



SOA Today: How to get Started on an SOA Journey and Achieve Rapid Results

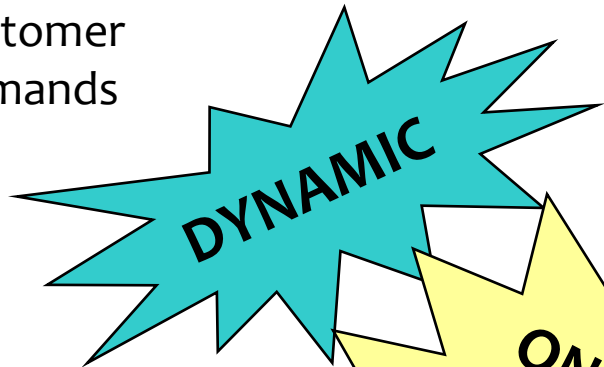


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Myth #1: Business is Constant

Customer
Demands



Changing
Marketplace



New
Leadership

Corporate
Regulations

New
Legislation



Optimizing
Processes

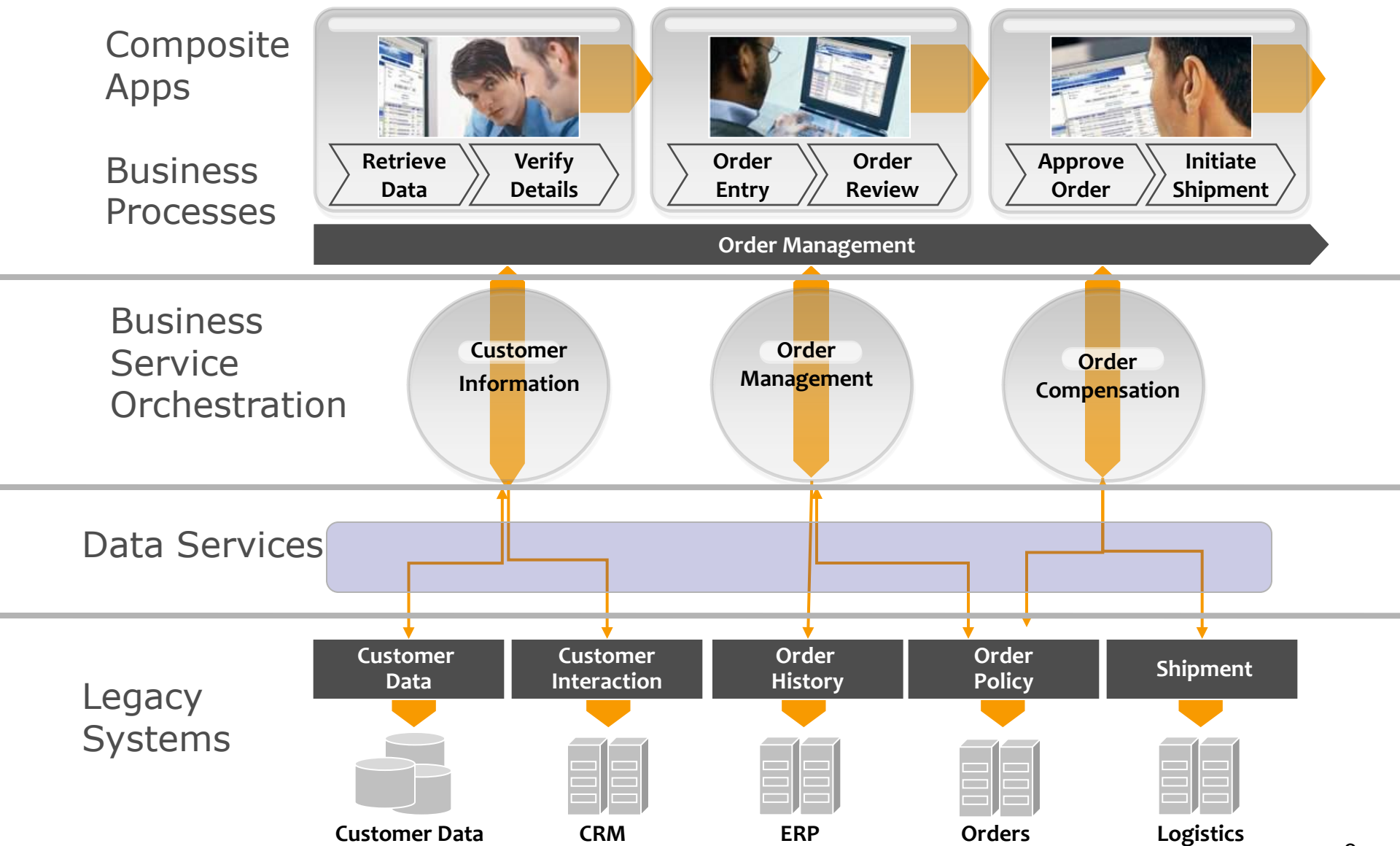
Re-Organization



New
Technologies

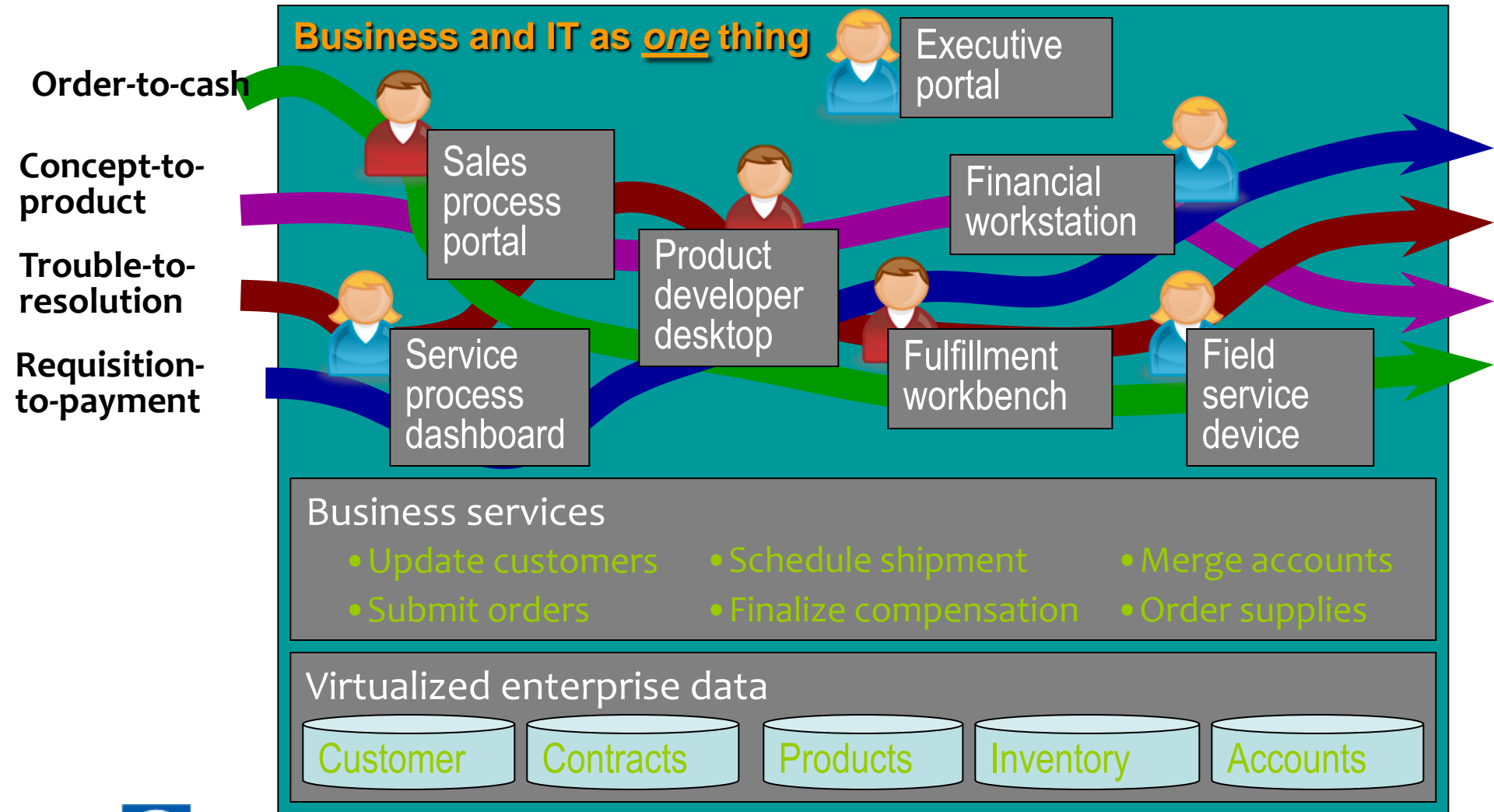
TUSC Opinion: A **PRACTICAL** SOA & Modernization Approach can enable legacy, ERP, and silo data stores to share information for the benefit of the business.

