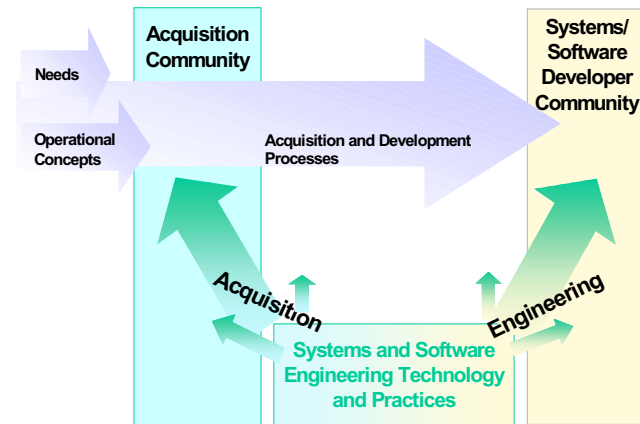




**Carnegie Mellon
Software Engineering Institute**

Accelerating the Adoption of Improved Acquisition Practices using Acquisition Pilots

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Acquisition Support Program



Sponsored by the U.S. Department of Defense



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Outline

Our Goal

Acquisition Pilot Process

FY03 Acquisition Pilots: Results

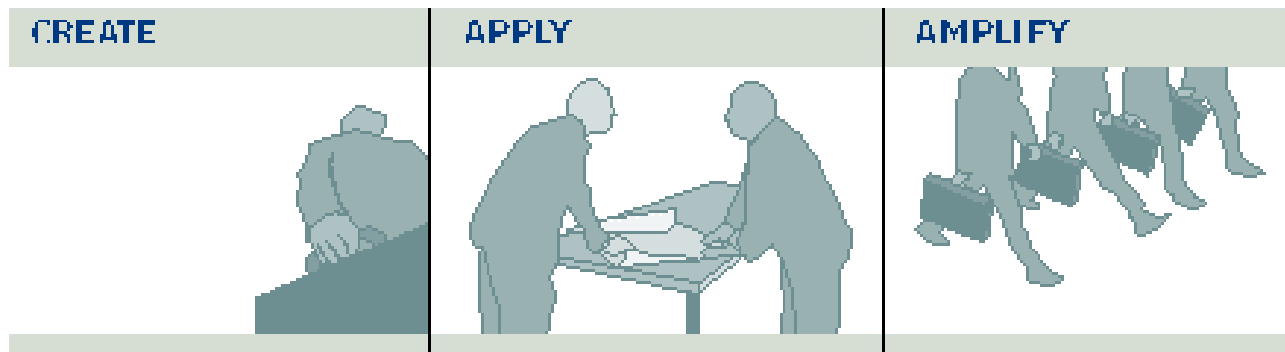
FY04 Pilots

Lessons

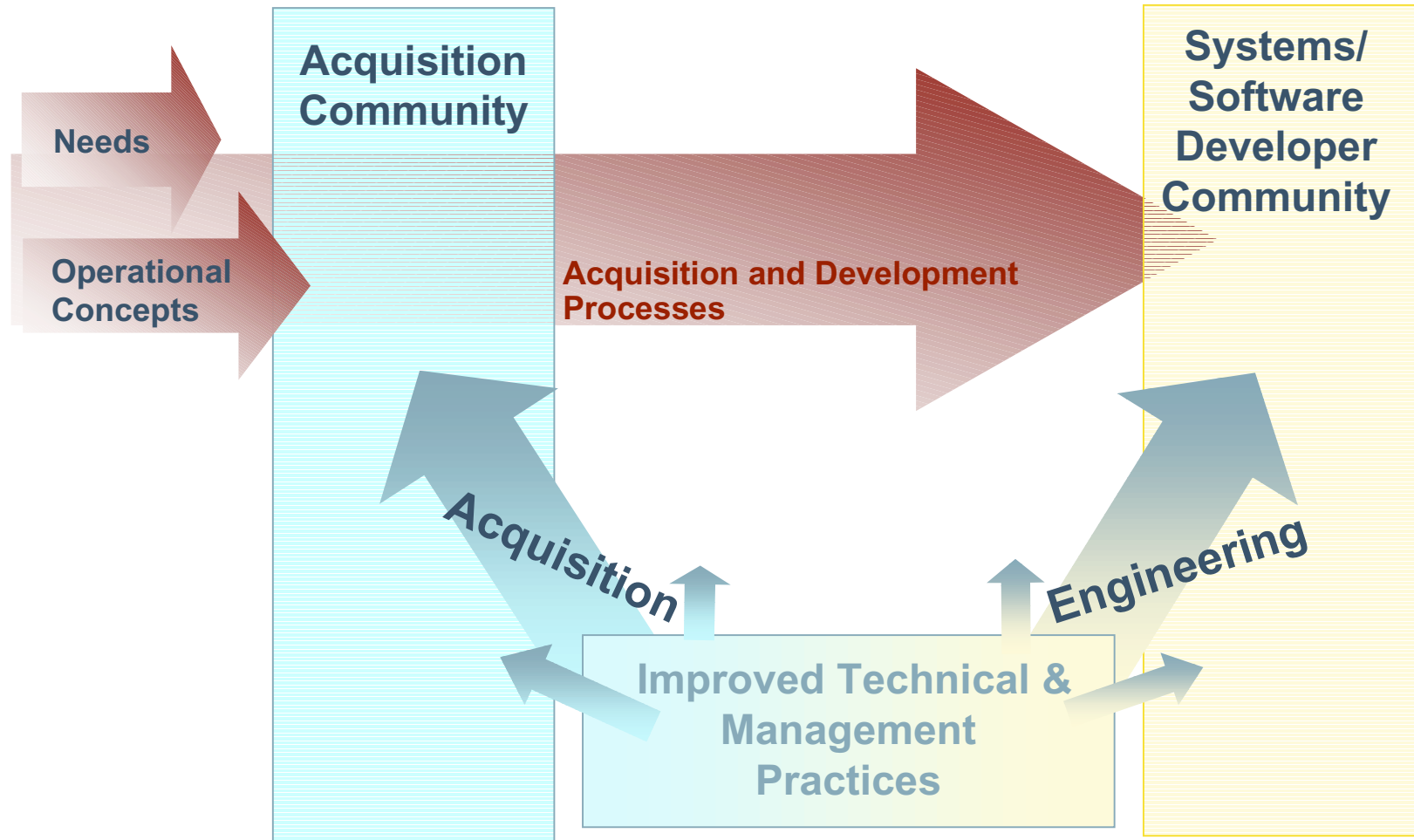


What We're Trying to Achieve

The SEI mission is to provide the technical leadership to advance the practice of software engineering so the DoD can acquire and sustain its software-intensive systems with predictable and improved cost, schedule, and quality.

