

Enterprise Architecture: A Key IT Management Process



*Enterprise Architecture
Presentation NTNU*

What Is Enterprise Architecture?

- A planning discipline for the enterprise that goes beyond technology choices:
 - Driven by the strategic intent of the enterprise
 - Holistic in breadth
 - Designed to create a future-state “road map”
 - A **bridge** between strategy and implementation
 - Provides flexibility and adaptability for changing business, information, and solution needs => **change** enabler
- Why do this at the ENTERPRISE level?
 - To overcome religious wars concerning technology choices within projects
 - To provide consistent and disciplined use of technology
 - To reduce stovepipe solutions & reduce **integration** complexity

Enterprise Architecture – bridging the gap between Business and IT

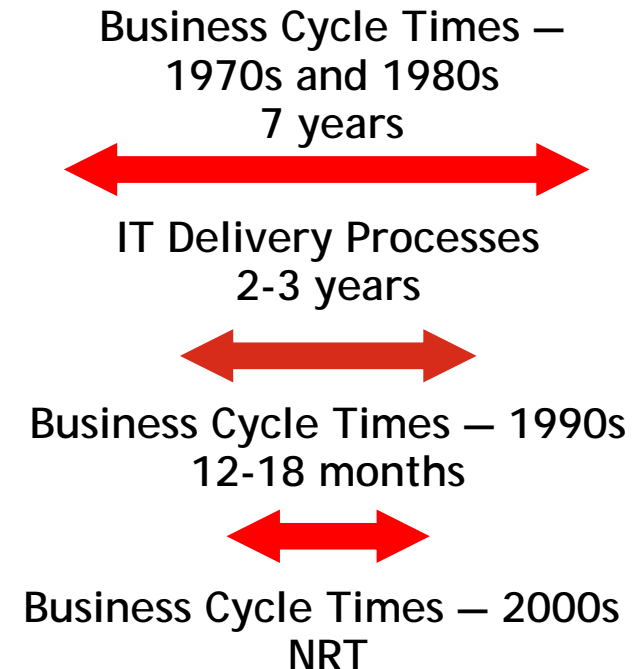
- Enhance the relationships between IT and the business
- Reinforce IT understanding of the business strategy
- Create a process for continuous IT/business **alignment**
- Enhance IT **agility** to support business changes
- Create business value from IT



The Demand For Enterprise Agility

- Planning timeframes are compressed
- Primary problem for the Global 2000...
 - Adapt faster
- Adaptability = business risk management

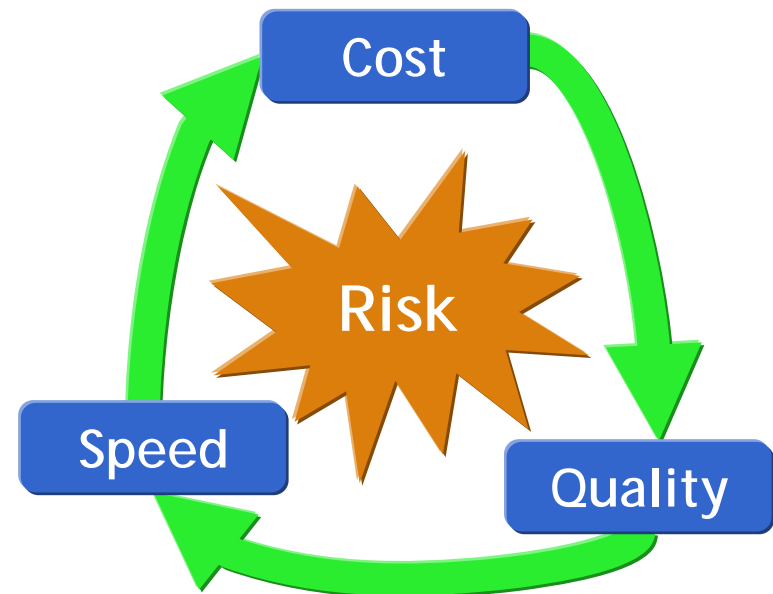
Business Process Cycle Times have Collapsed!