SOA Concept



The new delivery model: digital business

Break down silos: Architect and digitize the business



Traditional Approaches to SOA aren't working...

Difficult Planning Cycles

Organizational Confusion

Cumbersome Methodologies

Business Distrust

Lack of Current State Awareness

Deployment lag
Lack of Agility
Risk of non-compliance
Increased biases
Increased Business risk
Broken Systems

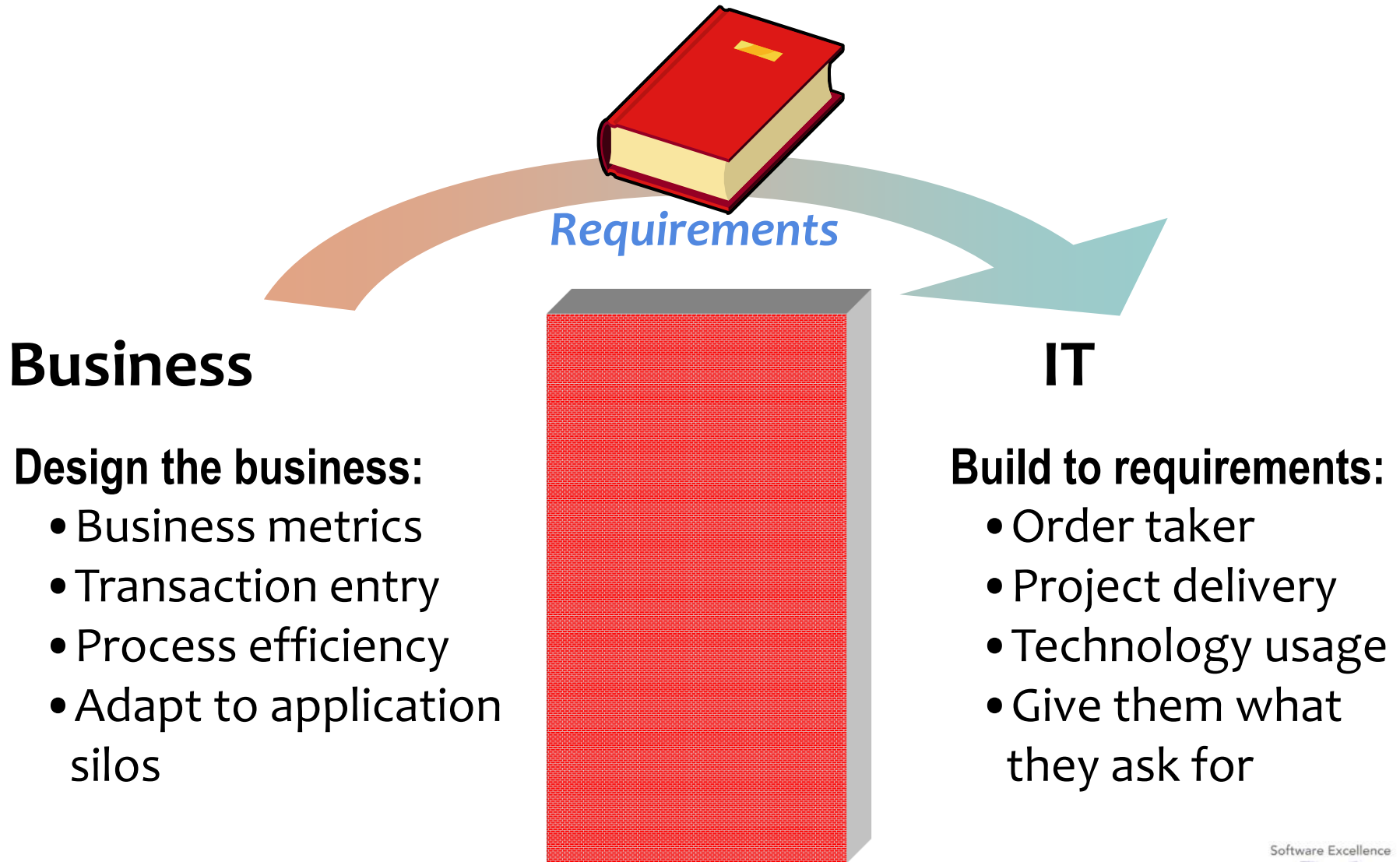
Rogue Employees
Political Alliances
Increased turnover
Loss of Knowledge
Decrease Morale
Reduced-buying
Shifting cultures

