



Acquisition Research Program: Creating Synergy for Informed Change

Educating Consumers of Modeling and Simulation: M&S Education for the Acquisition Workforce

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Report Documentation Page

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Background – Navy Project

- Acquisition M&S Working Group (AMSWG)
 - Acquisition M&S Master Plan Objective 5: Shape the Workforce
 - M&S education & training
- M&S Acquisition/T&E Mission - Enable the Department of the Navy to effectively use M&S within and across the Acquisition Enterprise
 - Need a unified approach for enabling the workforce to determine WHICH tools to use, WHEN to use them, and HOW to use them across development lifecycle
 - Need training options to improve workforce capabilities to select and use M&S tools effectively and efficiently. These include
 - Initial education and training, refresher training, continuing education, and certification opportunities
- Ultimate Goal: M&S savvy workforce, able to apply M&S tools appropriately to enhance warfighting capability, reducing lifecycle development time and costs.



MSCO Project

- MSSC C&CC Business Plan, “*The M&S workforce is not equipped with adequate education, processes, practices, tools, technology and resources to support the institutionalization of M&S across the DoD’s mission space.*” Workforce development needs specified in the plan:
 - A DoD **Human Capital Strategy** for M&S to articulate competencies required.
 - A widely-accepted multi disciplinary M&S **Body of Knowledge (BOK)**.
 - Dedicated **educational programs and curricula** are needed to enable DoD engineers, acquisition professionals and program managers to apply current technology with credibility.
- Project has been approved and funding is in place.



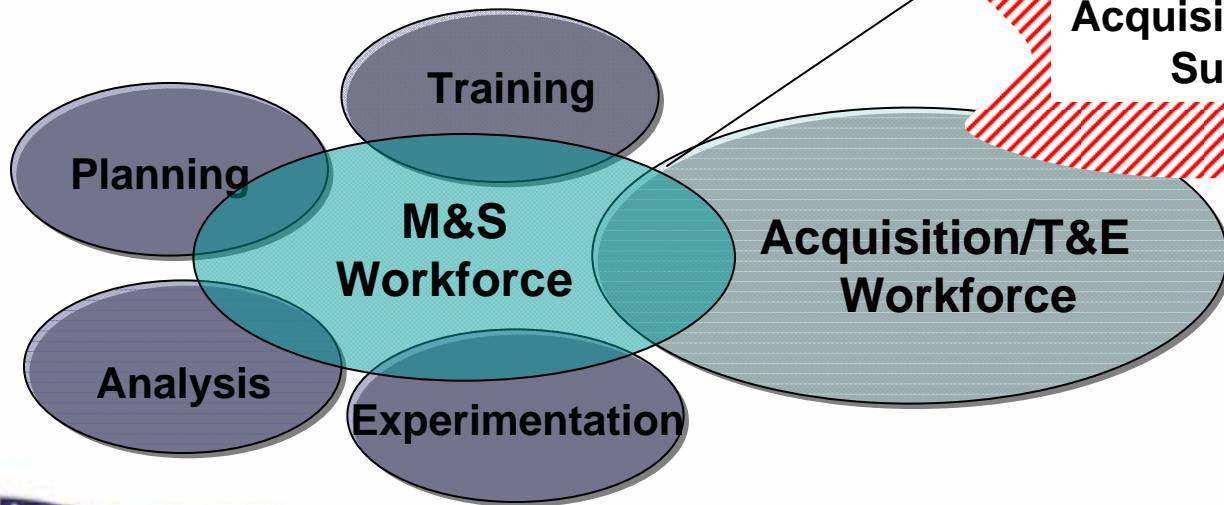
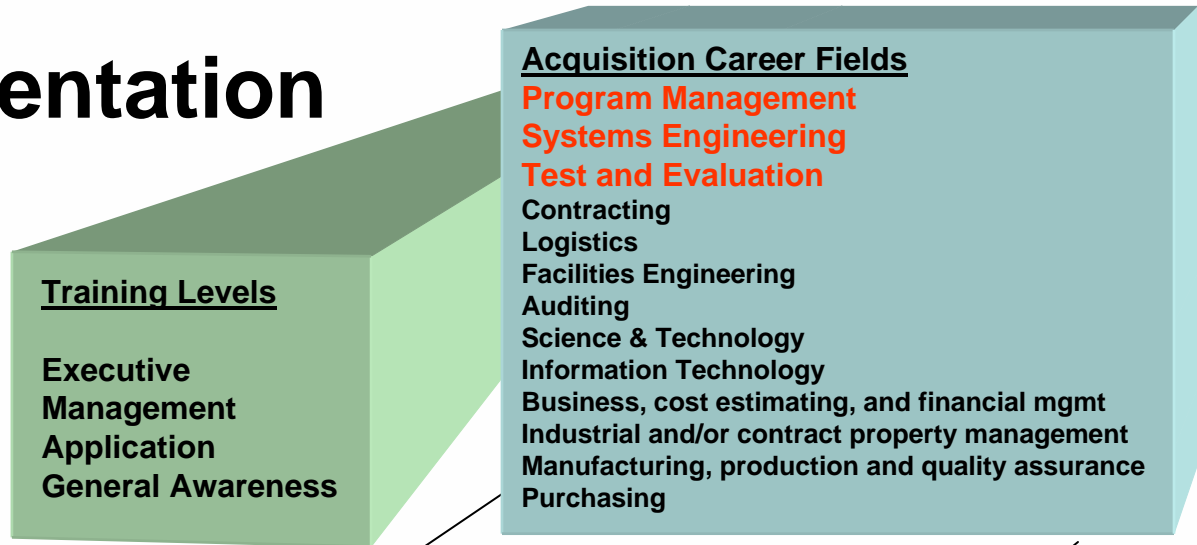
Market Segmentation