Design in the ability to thrive on change, design out everything that inhibits change

Cyclic Fixations of Business & IT

- The fixations of business & IT
 - Previous fixation: Speed
 - When we go too fast, we lose control of our spend
 - Current fixation: Cost
 - When we cut too much, quality suffers
 - Next fixation: Quality
 - When quality controls go overboard, everything takes too long
- Risk management is at the center
 - Balance is the key!

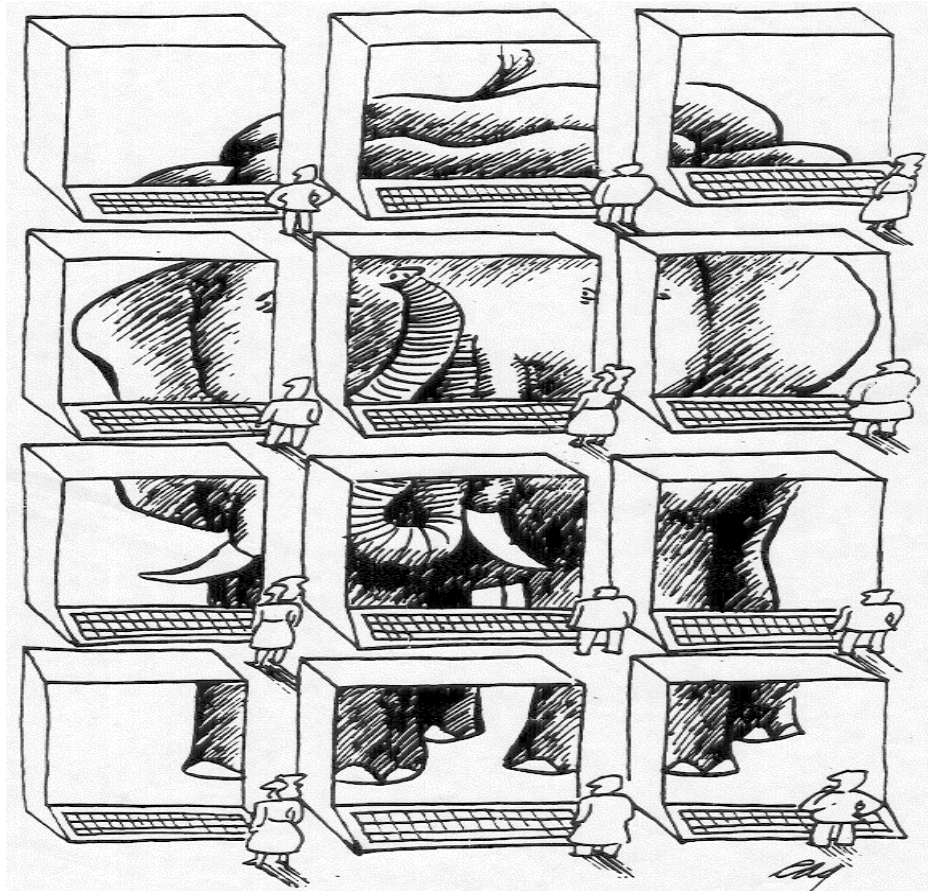


The Enterprise View

- The enterprise view binds, scopes, and constrains the perspective in which the organization operates
- An enterprise perspective identifies the big-picture interrelationships & interdependencies to make appropriate optimization and suboptimization decisions
 - Look at “the whole,” not the piece parts
 - Look beyond narrow and restricted views
 - Look for context from the top

