

# HEIBRIDS LECTURE SERIES

## LECTURE SERIES



**Wednesday**

**2<sup>nd</sup> November  
2022**

**16.00 – 17.00**

**Location:**

**ZOOM (link will be shared via  
email)**

## **MultiSector Dynamics: Advancing the Science of Complex Adaptive Human-Earth Systems**

**Speaker: Pat Reed, Cornell University**

### **Abstract**

The field of MultiSector Dynamics (MSD) explores the dynamics and co-evolutionary pathways of human and Earth systems with a focus on critical goods, services, and amenities delivered to people through interdependent sectors. The United States Department of Energy (DOE) is supporting the development of MSD as a new research field, through several critical investments that leverage a rich legacy of science, modeling, and analytical capabilities. This talk synthesizes insights from these early investments and recent efforts of the MSD Science Steering Group to formulate a vision for the next decade of research opportunities. Central to this vision is the ambition of advancing the next generation complex adaptive human-Earth systems science to better address interconnected risks, increase resilience, and improve sustainability. Given growing climate risks and their dependence on accelerating energy transitions, designing for a resilient and sustainable future requires embracing the complexity of interconnected and ever-changing human and natural systems.

Co-authors MultiSector Dynamics Science Steering Group

<https://multisectordynamics.org/>

**Next Lecture: November 16, 2022**