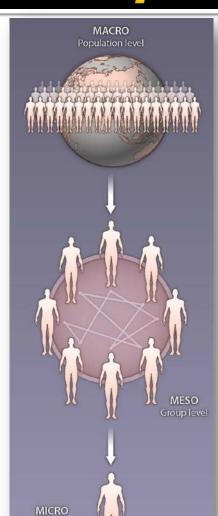


## Plenary Panel: Science of Groups and Teams



# Perspective





### Society

#### **Disciplines/Fields**

Institutes/Universities

**Departments/Centers** 

Teams

Individuals

## The Scholarly Study of Science Foundational Approaches



### **History and Philosophy of Science**

- Decades long tradition of scholarly work examining science and medicine through historical lens
  - Examines how humanity's understanding of the natural world has changed over the centuries
  - Addresses how assumptions (e.g., about concepts or process) influence production of knowledge
  - Considers what drives fundamental shifts in how or what of science (e.g., paradigm shifts)
  - Studies the cultural, economic, and political impacts of scientific innovation



## The Scholarly Study of Science Foundational Approaches



### **Social Studies of Science**

- Studies of scientific knowledge, policy, and R&D
- Examines dynamics of science including relationship to politics, society, and culture

### Science & Technology Studies

- Examines social dimensions of science and technology
- Explores the role and ethical implications of S&T in society



## The Scholarly Study of Science Foundational Approaches



### **Scientometrics**

- Measures and analyzes science, technology, and innovation
- Examines scientific impact (e.g., bibliometrics)
- Maps scientific fields

### **Science of Science Policy**

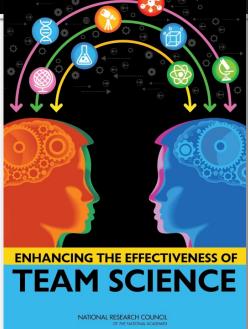
- Relies on quantitative data and qualitative information
- Seeks to provide rigorous, quantitative basis for science policy
- Develops theory and models to guide decisions about investments in science





## The Science of Team Science Why Study Teams in Science

- Science of Team Science (SciTS)
  - Exists a complementarity in our goals
  - Draws from iterative give-and-take between understanding and use
  - Must understand how to make full use of the intellectual capacity of science teams



- (1) Studying science teams to:
  - Gain fundamental understanding about the production of knowledge
  - Develop methods and models to improve the scientific enterprise
- (2) Applying what is known to improve effectiveness of science teams
  - Utilize concepts from study of other team types (e.g., team training)
  - Draw from measures and metrics of teamwork (e.g., information sharing)

# The Science of Team Science *Panel: Science of Groups and Teams*

Panelists: Lindred L. Greer, John R. Hollenbeck, Dan R. Ilgen, Steve Kozlowski Moderator: Stephen M. Fiore, University of Central Florida

- Lindred L. Greer Associate Professor of Organizational Behavior at Stanford School of Business
  - Focuses on group dynamics in groups in early phases of development
  - Interested in the social dynamics surrounding power, conflict, and diversity in groups
- John R. Hollenbeck is University Distinguished Professor at MSU and Eli Broad Professor of Management at the Eli Broad Graduate School of Business Administration.
  - Studies team structure, composition and performance.
  - Interested in self-regulation and goal setting processes
- Daniel R. Ilgen is John A. Hannah Distinguished Professor Emeritus at MSU in the Departments of Psychology and Management
  - Studies work motivation and performance evaluation in organizations
  - Interested in team behavior and leadership

# The Science of Team Science *Panel: Science of Groups and Teams*

Panelists: Lindred L. Greer, John R. Hollenbeck, Dan R. Ilgen, Steve Kozlowski Moderator: Stephen M. Fiore, University of Central Florida

#### Structure for Panel

- Part 1 Panelists research area and questions/issues for team science
- Part 2 Open the floor for Q&A and Discussion

