Observing and Negating Matthew Effects in Responsible Research and Innovation Transition

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Key values of Open Science (OS) & Responsible Research and Innovation (RRI)

Open Science & RRI

Equity

Participation

Inclusion

Transparency

Diversity

Uptake of Open Science practices depends on:

- Infrastructure
- Resources
- Training
- Support
- Political will

Access to these advantages isn't equally distributed....

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Matthew effects in science

- Robert Merton (*Science*, 1968)

- Successful scientists tend to receive disproportionately high recognition & rewards

- The rich getting richer

- Possible factors: geographical location, institutions, institutional standing, gender, early OS adopters...

Could Open Science & RRI reinforce existing hierarchies and privileges or create new ones?
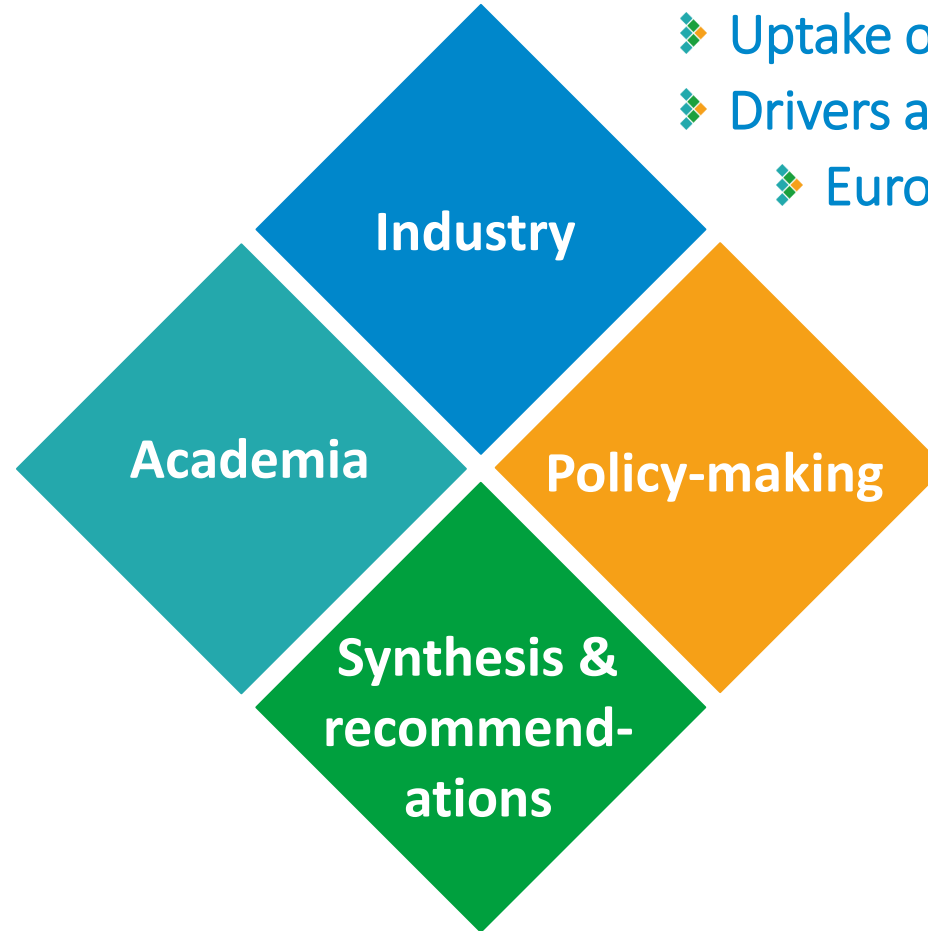
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Key research questions

Effects of…

- barriers to accessing literature
- OS & RRI practices on career progression
- OS & RRI indicators in promotion policies
- OS & RRI training

Industry

- Uptake of OS resources
- Drivers and barriers
  - European patent literature

Academia

Policy-making

- Uptake of OS resources
- Drivers and barriers
- With RRI experts & citizen scientists: Reflect on barriers to participate in evidence-gathering

Synthesis & recommend-ations

- Effects of traditional vs. potentially new OS & RRI indicators on research practices

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Our mission

- Methods: Sociological, bibliometric and computational approaches

- Ensure that Open Science & RRI interventions contribute to a more equitable scientific system

- Distribution of rewards based on merit rather than privilege

on merit

Nancy Potinka   Hannah Metzler   Helene Brinken

Curious?
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Thank you!

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