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 $\approx$ 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
- 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

- contracts
- systems
- products or components

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

version: 0
September 5, 2020
PPSprojectProcess
Example of extensive complex of services

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

version: 0
September 5, 2020
Model of operational services

- **use results**
  
- **functional capability**
  - capability management

- **technical capability**
  - facility management
  
- **expert support**
  - customer support

- **initial production**
  - 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