CENTER FOR INFORMATION MANAGEMENT

INFORMATION MANAGEMENT IN A CHANGING WORLD

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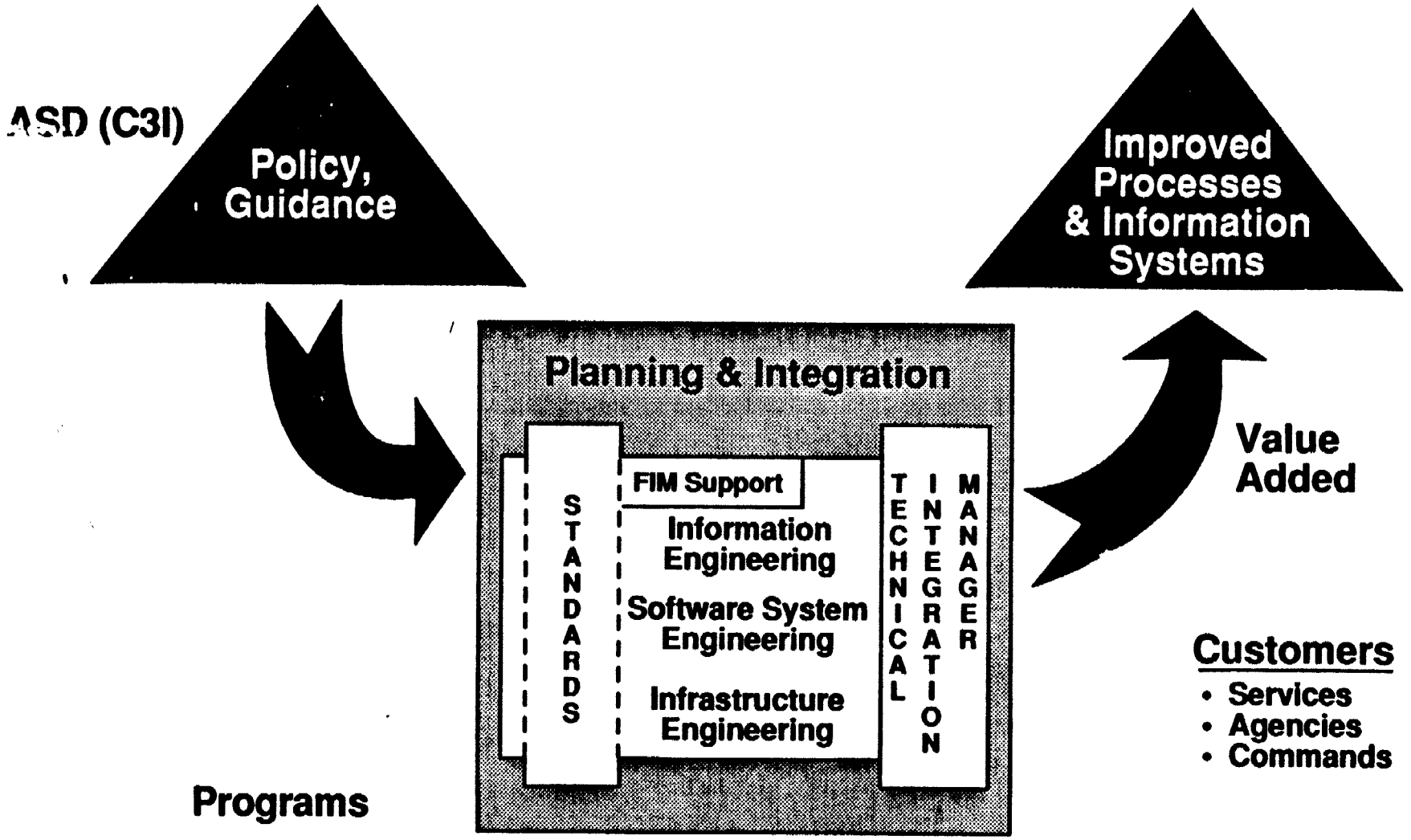
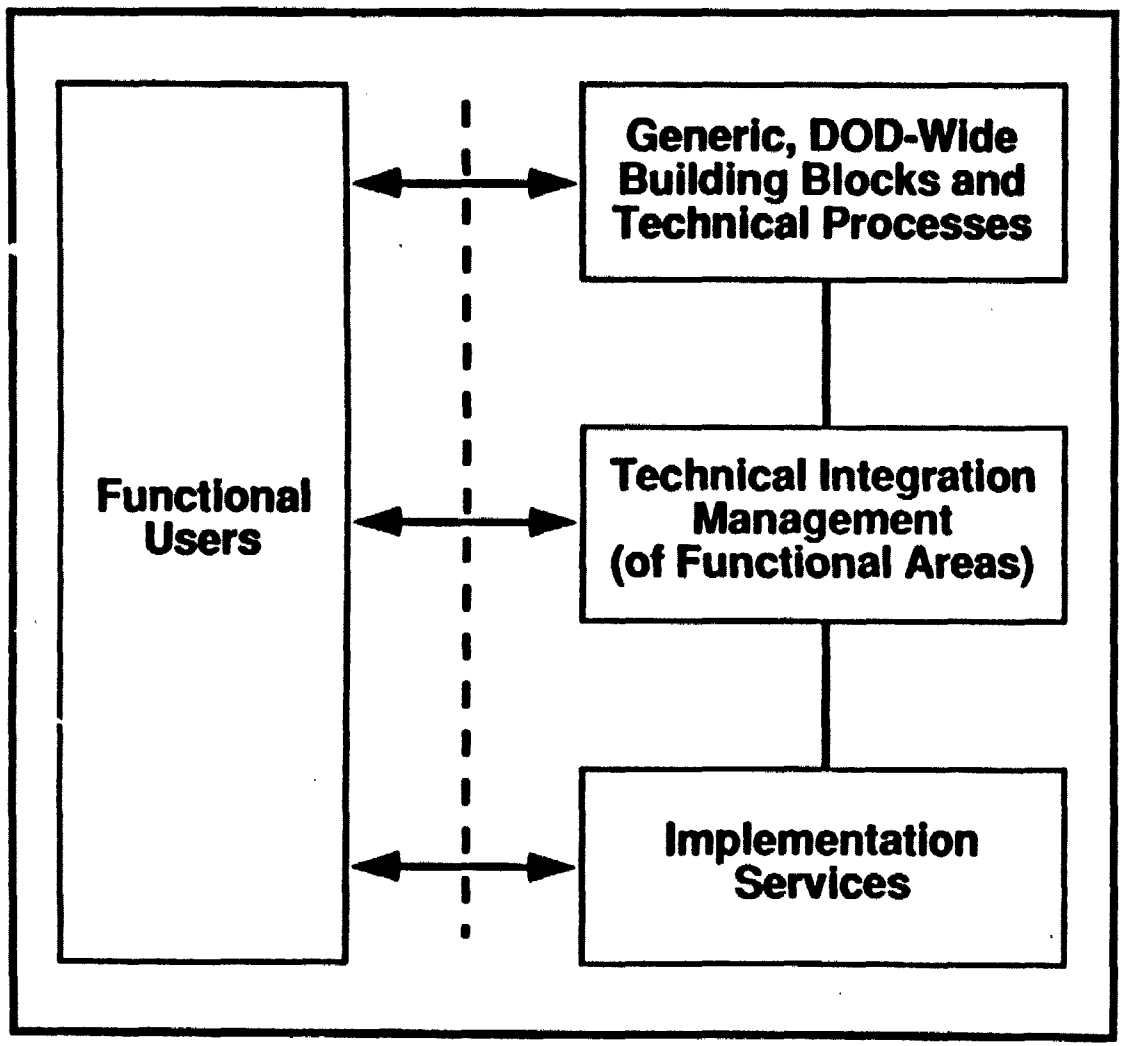
This chart depicts the Center's program and shows that our guidance comes from ASD/C3I and our produc[redacted]cesses and value added information systems for our customers.

