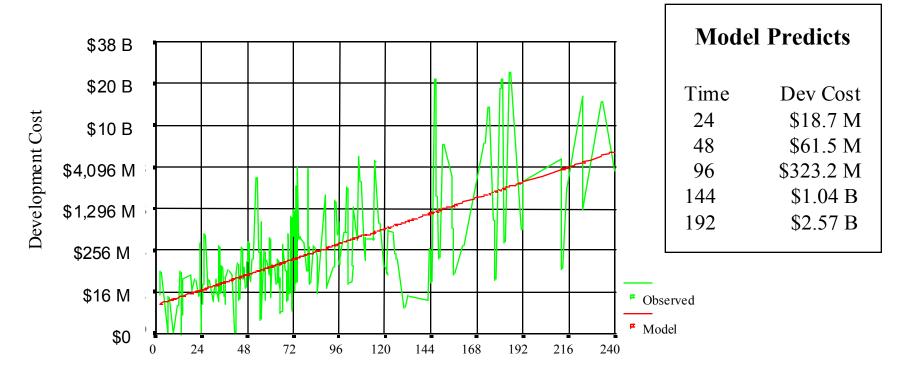


# Increased Development Cost

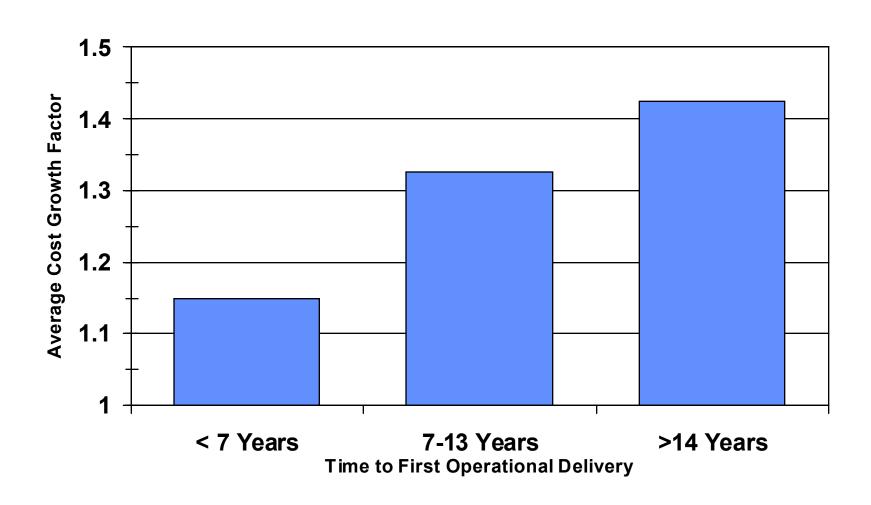
Dev Cost (\$M)  $\sim$  (1.36 + 0.03 x Dev Time(months))<sup>4</sup>



Development Time (Months)



## Likelihood of Cost Growth





### Packard Commission Conclusions (1986)

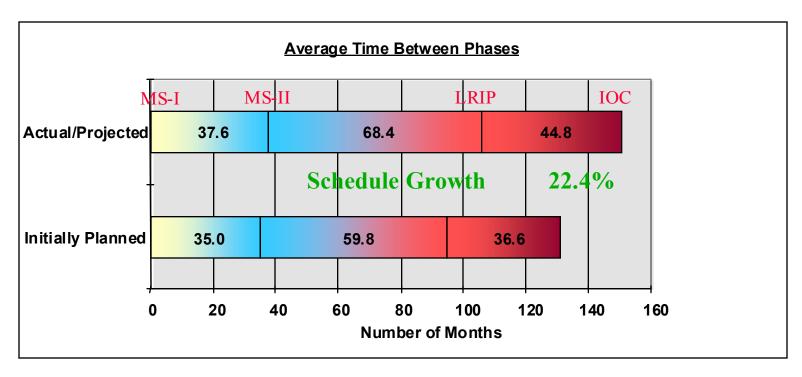
- "An unreasonably long acquisition cycle ten to fifteen years for our major weapon systems ... is a central problem from which most other acquisition problems stem:
- It leads to unnecessarily high cost of development...
- It leads to obsolete technology in our fielded equipment...
- And it aggravates the very gold plating that is one of its causes..."