M&S Education for the Acquisition/T&E Workforce:

Building a M&S savvy workforce:

- WHICH tools to use,
- WHEN to use them,
- HOW to use them.

...Across the development lifecycle



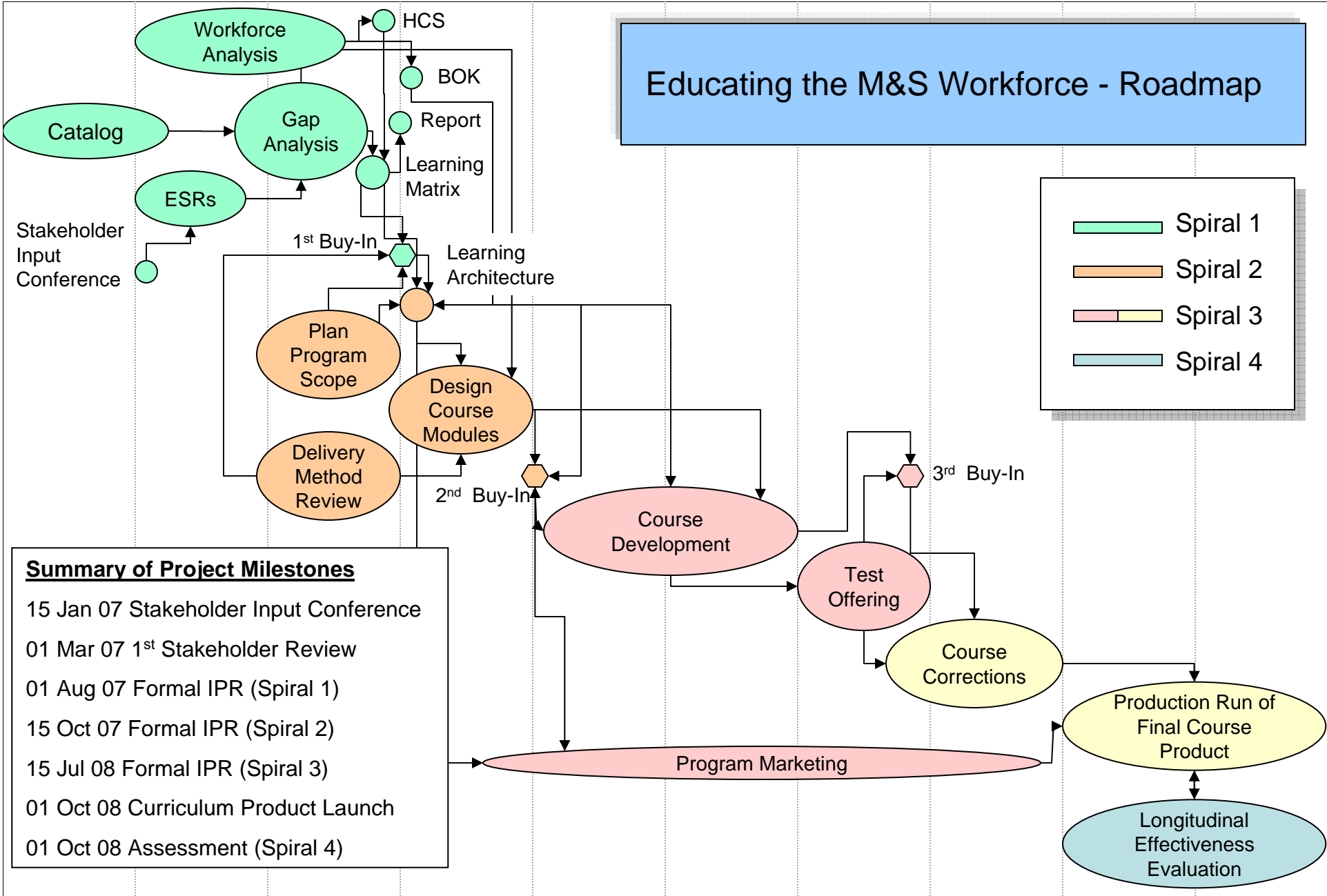
Project Overview

Deliverables are outcomes of each of 4 Spirals

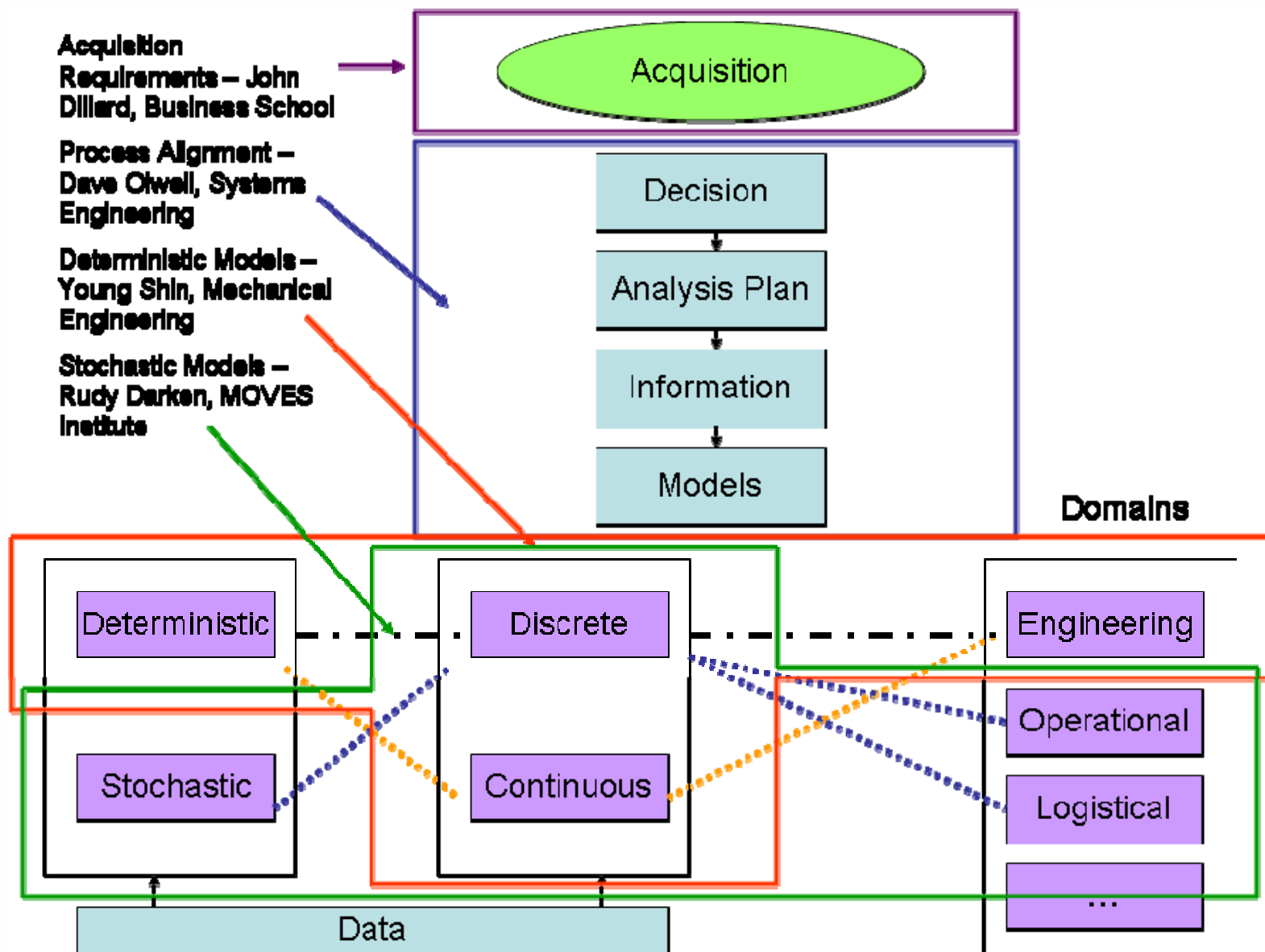
1. Learning Matrix
 - Desired instructional content based on ESRs for Acquisition workforce
 - Integrates educational background, learning style, workforce role, and desired education end state
 - M&S Workforce Education Gap Analysis
2. Learning Architecture/Instructional Framework
 - Degree/certificate programs and continuous learning modules
 - Content modules (course syllabi)
3. Prototype Curriculum
 - Develop curriculum from content architecture
 - Deliver with endorsement/accreditation to DAU, NPS and services
4. Assessment
 - Longitudinal Curriculum Effectiveness Evaluation



