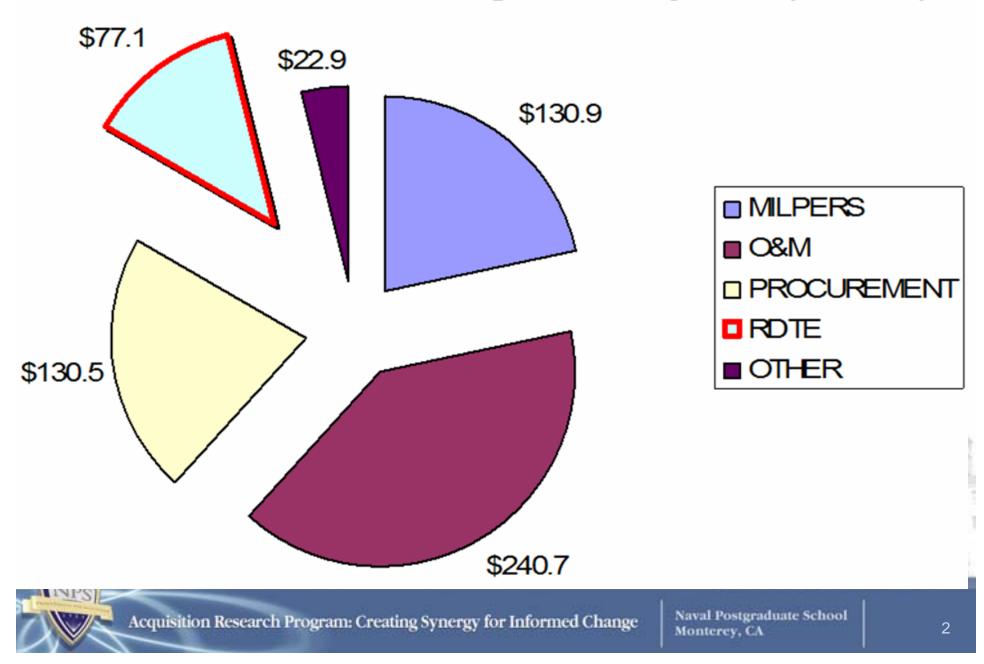


The Crossing

LT Suzanne L. Schang

President's DoD Budget Authority FY07 (\$601.9B)



Agenda

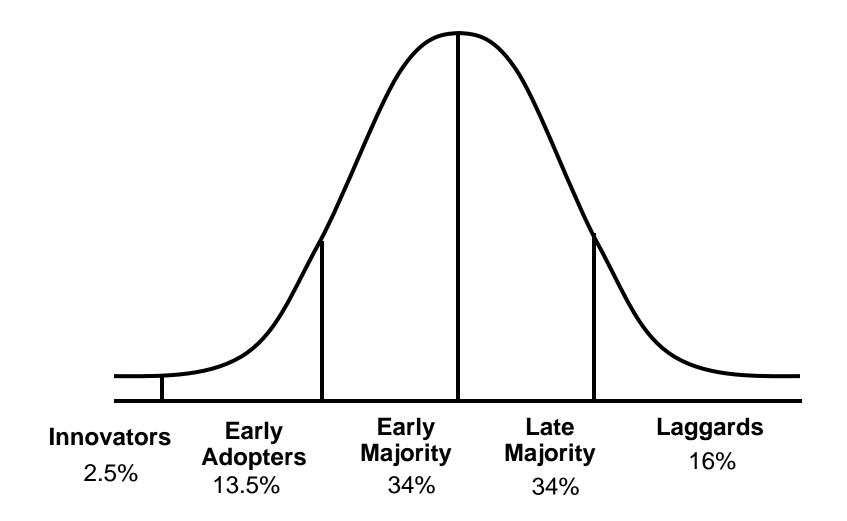
- 1. Coordination
- 2. Complications
- 3. Command and Control?
- 4. End-User Issues
- 5. Case studies
- 6. Graphs