The Center's Program



The approach the Center has taken to support the functional areas in C3I involves three levels of support: (1) involves architecture, (2) C3I area integration and (3) Specific projects and systems.

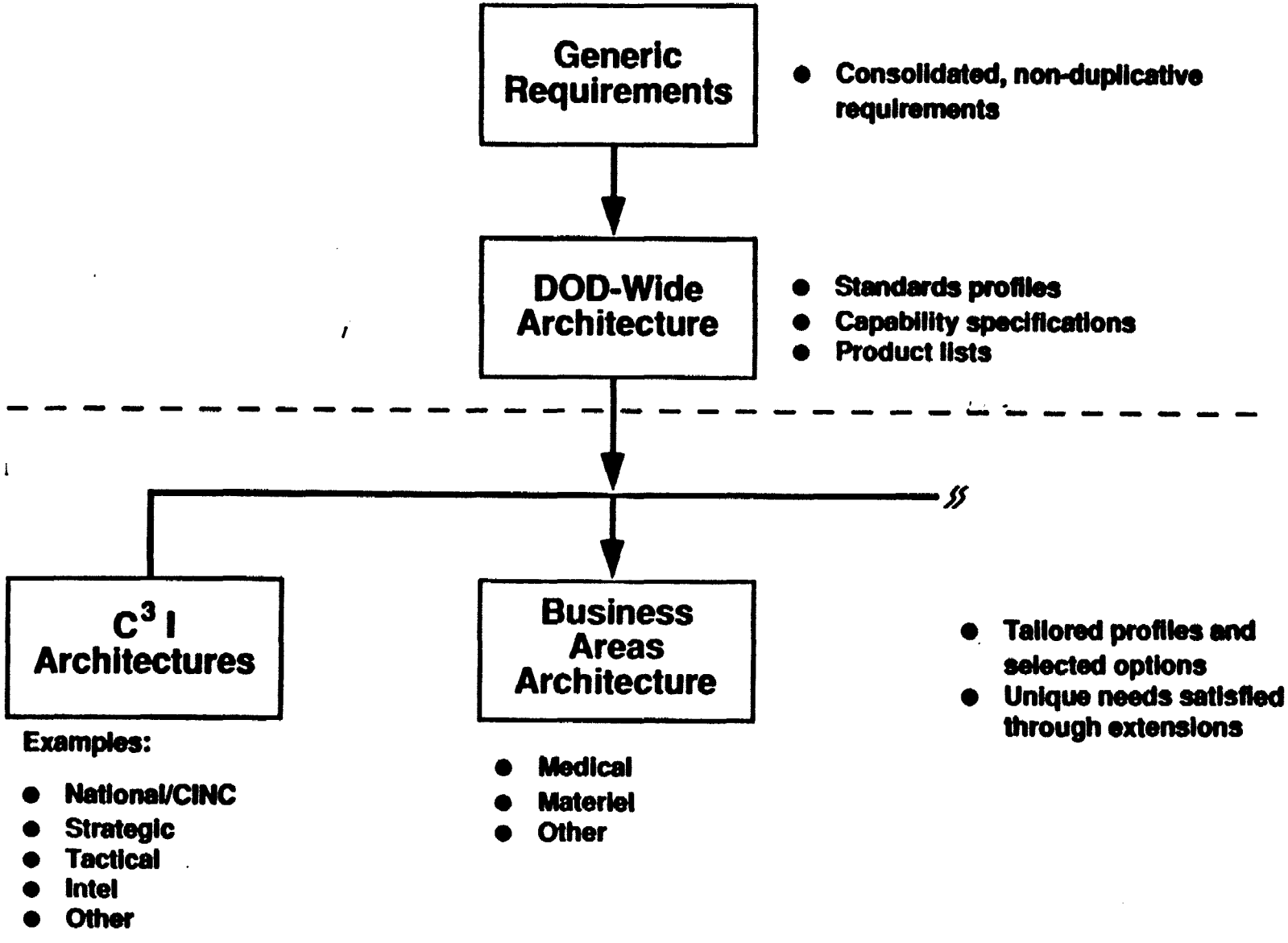
CIM Approach Support to C^3I Functional Areas