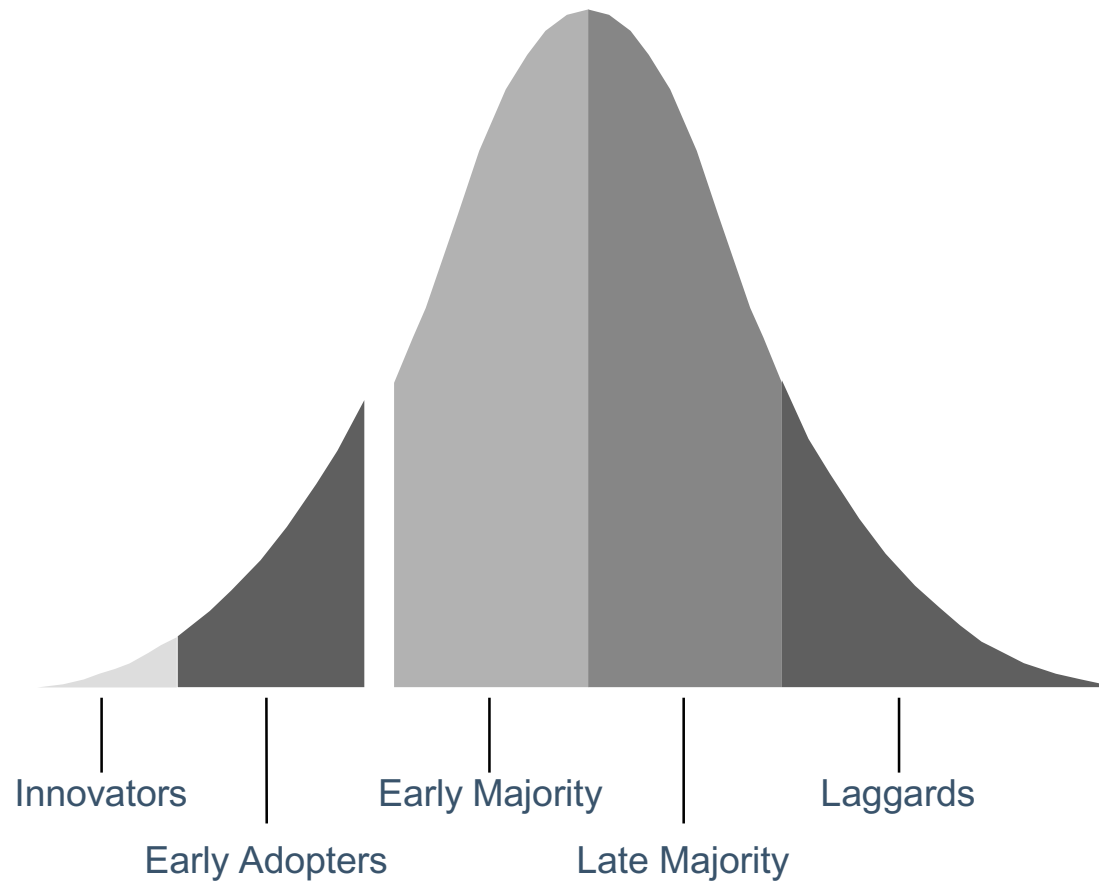


Better Buyer, Better Builder





Technology Adopter Categories



Source: [Rogers 83]

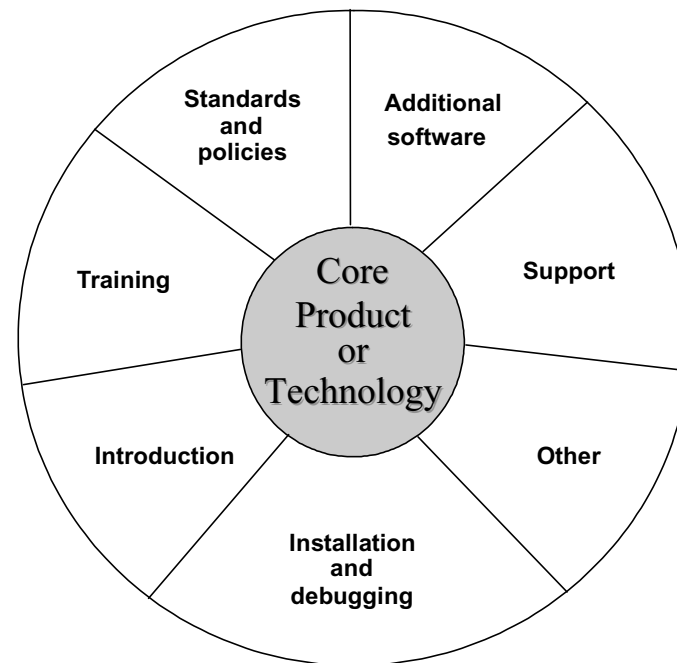


Whole Product

Technical innovations are first used only by innovators.

Innovations are not widely adopted by early majority users until they satisfy the demand for a “whole product”.

The “whole product” expectation is for a core product, plus industrial strength training, tools, support, licensing, etc. needed to get the core product into sustained use.



Source: [Moore 91]



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Purpose



To accelerate the *create-apply-amplify* lifecycle of SEI practices within DoD acquisition programs.