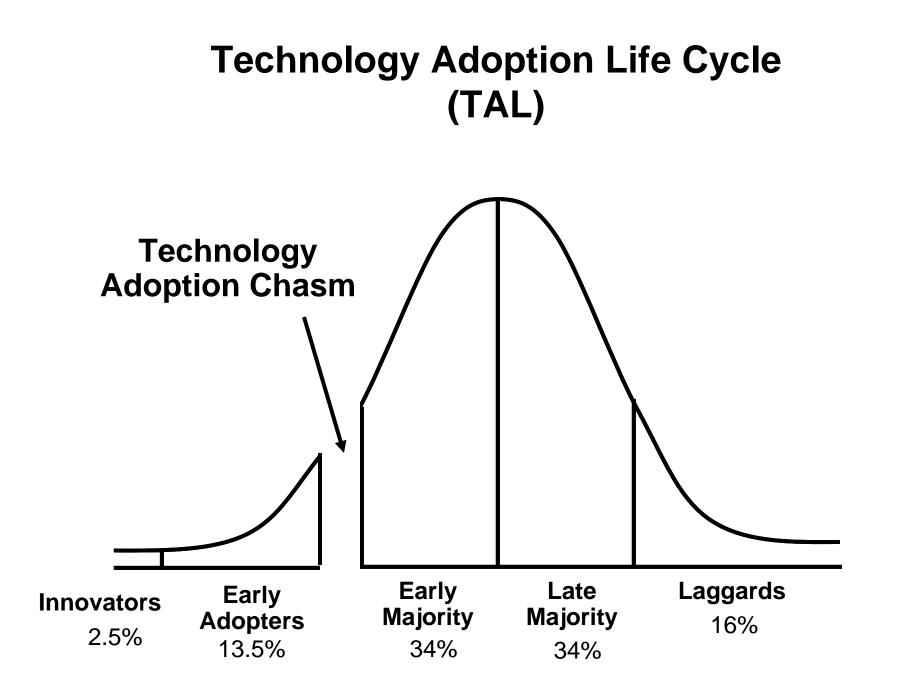
Acquisition Research Program: Creating Synergy for Informed Change

1. Coordination

- Externalities
- Network Externalities (Direct and Indirect)
- The Telephone
- VHS versus Beta VCRs
- TAL and The Chasm

Technology Adoption Life Cycle (TAL)



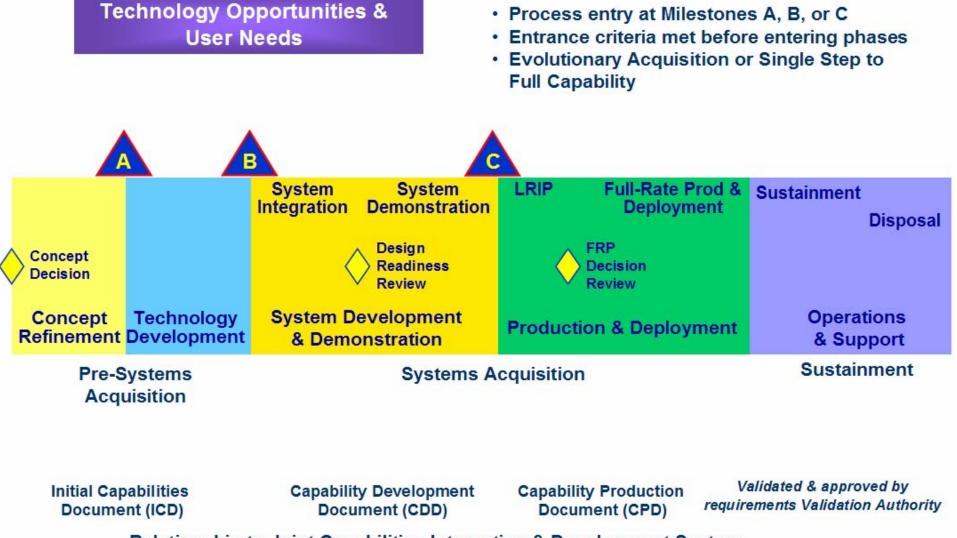


2. Complicated

- Decision-Maker / Buyer / End-User Chain
- Benefits > Costs ???
- DoD Acquisition Process
- AS&C Office
- JCTD Program

