



Co-funded by the
Erasmus+ Programme
of the European Union



EMBRACING OPEN SCIENCE: REVOLUTIONIZING RESEARCH AND ITS IMPLICATIONS FOR NURSING

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What is Open Science?

UNESCO (2021)
Recommendation on
Open Science:



Makes multilingual scientific knowledge openly available, accessible and reusable for everyone

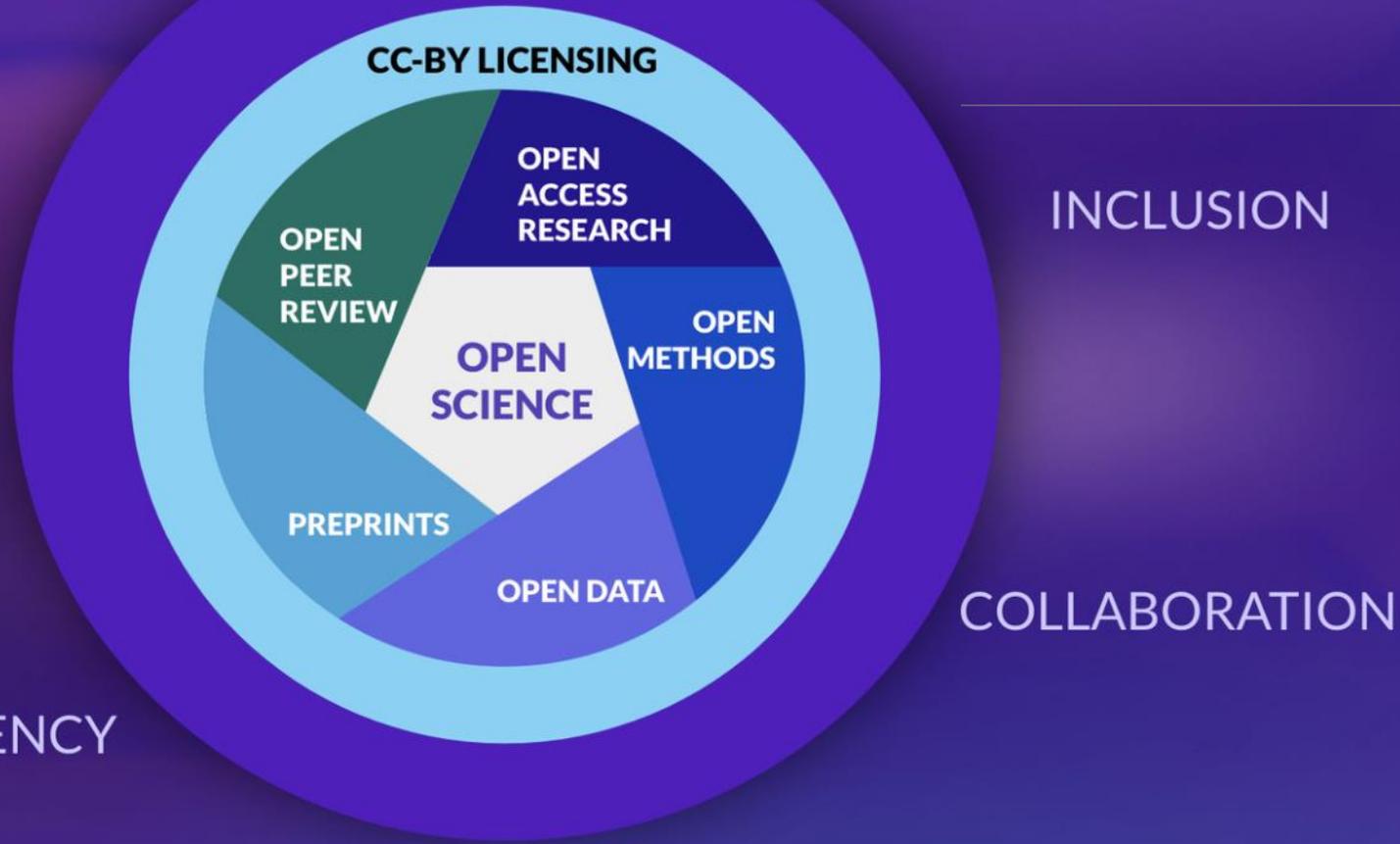


Open science increases scientific collaborations and sharing of information for the benefits of science and society



