

Aggregated Systems Challenge

Problem Dimensions

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Goal of Challenge

- ❑ Demonstrate practical approaches to guaranteeing end-to-end timeliness in applications running in complex, aggregated environments

Goal of Session

- ❑ Identify the requirements of problem space
- ❑ Select or synthesize a small number of use cases.
- ❑ Drive statement of requirements based on the experience of users.

Characteristics of Environment

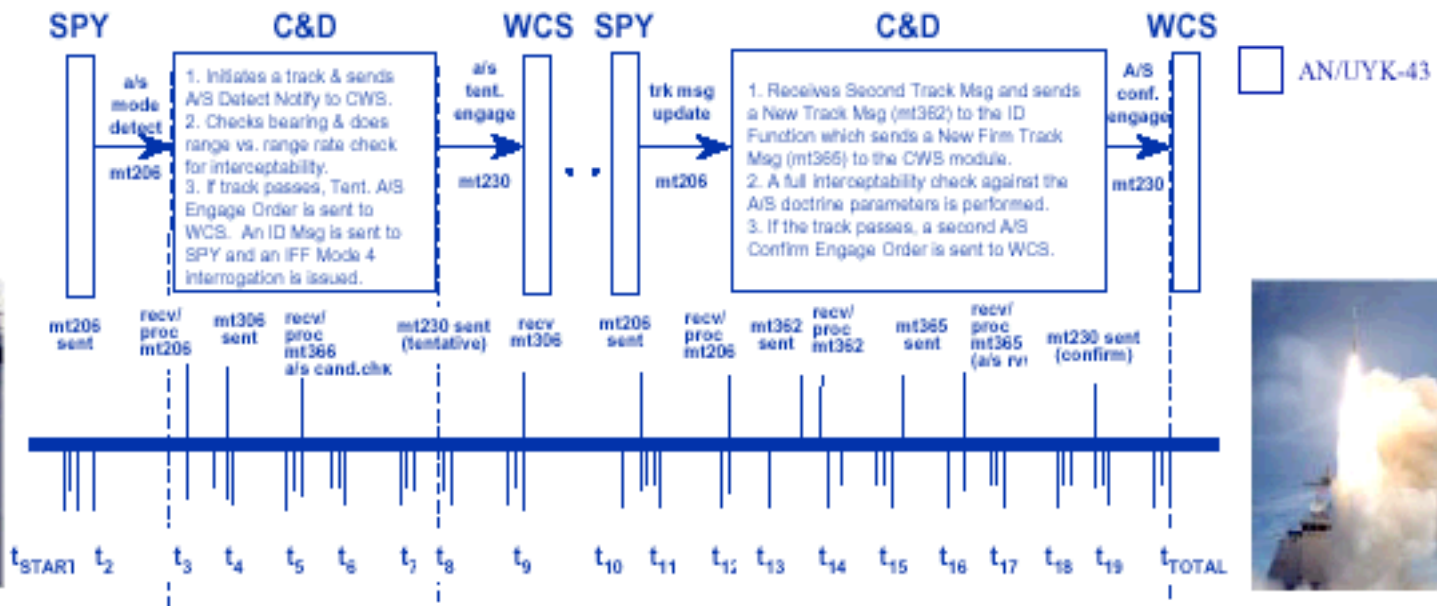
- ❑ Predictable response critical
- ❑ Multiple programming and communication paradigms
 - E.g., database, remote invocation, messaging passing
- ❑ Multi-vendor
- ❑ Distributed



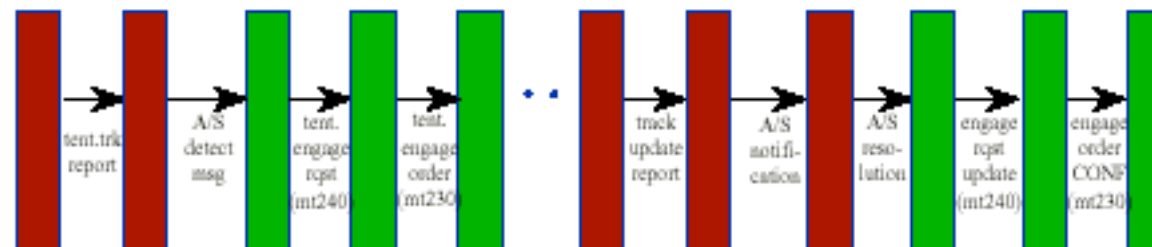
Why DD-21 Needs Assured Response: SPY Radar Auto-Special Time-Line



