

# Themes for SERC Focus

- 1. Workforce:** need better ways to systematically capture and communicate experience and must actually do that capture and communication and show others how to do it
- 2. Uncertain World:** processes and organizations must be more agile, faster, enable parallel thinking, non-deterministic, cannot predict right requirements, cannot verify systems, emergent behavior; irrational people decisions; field, fix, and iterate rapidly
- 3. Technology transition:** treat tech transition as a first class problem – research on how to do it better and focus on doing it better
- 4. Fundamental science/analysis:** need better techniques and tools to understand and predict complexity, architectures at the scale of problems we now face; there is no underlying science of systems engineering