Architecture Methods and Frameworks

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Session 10A
Breakout Group
Five Steps

1. Architecture Design
2. C4ISR AF Product Generation
3. Executable Model Construction
4. Architecture Analysis and Evaluation
5. System Development

- Alternative approaches and tools can be used to generate the C4ISR architecture views (Step #2)
- Alternative approaches and tools can be used to develop the executable model (Step #3)
- Measures of Performance (MOPs) and Effectiveness (MOEs) are needed to evaluate and compare architectures

Discussions about:
- Five steps – different approaches
- Appropriate methods & tools
- Evaluation techniques

From Alex Levis, Course Notes at GMU

Architecture Methodology

Discussions about:
- Achieving model “concordance”
- Dynamic vs static models

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Discussions about:

- Pros & Cons of the C4ISR Architecture Framework
- Lessons learned

Discussions about:

- Achieving integration (internal and external)
- Structured vs object-oriented approaches
- Different tools

Integration of Architecture Views
Discussions about:
- IEEE 1471 standard
- Architectural description techniques
- Tool support

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