**PSDynamicsM**

Purpose:

1. Understand the impact of feedback within complex systems.
2. Identify key concepts of dynamic complexity.
3. Utilize feedback processes to learn and inform the decision making process.

Objectives:

1. Understand the relationships between of positive and negative feedback loops within a complex system.
2. Describe three factors of complex systems that give rise to dynamic complexity such as: *governed by feedback*, *nonlinearity*, and *history-dependent*
3. Understand the constraints of bounded rationality (cognitive maps) and the necessity of concepts of dynamic complexity.

Message:

1. Move beyond reductionist view of systems towards a “holistic” view that considers interdependent causal relationships and account for properties such as feedback, delays, and system structure.
2. The value of “dynamics to learn” as an iterative process of incorporating feedback to shift mental models to inform decisions that drive structural change within a system.

Materials:

1. Water container and glass.
2. Traffic example; picture of a traffic jam or whiteboard. (more explanatory)