

College of
Information Sciences and Technology

Enterprise Architecture Curricular Initiatives

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Penn State - College of IST

Three Curricular Options:

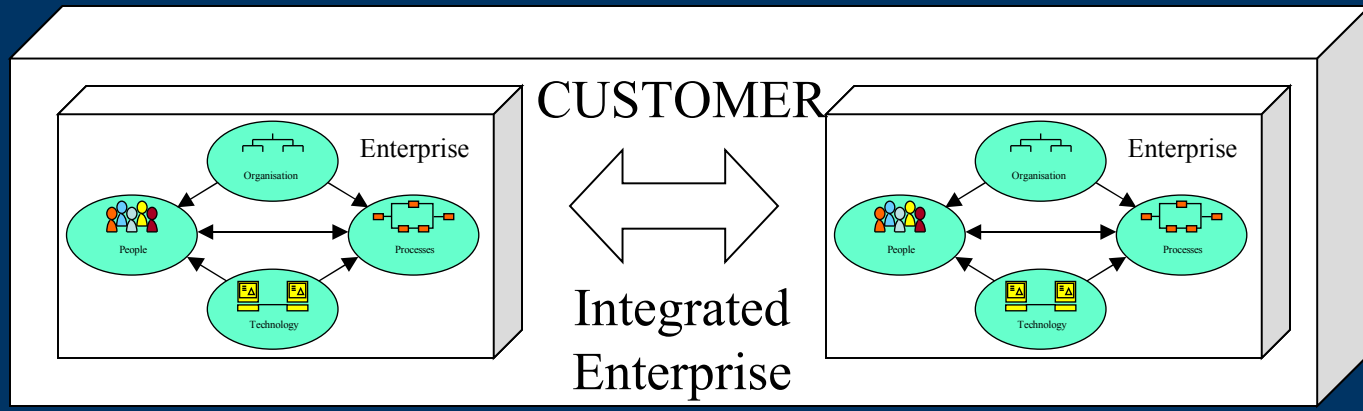
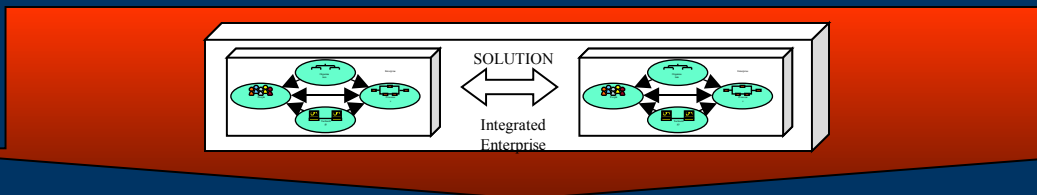
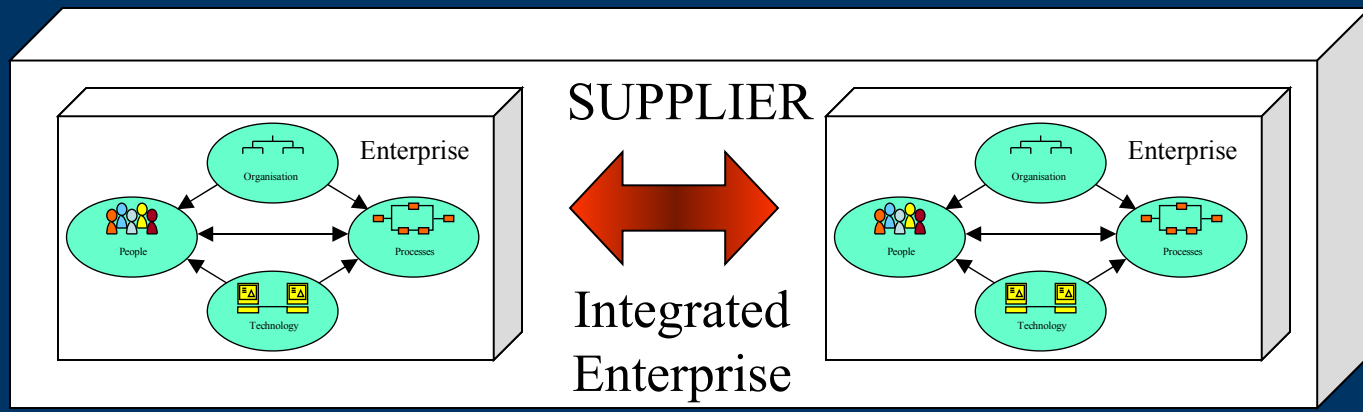
Information Technology: Integration and Application

– IST 420 – Fundamentals of Enterprise Integration

– IST 421 – Advanced Enterprise Integration

- Information Systems: Design and Development
- Information Context: People, Organizations, and Public Policy
- IST Goal: create well-rounded technology architects, consultants, and analysts

Enterprise Integration



The Enterprise as a System

- An enterprise has been described as a large complex socio-technical-economic system. (Vernadat 95)
- It can be modelled to facilitate “Enterprise Inter- and Intra-organisational Integration” (EI3).
- Modelling creates an architecture that defines structure and behaviour, capturing tacit knowledge.
- An architecture framework is used to facilitate and guide the creation of architectures.

Proposed Curricular Initiatives

- **Partnership with the Smeal College of Business Administration to create a joint undergraduate major in Enterprise Architecture**
- **Creation of a new online Professional Masters program with a focus area in Enterprise Architecture**
- **Creation of an Enterprise Architecture Certificate series for early career professionals**

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