Enterprise Architecture @ Penn State

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College of Information Sciences and Technology
Penn State’s College of Information Sciences & Technology

Founded in 1999

Unique Curriculum in Enterprise Integration

Unique Faculty Composition

IST Goal: create well-rounded technology architects, consultants, and analysts
Penn State College of Information Sciences and Technology (IST) EA Initiatives

• The College of IST is embarking on several groundbreaking educational initiatives in Enterprise Architecture (EA)

• The field is emerging as a critical discipline within industry

• However, higher education has been slow to create educational and research programs to address this growing area of importance

• In response to feedback from corporate and government stakeholders, the following initiatives are planned
Penn State College of Information Sciences and Technology (IST) EA Initiatives

• Partnership with the College of Business Administration to create a joint undergraduate major with a focus in Enterprise Architecture

• Creation of an online Professional Masters program in Enterprise Architecture

• Creation of an Enterprise Architecture Certificate series for early career professionals

• Creation of a Research Center in Enterprise Architecture

• Creation of an Enterprise Architecture Advisory Board (currently over sixty organizations with representatives from seven countries)
How We Got Here

- IST’s real-world/integration focus
- Involvement with The Association for Open Group Enterprise Architects (AOGEA), The Association for Enterprise Integration (AFEI), and other industry associations
- Prior work with Gartner’s EA Research Group
- Pilot EA course with Accenture – Spring 2008
- New initiatives at IST - New Joint B.S. and New Online Professional Masters
- Exploration of the EA Advisory Board
EA Advisory Group – Initial List

PricewaterhouseCoopers  Northrop Grumman
Lockheed Martin  Cisco
Boeing  BAE Systems
Accenture  Johnson & Johnson
State of Pennsylvania  Capgemini
Association for Open Group Enterprise Architects  Geico
Association for Enterprise Integration  Aetna
Forrester  AT&T
Gartner  AccessData
Computer Sciences Corp  Ernst & Young
IBM  Discover
Microsoft  Informatica
Honeywell  Tata Consultancy Services
EMC  Air Products
Oracle  Hershey's
SAP  Wipro
Deloitte  Cofinance Group
FedEx  US Air Force
Siemens  State Farm
Booz Allen Hamilton  Verizon
American Express  PNC Bank
US Department of Defense  AMR Research
MITRE  Bank of Montreal
National Institute of Standards and Technology (NIST)  Fujitsu
Disney  Raytheon
Bank of Montreal  Fujitsu
State Farm  Raytheon
Verizon  PNC Bank
PNC Bank  AMR Research
Development Challenges

• Perception of Enterprise Architecture as the “flavor of the day” by some individuals

• EA is evolving as a discipline and this evolution has been hampered by a lack of consensus on a comprehensive definition of EA

• Faculty Socialization/Understanding

• Marketing to Prospective Undergraduate Students
Plan for Moving Forward

- Complete creation of EA Advisory Group
- Kick-off Advisory Group this fall at University Park
- Begin initial seed research project(s) – Fall 2009
- Begin launch of select courses – Fall 2010
- Continue to develop and expand this unique EA community
- Explore future opportunities and expand successful initial initiatives
- Evolution into a research center within IST
Questions

• Which of the proposed EA initiatives would be of most interest to your organization and why?
• Which initiatives are of most interest to you personally and why?
• Are there other areas not on the list that we should consider as we move forward?
• Other comments & suggestions?
Discussion

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