



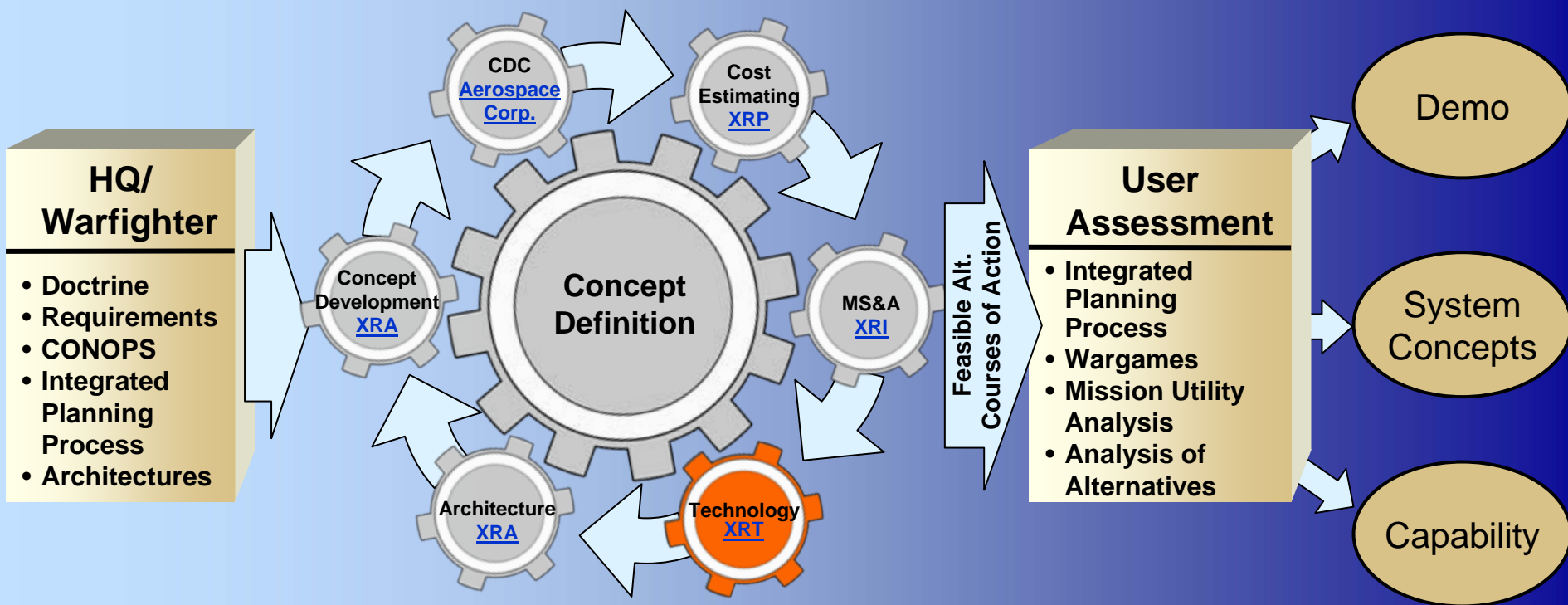
Program Office Perspective on Transformational Space

