Platform and Evolvability Course

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Abstract

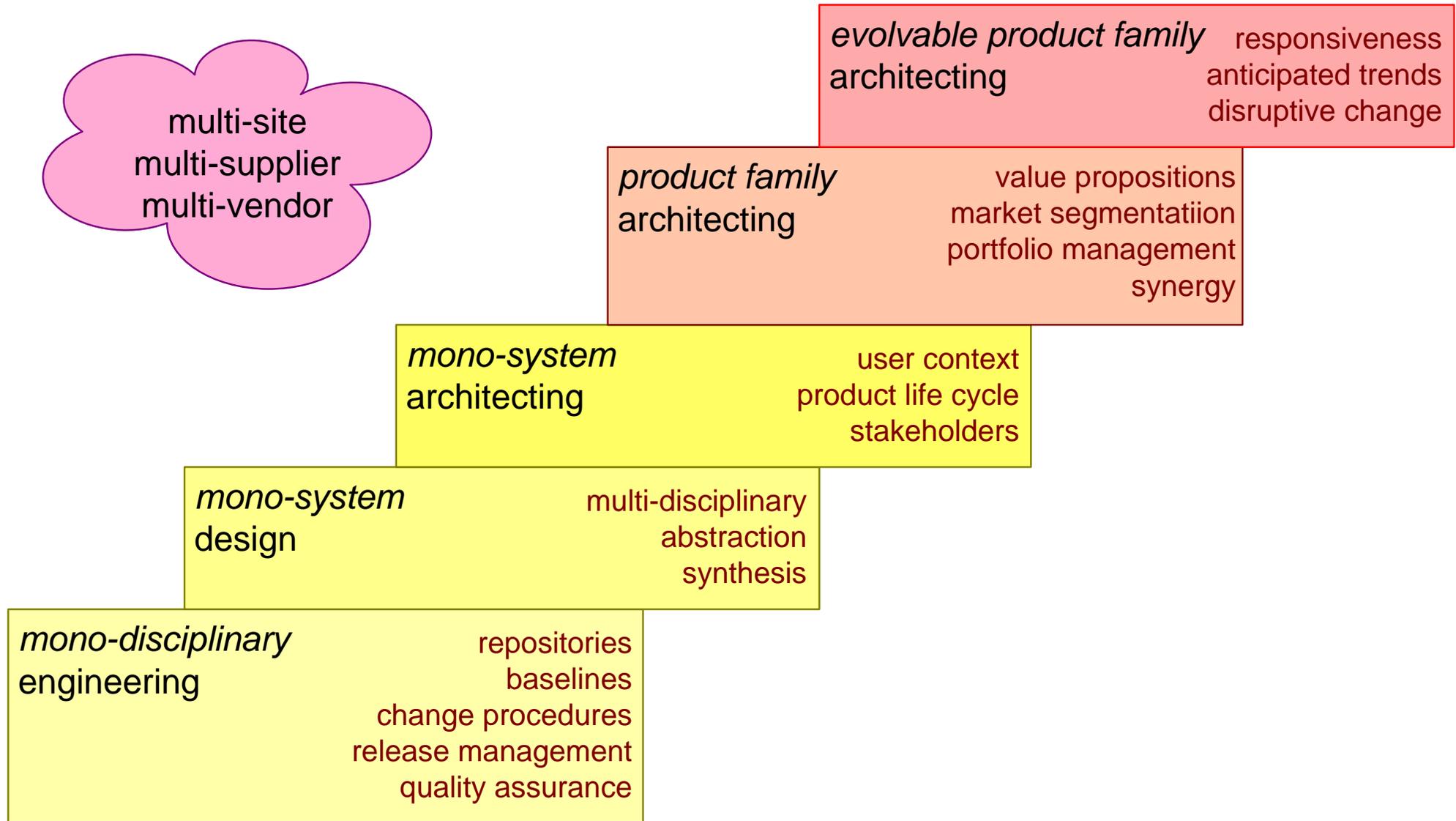The course Platforms and Evolvability addresses the architecting of evolvable product families based on a common platform.

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logo
TBD

Prerequisites for Evolvable Product Family Architectures

multi-site
multi-supplier
multi-vendor

evolvable product family
architecting

responsiveness
anticipated trends
disruptive change

product family
architecting

value propositions
market segmentatiion
portfolio management
synergy

mono-system
architecting

user context
product life cycle
stakeholders

mono-system
design

multi-disciplinary
abstraction
synthesis

mono-disciplinary
engineering

repositories
baselines
change procedures
release management
quality assurance

USN   ESI

Program

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1 Why & What Evolvable Product Families
exercise:
- identify products in family
- identify platform boundary

2 Market analysis (stakeholders&concerns, market segments, key drivers)
exercise:
- take 2 most distant products
- make key driver graph, one for each product
- identify tensions in interests

3 Engineering & Design (repositories, configuration management, testing, configurability, resource management, ...)
exercise:
- show repository structure and quantify

4 Process & People (development lifecycle, product lifecycle, goods flow, supply chain, creation chain, ...)
exercise:
- make map of processes & people involved; be specific (names) and quantify

5 Reference architecture
exercise:
- make top 3 views
- identify next 7 views

6 Assessment & Evolution
exercise:
- define 3 change cases
- determine impact of 1 change case

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