

Decision Science for Infrastructure Transitions

Test Human Decision-Making Interventions

- Design randomized control trials to test human-computer interfaces, risk communications, and trainings in the lab and field
- E.g. AI interface for kidney transplant process

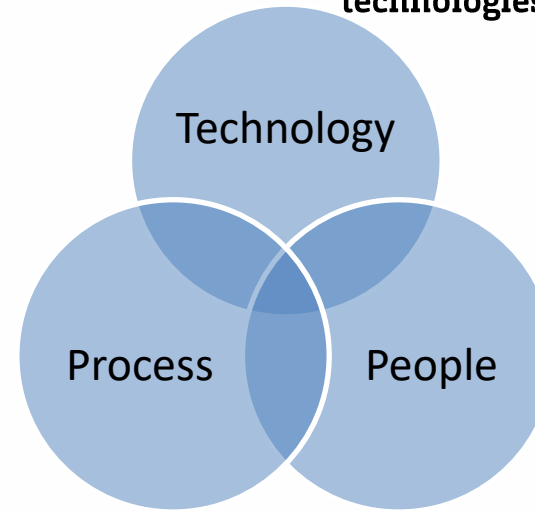
Measure Program Impacts

- Use quasi-experimental techniques to evaluate the impact of government and industry programs
- E.g. SolSmart national designation program evaluation

Model and Simulate Socio-technical Systems

- Perform risk, benefit-cost, uncertainty, sensitivity analysis
- Predict impacts of behavioral interventions on system
- E.g. Rural broadband adoption simulation

Use Decision Science to develop human-centered approaches for managing transitions to new technologies.



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Keywords

- Human Systems Integration, Socio-Technical Systems, Risk Management, Infrastructure Policy, Energy Systems, Rural Broadband, Artificial Intelligence, Human Machine Teams, Participatory Research

Recognitions

- ITIF Energy Innovation Policy and Management Scholar, 2019
- NSF Graduate Research Fellowship, 2013-2016