17 April 2007

**RICHARD W. WHITE, JR., Colonel, USAF
Director, Developmental Planning**



SMC/XR Developmental Planning Process





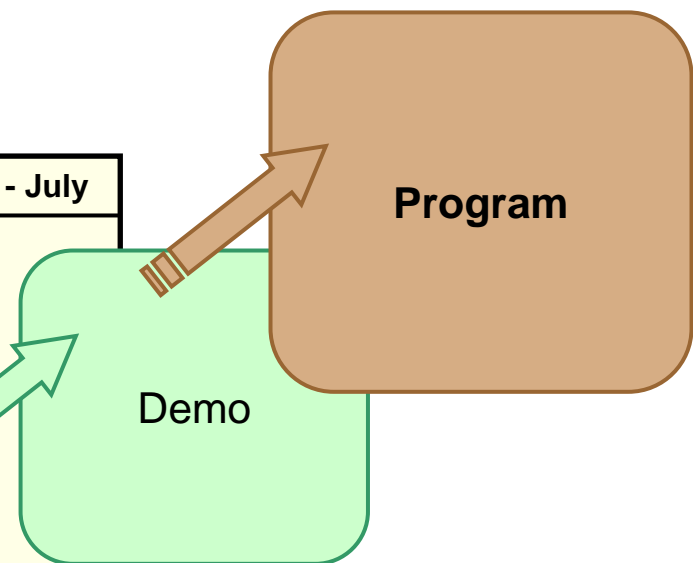
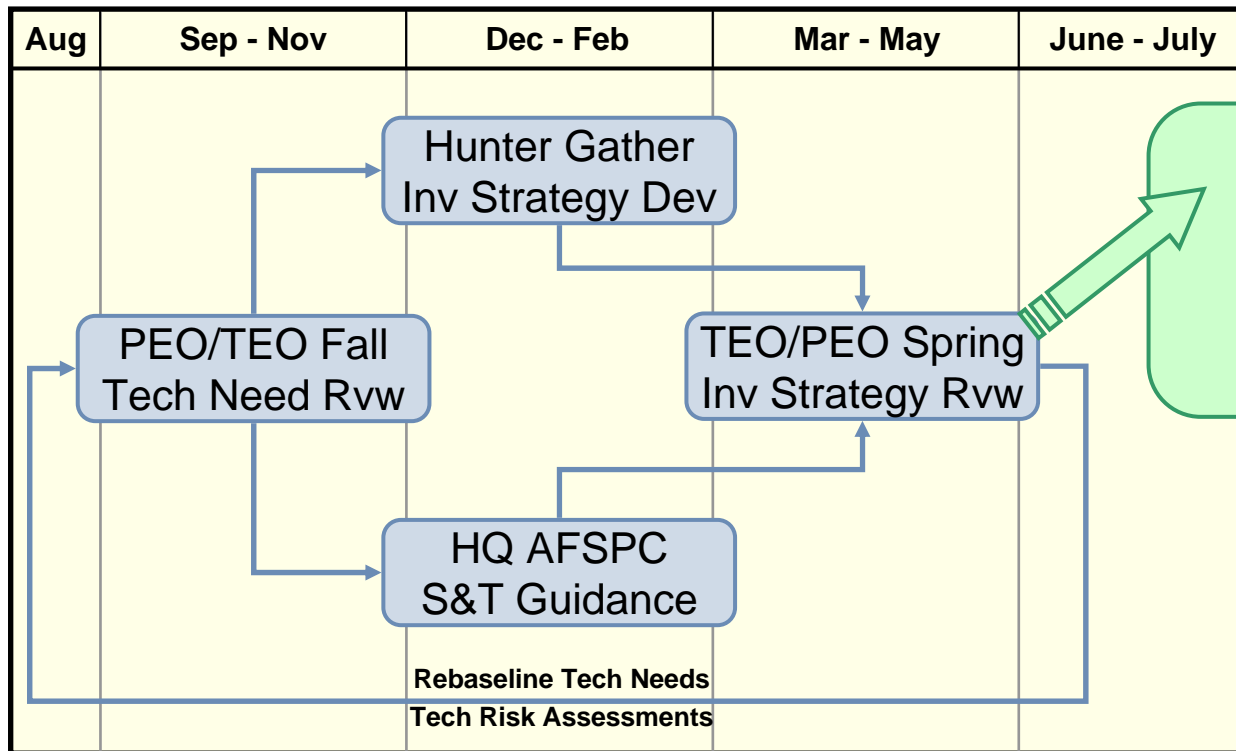
PEO/TEO Review Process

- **Fall 2006 PEO/TEO Review identified PEO tech Requirements**
 - **Deep dives between SMC/AFRL fleshed out tech issues**
 - **Presented summary of tech needs and technology roadmaps highlighting gaps and priorities**
 - **AFSPC A8X presented same tech needs in December S&T Council to establish foundation for S&T Guidance**
- **Spring 2007 PEO/TEO Response to PEO with S&T Guidance and Tech solutions**
 - **AFRL to brief status of tech roadmaps identifying potential solutions**
 - **AFSPC/A8 to briefs final AFSPC S&T guidance to S&T community**