- DOD architecture and plans
- C3I area integration
- Specific projects and systems

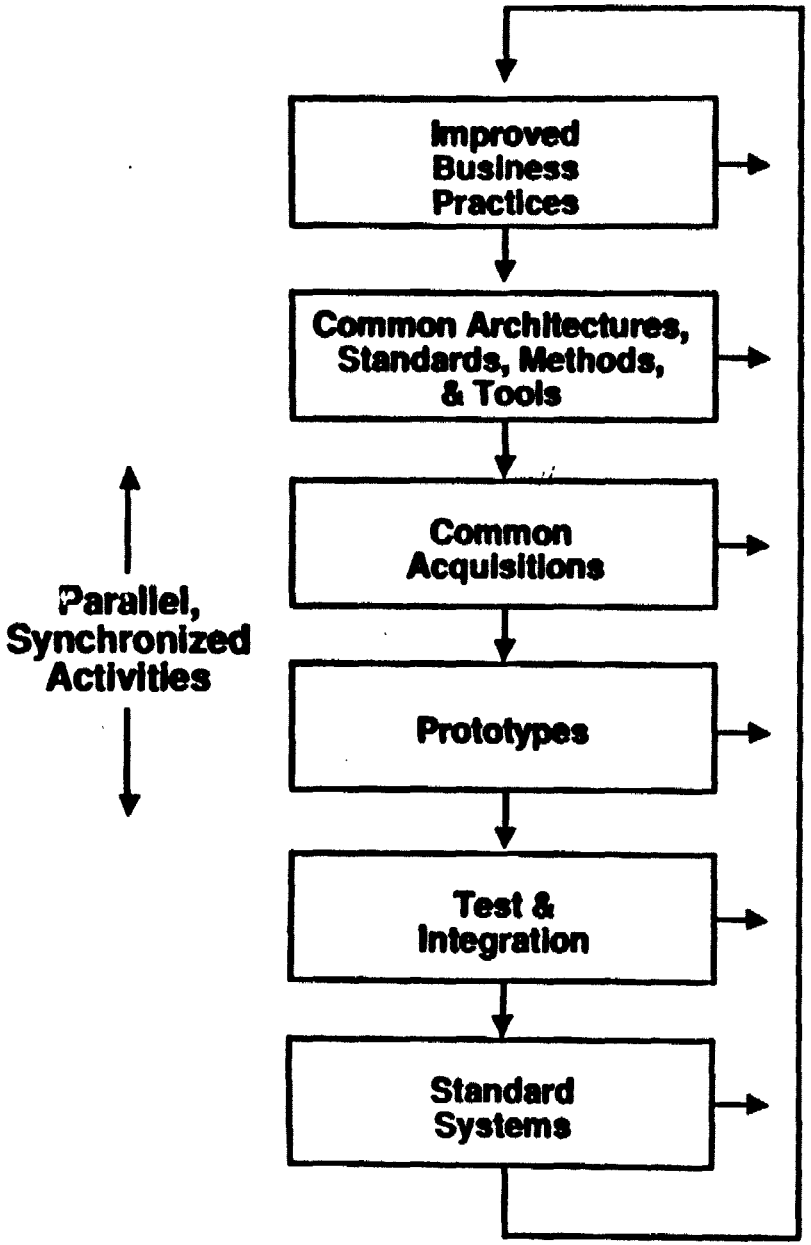
This chart shows the CIM architectual support to C3I. It shows that the war-fighters requirements lead to the generation of DoD wide architecture. Then there are two equally important areas to focus on, the business areas and the C3I architectures.

Example: CIM Architecture Support to C^3I



The same approach is used for the business as well as the C3I area. This chart shows the different steps that you go through in order to develop standard information systems.

