

BUILDING A KNOWLEDGE WIKI ABOUT SCIENTIFIC METHODS – A POST DISCIPLINARY APPROACH

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The vast and diverse landscape of scientific methods is often strongly associated to specific scientific disciplines/school of thoughts. The beneficial knowledge gained from the specific methods might often become dogmatic or even tautological. Yet a diverse knowledge base as part of an interdisciplinary community builds on trust and collaboration is the demand of modern world to solve the complex problems, which motivated us to design a growing knowledge base focused on scientific methods: The Methods Wiki. It is divided into four major parts, listed below.

Courses

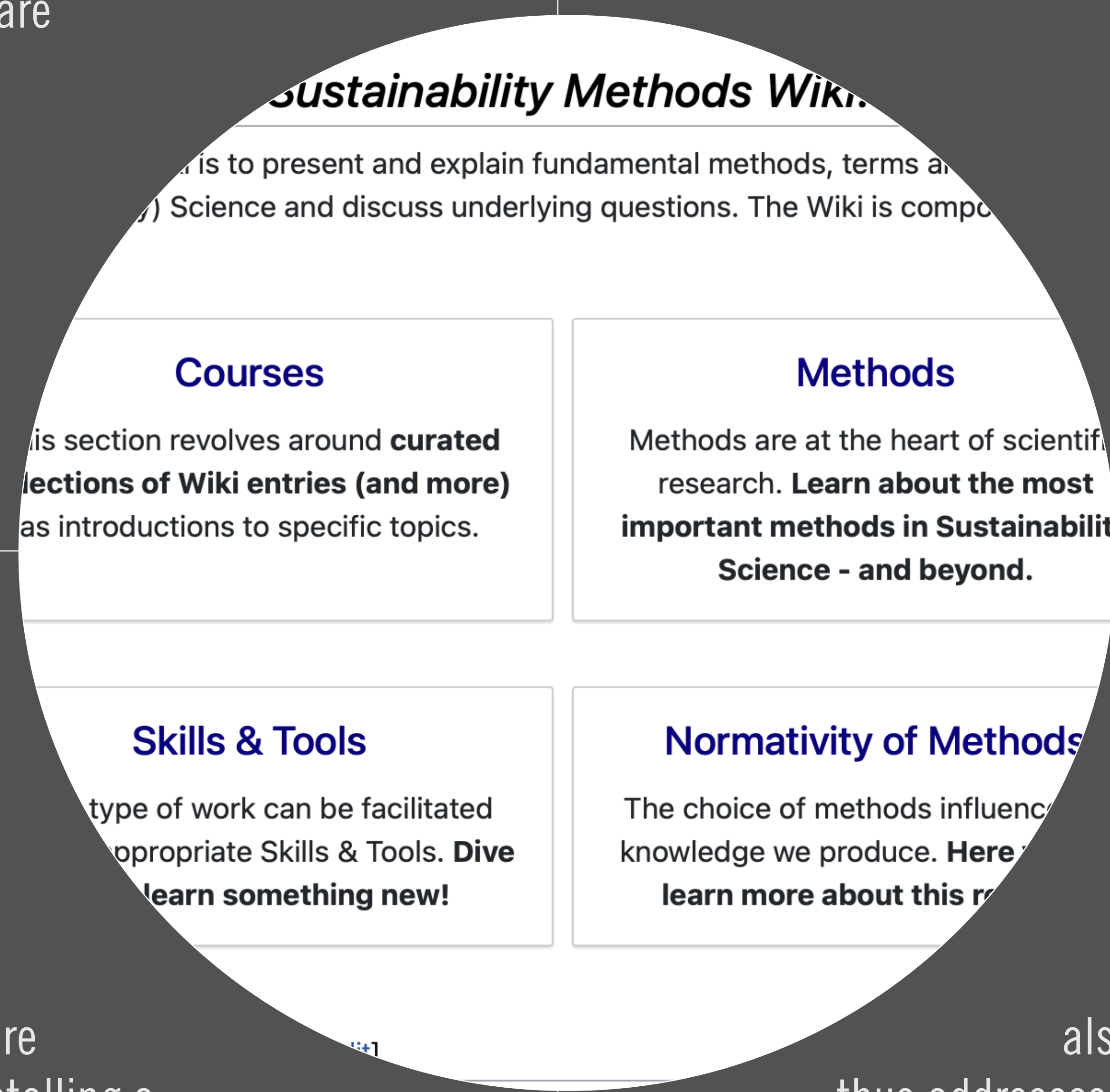
Texts, videos, podcasts are few of the diverse learning methods employed to build to knowledge base along with plan to compile self-running courses spanning from introductory (broad overview of methods) to advanced courses (specific courses with examples and dataset). While we have only begun to compile this section, this wiki has been used in various lectures and seminars, students have put the material to test, write homework and exams based on this learning material. We currently compile all courses in Moodle, yet self-running courses are planned in the future in order to enable students to compile their own modular curriculum. In addition, we use the continuous diverse teaching settings as a basis to improve our teaching material further.