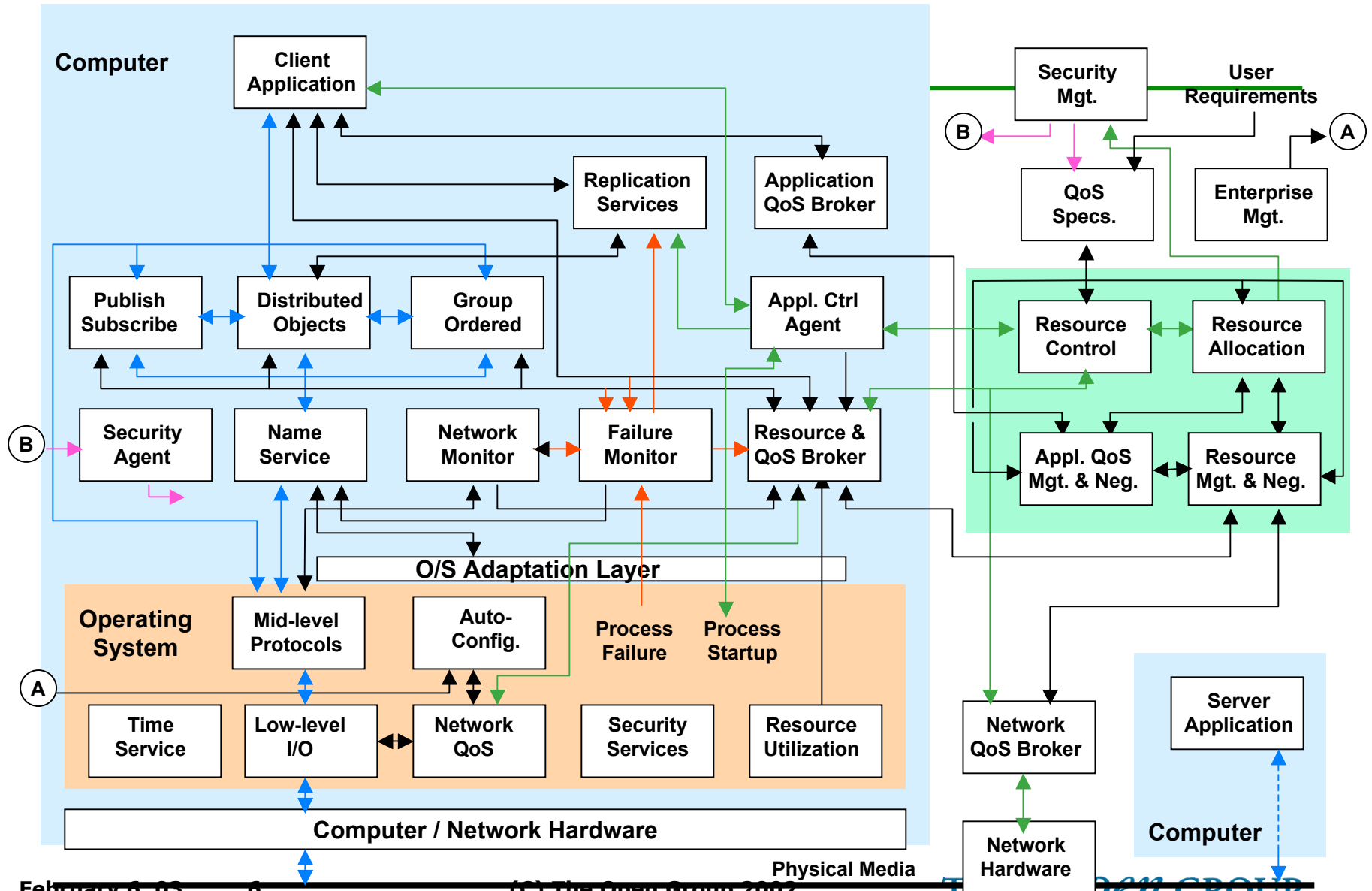
**CURRENT
AWS**



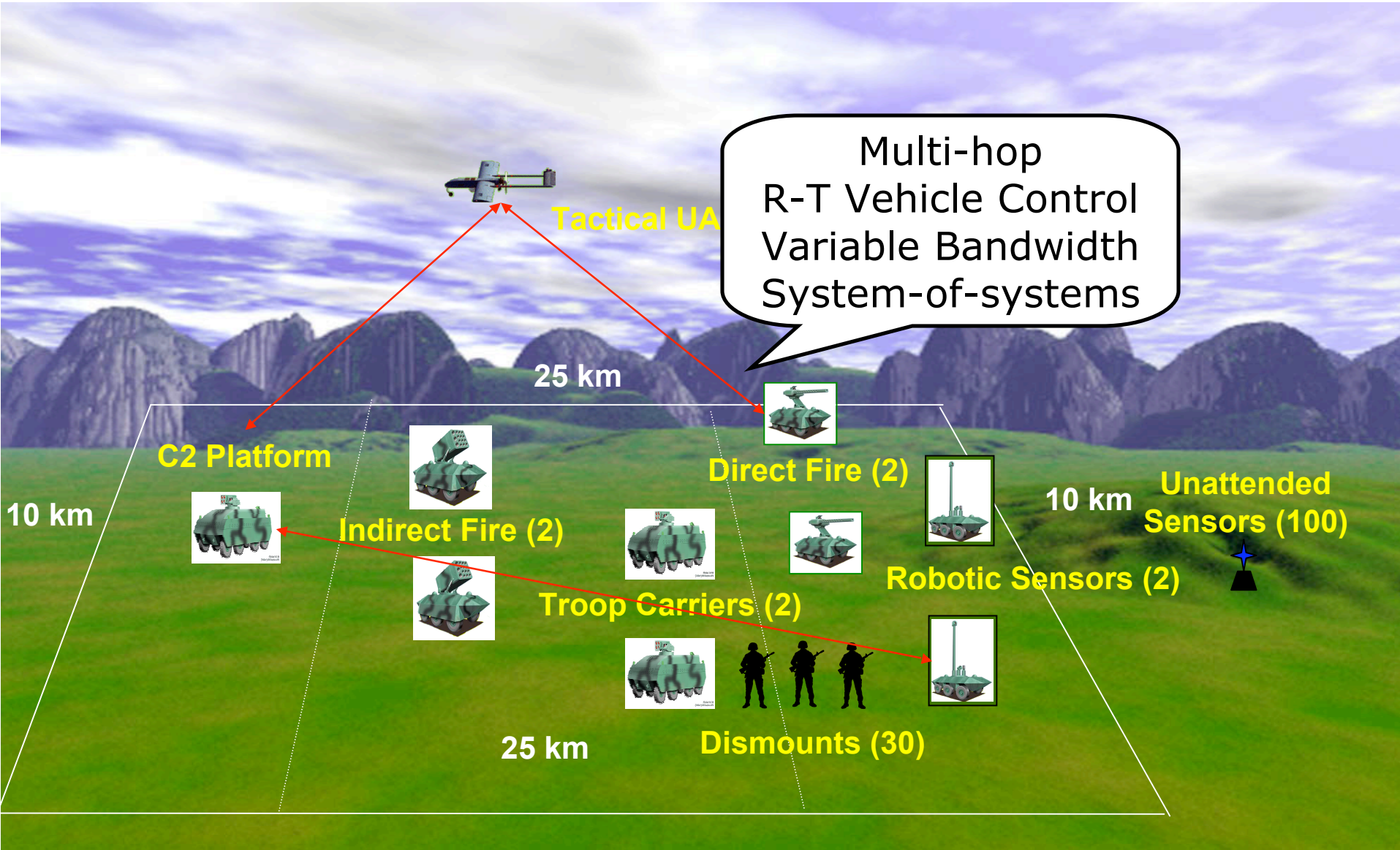
AdCon-21