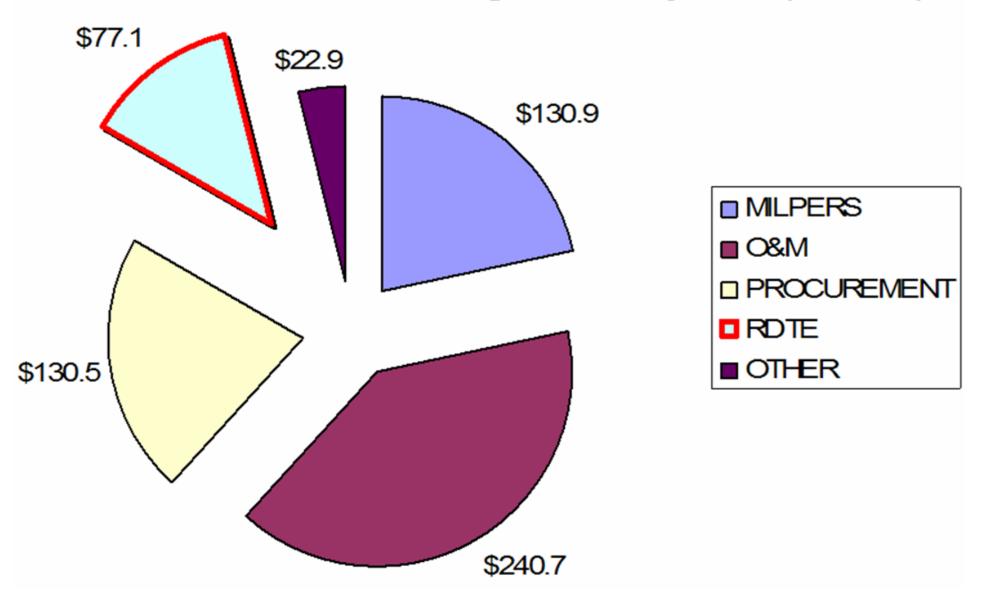
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The Defense Acquisition Management Framework