"We believe it is possible to cut this cycle in half"

Packard Commission: "A Formula For Action"



## Cycle Time Analysis of Current Acquisition Process



Program schedule growth have taken place during the later phases of development. Thus, the later in a program

- It is much more difficult to isolate causes of technical problems
- The cost of resolving the problems is much higher
- Unresolved problems will carry over into production



## DoD Cycle Time Goals

#### Federal Acquisition Streamlining Act (FASA) (1994)

- "Deliver emerging technology to troops in 50% less time"

#### DoD's National Performance Review (NPR) Goal (1996)

- 25% cycle time reduction target for MDAPs by Year 2000
- Compares MDAPs begun before 1992 and after 1991

#### DSAC Direction (1997)

- Aim for 50% reduction in acquisition cycle time
  - Set Commodity Specific Goals
- Institutionalize changes in 5000.2-R policy

Source: DSB Briefing Dan Czelusniak, 6/12/98

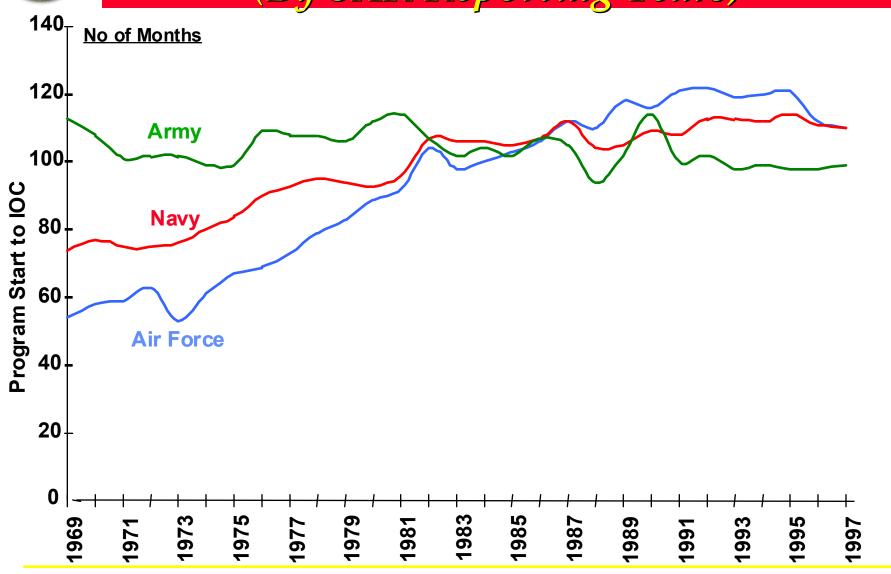


## Benefits of Reduced Cycle Times

- Development and production benefits using metrics common to both commercial and military sectors:
  - -50% reduction in cycle time associated with:
    - A 30% reduction in engineering hours (averaged over multiple studies)
    - A 20-25% reduction in cost of goods sold (35-50% for "service intensive" products)
    - 2X Net Asset turns, 2-4X inventory turns, 50% higher sales to plant and equipment ratios

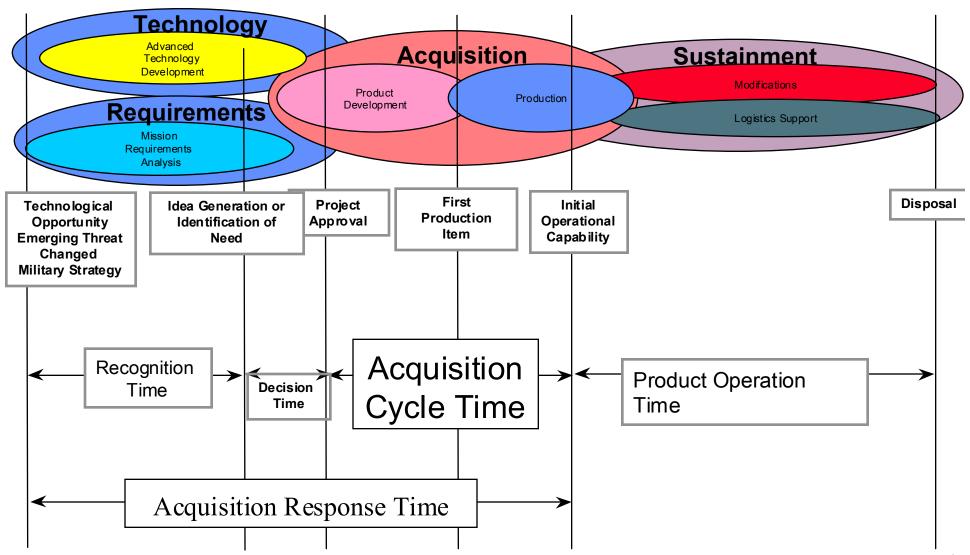


# Average Cycle Times (By SAR Reporting Years)





# Acquisition Cycle Time





## What has to change Looks a lot like an ACTD

#### **Technology**

Mature technology User validated technology

#### **Acquisition**

Single phase
Schedule driven - Fully funded
Plan for Evolution

**IPPD** 

Sustainment et users envolved early

#### Requirements

Focus on near term needs Matched to technology

#### **PPBS**

Reduced programming lead times