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The Data-enabled Revolution in Science and Society: A Need for National Data Services and Policy

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Modern science is undergoing a profound transformation as it aims to tackle the complex problems of the 21st Century. Across all domains, science is becoming highly collaborative, computational, and data-intensive, requiring new methods, new services, new approaches, and new policies to accelerate discovery through data sharing, publication, and repurposing. These issues are not only critical to support the increasing demand for interdisciplinary approaches to science, they go to the heart of reproducibility of science in a digital world. I will illustrate trends with examples from astrophysics, materials science, social science, and more, and describe a vision for national data services and policies that aim to address some of these needs.

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