

Chapter 5 - Architecture

Loosely Coupled leads to High Performance

Focus on Deployability and Testability

- Local Testing
- Independent Releases
- Design Systems so that they are Loosely Coupled

To Achieve this:

- Create Cross Functional Teams that can Design, Develop, Test, Deploy and Operate System

Decouple Large Domains with

- Bounded Contexts
- APIs

Ensure communication bandwidth isn't overwhelmed

Allow Teams to Choose their Tools

Standardization Enables

- Reduce Complexity
- Ensure Skills in place
- Increase Purchasing Power
- Ensure correct Licensing

Downside

- Lack Flexibility
- Prevents Teams choosing Best Tool for their Needs
- Prevents Experimentation

Better to Let the Team Decide

Enable Teams

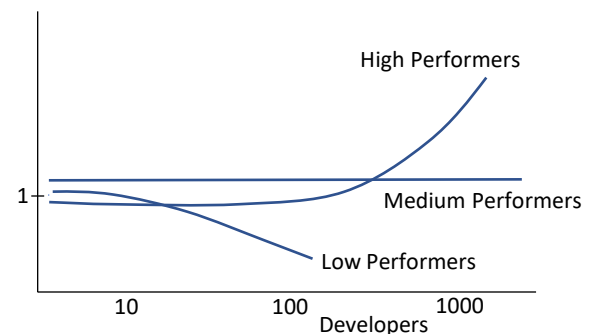
To make Changes to their Product and Services

- Support Developers

“Design Systems...are copies of communication structures of the organization” Conway 1968

Loosely Coupled Architecture Enables Scaling

- Enables more developers to work on system
- Measure is Deploys/Day/Developer



Architects should Focus on

- Engineers
 - Outcomes
- Rather than
- Tools
 - Technology

Organizational Structure → Architectural Structure