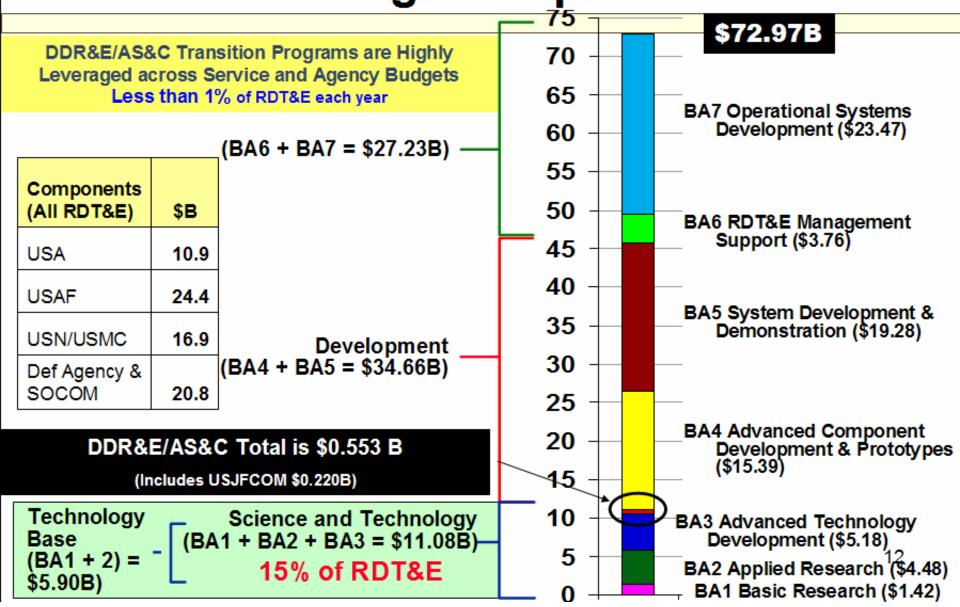


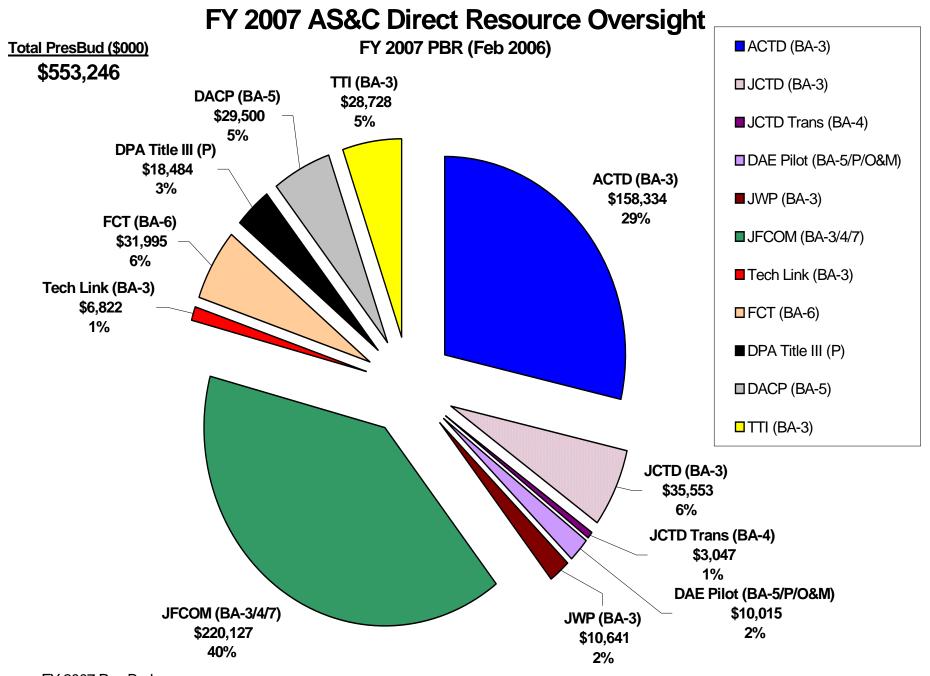
Relationship to Joint Capabilities Integration & Development System

President's DoD Budget Authority FY07 (\$601.9B)

