



Monday Wrap-up

- *PHM COE Business Model and Technology Roadmapping Process*
 - Phase I: Preliminary Process
 - Phase II: Development of the Technology Roadmap
 - Phase III: Follow-up Activity
- *Review Technology Needs (hand outs)*
 - *Needs Forms*
 - *NDIA ID Committee*
 - *Honeywell and others*
- *Develop Roadmapping Templates and Expectations for Tuesday*
- *Identify Technology Roadmapping Working Groups for Tuesday Workshops*
 - *Information Systems Development*
 - *Technology Analysis and Development*
 - *Technology Test and Validation Facilities*
- *Summarize Day's Achievements*



Review of Technology Needs

Hand Outs

- ***Technology Needs Forms***
 - ***Summary***
 - ***Others that were specified***
- ***NDIA ID Committee: “Some Recommended Types of Diagnostics Data to be Collected”***
- ***Honeywell: “Summary – Capabilities and Needs”***
- ***Others identified during this meeting***



Phase I: Preliminary Process

(Complete, but let us Review and Agree)

1. Satisfy essential conditions
 - a. Perceived need for the roadmap and collaborative development
 - b. Diversity in the roadmapping effort needs input and participation
 - c. Participation from various organizational components (e.g., mkt, manuf, R&D, planning, etc) and customers & suppliers
 - d. Focus on areas of common need - conflicting conditions must be avoided
 - e. Process must be Customer-needs-driven and not solution-driven

2. Provide Leadership/sponsorship

3. Define the scope and boundaries for the technology roadmap



Phase II: Development of the Technology Roadmap

Focus for Tuesday

1. Identify the output that will be the focus of the roadmap
 - For the purposes of this meeting, we will focus on populating the table
2. Identify the critical system requirements and their targets
 - Product, Systems, sub/systems, or components
 - Level(s) selected must have a commonality for the participants, (e.g., US Navy Requirements, Marine Systems, JSF, Gearbox, Engine, Factory Equipment, Electronics, Computer boards)
 - For the purposes of this meeting, we will focus high-level requirements and potential targets
3. Specify the major technology areas (These are consistent with the PHM COE Goals and Scope)
 - Information Systems Development
 - Technology Analysis and Development
 - Technology Test and Validation Facilities
4. Specify the technology/cost drivers and their targets
 - System requirements (2) are transformed into technology-oriented drivers for the specific technology areas (3).
 - Must address inter-dependencies and how the technology addressed the system requirements.
 - Will be identified via Technology Needs Forms as part of the workshop exercise
 - For the purposes of this meeting, we will focus high-level drivers and potential targets
5. Identify technology alternatives and their time lines
 - Once the technology drivers and their targets are specified, the technology alternatives that can specify those targets must be identified.
6. Recommend the technology alternatives that should be pursued
7. Create the technology Roadmap report (All – Tuesday Afternoon and Wednesday Morning)
 - Summarize in preparation for follow-up activity
 - Schedule follow-up workshop to critique and validate the roadmap



Meeting Goals

Activities/Roles of the Prognostics and Health Management Center of Excellence				
		Near-Term (1-3 Years)	Mid-Term (4 – 8 Years)	Long-Term (8 – 15 Years)
Research and Development (Technical Issues)				
Information Systems Development	Academia Role			
Technology Analysis & Development				
Technology Test & Validation Facilities				
Information Systems Development	Industry Role			
Technology Analysis & Development				
Technology Test & Validation Facilities				
Information Systems Development	Government Role			
Technology Analysis & Development				
Technology Test & Validation Facilities				
Market Opportunities (Market Issues)				
	Academia Role			
	Industry Role			
	Government Role			
Policy and Institutional Initiatives (Institutional Issues)				
	Academia Role			
	Industry Role			
	Government Role			



Phase III: Follow-up Activity

Focus for Wednesday

1. Critique and validate the roadmap
2. Develop an implementation plan
3. Review and update

During Wednesday's wrap-up, we will review the Meeting Goals and layout a path forward for Phase III



Roadmapping Architecture

