

# 2006 DoD Maintenance Symposium

## RCM: Designing for Sustainability



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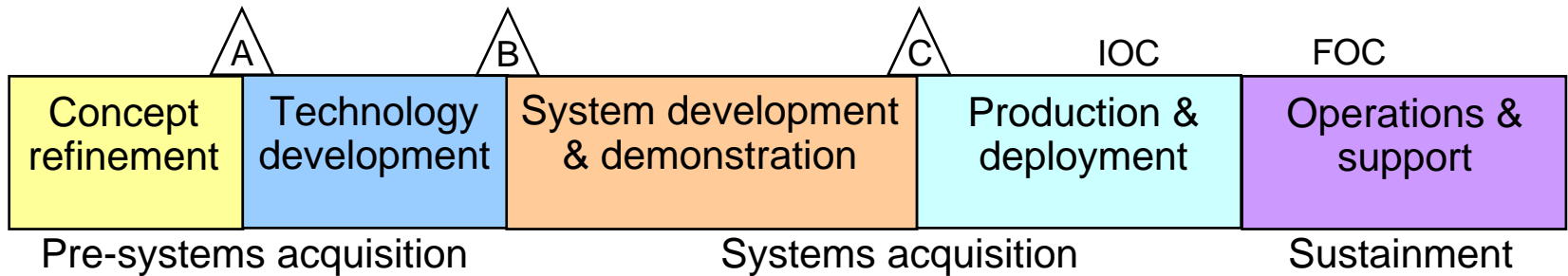
**LMI**

GOVERNMENT CONSULTING

THE OPPORTUNITY TO MAKE A DIFFERENCE HAS NEVER BEEN GREATER

# RCM and systems acquisition

- Acquisition life cycle



- When do you accomplish the first RCM analysis?



# Example from pre-concept refinement

- Basic STOVL design considerations

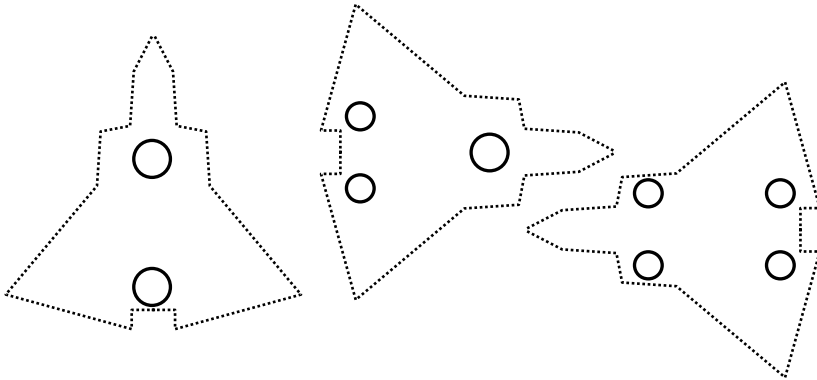


- Placement and type of lift device
  - Impacts performance
  - Impacts reliability

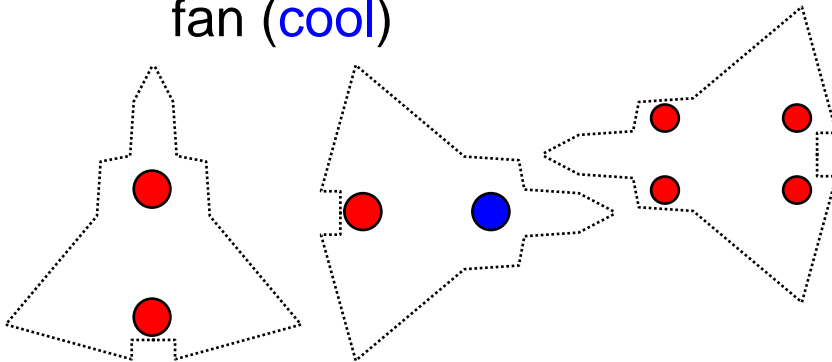


# STOVL example: Reduce inlet re-ingestion

- Early design choices
  - Placement of lift devices



- Type: lift engine (**hot**) or fan (**cool**)



- RCM (or even a FMECA) had not been considered
- Would RCM be a benefit at such an early stage?