in uw analyses?

‘De methodiek achter onze analyses is niet nieuw en is onderworpen aan alle nodige kwaliteitstoetsen. Onze snelheid compenseren we bovendien door telkens heel transparant te zijn. We nodigen iedereen uit om met onze data alles na te rekenen.’

‘We publiceren onze resultaten ook nog altijd in vaktijdschriften en daarvoor moeten ze de peerreview doorstaan. Tot dusver hebben we nog geen enkele keer de resultaten en conclusies moeten bijstellen die we hadden gepresenteerd. Juist omdat veel klimaatwetenschappers sceptisch waren over ons werk – en nog altijd zijn – liggen onze studies steeds onder het vergrootglas. Er zijn volgens mij geen andere studies in de klimaatwetenschap die even streng worden beoordeeld.’

Interview Friederike Otto door Maxie Eckert, De Standaard zat. 16 okt. 2021, https://www.standaard.be/cnt/dmf20211015_97573912

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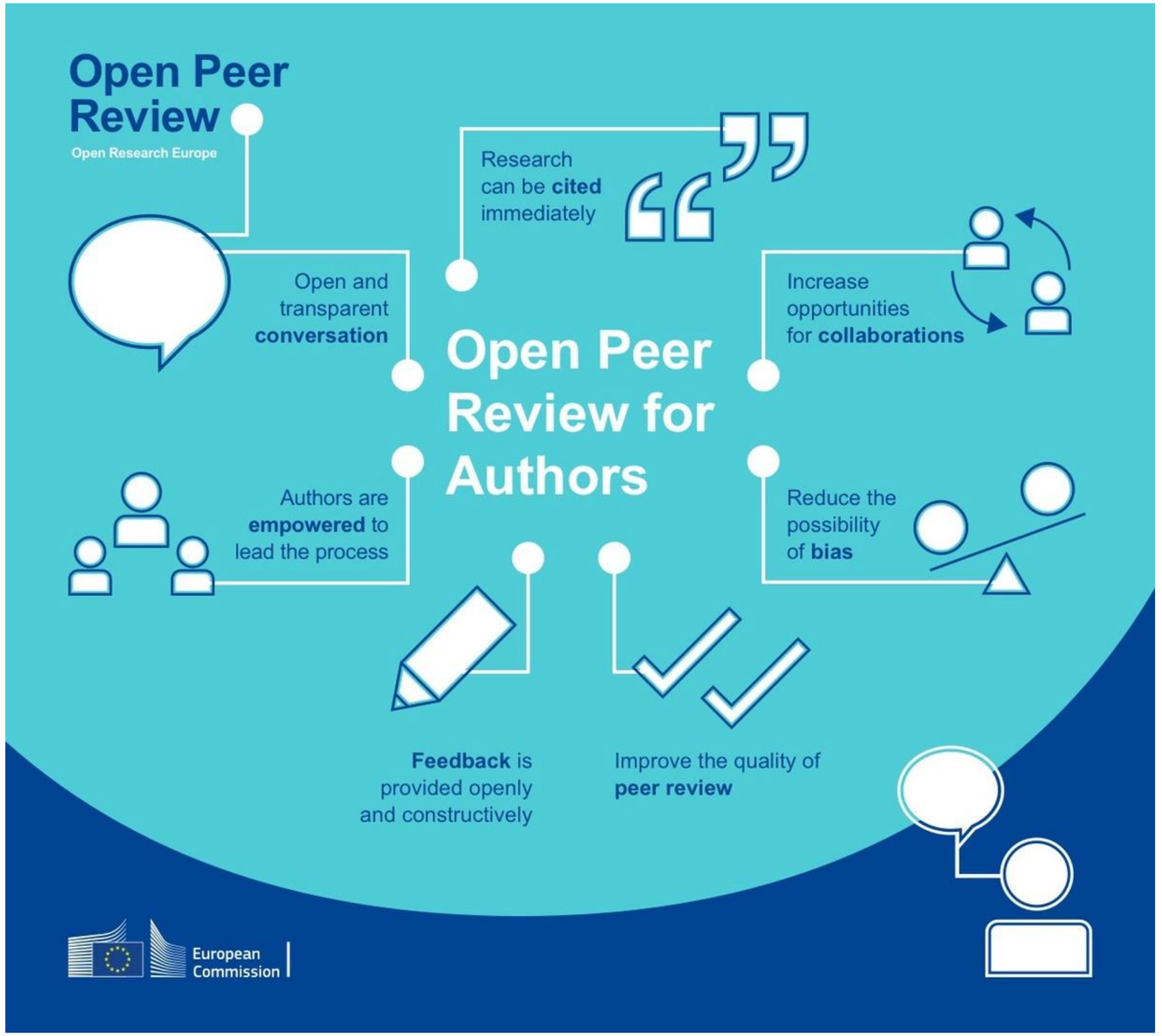
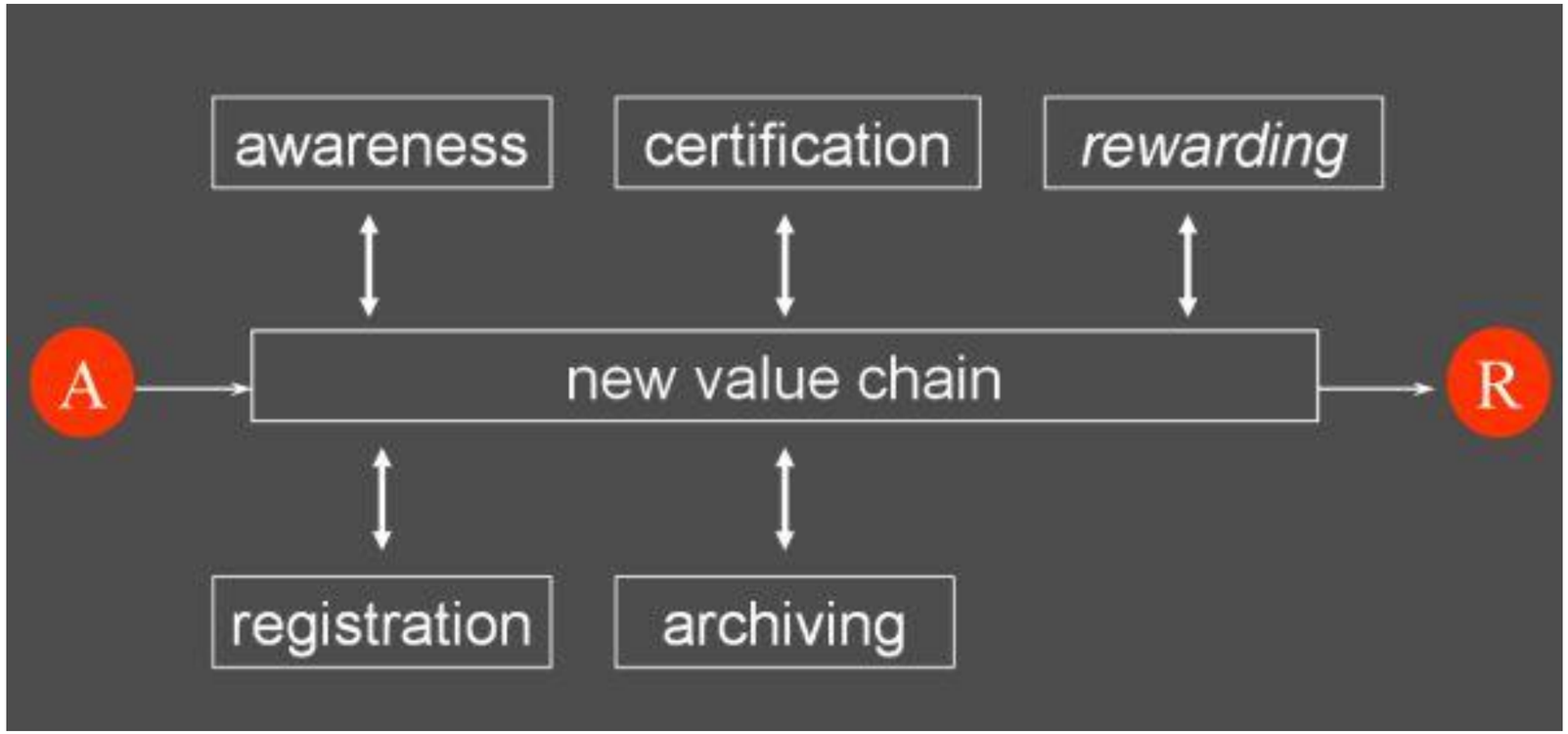
2. OPEN PEER REVIEW



