The German Reproducibility Network

A Strategic Community Effort to Promote Transparent Research Practices in the Scientific System

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The Goal. Science we can trust.

Today, it seems more important than ever that research results are trustworthy and based on robust research. The scientific community strives for insights and explanations that hold as generalizable laws. Science and research must also deal with uncertainty, with questioning assumptions and recognizing epistemological issues. But science runs the dangers of gambling away some of the trust placed in it when transparent, rigorous and reproducible evidence is missing.

One Problem. Change coming mostly from the bottom.

Currently, the Open Science movement is largely driven by (groups of) individual researchers organized in grassroots initiatives. But fundamental change in scientific practice follows similar processes as social change: To take hold, such change processes require not only a quantitative increase in the adoption of changed practices, in this case the adoption of Open Science driven by rising numbers of grassroots initiatives. Complex change processes also benefit from action on qualitatively different levels, such as addressing institutional and system - wide changes, as well as a strengthened system of values based on principles of scientific theory.

Our Mission. To promote quality, robustness and transparency of research in Germany.

We want to more systematically establish and develop collaborations among grassroots initiatives, research institutions, and other stakeholders like funding agencies, policymakers or publishers. To achieve this goal, the GRN attracts members from the different stakeholder groups, facilitating exchange between them, encourages the formation of grassroots initiatives and of institutional Open Science working groups and policies via the membership guidelines, and bundles the voices of the GRN community when interacting with funders, policymakers or publishers.

We **support researchers** in educating themselves about open science practices, and founding local open science communities.

We **connect local** or **topic - centered Reproducibility Initiatives** to a national network, and foster connections between them.

We **advise institutions** on how to embed open science practices in their work.

We **represent the open science community** toward other stakeholders in the wider scientific landscape