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WHY? Time to reward Open Science

2023: The Council of the European Union

2022: COARA Agreement on Reforming Research Assessment Union

2012: San Francisco Declaration on Research Assessment (DORA)

HOW? The OADO and the Weighted-OADO

A person-centered indicator that consists of the:

- Research factor indicating the degree of OA articles and OD in research.
- Communication factor indicating the degree of OO in communication activities.

WHAT? The OADO

$$OADO = a \frac{OA_research_publications + Open_datasets}{ALL_research_publications} + b \frac{OA_communication_publications}{ALL_communication_publications} \quad , a, b \in R \cap (0,1]$$

- Weights a and b that are used to give more emphasis -if needed- either to the research, or the communication factor.
- Developed and customized to the needs of Elsevier's RIMS Pure.
- Assign a dataset to a publication.

WHAT? The Weighted-OADO

- Takes into consideration the differences in Open Science (OS) practice of a researcher in relation to their peers from their own discipline.
- A means to recognize the degree of OS and it is calculated at the hierarchical level one wants to operationalize it: Center, Department, Faculty, Institute, Country.

E.g. At the hierarchical level of a department, for every researcher we calculate the:

$$Weighted - OADO = \frac{OADO}{Department_Average_OADO}$$

- Greater than one (>1): the researcher is more open than the Department Average OADO.
- Equal to one (=1): the researcher performs exactly as the Department Average OADO.
- Less than one (<1): the researcher is less open than the Department Average OADO.

Take home messages

The OADO/wOADO

- Is used to **assess the openness** of researchers in relation to their peers.
- Should be **calculated at the hierarchical level** one wants to operationalize it.
- Indicates if there is a need for making a greater **effort towards openness**.
- Acts as an **incentive** for detailed registration to RIMS of research outputs and datasets.
- **Enables institutions to reward OS** based on the indicator's outcome.
- Has **transferability**; it can be applied to other institutions using any platform which covers both research and outreach publications and where the OA status is findable.