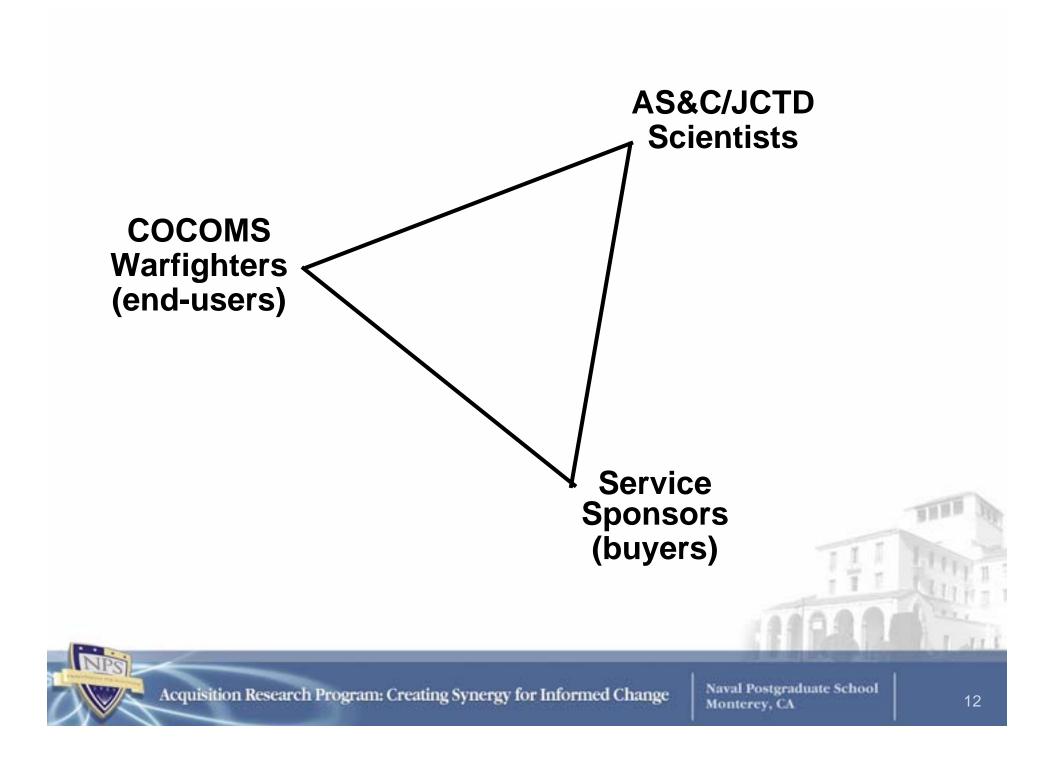


FY 2007 RDT&E President's Budget Request



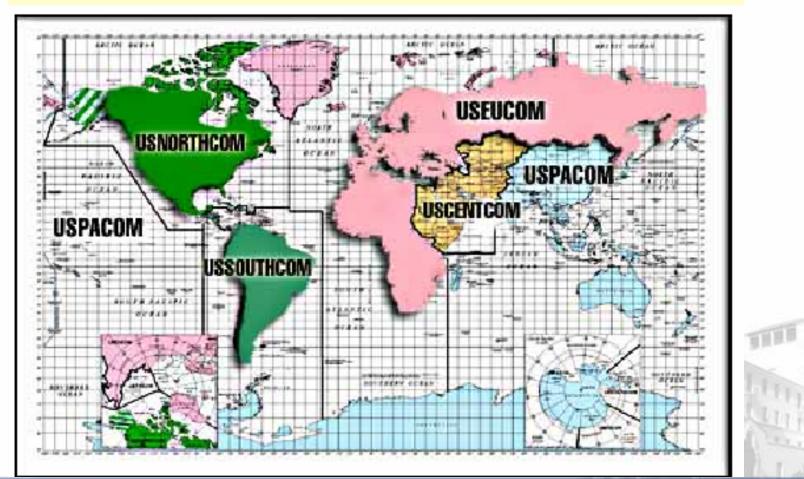


Source: FY 2007 PresBud





THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY





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3. C2?

- Command and Control solution?
- Aligning incentives
- End-user issues

4. End-User Issues

- control
- mission and pressures
- misaligned incentives
- management commitment
- technology champion
- complementary goods

5. Case Studies

- Civilian
 - CASE (technology with org externalities)
 - HTAs (technology with org externalities)
 - QWERTY (indirect network technology)
 - RFID (direct and indirect network technology) with org ext)
- Military
 - NMCI (direct network technology with org ext)
 - RFID (direct and indirect network technology) with org ext)

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6. Graphs

(1) Situation One

- there are no externalities to complicate the situation
- buyer is the same as the end-user

(2) Situation Two

- there are organizational externalities involved
- each end-user's benefit is determined only by his/her own adoption decision, but some external benefits accrue to the organization as more end-users adopt

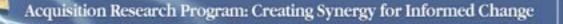
(3) Situation Three

- there are <u>direct network externalities</u> involved (value depends on size of userbase)

