Enterprise Architecture in SAFe

September 2019
Agenda

1. Problem Summary
2. SAFe®’s Architectural Runway
3. Q&A
Lack of structure in Enterprise Architecture leads to **Excessive Redesign** and **Delays**

**Challenges...**

- Architect interaction is inconsistent
- Emergent designs are reactive not proactive
- Difficulty to communicate architecture changes across delivery areas and teams
- Architecture deliverables are not integrated into team execution and Agile activities

**Impact...**

- Low reuse of common components
- Excessive redesign due to changing Architecture principles
- Lack of visibility, common governance, oversight, and effective collaboration

Emergent designs are reactive not proactive
The EA Framework formalizes the interaction between Architects and Teams

PI ENTRY CRITERIA

“Just Enough” Architecture - No BDUF

ARCHITECTURE RUNWAY

Intentional Design are planned architecture design / initiative

Emergent Design is about discovering and extending architecture necessary to implement new features

Runway develops and houses common patterns, attributes, and artifacts employing a DevOps mindset

Final Solution Architecture will impact the Enterprise

TECHNICAL BACKLOG

Intentional Design

Emergent Design

TEAM

SPRINT

Feature

Epic

Epic

Epic

Epic

Architects identify Features and Epic based on initial Architecture
“Just Enough” and Intentional Architecture prepares the Architectural Runway to Evolve throughout the Program

**PI ENTRY CRITERIA**

**“Just Enough” Architecture**

✓ No Big Design Up Front
✓ Testable and deployable
✓ Includes known impacts to Enterprise Architecture
✓ Leverages DevOps Mindset to make sure the system always runs

**Intentional Architecture Features/Epics**

✓ Set of planned architectural guidelines to enhance solution design, performance, and usability
✓ Provide direction to all other teams
Emergent Designs Support Discovery and Extending Architecture necessary to implement new features

Enterprise Architects Responsibilities
- Own Program-level technical and exploration work in Architectural Enablers
- Incorporate Emergent Design in runway’s technical backlog

Interaction with Teams
- Attend Planning session and Sprint Demos to track Progress
- Provide architectural principles and constraints for design to teams as identified

Emergent Designs Examples
- Impact to Legacy Applications
- New Integrations
- Security constraints
- Usability

Level of Abstraction
- High
- Low
The foundation of SAFe®’s Architectural Runway results in **End-to-End Architecture** which incorporates **Emergent Designs** early and often.