The quality of all IT decisions is dependent on the enterprise view

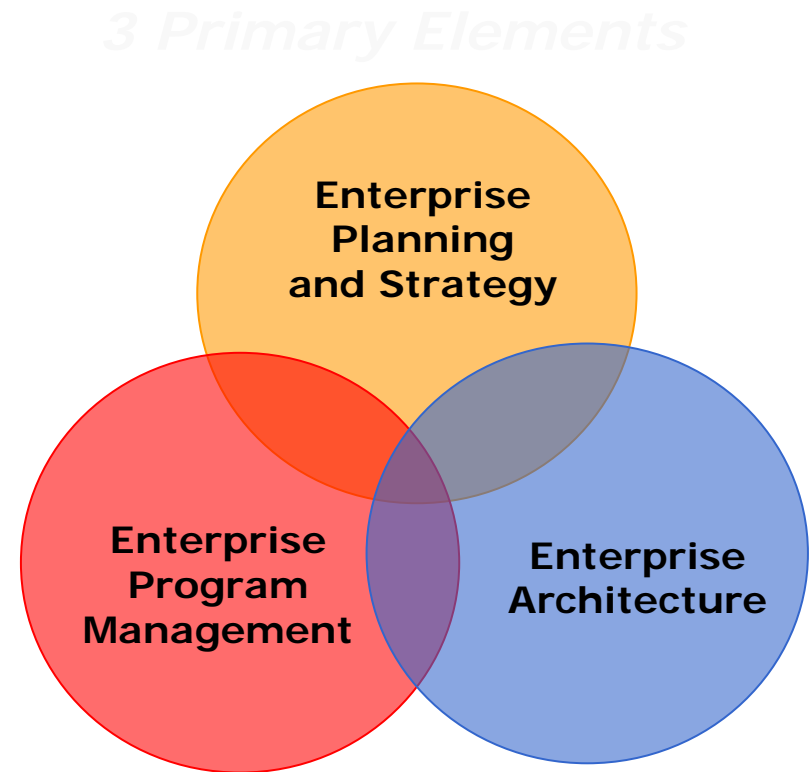
The Enterprise View



Source: Adaptive Corp.

High Performance Enterprises Develop Integrated Strategies

- **Planning and Strategy**
 - Focused on integration of business and IT planning
- **Enterprise Architecture**
 - Goal is to provide the road map for the enterprise
- **Program Management**
 - Primary agent for implementing enterprise transformation



Enterprise Architecture Bridges Strategy and Implementation

Architecture

- Business architecture
- Information architecture
- Solution architecture
- Technology architecture

