



Agile Architecture

Software Architecture 2020-2021

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What is agile architecture?

“Set of values, practices and collaborations that support the active, evolutionary design and architecture of a system. “

“How an enterprise, system or software architect apply architectural practice in agile software development.”

Has variable scope: single applications, family of applications...

Some characteristics



Evolves over time



Avoids delays associated
with waterfall processes



Ensures that the system
always runs



Balances emergent design
and intentionality

“Agile methods are the car’s steering wheel, not the gas pedal.”



Roles

- Team members
- Product Owner: Gives direction, Steers the Wheel to maximize value
- Stakeholders : users, customers, governance
- Team lead / Scrum master when applicable
- "Supporting cast" -> Technical experts, Domain experts, Independant testers.

A flatter structure

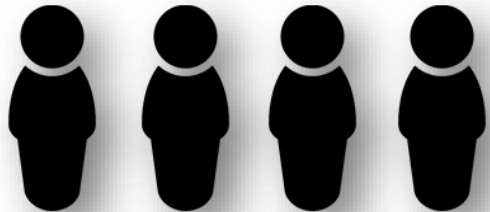
- Reduce bureaucracy
- Aim for self-organizing teams (11th principle of Agile)
- "Steering" decision come from inside the team, and not from entities far removed from the developing process.

How to be a good agile architect?