Opens the processes of scientific knowledge creation, evaluation and communication to societal actors beyond the traditional scientific community

RESEARCH INTEGRITY AND TRUST IN SCIENCE



Adopted from PLOS Open Science Toolbox (2023)

Potential Benefits of Open Science

Promotes a more accurate verification of scientific results

Reduces duplications

Increases productivity

Results in great innovation potential

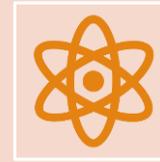
Increases consumer choice from public research

Promotes citizens' trust in science

Key Pillars of Open Science



Open scientific
knowledge



Open scientific
infrastructures

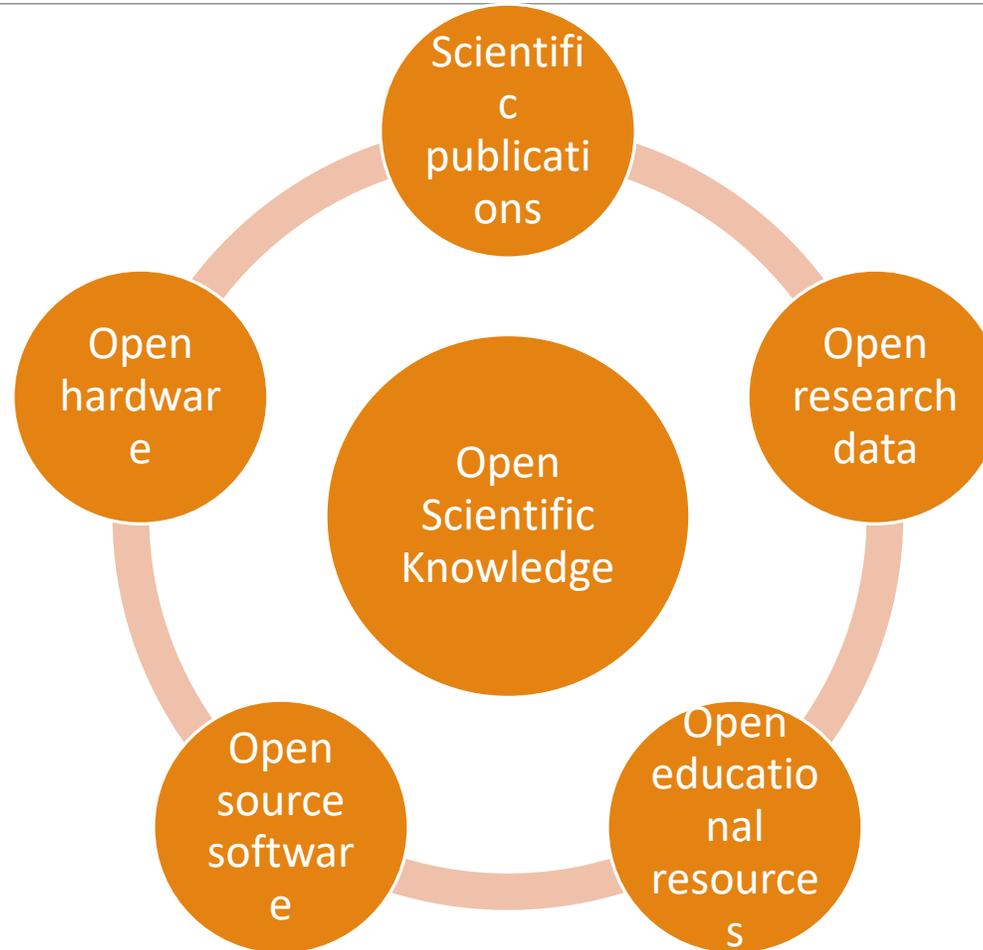


Open engagement of
societal actors

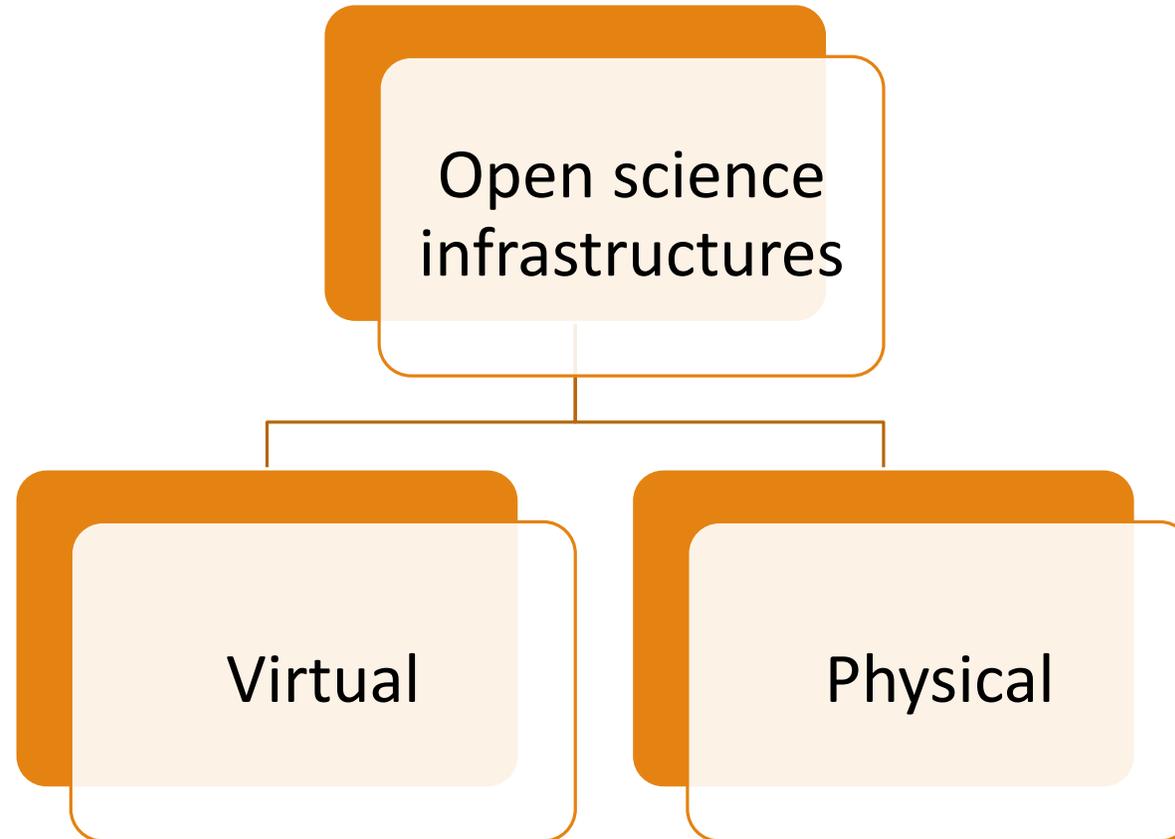


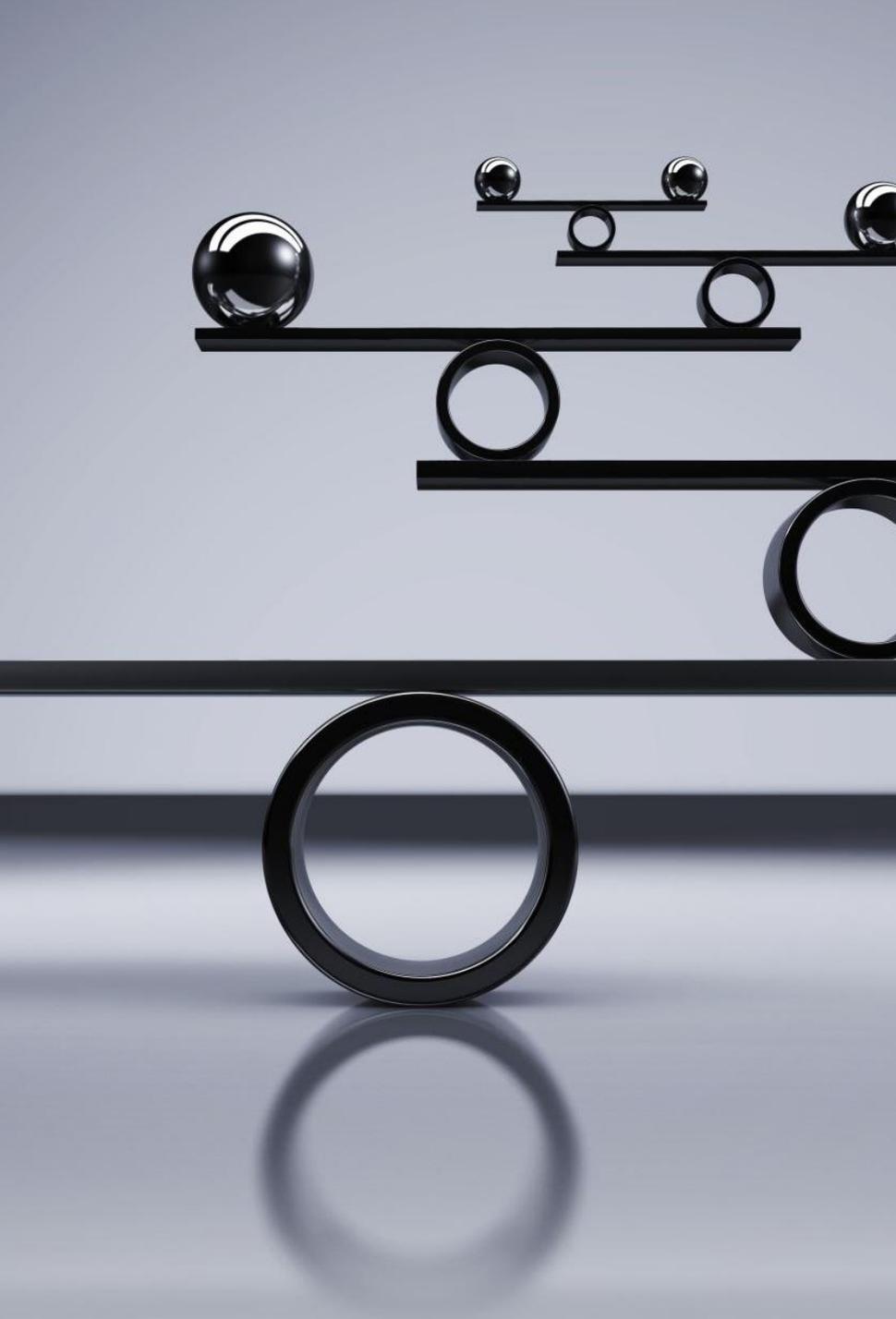
Open dialogue with
other knowledge
systems

