Navigating Complexity:
Designing the Future through System Dynamics
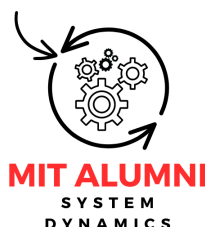### July 25th, 2024
Thursday
12:00 pm EST - 1:30 pm EST
*This event may extend to 2:00 pm EST for the online speed networking portion

Amidst economic dynamics and global events that trigger systemic shocks and cascading changes, the subtle and often delayed impacts can be challenging to detect and understand. Innovative management science stands at the forefront, providing clarity and insight into the complexities of interconnected social and technological systems. System Dynamics, a pioneering field created by Professor Jay W. Forrester at the MIT Sloan School of Management in the 1950s, gives leaders and decision-makers alike hindsight, foresight, and insight by looking broadly and deeply.

Join us to explore systemic complexity at "Navigating Complexity: Designing the Future Through System Dynamics." This three-part event brings together thought leaders and practitioners to delve into the intricacies of interconnected systems, feedback effects, and innovative problem-solving approaches. Discover how to think about and design systems that enable aligned decision-making and learn from real-world use cases, such as minimizing airline delays through intelligent tail assignment.

Beginning with two presentations by MIT Alumni, James Paine, 23' from the MIT System Dynamics Group, Assistant Professor of Analytics and Operations Management at the Freeman College of Management at Bucknell University, and Kenny Groszman, LGO '22 from British Airways, this event will provide attendees with invaluable insights into the principles of system dynamics, focusing on interconnected systems, feedback effects, and collaborative decision-making. Learn, discover, meet others, share your challenges, and ask questions through Q&A, breakout room sessions, and the online networking portion.

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Event Agenda:

Event Welcome

☐ MIT Leaders for Global Operations (LGO)

☐ MIT Alumni System Dynamics by Steve Smith,'19

I. Speakers:

☐ An Introduction to Systems Thinking & System Dynamics by James Paine, PhD '23

☐ Integrated Operations at British Airways by Kenny Groszman, LGO '22

II. Breakout Rooms Interactive Session:

☐ **Room 1:** Systems Thinking, System Dynamics, Bridging Open-Loop and Endogenous Feedback-Rich Approaches with James Paine, PhD '23

☐ **Room 2:** Designing Aligned Decision-Making Systems with Kenny Groszman, LGO '22 British Airways

☐ **Room 3:** Open General Discussion

III. Online Speed Networking Interactive Session: Automated online speed networking rounds

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