



Published on *Heinnovate* (<https://heinnovate.eu>)

[Home](#) > Open science and innovation practices are widespread across the HEI.

Open science and innovation practices are widespread across the HEI.

Digital technologies, open access and online services have re-shaped knowledge production, evaluation and dissemination. Open science approaches make research data, notes, methods, processes and findings freely available under terms that allow reuse and reproduction. This encapsulates both the scientific community as well as citizen science.

Open science means a commitment to open outputs, open infrastructure and culture change. There are a number of key steps to enabling this approach. The first step is to appoint a dedicated manager to lead open science approaches and to develop a comprehensive open science culture that details the benefits and the rewarding mechanisms of embracing open science methods and practices in the context of current disciplines and research activities of the institution. This should be augmented with an action plan, which considers the following:

- Mechanisms or programmes for increasing trust and confidence in an open science approach
- A communication strategy to promote an understanding of open science practices across the institution
- Training on data management practices to support open science publishing
- Embedding open science in teaching and learning practices
- Rewards and incentives (for staff and students) for implementing open science which includes next-generation metrics i.e. new forms of research evaluation
- Engaging with citizen science alongside standard research, creating spaces for citizens and researchers to come together and co-create

The appropriate enabling environment should be developed to support open science and innovation across different disciplines, faculties and with external stakeholders, including online workspaces or repositories and firm usage policies and agreements. The institution should provide comprehensive guidelines, training and support on open science and innovation practices.

Source URL: <https://heinnovate.eu/en/resource/open-science-and-innovation-practices-are-widespread-across-hei>