

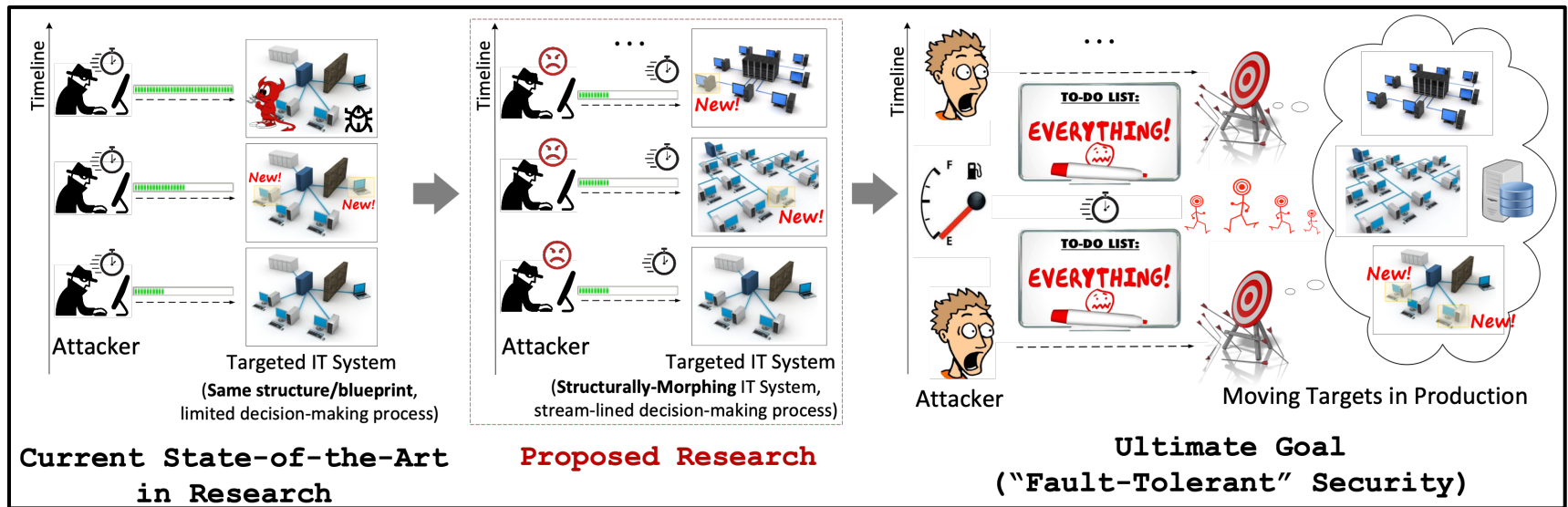
Creating and Managing Structurally-Morphing IT Systems – Moving Targets

Challenge:

- Creating and managing structurally-changing (morphing) IT systems in real-world scenarios

Scientific Impact:

- Facilitate a change from “compromise and persist” to the more challenging obligation of repeatedly attempting to compromise a constantly-changing IT system



Solution:

- A service-mesh-based framework for creating and managing structurally-changing (morphing) IT systems
- Building blocks: service meshes, virtualization, containers, and configuration management tools

Broader Impact:

- Structurally-morphing IT systems will force a change in the current modus operandi of cyber-attackers
- Rebalancing the cyber security landscape by increasing the amount of resources attackers need to spend