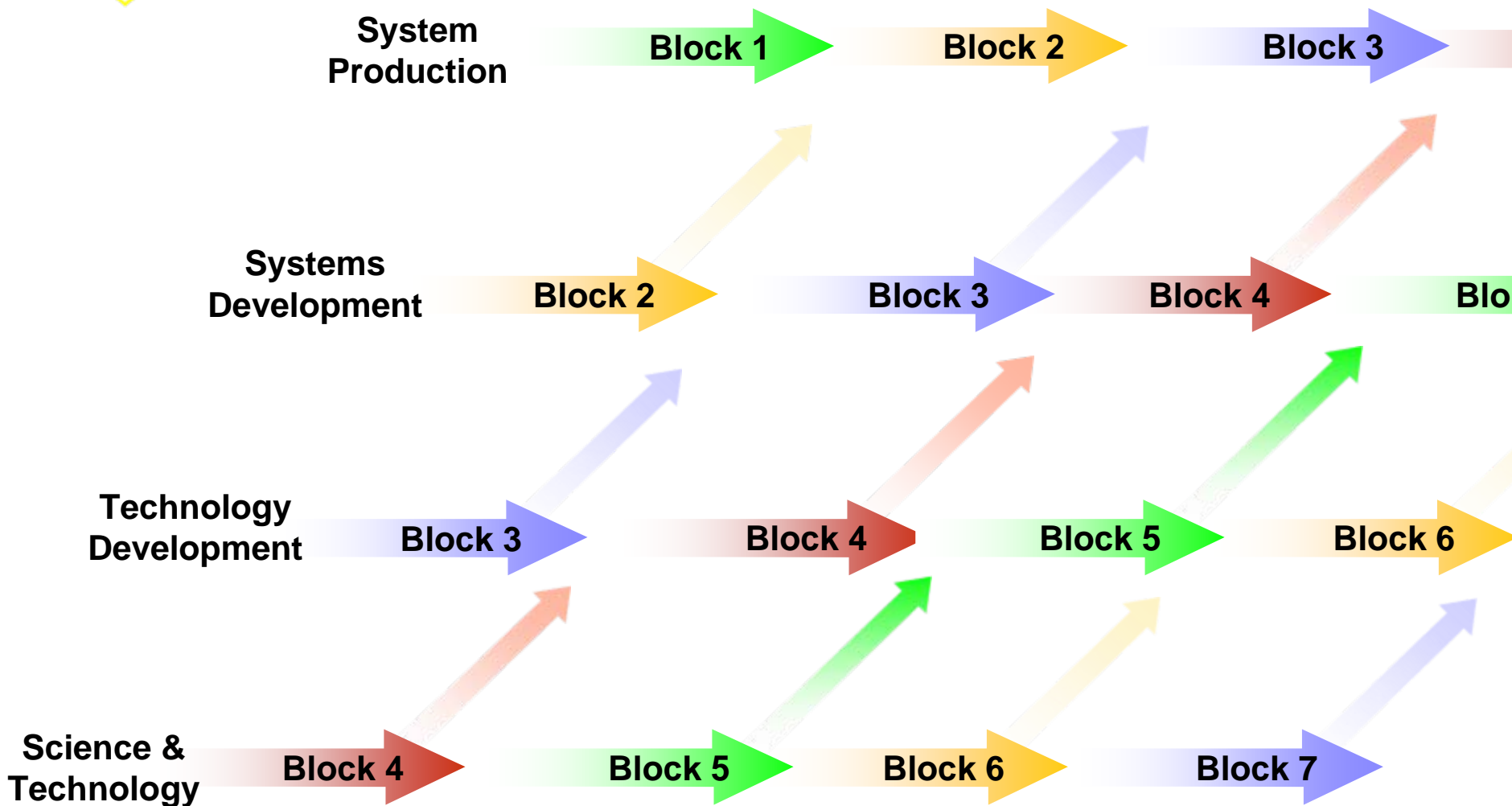
PEO/TEO Review Process

PEO/TEO Process



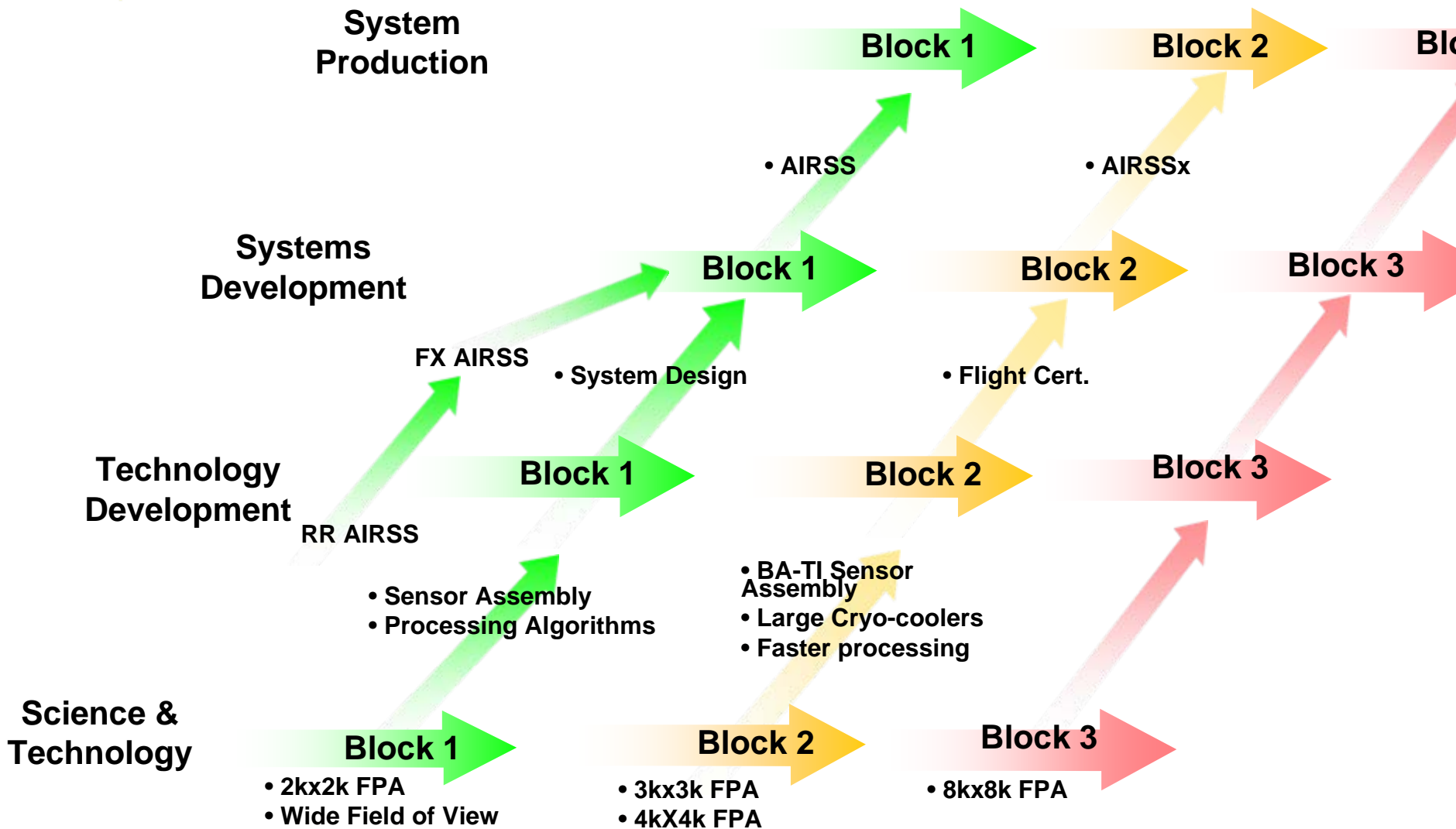


Acquisition Stages -- Block Approach





AIRSS Block Approach





Proposed PGS Development Block Approach

'07	'08	'09	'10	'11	'12	'13	'14	'15	'16
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

