Strategic Planning and Science and Technology (S&T) Portfolio Development

Robin L. Dillon-Merrill
The McDonough School of Business
Georgetown University
With Sonia Kaestner (Georgetown) & Paul Collopy and Dave Arterburn (University of Alabama-Huntsville)
S&T Management Course 3XX Roadmap

DAY 1
- Vision development
- Strategy & strategic planning
- Strategic planning frameworks
- Product innovation drivers
- Product innovation strategy

DAY 2
- Technology transfer process
- Strategy to implementation
- Innovation success factors
- New product performance
- Basic constituents of PM
- Organizational learning role in the management of innovation
- Better buying power

DAY 3
- Roadmapping drivers
- Types of roadmaps
- Roadmap formats
- The T-Plan Roadmapping Process Steps
- How to develop a roadmap
- Value of roadmapping
- Roadmap implementation
- Gotcha methodology

DAY 4
- Portfolio development/management processes
- Roles of bins in a portfolio
- Technology gaps and requirements analysis
- Technology alternatives
- Customer requirements and objectives alignment
- Risk management and cost benefit analysis

Topics
- Vision development
- Strategy & strategic planning
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- Technology gaps and requirements analysis
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- Customer requirements and objectives alignment
- Risk management and cost benefit analysis
- Value hierarchies
- Ranking procedures
- Optimization procedures
- Portfolio communication and marketing
- Portfolio integration and customer needs alignment challenges
- Best practices for technology transition
- IP impact on new techs.
- Strategy and tech. dev./transition alignment
- Impact of defunding R&D

Competencies
- 23 - Develop programs, which support strategic mission
- 24 - Write a vision and technology strategies
- 25 - Focus the LT strategies within global context
- 27 - Develop a customer focus
- 28 - Develop a technology roadmap for a technology area
- 29 - Generate a S&T and risk strategy
- 26 - Translate capability requirements development plans
- 30 - Manage human capital, financial resources, and laboratory/facility capital
- 31 - Develop S&T portfolios consistent with core functions, requirements & opportunities
- 32 - Develop S&T thrusts to maximize value to the warfighter
- 36 - Demonstrate working knowledge of goals, requirements, and processes in other services and agencies
- 33 - Develop and apply a prioritization schema
- 34 - Align technology projects with technology roadmap and investment strategy to meet customer timelines
- 35 - Coordinate programs, efforts, and communities to leverage S&T
- 37 - Collaborate internationally at a technical level
- 38 - Collaborate internationally at a programmatic level
- 47 - Assess IP and data rights during the development of new technology