Increased Resource Cost
Increased Software Cost
Longer deployment lag times
Project delays
Project cancellation

Difficult Messaging
Lack of awareness
Reduced Cooperation
Cross-Dept. infighting
Business Process Failures
Customer dissatisfaction

Misguided Focus
False Vision & Future State
Lack of Control
Improper Roadmap

Traditional: “over the wall” delivery model



What percentage of software **is never or rarely** used?

64%

Comparisons of Approaches

Traditional SOA	<u>Approach</u> <ol style="list-style-type: none">1. Define all your Business Processes2. Define all Governance policies3. Implement Technology Stack	<u>Results</u> <ul style="list-style-type: none">• Cumbersome SOA• 1-3 year ROI• Business must wait
SOA-Today Jump Start	<u>Approach</u> <ol style="list-style-type: none">1. Prove viability of SOA (1-3 week)2. Get Business Requirements3. Build Services Rapidly	<u>Results</u> <ul style="list-style-type: none">• Quick SOA• 1-3 month ROI• Business Aligned
Non-SOA Approach	<u>Approach</u> <ol style="list-style-type: none">1. Build IT Infrastructure & Stack2. Build vendor driven Integrations3. Revise to Business Needs	<u>Results</u> <ul style="list-style-type: none">• IT Driven; Upfront costs• Lacks Agility• Where's the business?

The Agile Manifesto

- Individual Interactions (over processes and tools)
- Working Software (over comprehensive documentation)
- Customer Collaboration (over contract negotiation)
- Responding to Change (over following a plan)



A Potential SOA Manifesto

- Architecture driven (over product implementation)
- Integrated Systems, Processes, People (over individual silos)
- Business Visibility and Understanding (over IT priorities)
- Re-usability (over redundant efforts)
- Standards and Governance (over non structure)
- Agility and Adaptability (over non flexibility)



SOA and Agile Similarities

- Focus on the business
- Built for change
- Incremental structure
- Keep it Simple
- Collaboration is King
- Team dictates success
- Decomposition

Agile Approach

Efficient development

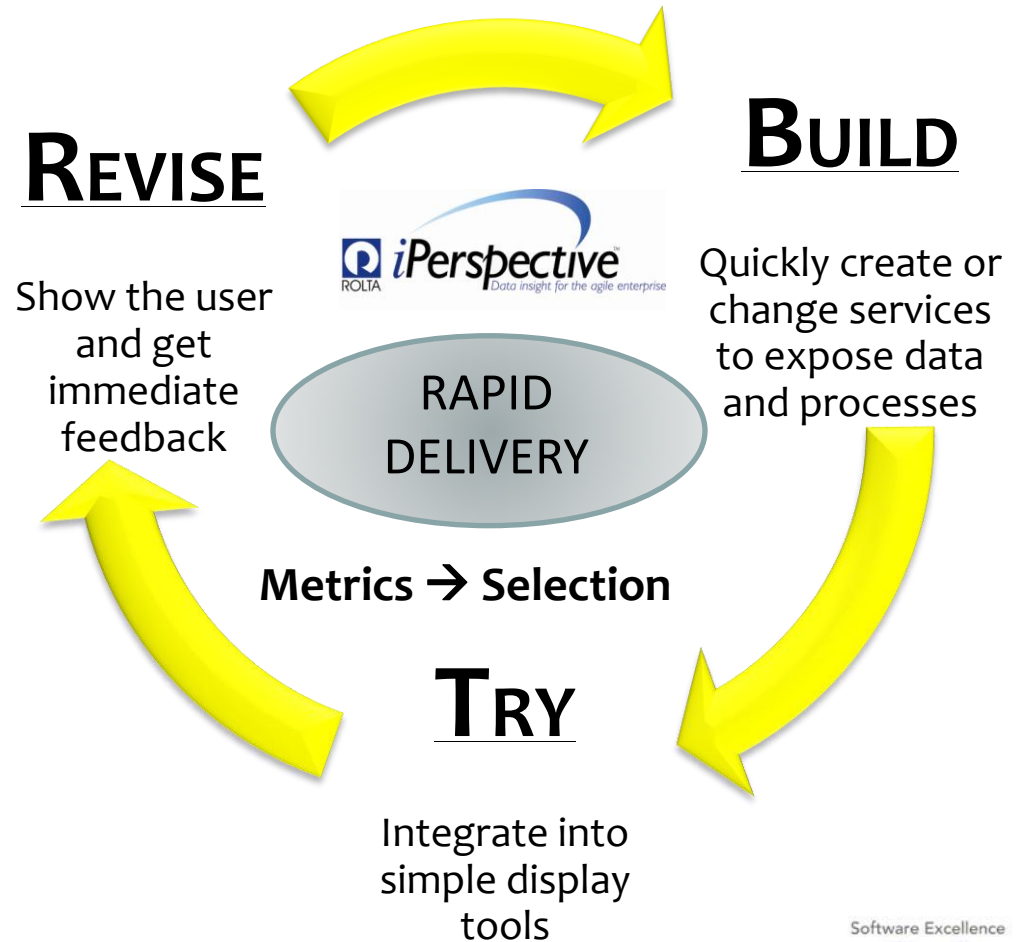
- Build services in minutes!
- Integrate with business app easily