Key Pillars of Open Science



Key Pillars of Open Science



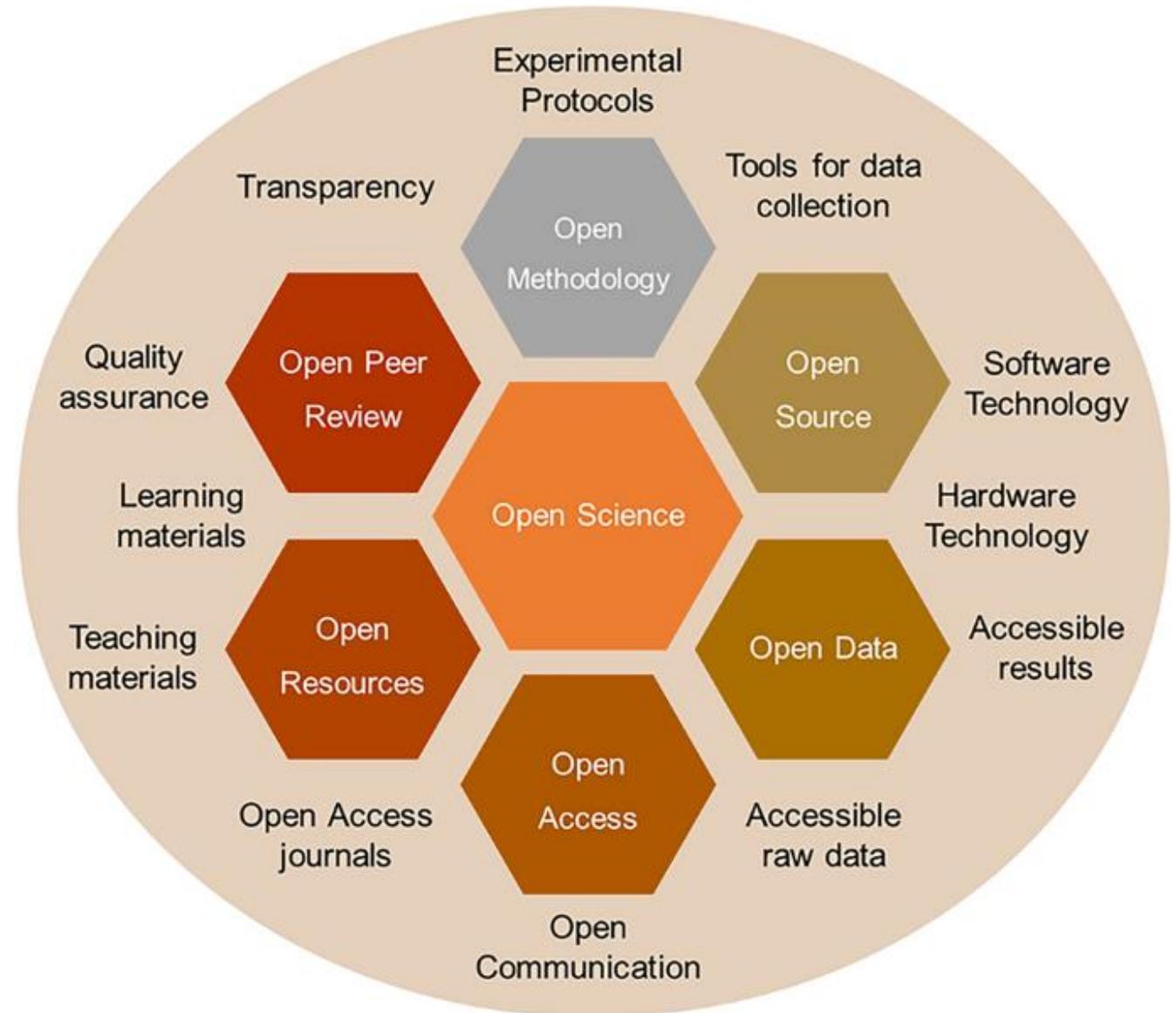


Open Science Values

- ❖ Quality and integrity
- ❖ Collective benefit
- ❖ Equality and fairness
- ❖ Diversity and inclusiveness

Promoting Openness at Different Stages of the Research Process

Adapted from Chakravorty et al. (2022)



Challenges to Open Science



Chakravorty et al. (2022)

The Future of Open Science

The Plan S (2018):

“With effect from 2021, all scholarly publications on the results from research funded by public or private grants provided by national, regional and international research councils and funding bodies, must be published in Open Access Journals, on Open Access Platforms, or made immediately available through Open Access Repositories without embargo.”