System Production:
Operational PGS
Full & Open Competition

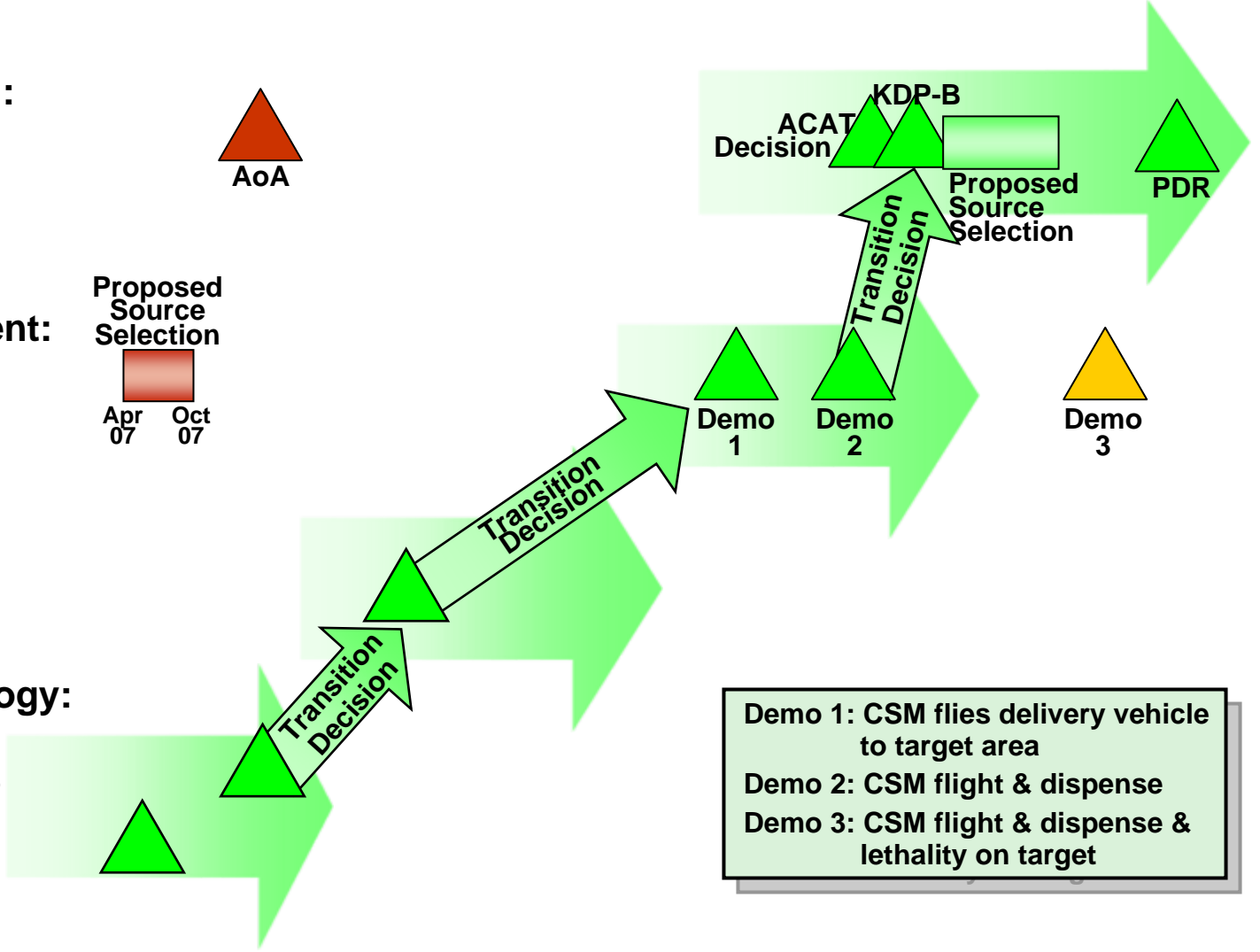


System Development:
Full Scale CSM Demos
Full & Open Competition



Technology Development:
Weapons Demos
• Pershing MTD-1P

Science & Technology:
Technology Demos
• BLU-108 Lethality Demo
• Software Demo



Demo 1: CSM flies delivery vehicle to target area
 Demo 2: CSM flight & dispense
 Demo 3: CSM flight & dispense & lethality on target