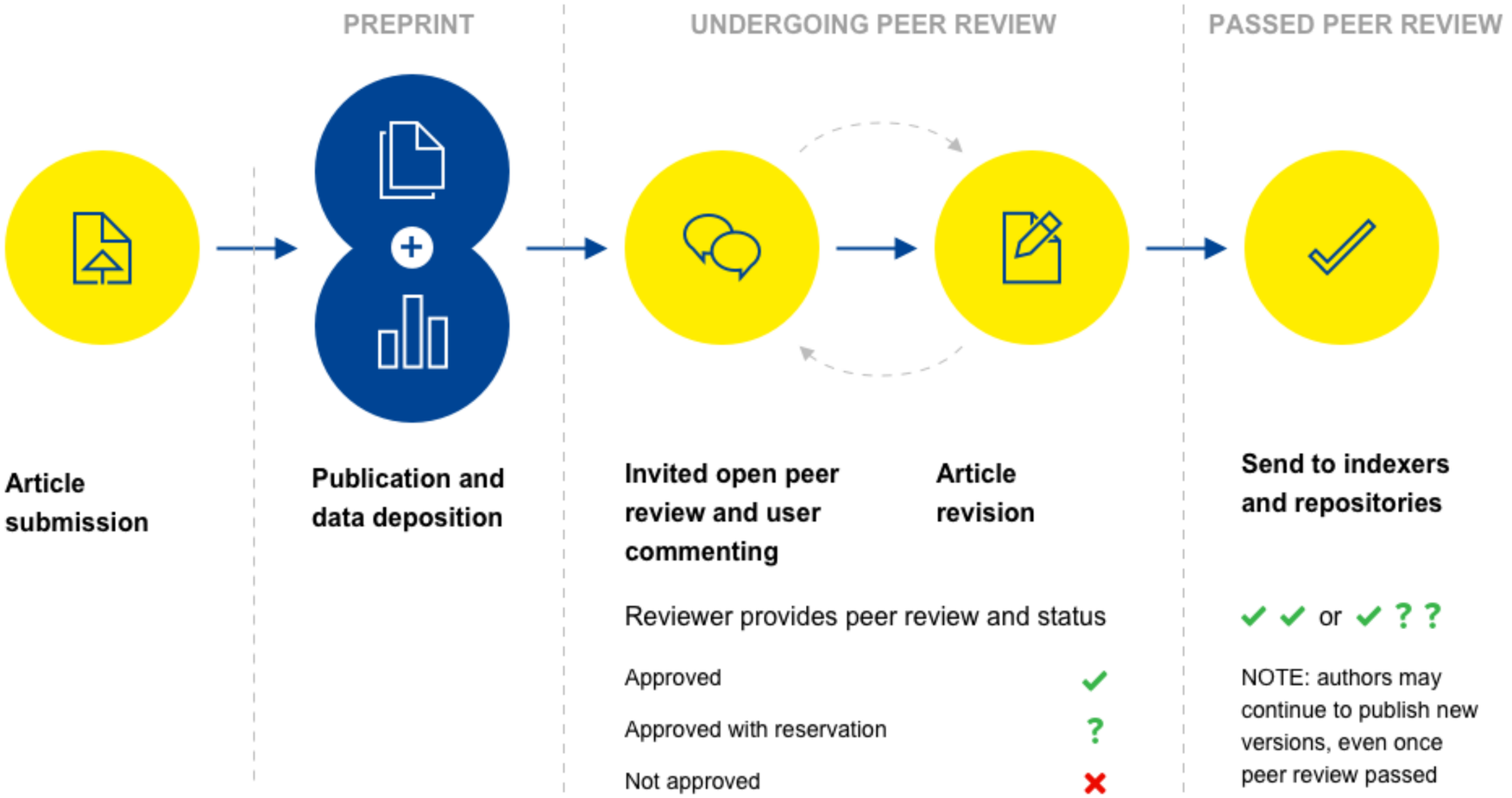
https://think.f1000research.com/open-research-europe-submission/open-research-europe-open-peer-review/