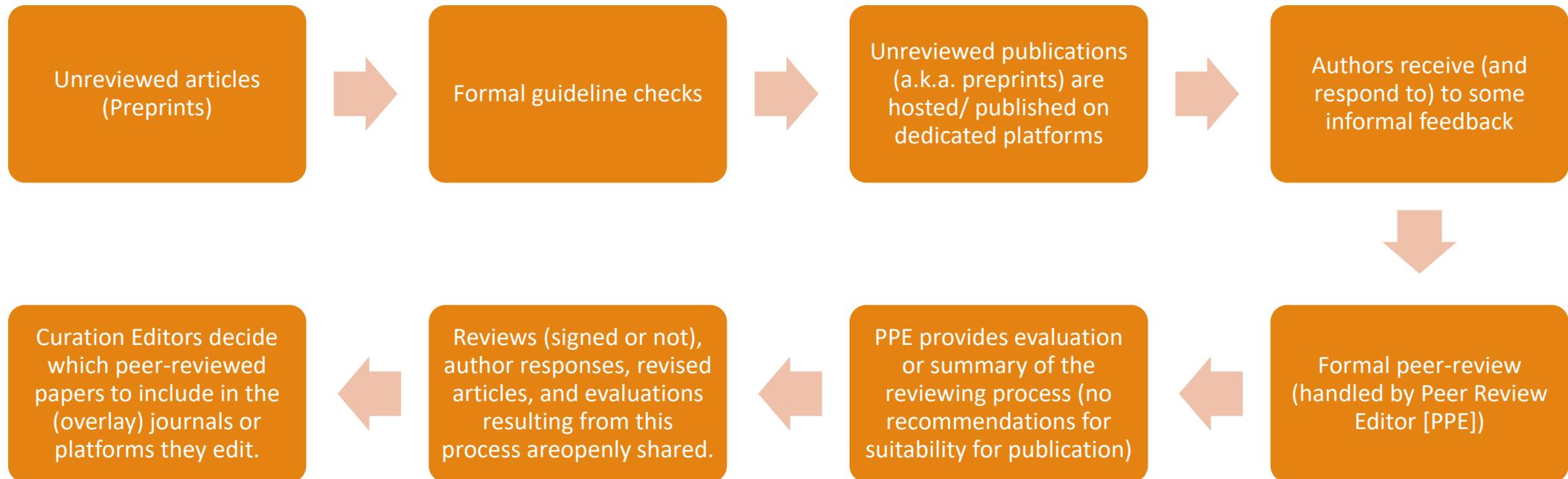
The Future of Open Science

Principles of the Updated Plan S (2023):

1. Authors are responsible for the dissemination of their findings
2. All scholarly outputs are shared immediately and openly
3. Quality control processes are community-based and open, to ensure trustworthiness of research findings
4. All scholarly output are eligible for consideration in research assessment
5. Stakeholders commit to supporting the sustainability and diversity of the scholar-led publishing ecosystem

The Future of Open Science

Scholar-driven Ecosystem (Plan S, 2023):



Implications of Open Science to Nursing

- ❖ Bolster nursing research and evidence-based practice nursing
- ❖ Easier access to the latest evidence and healthcare information
- ❖ Encourages collaboration between nurses and researchers from diverse disciplines
- ❖ Enhance the quality and reliability of nursing research
- ❖ Improve the reproducibility of nursing studies
- ❖ Ensures that nursing studies reflect the needs and concerns of the population
- ❖ Contributes to the dissemination of best practices and innovations in nursing and healthcare
- ❖ Prompts discussions on ethical issues facing nursing practice and science
- ❖ Increase fundings opportunities for nursing research

References

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