Approach



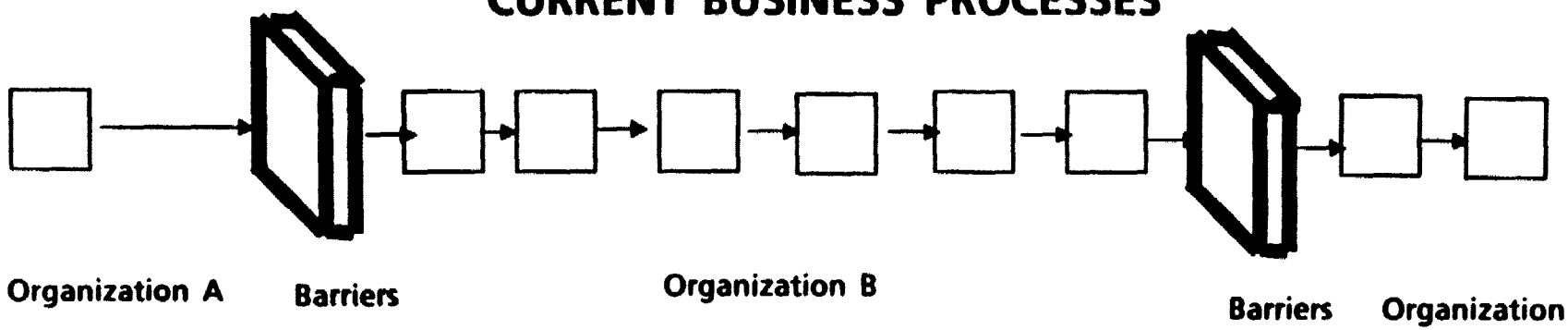
Features

- Business Improvements
  - Drive evolution - Measure of success
- Common Architectures
  - Broad frameworks - Guide evolution
- Standards
  - Vendor independence - COTS
  - Interoperability - "Plug and play"
- Common Methods & Tools
  - Better process - Reliable & reproducible
  - Faster and cheaper
- Common acquisitions
  - Efficient - On-time delivery of info system parts
- Prototyping
  - Risk reduction - Innovation
  - "Spiral" into user products
- Test & Integration
  - Ensure fit - Validate business utility
- Standard Systems
  - Designed & engineered to continually evolve
  - Improved life cycle process "built in"

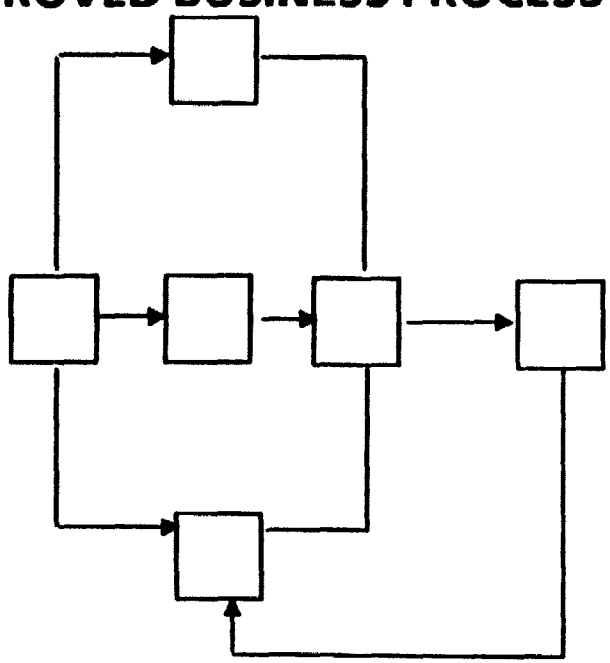
This chart shows the first step in the approach which is to improve the business practices.