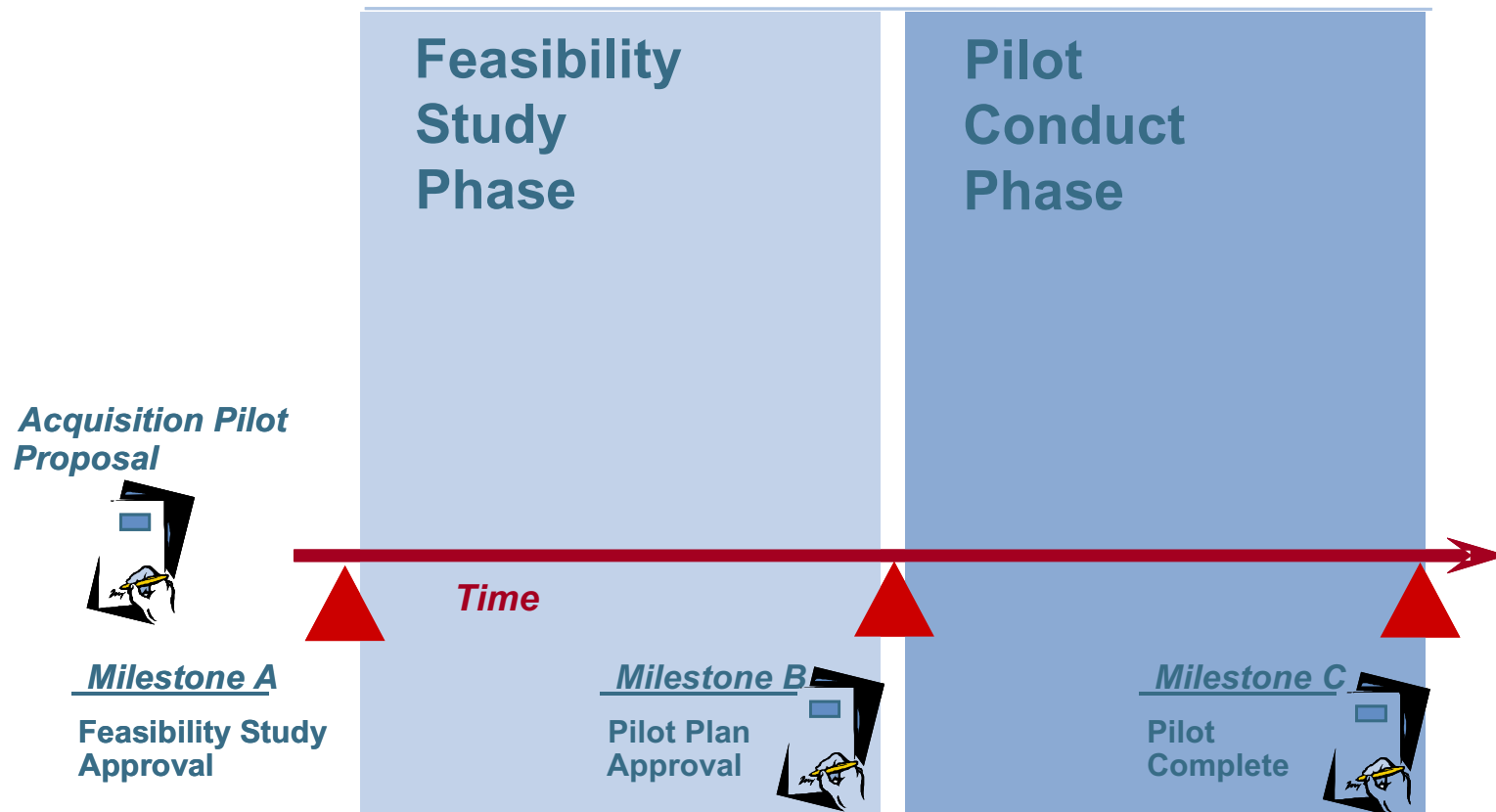
To conduct experiments with maturing SEI products and services in real-world acquirer contexts.

To analyze the results and document the lessons learned.

Lessons learned from these experiments will be widely disseminated through case studies, course modules, workshop content, SEI publications, DoD and professional society conferences, and technical literature.



Acquisition Pilot Process





FY03 Acquisition Pilots

- Use of *Options Analysis for Reengineering (OAR)* on Future Combat Systems – Principal investigator: Dennis Smith
- Applying *Software Product Line Acquisition - A Companion to A Framework for Software* at the Naval Underwater Warfare Center (NUWC) – Principal investigator: Sholom Cohen
- Applying *Standard CMMI Appraisal Method for Process Improvement (SCAMPI)* for use during *Source Selection/Contract Monitoring* at the NRO and SMC – Principal investigator: Charlie Ryan
- Applying *Team Risk Management (TRM)* to a suite of MILSATCOM programs – Principal investigator: Ray Williams
- Naval Open Systems Architecture – Principal investigator: Craig Meyers



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FY03 Acquisition Pilots: Results

FCS use of OAR

NUWC use of PLS

Acquisition use of SCAMPI B/C

FY04 Pilots

Lessons



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FY03 Acquisition Pilots: Results

FY04 Pilots

Lessons



FY04 Acquisition Pilots

- SCAMPI B/C Pilots in Acquisition Environments – Principal Investigator: Charlie Ryan
- GPS/FCS: Developing and Implementing a Re-use/COTS management plan – Principal Investigator: Julie Cohen
- CLIP: QAW/ATAM use during Source Selection and Contract Monitoring – Principal Investigator: Tim Morrow
- FCS: OAR Pilot continuation – Principal Investigator: Dennis Smith



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Lessons Learned

Adoption of SEI technologies can be accelerated

The SEI learns from these engagements and evolves practices based on usage in real acquisition programs

The Acquisition Pilot Process is working