3. OPEN PEER REVIEW



Herbert Van de Sompel 22 okt 2002 op “Open Archives voor onderzoek” in de Universiteitsbibliotheek Gent

3. DIAMOND OPEN ACCESS



Open Research Europe (ORE): publishing venue for EU research

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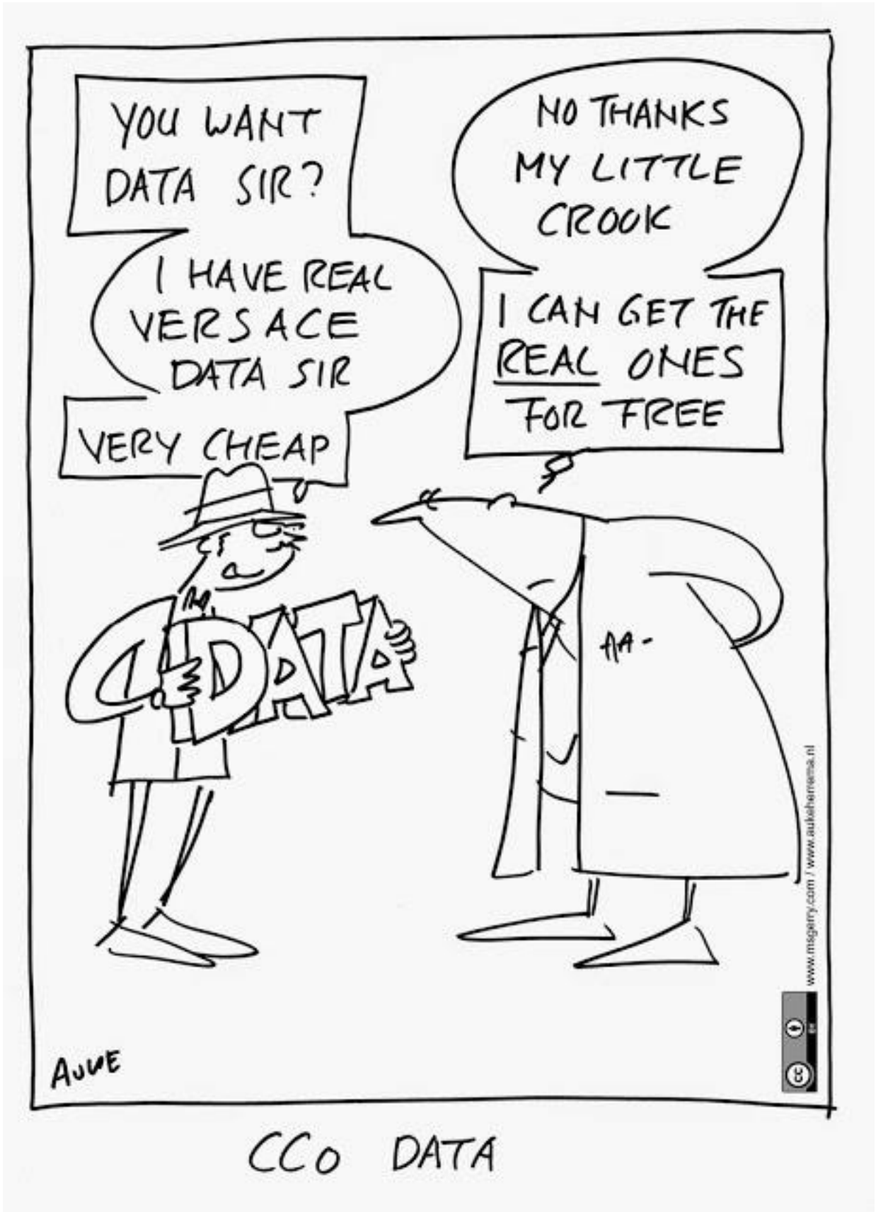
4. FAIR & OPEN DATA