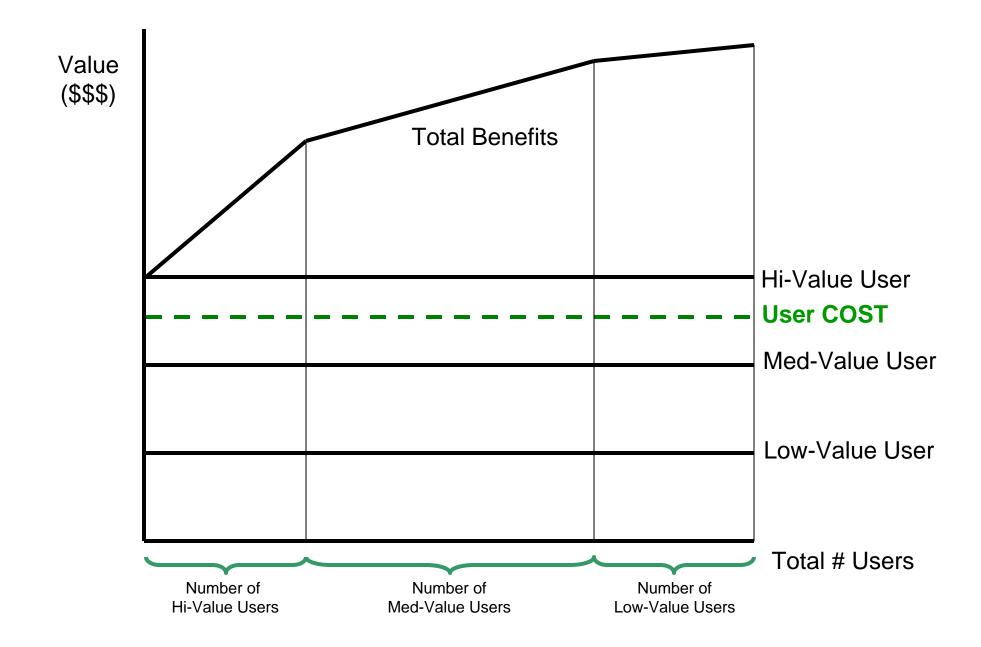
- buyer and the end-user are different entities