Improve services usage

- Collaborative with business client
- Metrics – select the best, delete the rest

Reduces risk

- Shorter time-to-solution
- Simple approach
- Built-in precision tuning

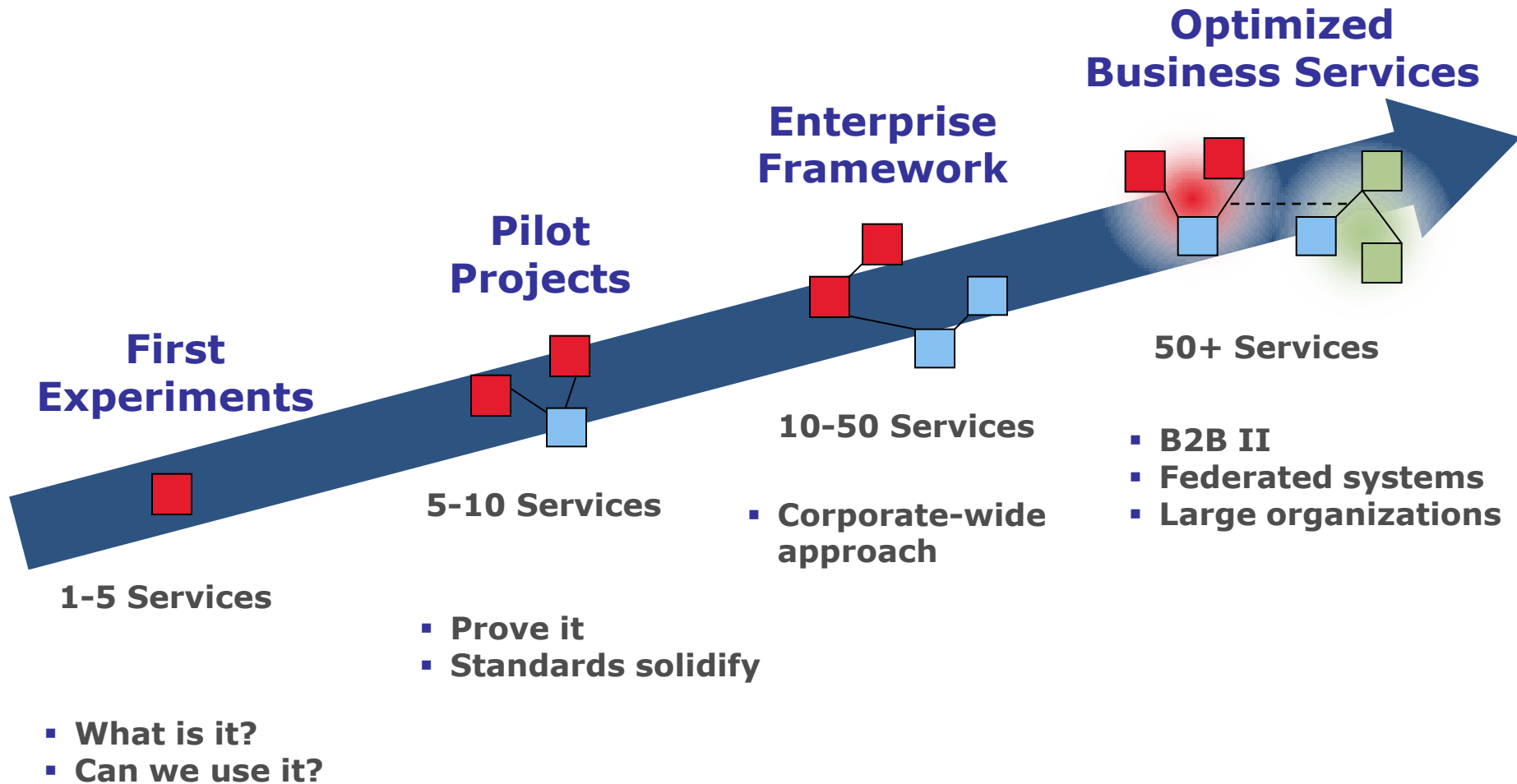


Why use Agile on SOA

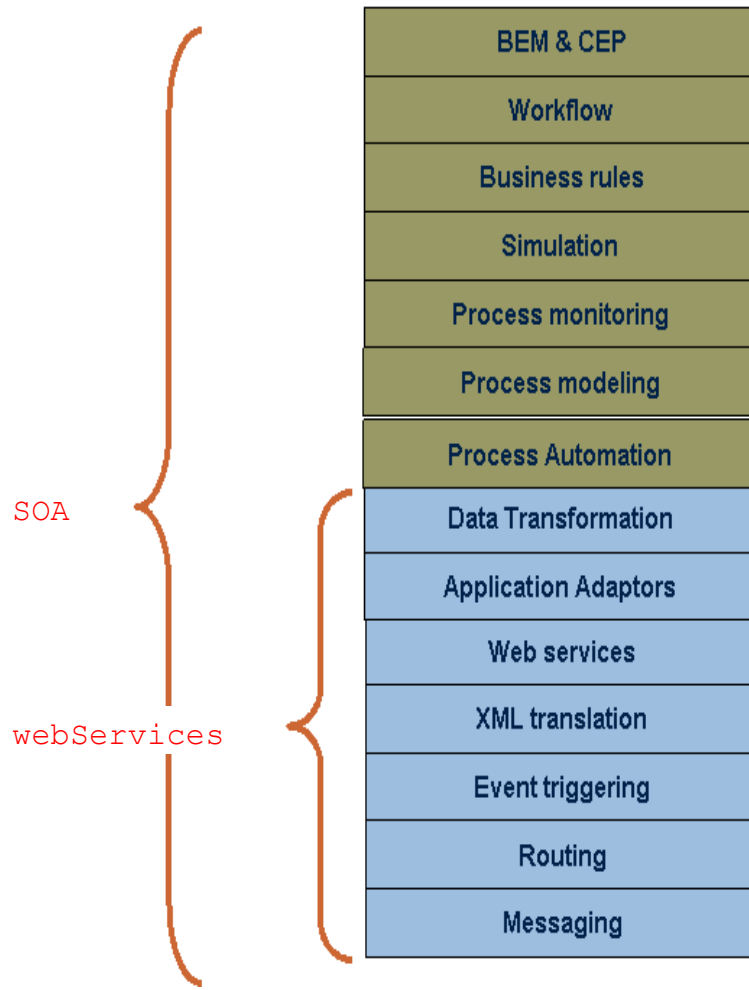
- Quicker Feedback from business team
- Ensure Business & IT Alignment
- Production ready code is built faster, shorter iterations
- Improved Quality
- Flexibility
- Faster Time to Market
- Reduced Waste
- Increase in Predictability
- Better Morale



Adoption Path



SOA is not just webServices...



