Abstract

Systems Architecting for project, product and service businesses are slightly different. These differences are reflected in the structure of the processes and the role of the architect. We elaborate the similarities in these businesses and the differences.
Projects versus Products

- **Project**
  - unique
  - customer specific
  - tailored to customer needs
  - tender-contract-execution
  - cost \( \sim \) project hours
  - investment by customer

- **Product**
  - catalogue
  - generic
  - "one size fits all"
  - mass production
  - economy of scale
  - investment in product design
Convergence of Projects and Products

harvest and use
standardized components/products

configuration and customization
customer specific at customer site

project

product

unique
customer specific
catalogue
generic
Simplified process diagram for project business

- Policy and planning
- Tender
- Project execution
- Deployment
- Systems architecting
- Product creation
- People, process, and technology management

Products, Projects, and Services; similarities and differences in architecting

version: 0
June 21, 2020
PPSProjectProcess
Example of extensive complex of services
Model of operational services

- **use results**
- **functional capability**
- **technical capability**
- **expert support**
- **initial production**

- **capability management**
- **facility management**
- **customer support**
- **factory**

- performance-based or service-level agreement
- conventional maintenance contract
- product acceptance and warranty
System of Systems

- autonomous
- different rate of change
- many heterogeneous systems
- many humans in the loop
- geographical distributed

consequences
- emergent behavior
- lack of understanding and overview
- continuous change
- more political and economic factors