IMPROVE BUSINESS PRACTICES

CURRENT BUSINESS PROCESSES



IMPROVED BUSINESS PROCESS



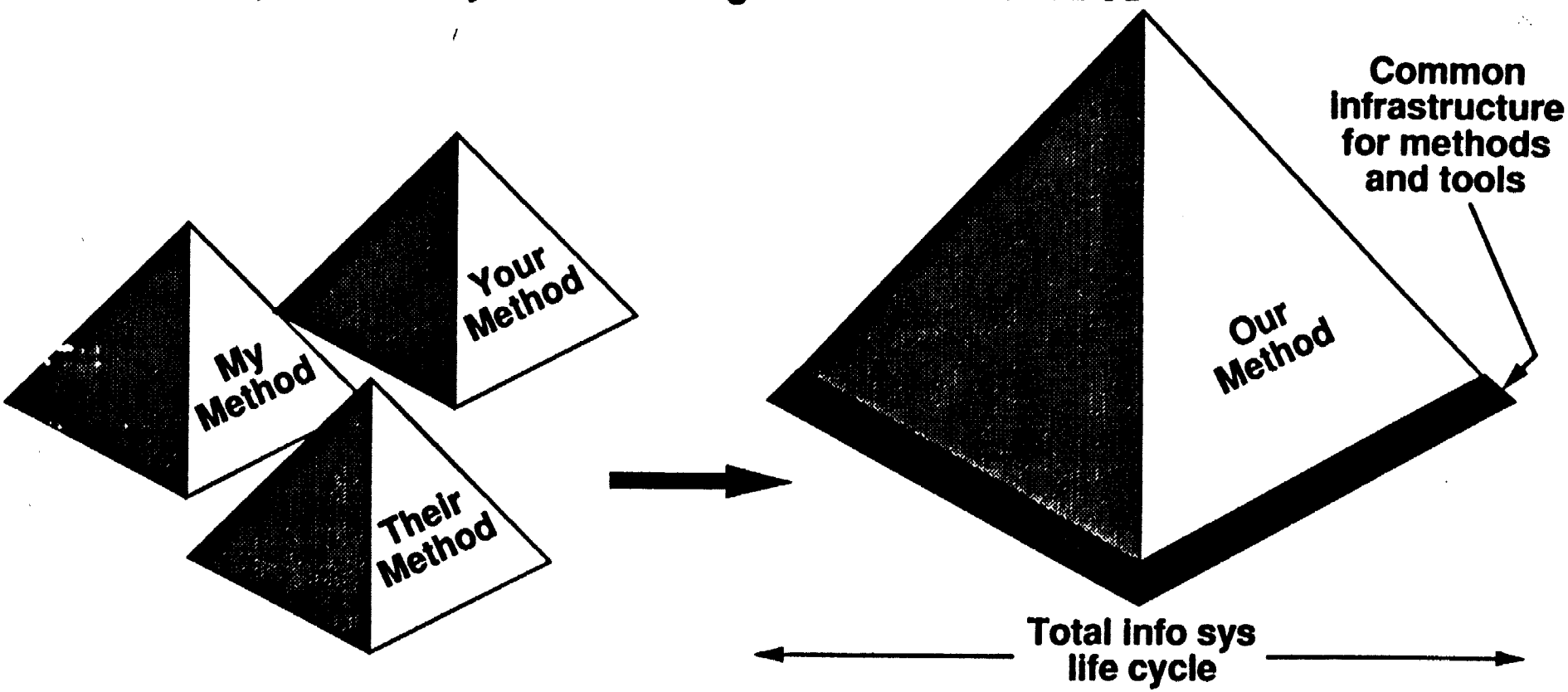
THROUGH

- Mission need analysis
- Shortened cycle times
- Parallel processing
- Organizational barriers removal
- Streamlined and simplified management and processes
- Increase tooth-to-tail ratio
- Improved feedback loops

This chart depicts the importance of using common methods and tools in th entire evolutionary life cycle of the development of a system.

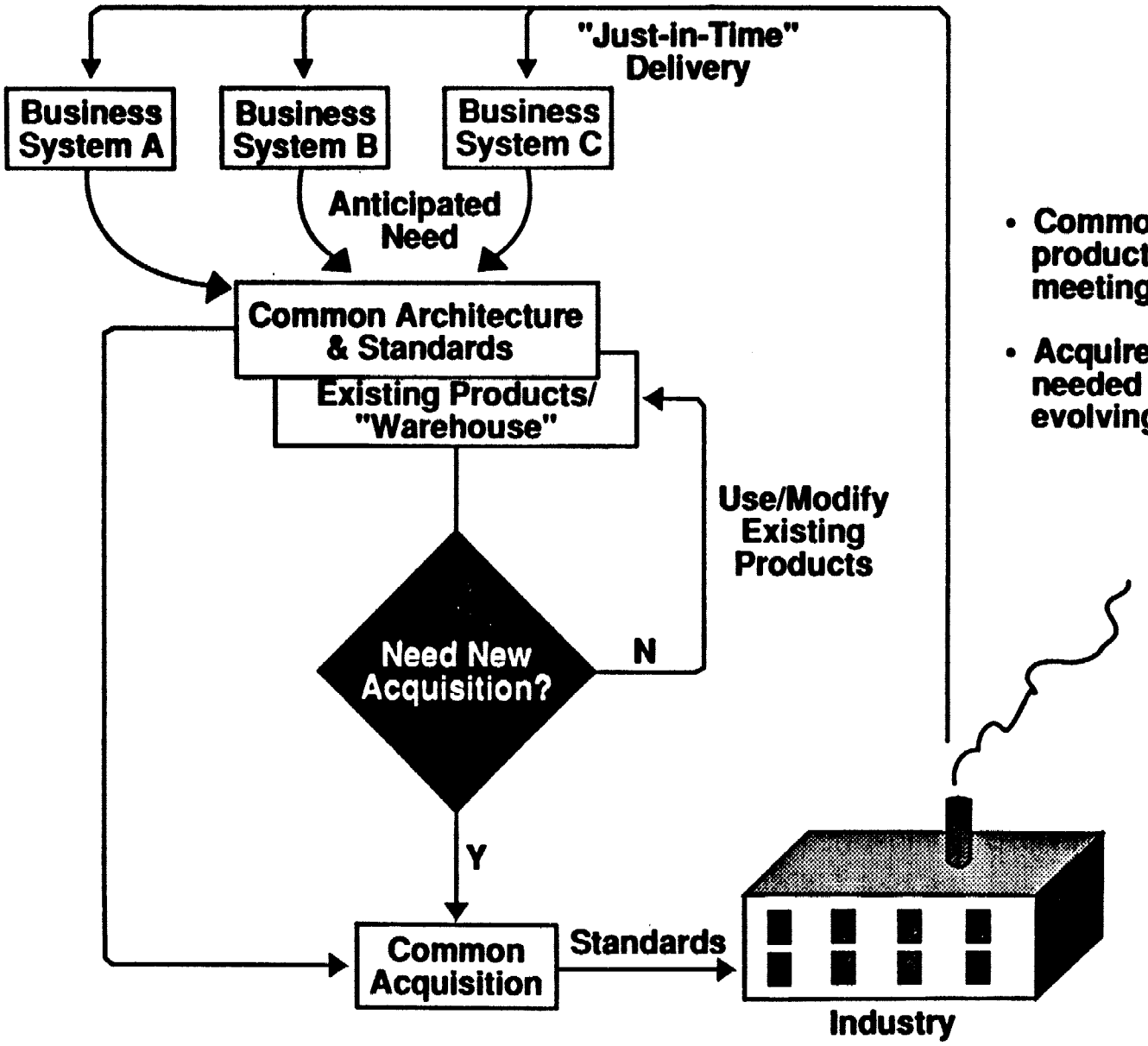
Use Common Methods and Tools

- In fact there is a proliferation of methods and tools, but they are:
  - Not aligned with the CIM philosophy and evolutionary process
  - Variable across DOD organizations (non-standard)
  - Stovepiped
- We must rapidly develop and promulgate common integrated systems life cycle methodologies and toolsets in DOD



Common acquisitions are a critical ingredient in producing standard systems and in streamlining the process.