SOA is about expediting business processes via services **while EAI is traditionally about data integration via near-real time messaging** (i.e., EAI connects silos, SOA breaks them apart)

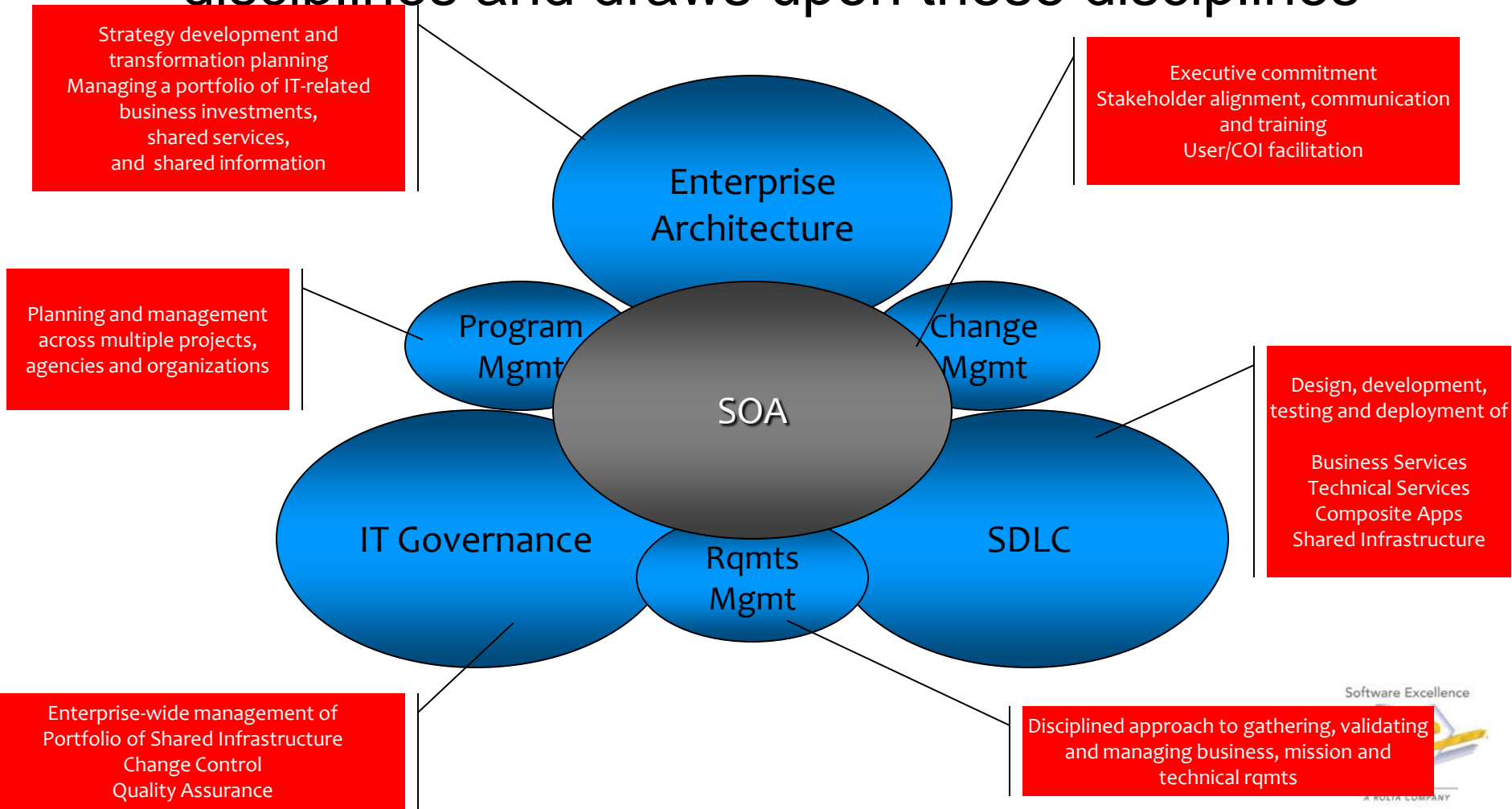
The business orchestration of SOA is the real driver to the reusability strategy, agility and flexibility. Service orchestration brings to an enterprise a business process model that can significantly improve the flexibility and agility with which business processes are remodeled in response to changes.

