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Requirements Management: *The Elements of Change!*

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An aerial photograph of an industrial or aviation facility. In the foreground, a multi-lane road curves through a green landscape. To the left, there are several large hangars with red and grey roofs. In the center, a large, modern building with a white, textured facade is prominent. To the right, there are more industrial buildings and parking lots. The background shows a vast, flat landscape with some trees and distant structures under a clear sky.

Mission Statement

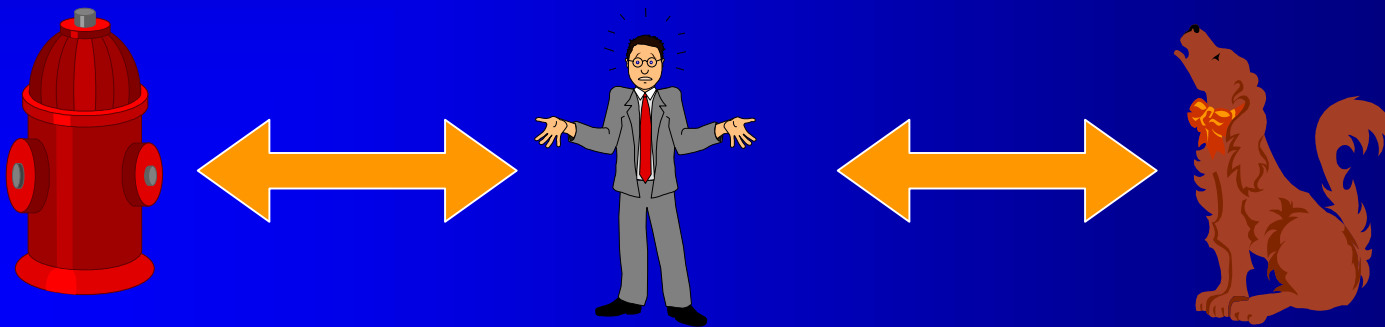
To conduct programs of technology development, engineering, developmental evaluation and verification, systems integration, limited manufacturing, procurement, integrated logistics support management, and fleet engineering support for Aircraft Platform Interface (API) systems

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Our Role

- Firmly wedged between the user, the buyer, and often the developer
- Requirements, Prototype, and Acquisition



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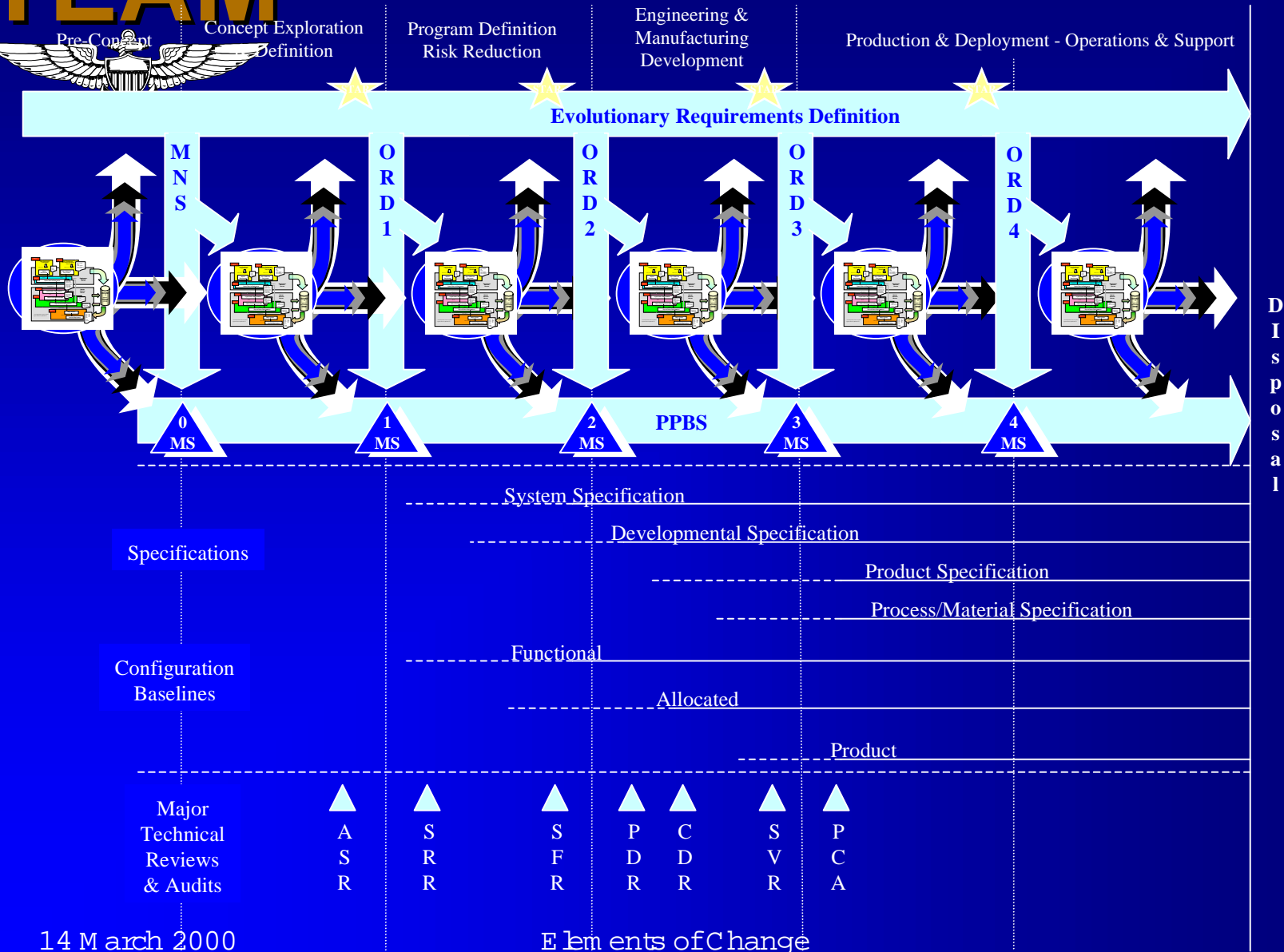