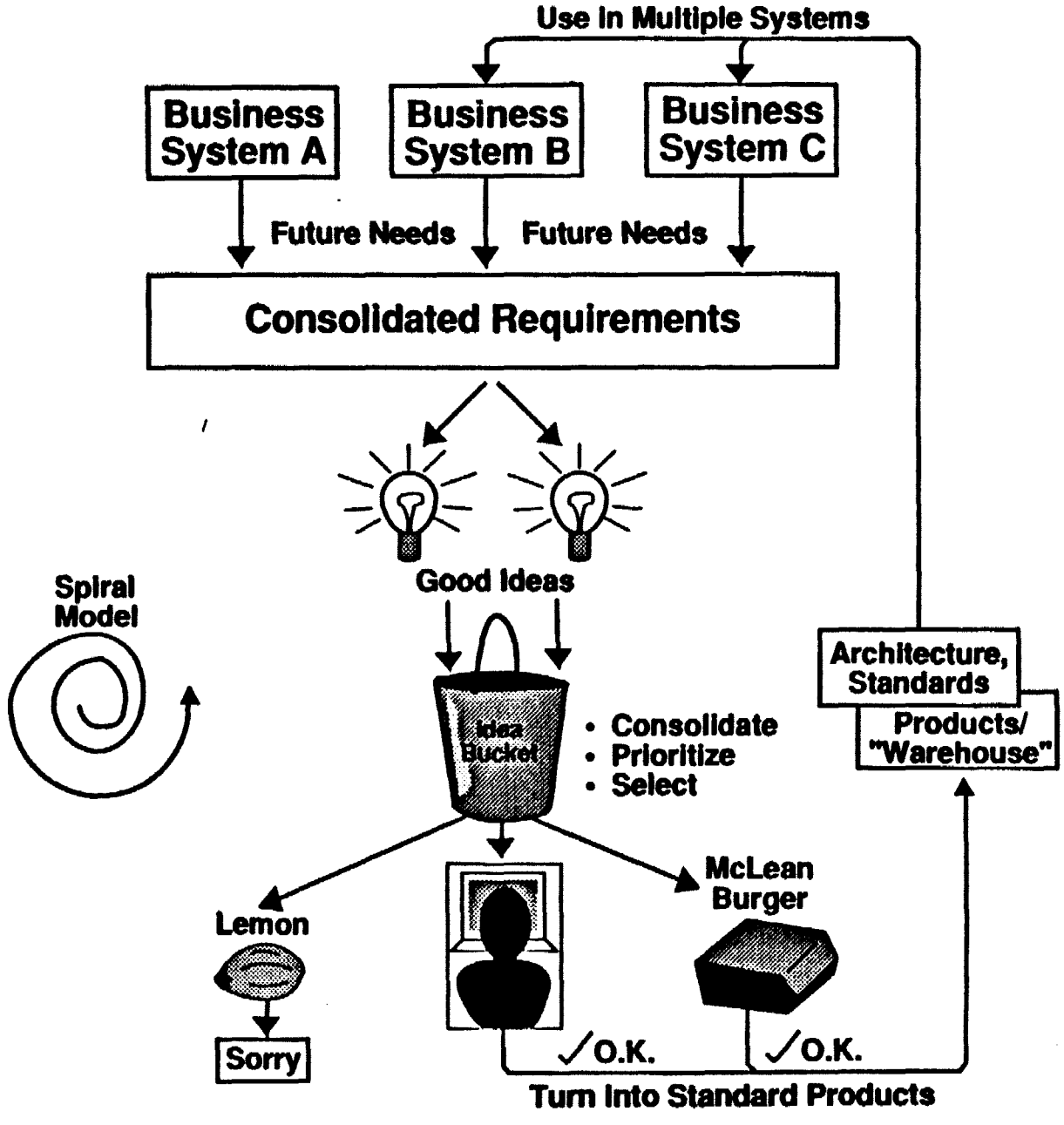
Common Acquisitions



- Common, commercial products & technologies meeting DOD standards
- Acquired and in place when needed for insertion into evolving systems