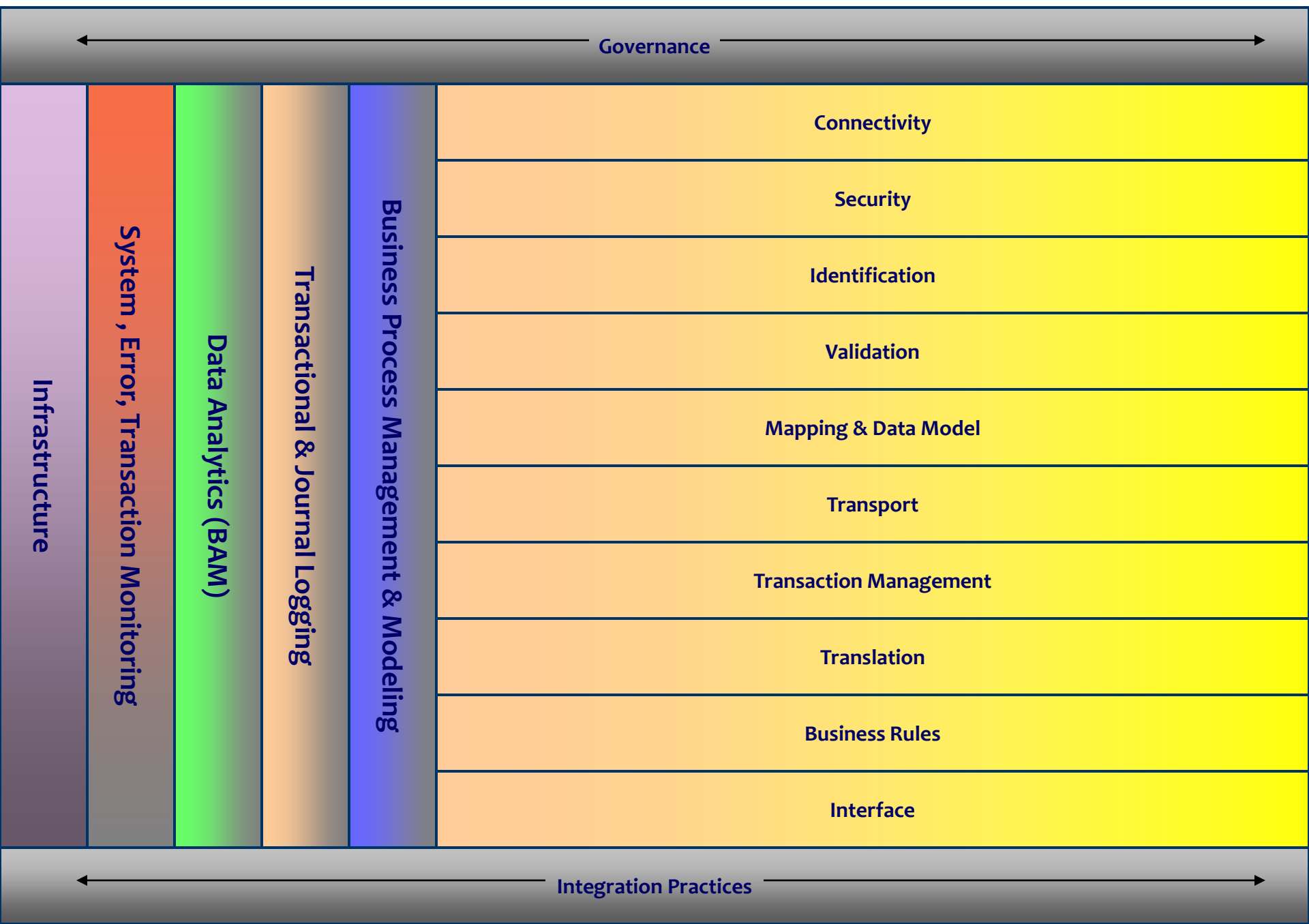
Principle: Standards

- ♦ **Standard way to work with other devices**
 - ⤴ Standard way to plug in anywhere
 - ⤴ My phone works at your house
 - ⤴ A phone from overseas can work here with an adapter
 - ⤴ Standard way to address other systems (703-555-1212)
- ⤴ **“Architecture” enriches experience with additional services**
 - ⤴ Caller ID
 - ⤴ Voicemail
 - ⤴ Call Waiting
 - ⤴ Additional features can be added (and ignored)
- ⤴ **Vendor Independent**
 - ⤴ Doesn't matter what kind of phone I have
 - ⤴ Doesn't matter how old my phone is

