

# A MIND FULL OF SOFTWARE ARCHITECTURE

” The best architectures, requirements, and designs emerge from self-organizing teams.  
(from the Agile Manifesto)

- Quality Attributes**
- Maintainability
  - Usability
  - Reliability
  - Security
  - Performance Efficiency
  - Functional Suitability
  - Portability
  - Compatibility

The key quality attributes required; detailed and prioritized for the specific project

## Potential Subjects for Constraints

- Organizational Constraints**
- Deadlines, budget, regulatory requirements, agreements, laws, team(s), skills ...

- Technological Constraints**
- Runtime environment, technologies, operation aspects, make or buy, tools ...



- Decomposition**  
("How do we structure the system?")
- Architecture style, dependencies, interfaces ...

- Process**  
("How do we work?")
- Planning, developing, testing, building, deploying, reviewing, updating ...

## Potential Subjects for Decisions

- Technology Stack**  
("What do we use?")
- Programming languages, libraries, frameworks, persistence, databases, middleware, messaging, REST ...

- Runtime Environment**  
("Where does the software run?")
- Mobile, desktop, cloud, on premises, container, orchestration ...

The team is given varying levels of freedom to make decisions.

Technologies and runtime environment are usually at least partially set.