Business Strategy

- Business drivers
- Business goals
- Business policy
- Trend analysis

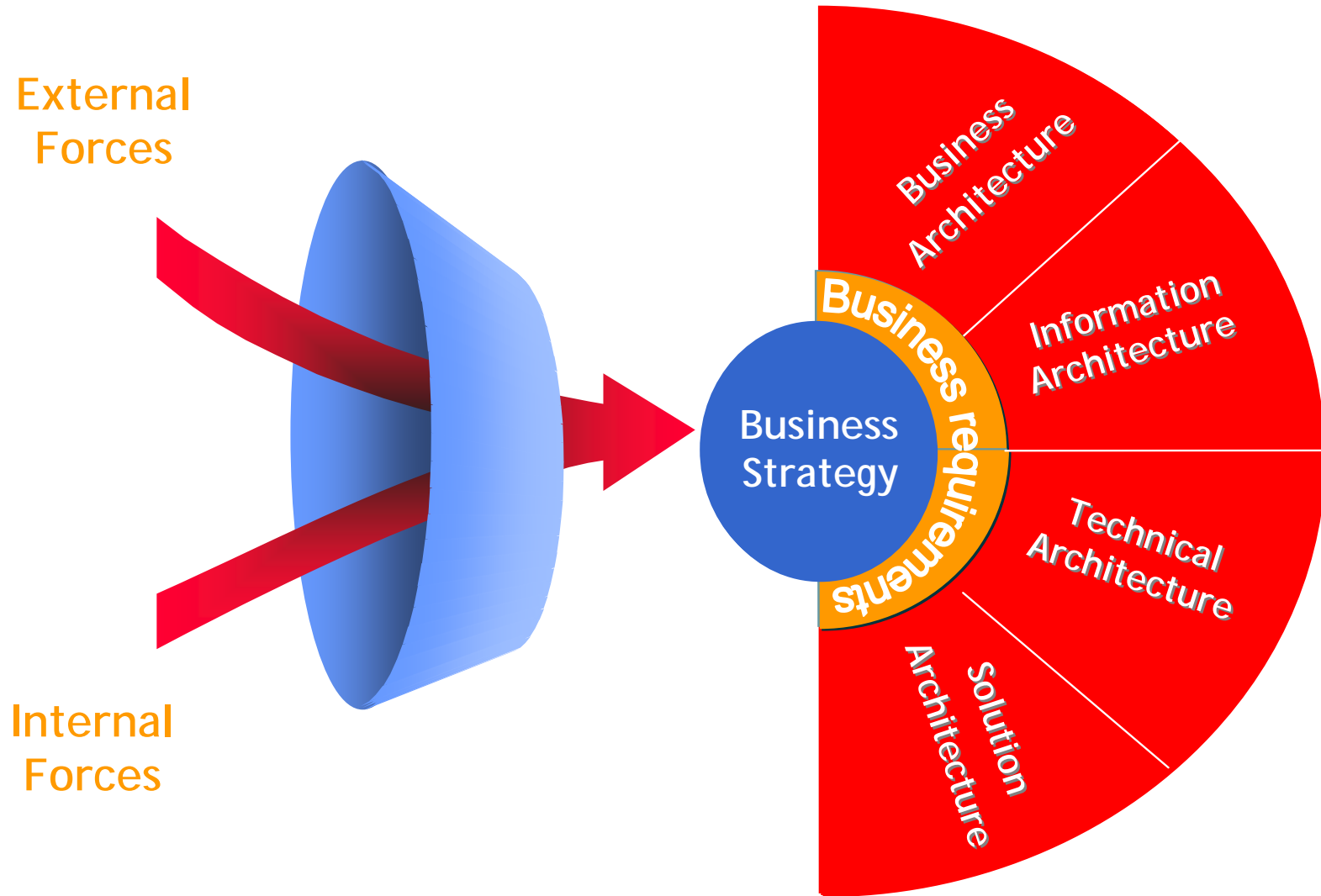


Implementation

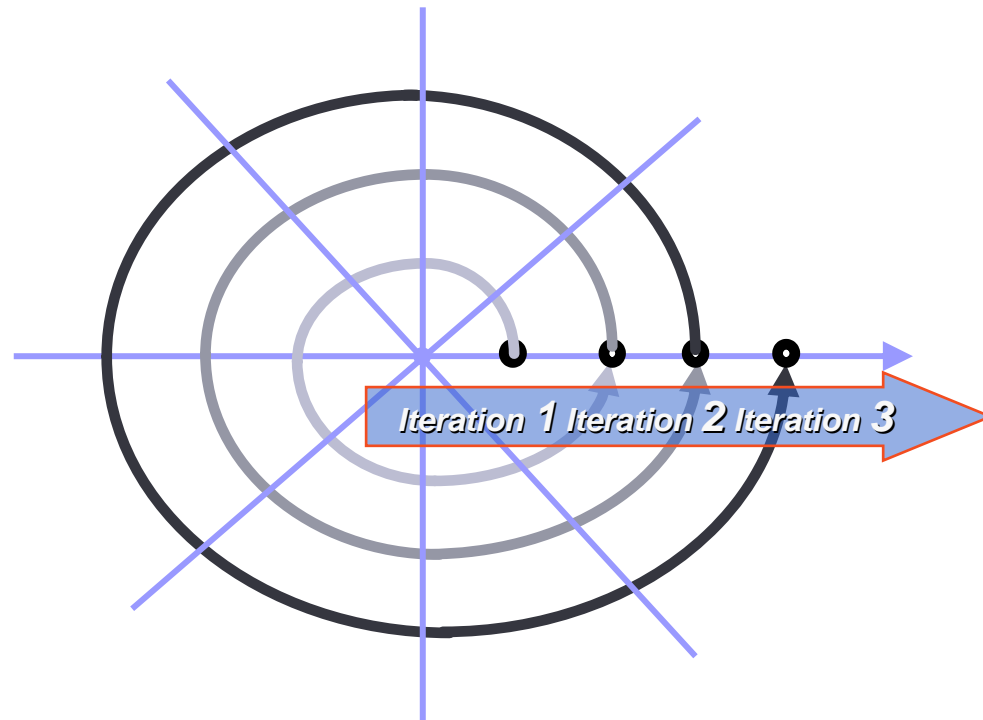
- Business processes
- Application systems
- Tech infrastructure
- Organizational structure

The bridge between strategy & implementation

From Forces to Enterprise Architecture ...