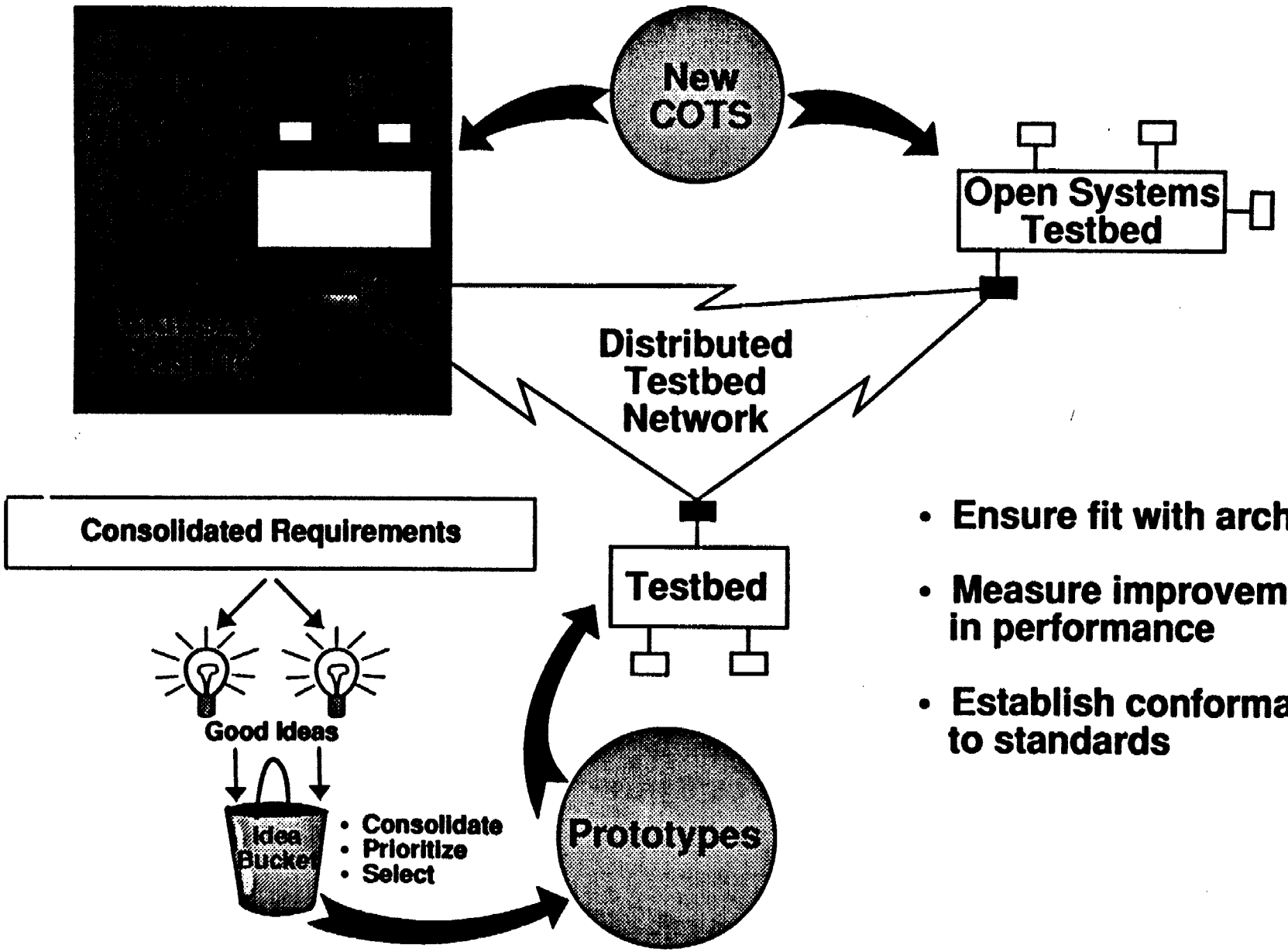
Common prototyping helps save money and produces standard products.

Common Prototyping



This shows that a distributed test bed network is the core of getting coordinated integration and tests of new systems.

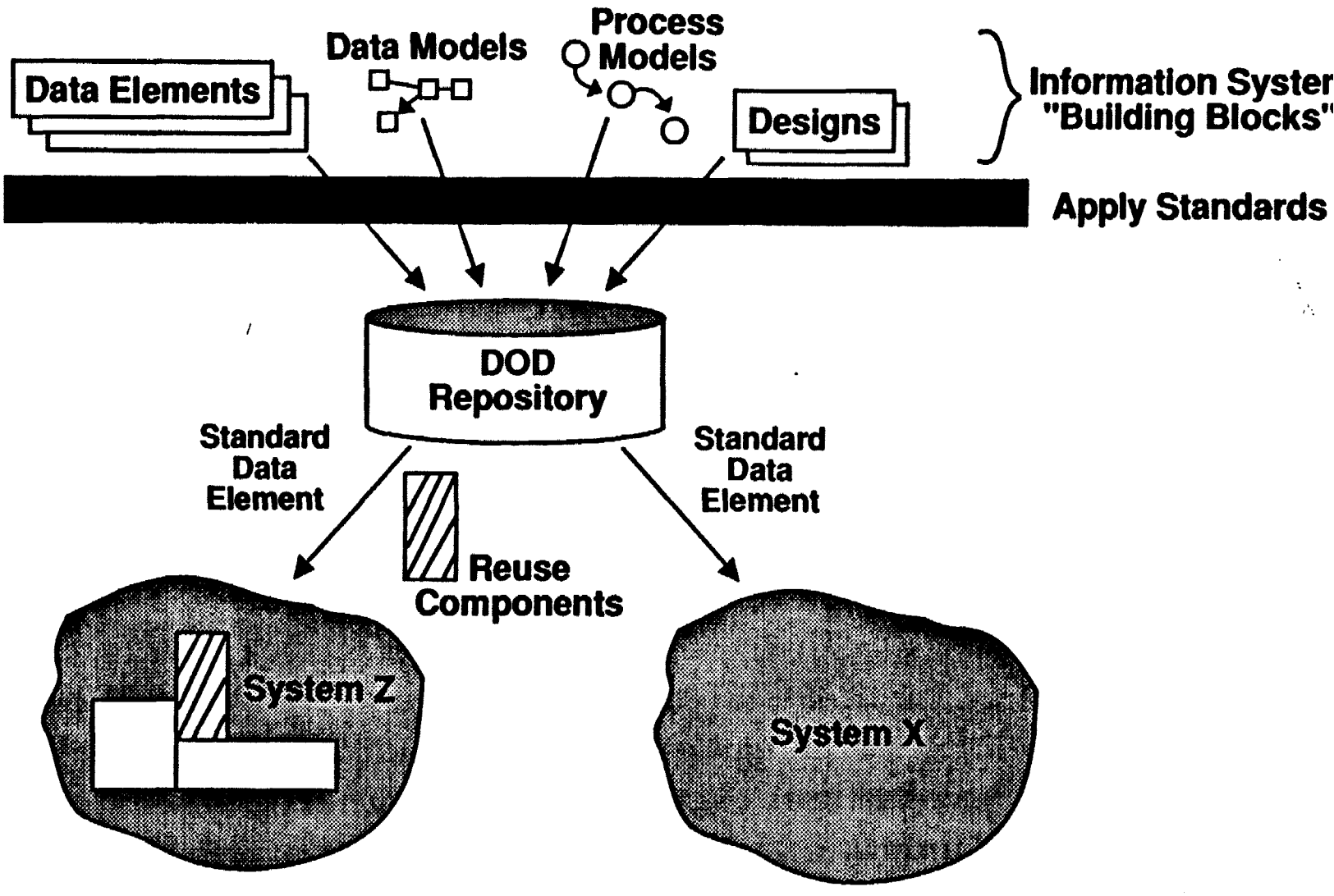
Prototyping, Coordinated Integration & Test