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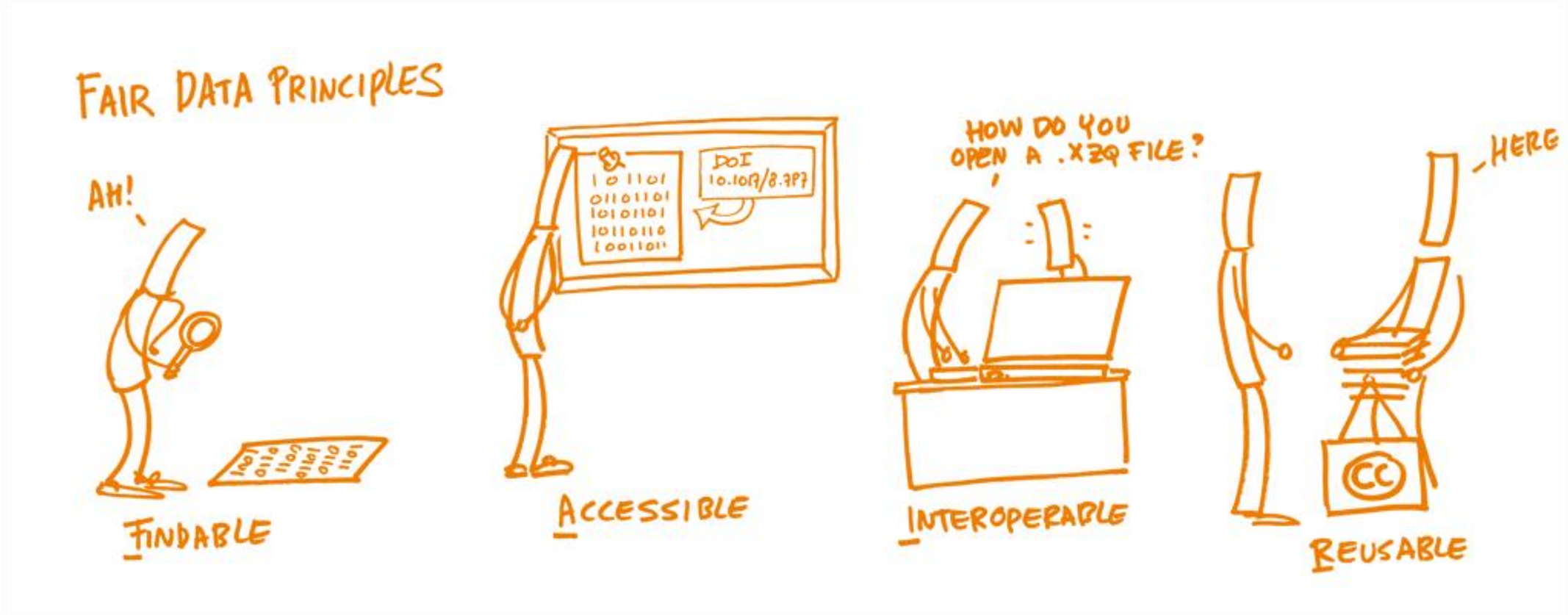

https://book.fosteropenscience.eu/

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WAAR VIND JE OPEN INFORMATIE?

- OpenAIRE https://explore.openaire.eu/
- Tijdschriften: http://doaj.org
- Boeken: http://www.oapen.org/home
- Google scholar http://scholar.google.com

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Inge Van Nieuwerburgh

Open Science team

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