Methods

We provide coherent and consistent critical introduction onto a wide array of scientific methods with a continuously enhancing, improving, and re-iterating list of the diverse methods to generate a more holistic view of the scientific methods landscape. Through the active application of our texts within teaching and research, we are building a peer-reviewed model. Methods can be differentiated into various schools of thoughts, some having finer differentiations, often in hierarchical fashion. This makes Methods Wiki a herculean task. The Wiki tries to develop the baseline material for such an overview, yet can of course not replace practical application of methods and the continuous exploring of empirical studies within the scientific literature.

Ideas, tips, or gimmicks which can help improve your work are 'Skills and Tools'. They can support individuals, groups, collaborators, teachers, leaders, students, in becoming more efficient. There are myriads of approaches which do not generate new knowledge, but are directly or indirectly useful, ranging from installing a daily-planner software, to motivation building. This part of wiki deals caters to mode and habitus of how science is conducted and how to make it better. While this is a part of growing knowledge landscape, we look forward to implementing more approaches here, and currently focused on the ones we consider most important and helpful.

Scientific method chosen influence the outcome of scientific knowledge. Here, we present new research on how the choice of method impacts not only the results of scientific studies but also, it's impact on society. Method normativity thus addresses the issue of method evaluation by entities such as disciplines, scientific communities, civil societies, schools of thought, and so on. We connect these reflections towards a post-disciplinary agenda. We consider methodological choice within science to be normative due to the issue of knowledge production, which is indeed normative.



Skills & Tools

Normativity of methods

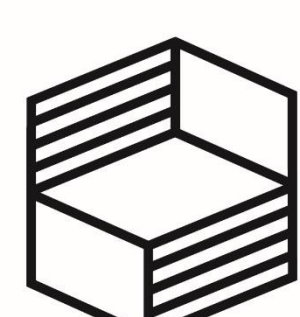
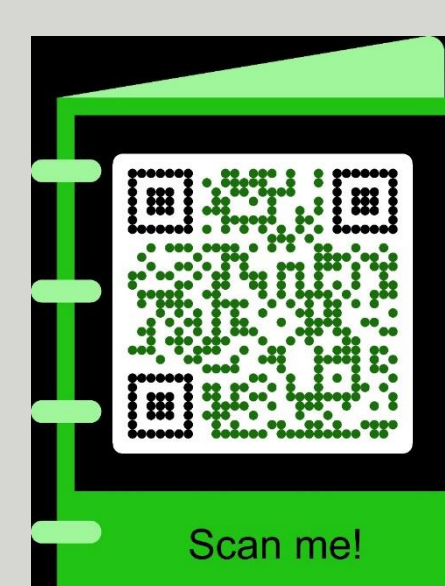
Most relevantly, our Wiki is a contribution to the **discourse** that builds a modern and critical science. Our wiki is by no means a step towards a new dogma, but instead tries to **open science** up and aid **collaboration, insight, and trust**. Please approach us if you have further questions or want to engage in a debate.

→ DIGITAL TRANSFORMATION LAB FOR TEACHING AND LEARNING

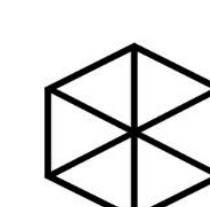
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