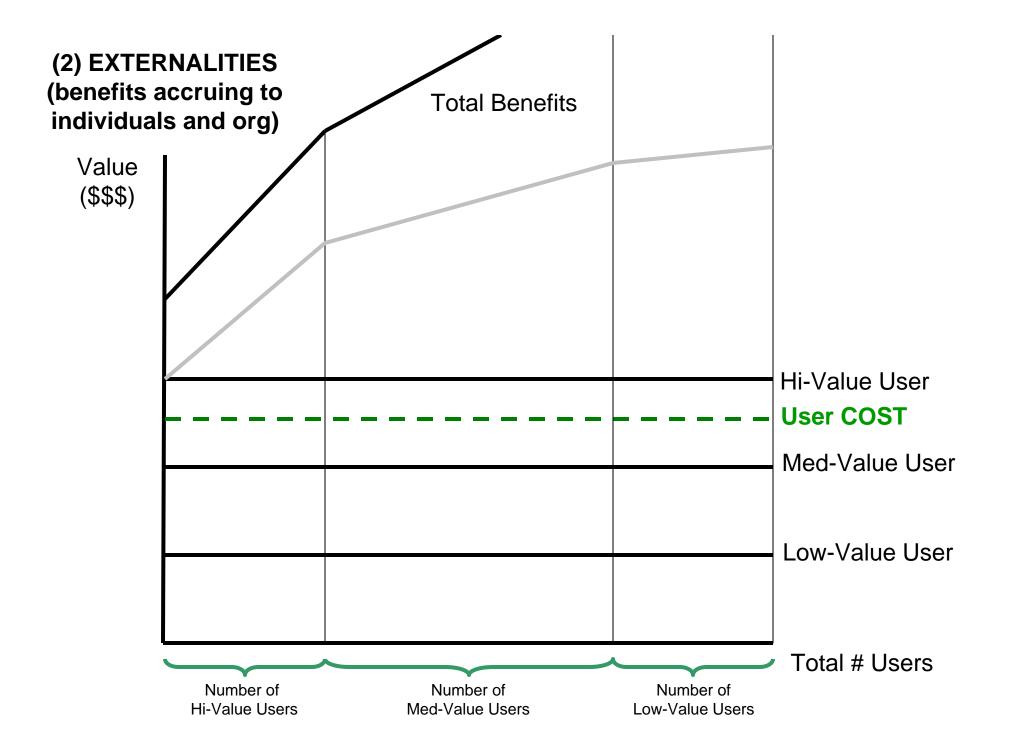
(4) Situation Four

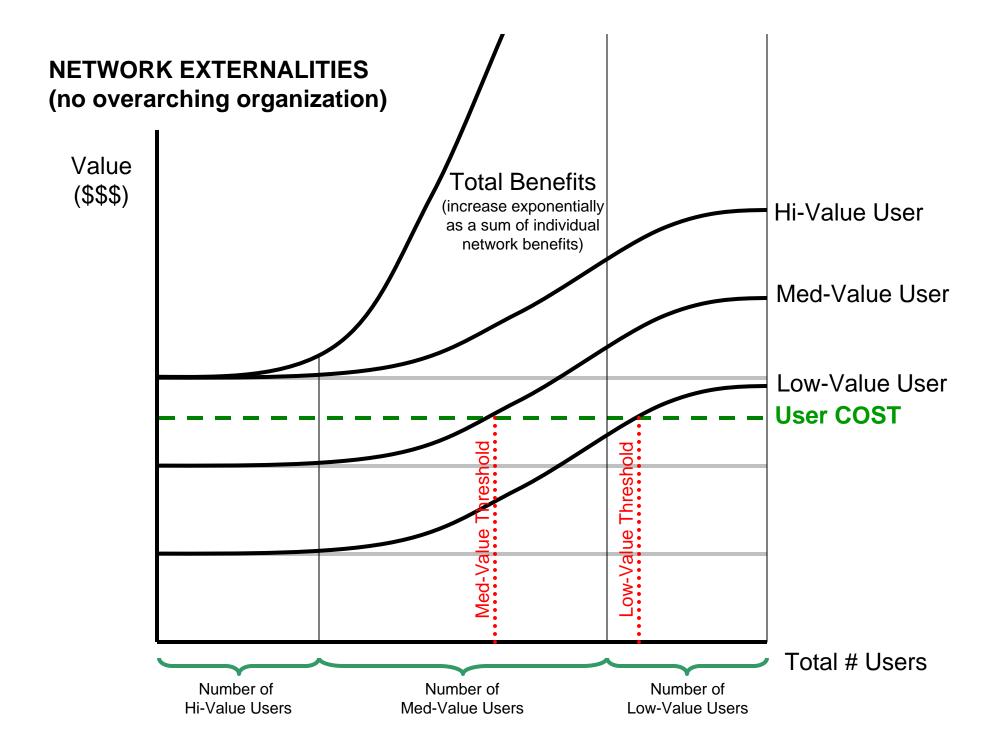
- there are <u>indirect network externalities</u> involved (value depends on number of complementary goods available which affects the size of the user-base)
- buyer and the end-user are different entities