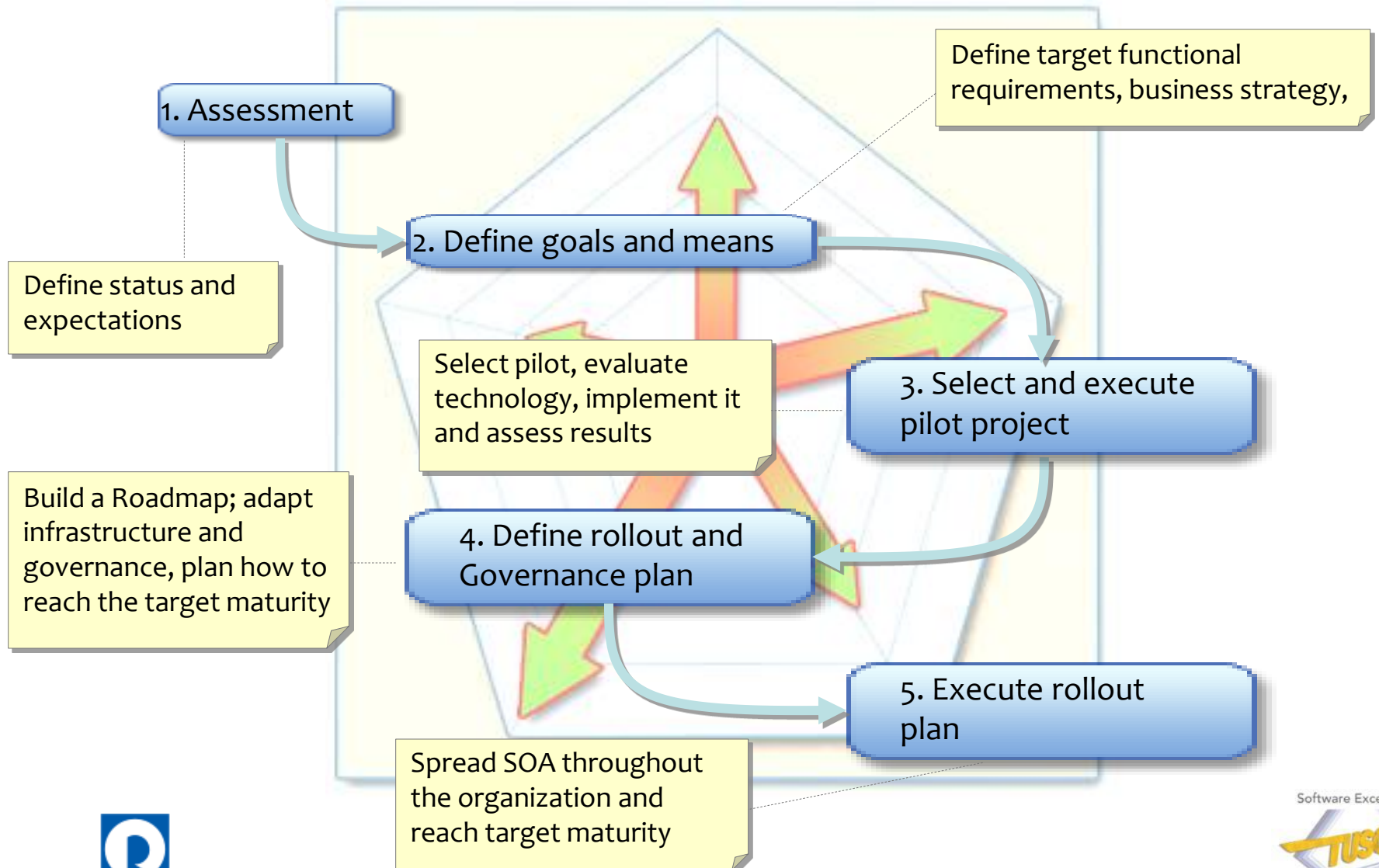
SOA borrows from other disciplines

- SOA shares characteristics with many established disciplines and draws upon these disciplines





Recommended SOA Approach



Does Governance Matter?



Governance does Matter

Governance provides

- Authorities and responsibilities
- Clear rules and rule enforcement
- Organizational and technical transparency

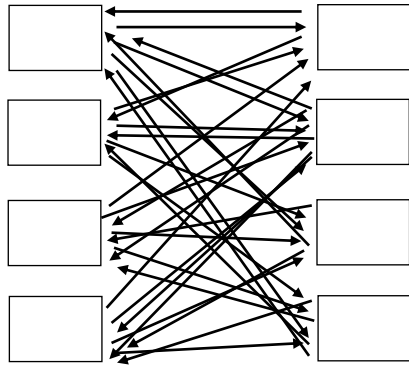
SOA Governance allows to

- Master complexity of IT
- Support business process change

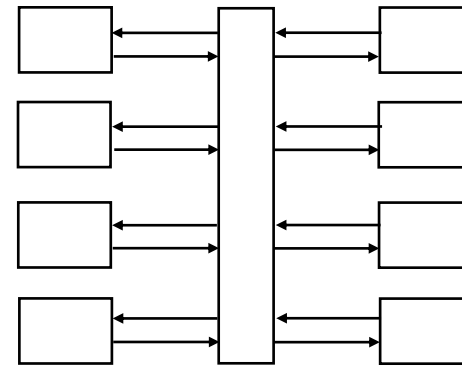
**SOA Governance saves
businesses time and money**



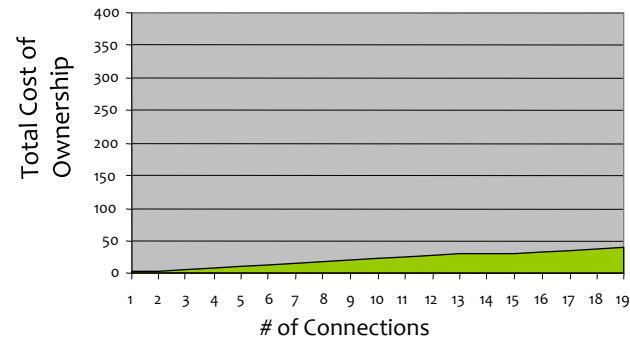
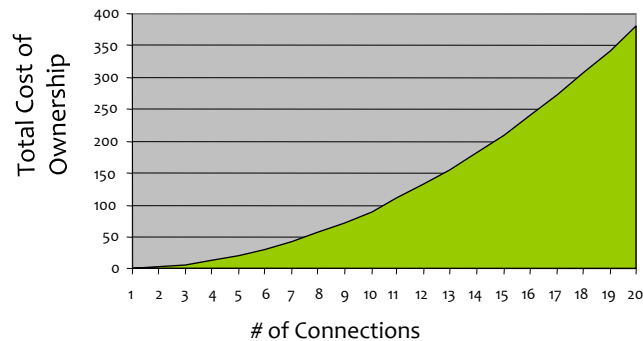
Single Version of the Truth



