



Shifting Paradigms in Information Flow

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University Seminar Exploring Team Science



Creating a Culture of Collaboration at George Washington University (C³@GWU): University Seminar Think Tanks and Aims

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Being a Cross-Disciplinary Scientist

- To explore and understand what being a cross-disciplinary scientist means and entails.
- To develop a framework for conceptual skills and



Collaborative Technologies and Informetrics

- To engage in scholarly discourse on technologies for project management, sensemaking, data analysis, and knowledge sharing.

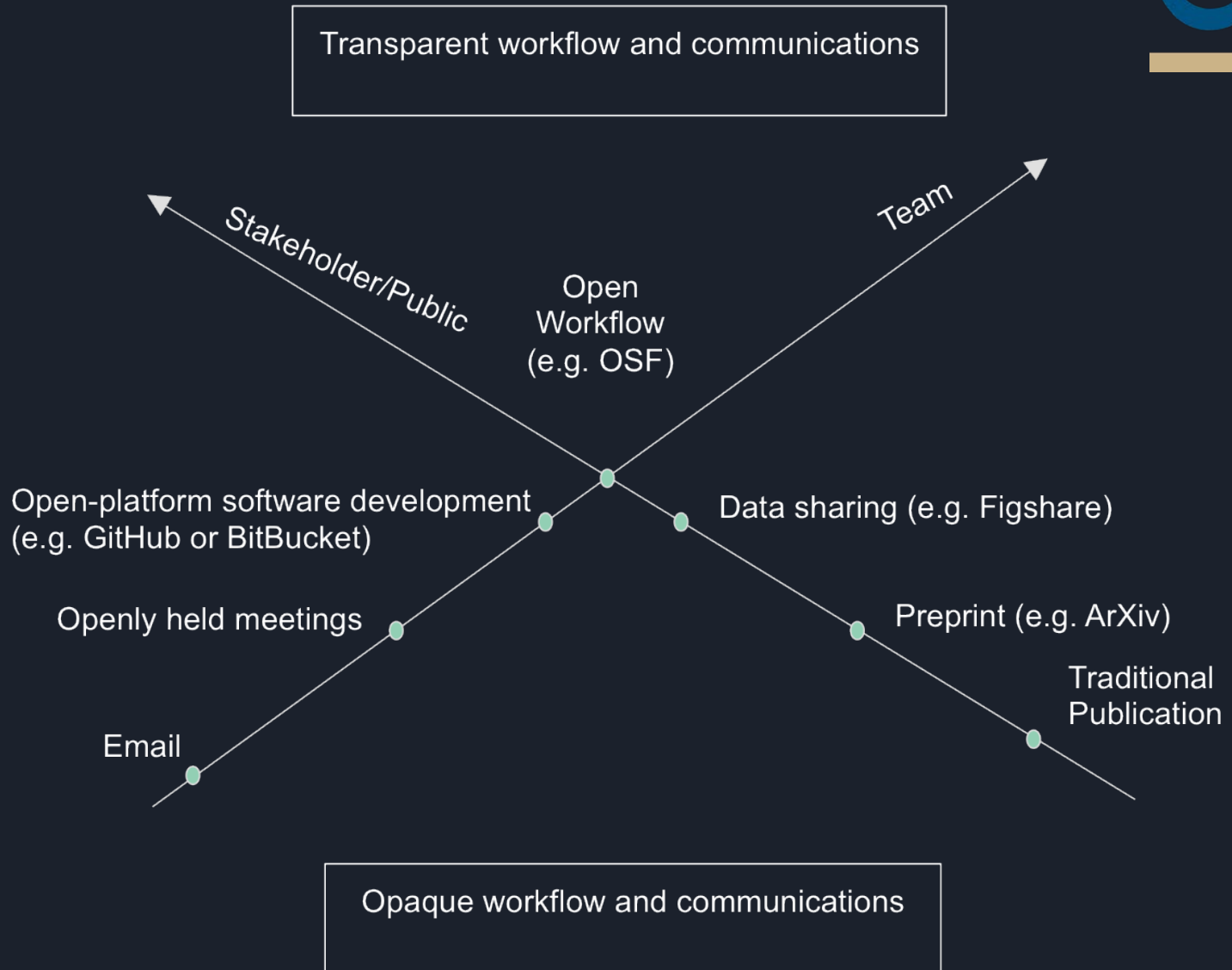
Aspects of Open Science Theory



- **Infrastructure**
 - Openly available platforms, tools and services for scientists
- **Public**
 - Accessible for citizens
- **Measurement**
 - Alternative metric system for scientific impact
- **Democratic**
 - Knowledge freely available for everyone
- **Pragmatic**
 - Process of knowledge creation more efficient and goal oriented

Fecher, B, & Friesike, S. (2014). Open Science: One Term, Five Schools of Thought. DOI:10.1007/978-3-319-00026-8_2

Figure to enhance understanding of tools





Paradigm Shifts



- Workflow culture
 - Pairing the need for success with teaming procedures
 - Practicing the sharing of knowledge as a common team and stakeholder activity
 - Linking knowledge to identified and deeply shared values
 - Constantly underscoring that information networks are human networks
 - Recruiting scientific team members and stakeholders that already understand the value of openness and sharing

McDermott, R., & O'Dell, C. (2001). Overcoming cultural barriers to sharing knowledge. *Journal of Knowledge Management*, 5(5), 76–85.



Paradigm Shifts, cont.



- Ownership of knowledge
 - Attitudes
 - Individual Ownership <> Group Ownership
- Readiness to share openly
 - Collaborative
 - Technological
- Functionality and organizing structures
 - Group-driven to User-driven
- Trust