Topics

- Acquisition Reform
- Tools
- New Technology
- Environmental Complexity

EIA-632 DoD Lifecycle

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D I S P O S A L

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Acquisition Reform

- Commercial Practices, Processes and Products
- Open Communications *between Industry and Government*
 - Both Traditional and Electronic
- Performance-based Business Environment
 - More flexibility (and potential reward) to the contractor for the overall design solution set
- Teaming/Partnering
- Affordability

From Acquisition Reform Website www.acq.navy.mil

TEAM Tools Influencing Requirements Management





Impact of New Technology and its Rate of Change

CAPT Morgan's first law of rapid
Prototyping:

*The user doesn't know what he wants
until he gets it!*

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Impact of New Technology and its Rate of Change (cont)

Capability growth outpaces our ability to describe it



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Impact of New Technology and its Rate of Change (cont)

- "Off The Shelf" product cycle < one year
- Technology life cycle < Production time-line
 - ADA – MS Everything
 - Client/Server – "Its on the Web Page"
 - Confuse *Product-based standards* with *Commercial Specifications*



Impact of New Technology and its Rate of Change (cont)

Technology Push  Requirements Pull

"Manage" user expectations – Luddites, Gadget Freaks
and everywhere in between



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Complexity of the
Environment

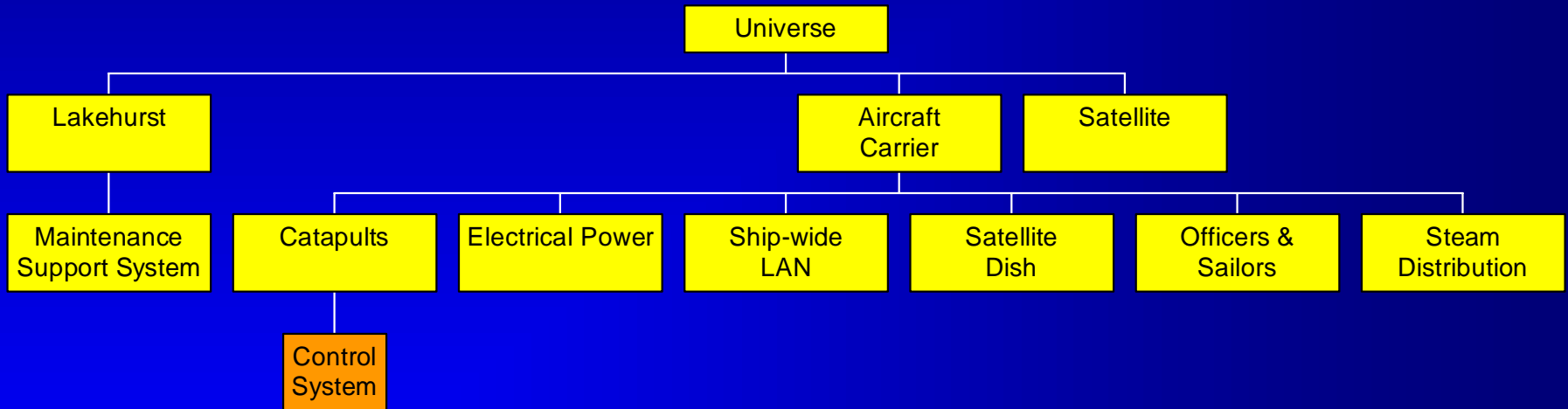
No More Stovepipes:

Interoperability?

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Complexity of the Environment



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Complexity of the Environment



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Complexity of the Environment

- More Functions
- More Interfaces
- Recognition of "System of Systems"
- Issues
 - *Incongruent with the goal of a smaller specification*
 - *Inconsistent Design Implementations*

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Summary

System s Acquisition Reform is about
doing the right thing . . .

. . . System s Engineering (still) about
doing things right!