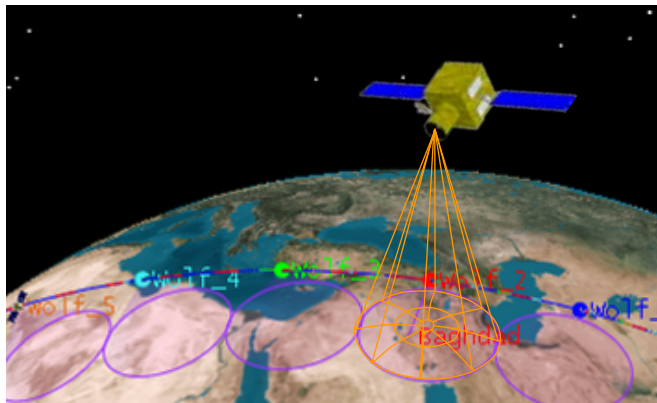


Unclassified

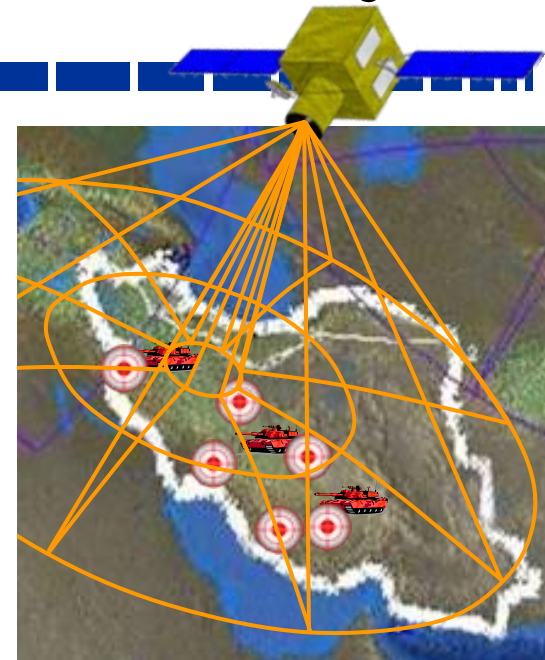
Modeling Simulation & Analysis



“Monster” Rack 40 Systems
(80-Core) for parallel processing



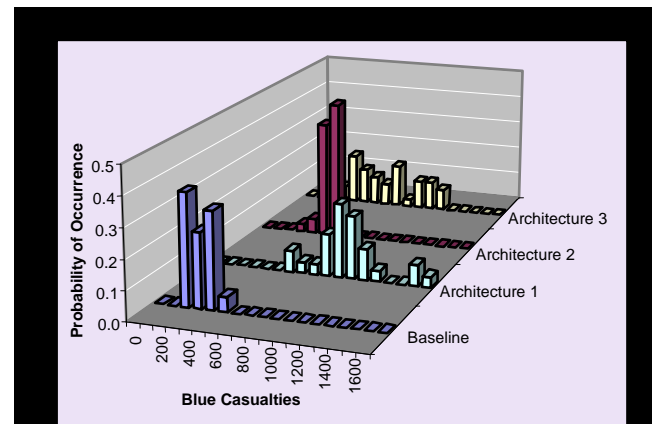
User-Defined Satellites
Unclash Screenshots from PISR Scenario Satellite Tool Kit



Customized Sensor Footprints
Unclash Screenshots from PISR Scenario SEAS v. 3.7



Fully Programmable Blue Forces – Attempting to Intercept
Fully Programmable Red Forces – Attempting to Escape Country
Unclash Screenshots from PISR Scenario SEAS v. 3.7



Results



Conclusion

- **It is possible to push technology & manage risk down to an acceptable level**
- **Disciplined developmental planning & a block approach to acquisition are key enablers**