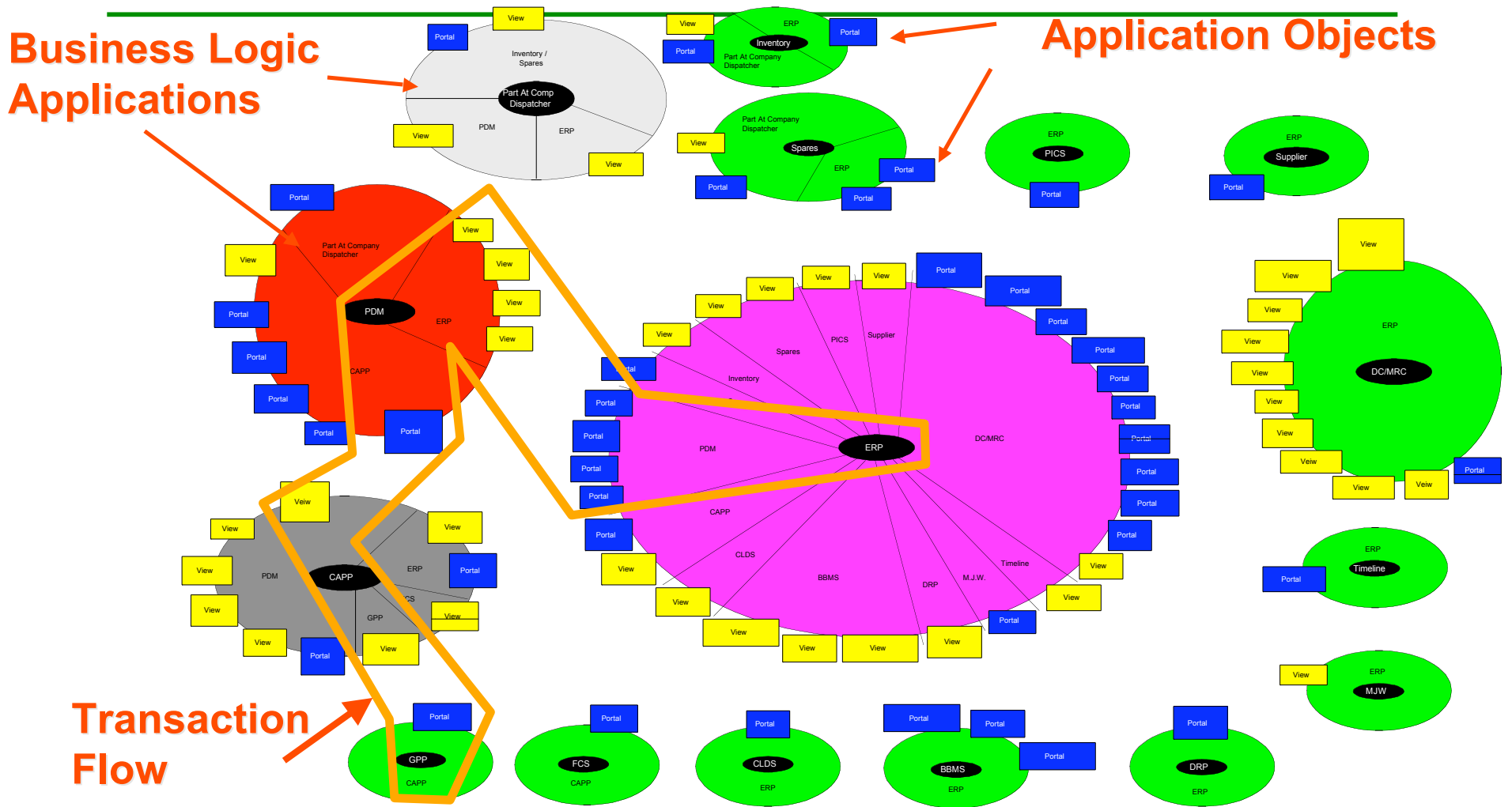
OACE Reference Architecture



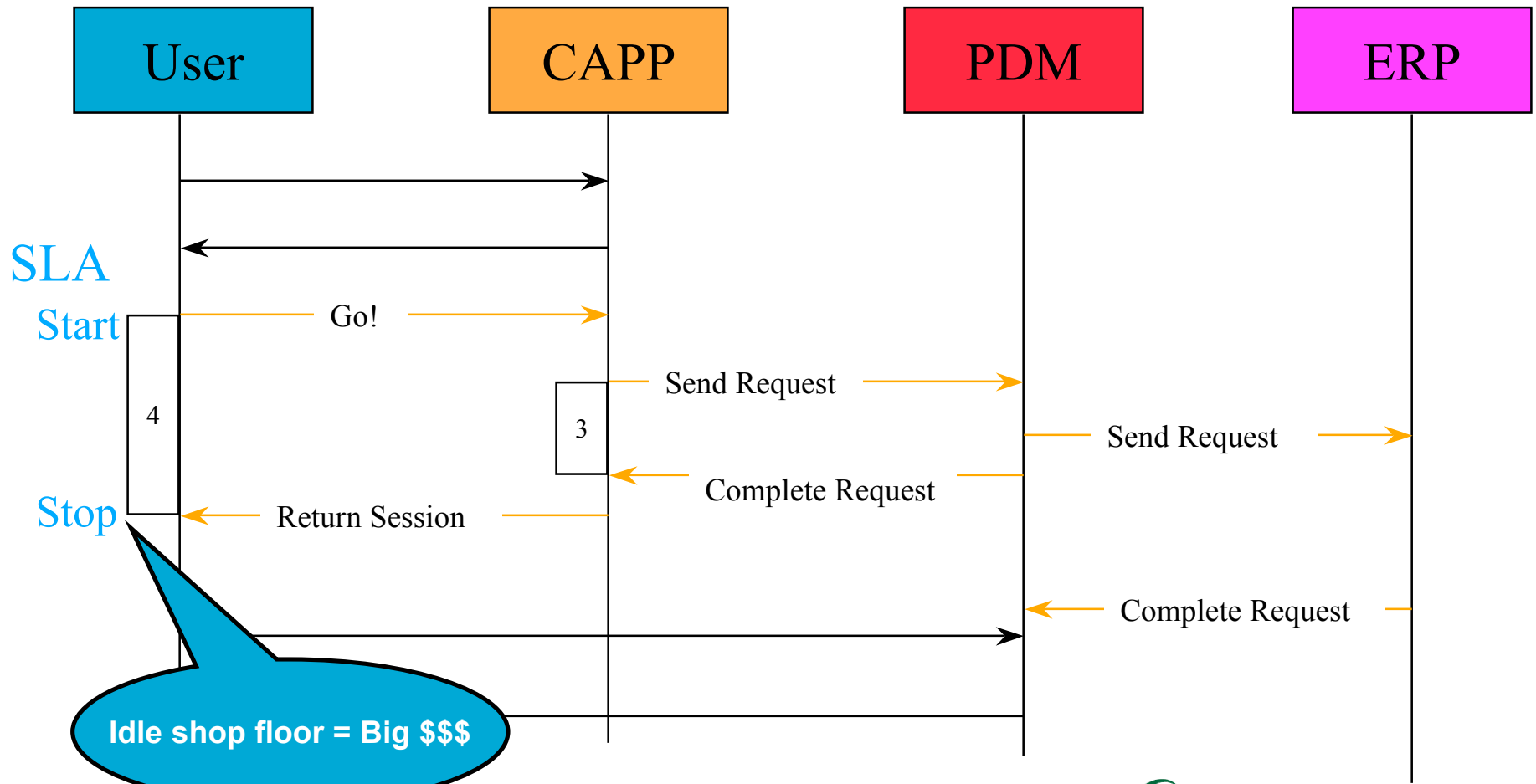
Example: FCS



Example: Manufacturing



Real-Time- Temporal Value Function



Next Steps

- ❑ Brainstorming on example problem
- ❑ Requirements Gathering
 - Objectives
 - Format
 - Guidelines
- ❑ Identification of Resources
- ❑ Action Plan