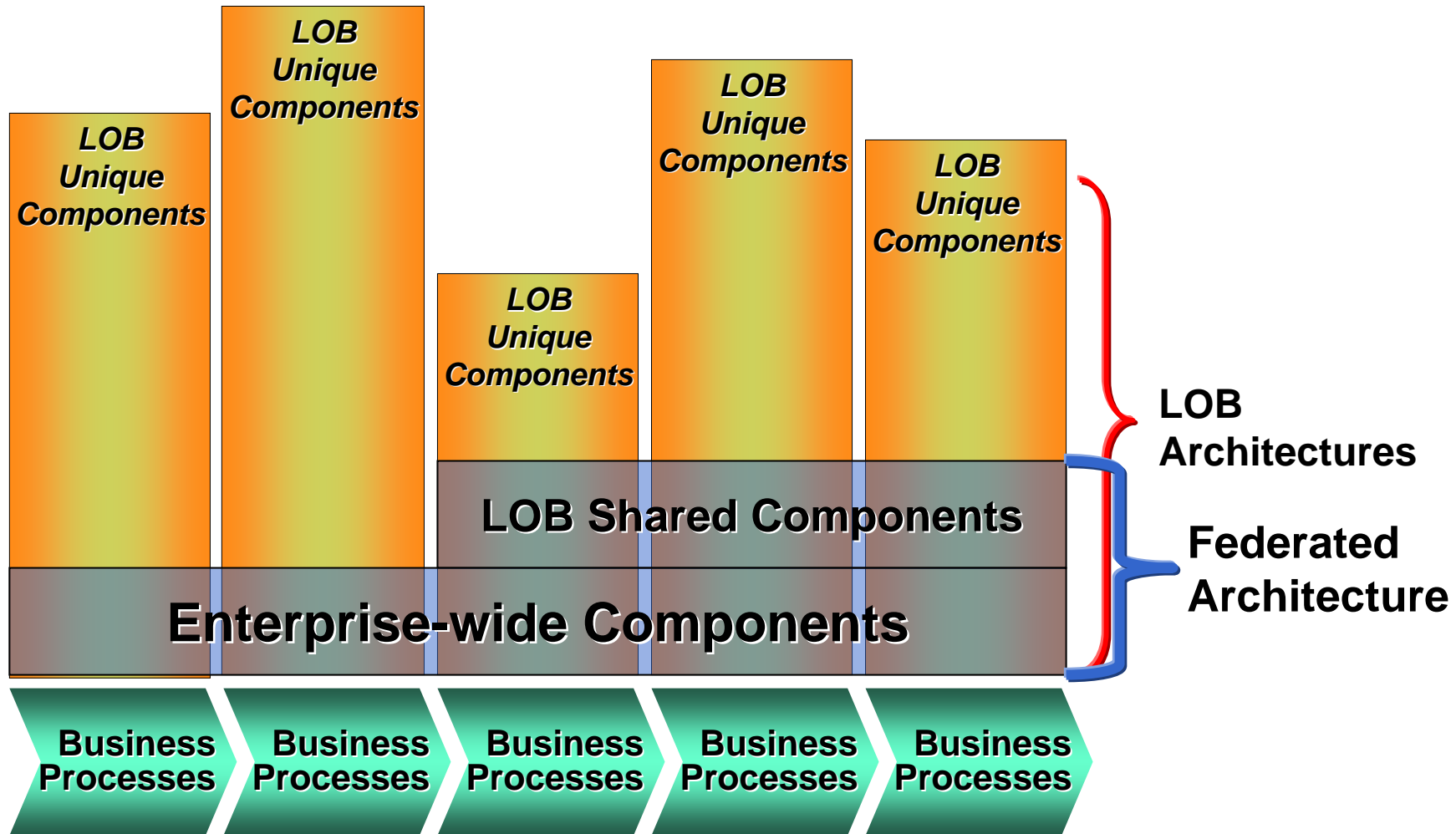


Evolve architecture Iteratively

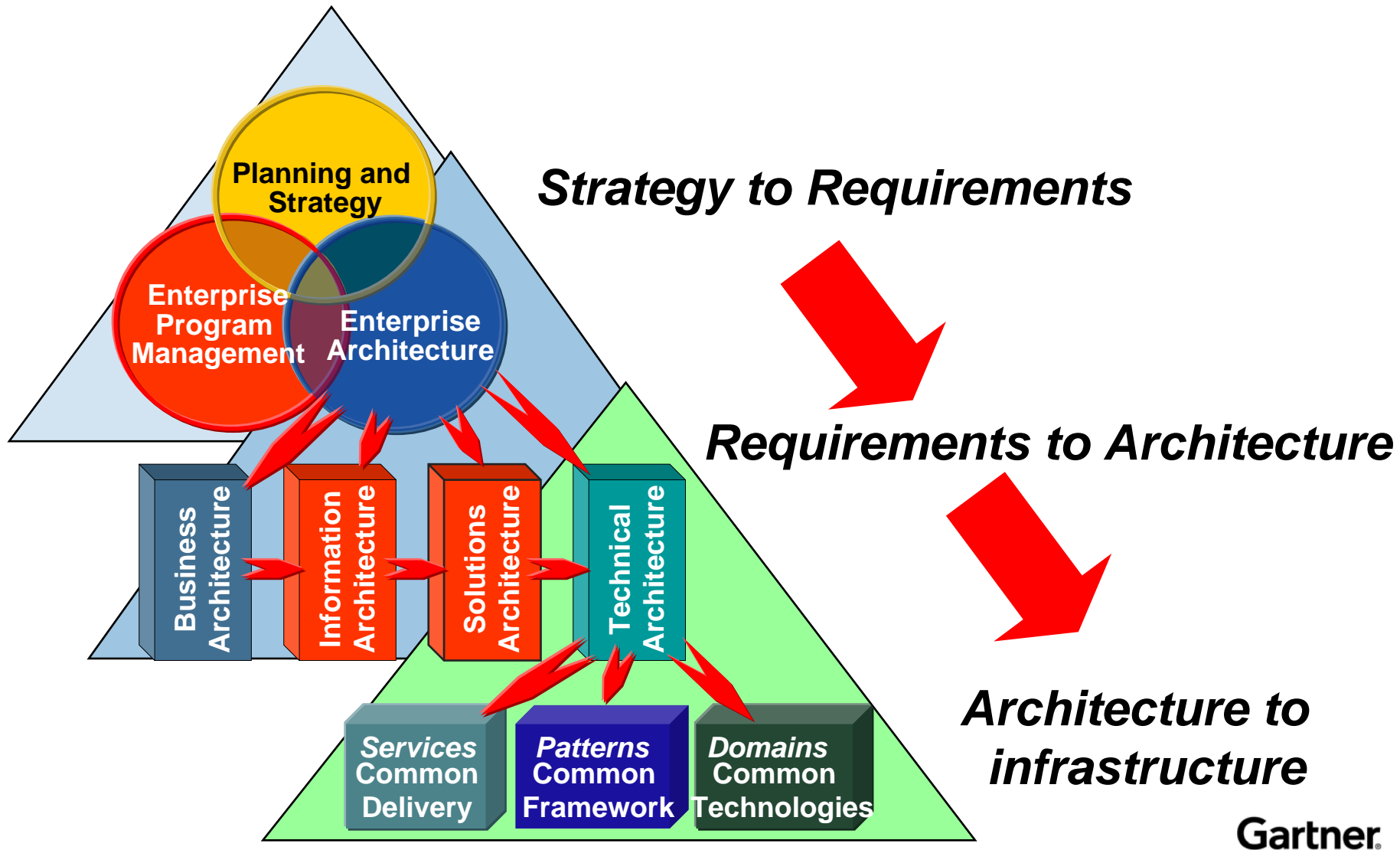


***Enterprise Architecture is not a "one-time event"
EA must be progressively enhanced via iterations***

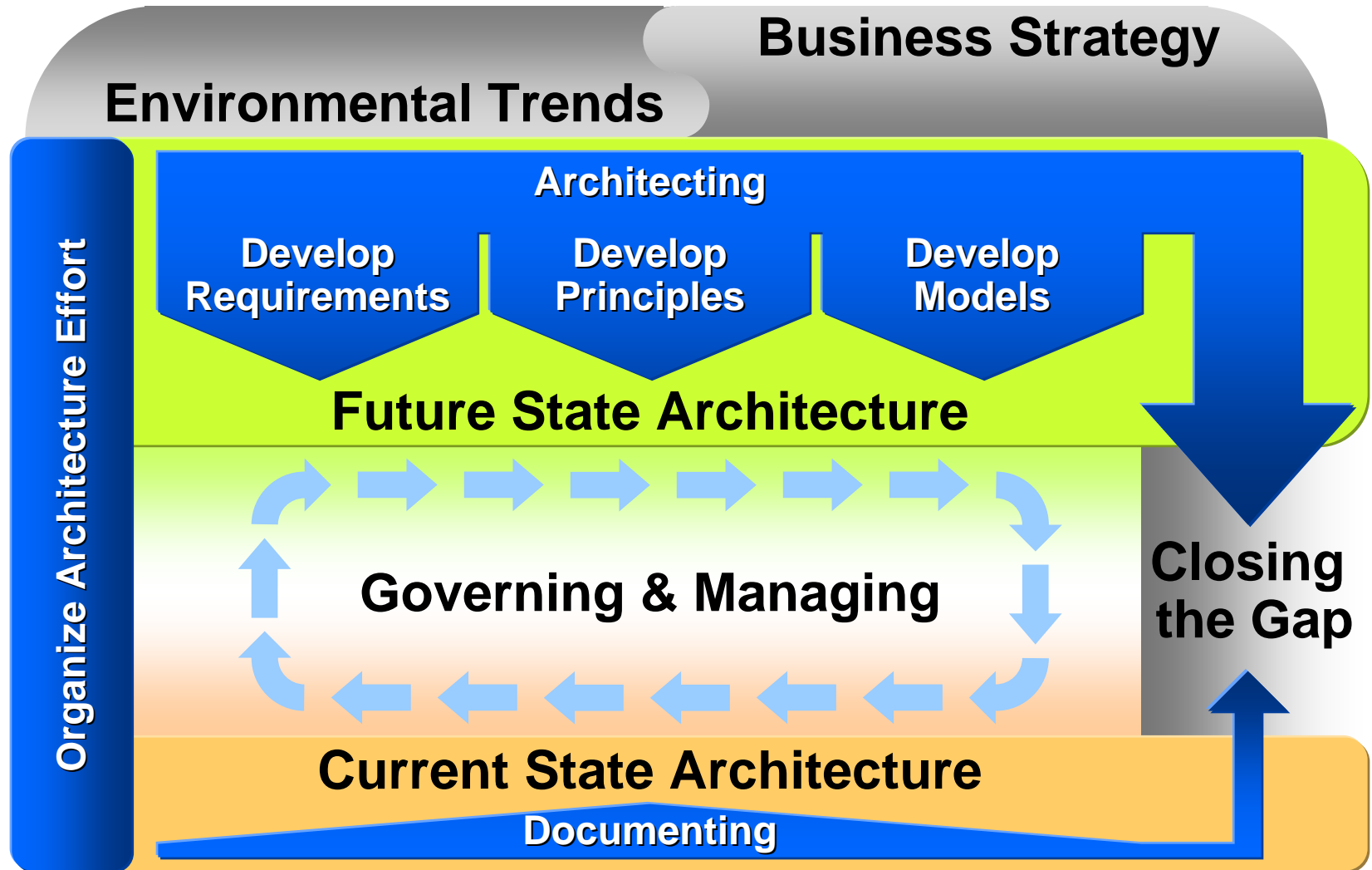
Scope: Just Enough Architecture, Just in Time



Model Just Enough, Just In Time and link IT together



The EA Process Model



Principles – example:

High level requirements for ICT solutions

- Same solution for similar business needs
- Same architecture for similar solutions
- One common infrastructure throughout Statoil
- Utilize what we have
- Buy-not-build
- In-line with the market:
 - Don't be different
 - Don't be 'bleeding-edge', but
 - accept specific solutions, only if required to achieve "Competitive edge"
- Support a borderless Statoil