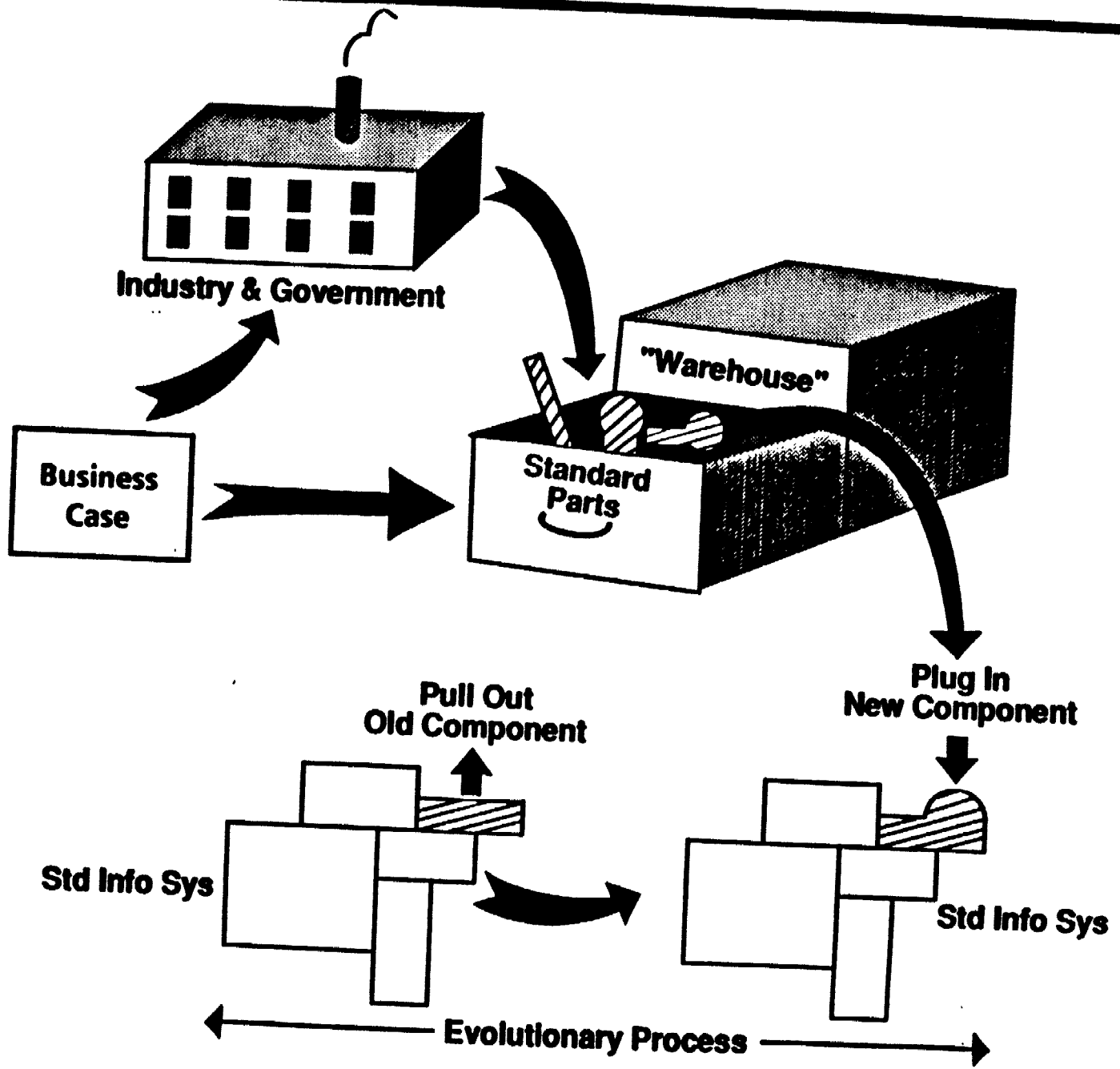


- Ensure fit with architectures
- Measure improvements in performance
- Establish conformance to standards

Data management process involves as its core a DoD repository where you have standard data elements and also are able to go in to get reuse components. Data model, data elements, process models, and designs all feed into the DoD repository.

Data Management Process



This chart shows that in the future you have a logical warehouse of standard parts which is a way to reuse software and have easy acquisition vehicles to buy hardware. These components get put into standard information systems.

Future Process