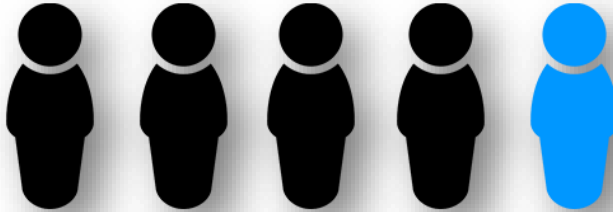


Agile teams

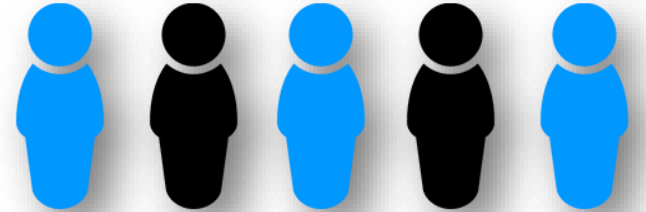
- Team organization



Architect outside the team

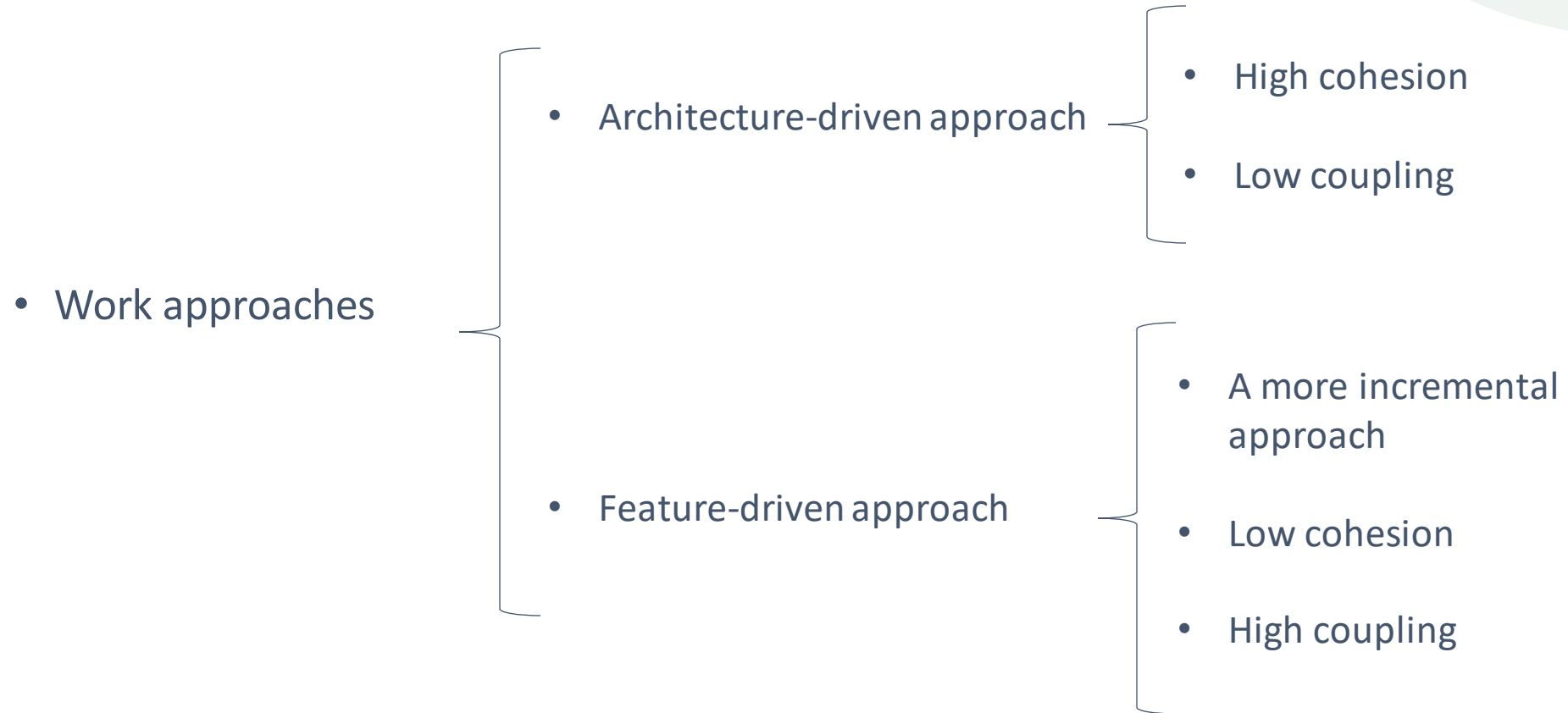


Architect inside the team

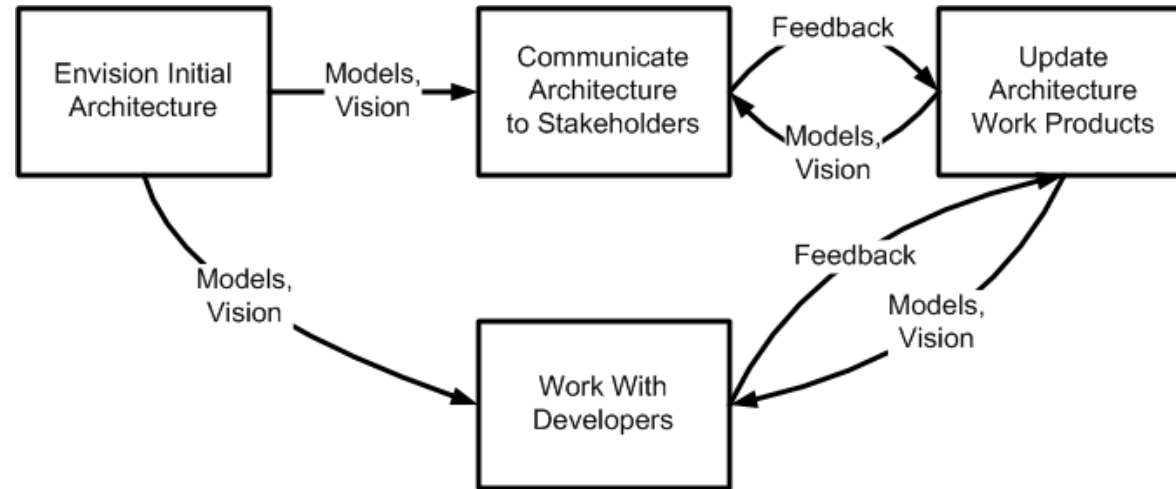


Several architects

Agile teams



Agile architecture process



Architecture work products evolve and are
fleshed out over time



Questions?