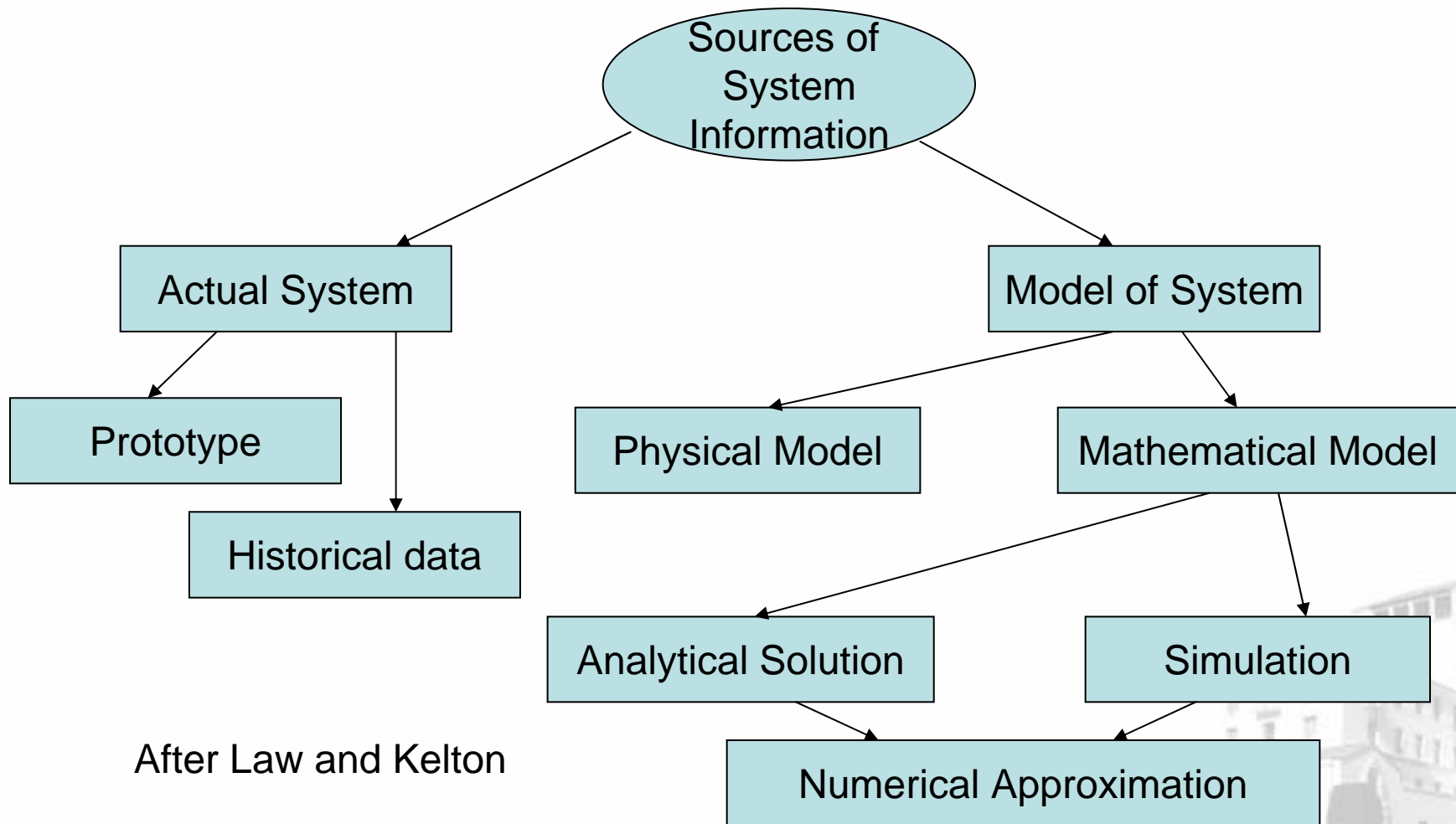
Educating the M&S Workforce - Roadmap



FY07				FY08				FY09	
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2



Information Trade Space



After Law and Kelton



Backup



Stakeholder Group

- DASN RDT&E
 - CAPT Mike Lilienthal
- AFAMS
 - Dr. Ed Degnan
- HQDA
 - Gary Dahl
- INCOSE
 - Mark Sampson
- CVN
 - Leslie Taylor
- SPAWAR
 - Dr. Bill Rix
 - Kevin Charlow
- COMOPTEVFOR
 - Steve Whitehead
- Future Combat System
 - Oral Walker
- Broad educational discipline representation



Academic Partners

- Air Force Institute of Technology
- Defense Acquisition University
- George Mason University
- Johns Hopkins University/ Applied Physics Lab
- Old Dominion University
- Stevens Institute
- Texas A&M
- University of Alabama, Huntsville
- University of California, San Diego
- University of Central Florida

Note: In most cases, official partnerships are currently being negotiated.