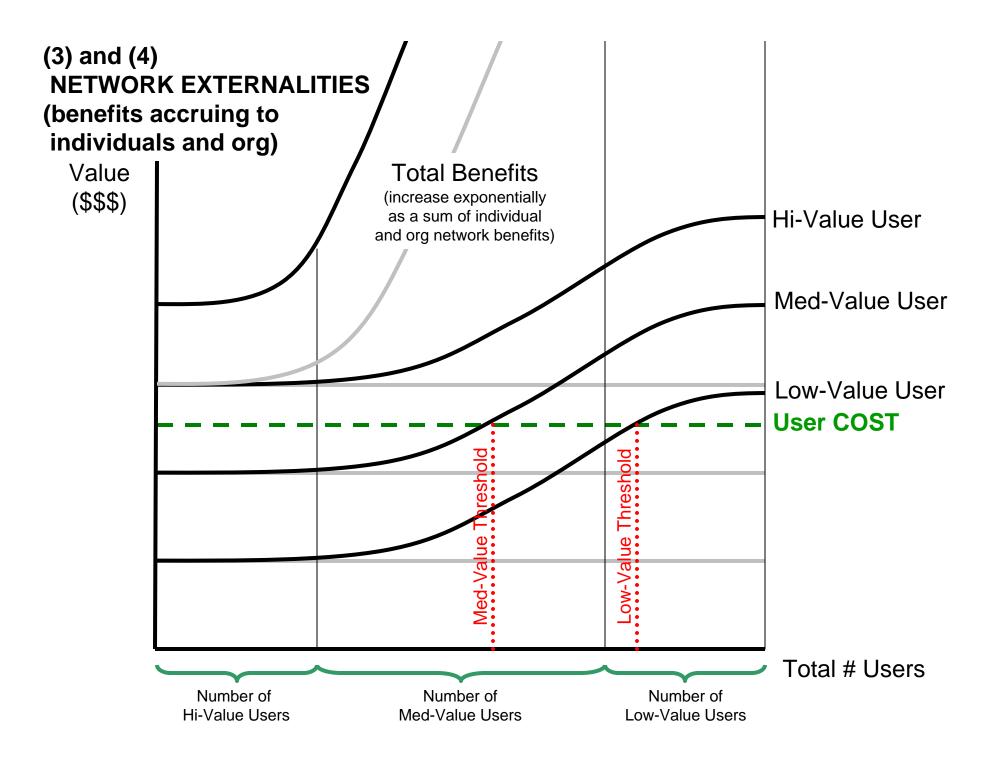


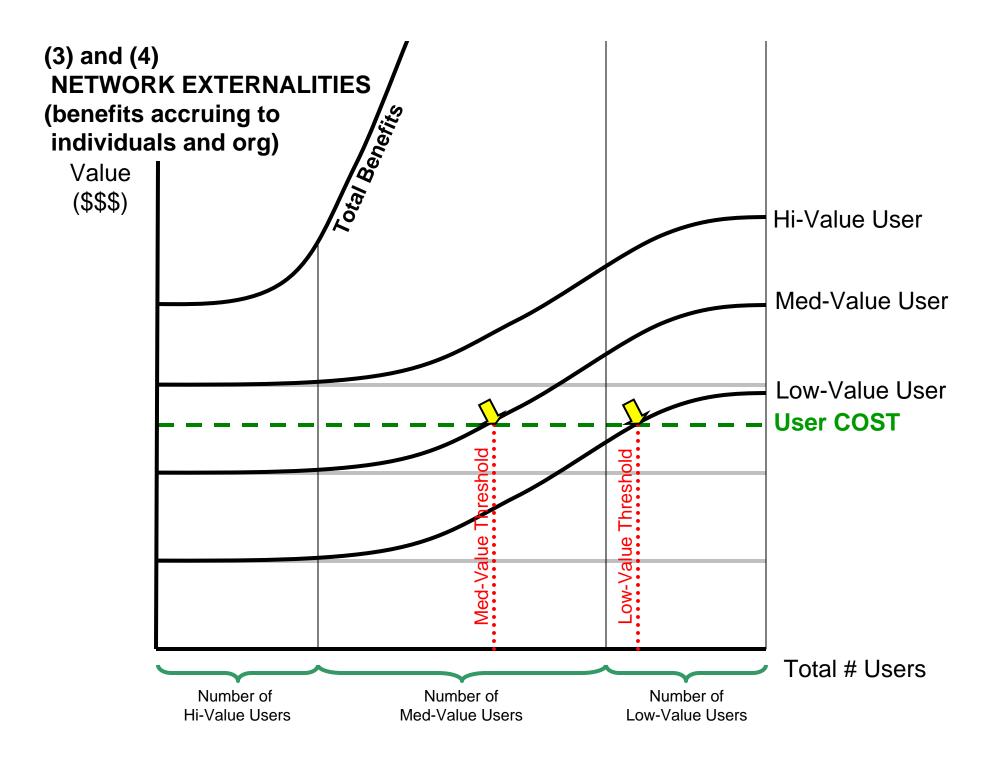
(1) NO EXTERNALITIES











Recap: End-User Issues

- control
- mission and pressures
- misaligned incentives
- management commitment
- technology champion
- complementary goods

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Conclusion

- 1. Coordination
- 2. Complications
- 3. Command and Control?
- 4. End-User Issues
- 5. Case studies
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Questions?