

A pair of hands is shown from the front, cupping a small, vibrant green seedling with three leaves and a small amount of dark soil. The background is a soft, out-of-focus light color. The text is overlaid on the image.

Topic: Sustainable Data Stewardship

– the data collection and ethics group

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- **General concept:** the practical and ethical aspects of managing data in a way that protects against current and future cybersecurity threats
- **Why is this a cybersecurity problem?** The unbridled disclosure, collection, aggregation, and use of data by individuals, social networks, companies and government agencies has profound implications for cybersecurity

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- **What are the problems?** data breaches (e.g. OPM), insider threats (e.g. Snowden), phishing attacks, social engineering...
- **How can we address these problems?**
 - **Social solutions** (incentives, training, regulations)
 - **Technical solutions** (de-identification, encryption, differential privacy, access control, secure multi-party computation)

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- **What are possible challenges?**
 - **Multiple sources:** Seemingly innocuous data can be collected and aggregated to reveal sensitive information
 - **Multiple actors:** Every data actor needs to protect data not just for their own benefit, but for the greater good
 - **Multiple time spans:** How do we protect data collected now from future (mis)use?

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- **What are related areas and people to invite?** Ethicists, law scholars, privacy scholars, decision scientists, cryptographers, data scientists, industry/.gov/.mil CIOs