<many to many> growth

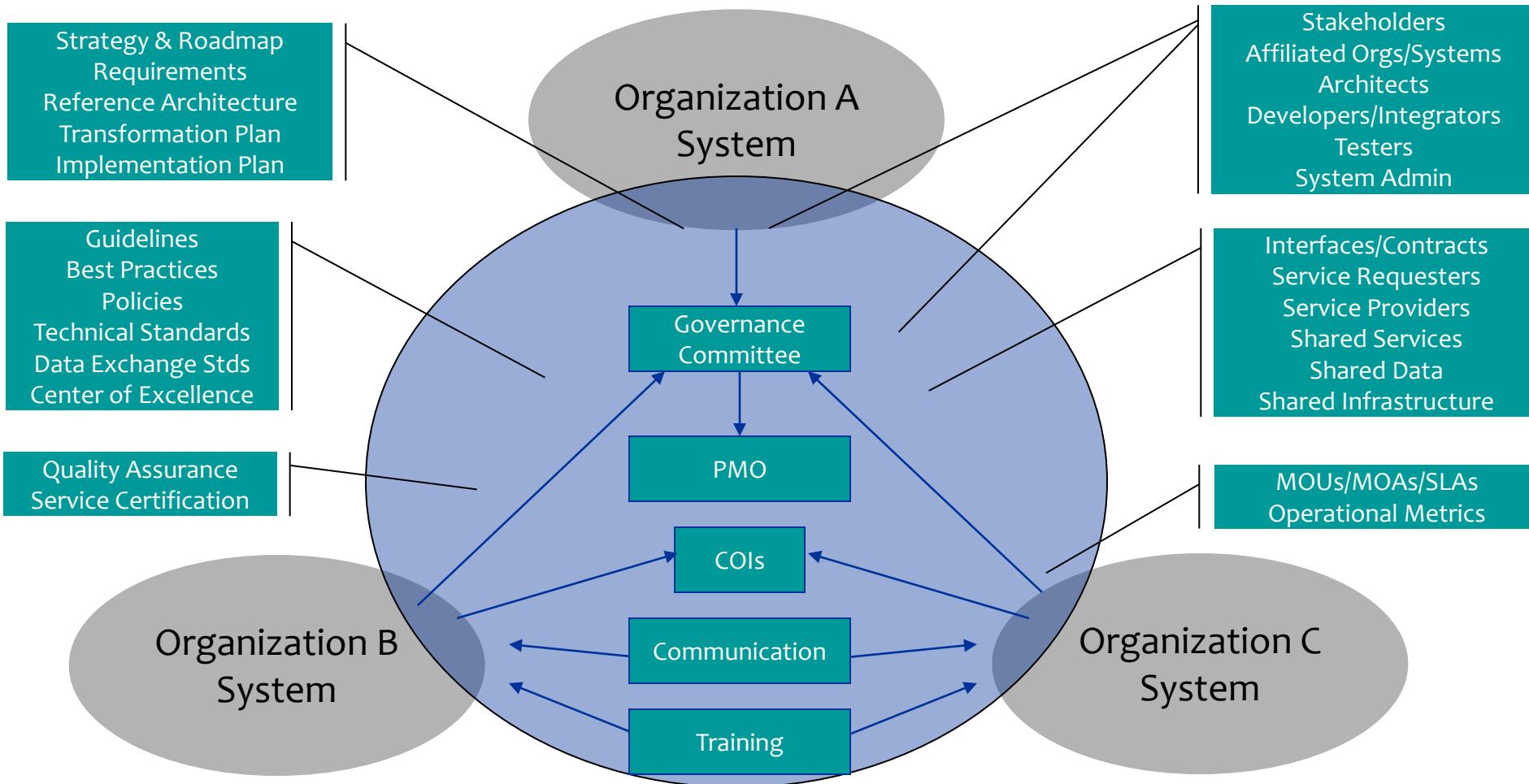


<many to one> growth



... results in lower total cost of ownership

SOA is collaborative



***Governance can encompass all aspects.
However, the actual scope depends on the organization.***

The SOA Team

- Typically 5-10 people
- Cross-functional
 - -- QA, Programmers, UI Designers, etc.
- Members should be full-time
- -- May be exceptions (e.g., System Admin, etc.)
- Teams are self-organizing
 - -- Ideally, no titles but rarely a possibility
- Membership can change only between iterations



**baby
steps**



step one
get into the
flow

time-boxed **rhythm**
of high-quality
value delivery



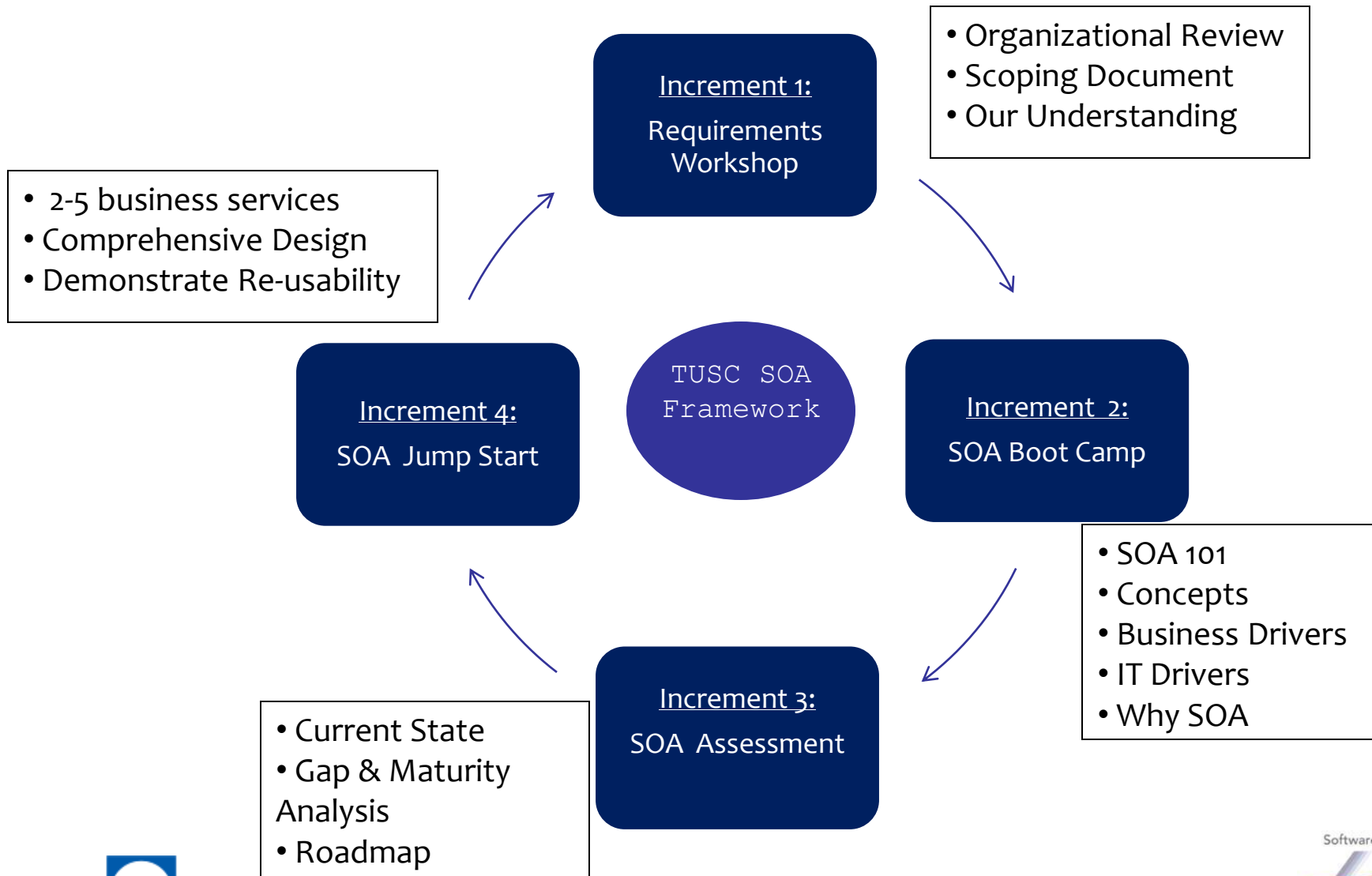
achieve a
sustainable
pace



command and **control**



Not Difficult to get started



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