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PA Consulting
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Using EA to build Business Compliant Engineering Capability

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Overview

Introduction

The Enterprise Bit

- Business goals

The Architecture Bit

- Blueprint development
- As Is -> To Be planning

The BAU Operational bit

- Continuous improvement

Conclusions

At a glance

Atkins is one of the world's leading engineering and design consultancies.


We have the depth and breadth of expertise to respond to the most technically challenging and time-critical infrastructure projects and the urgent transition to a low carbon economy.



London 2012 Games

Olympic Park

ATKINS



Multidisciplinary engineering infrastructure design, project
managing enabling works,
site clearance and remediation,
environmental impact assessment

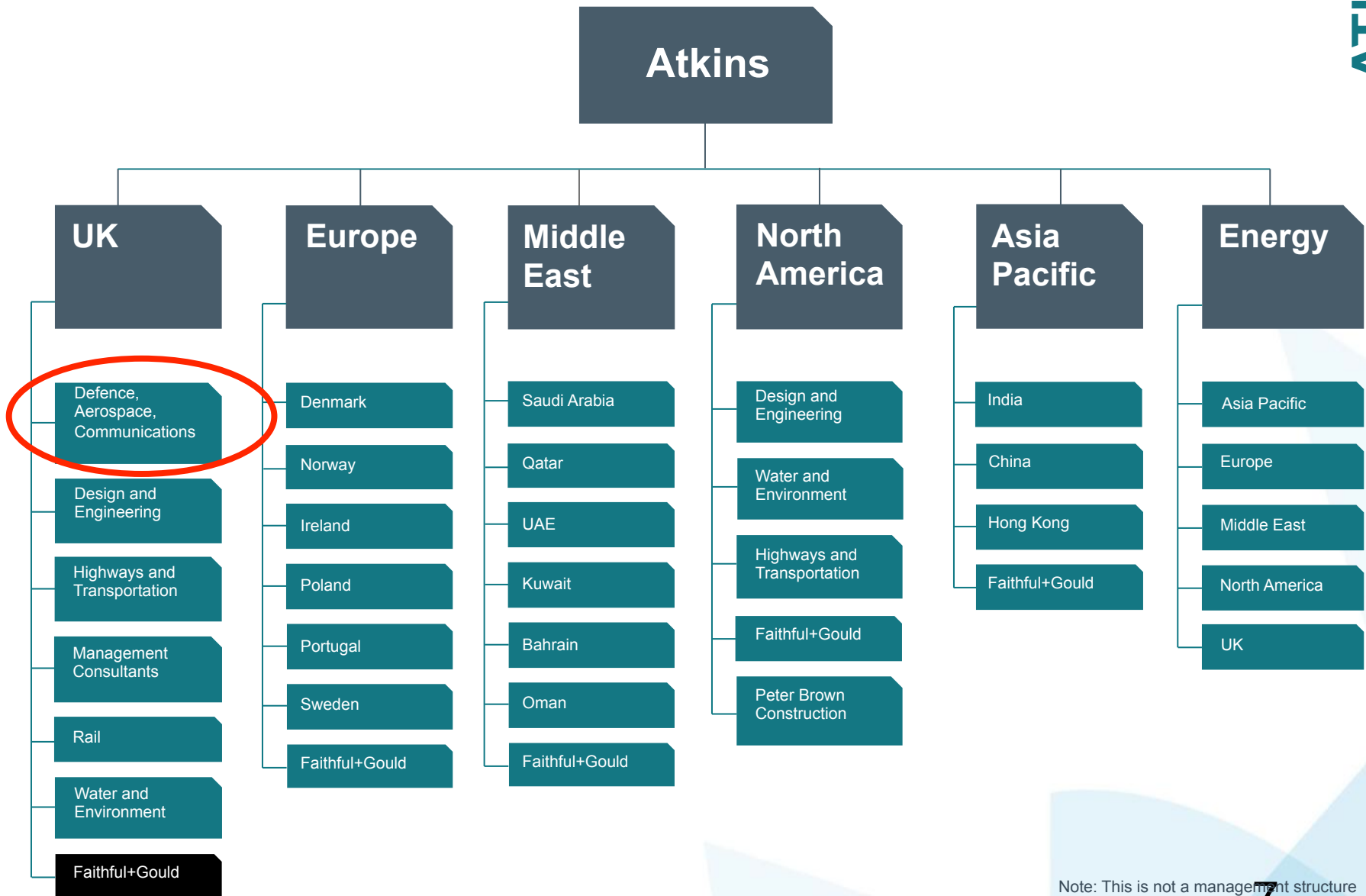
Burj Al Arab

United Arab Emirates

ATKINS

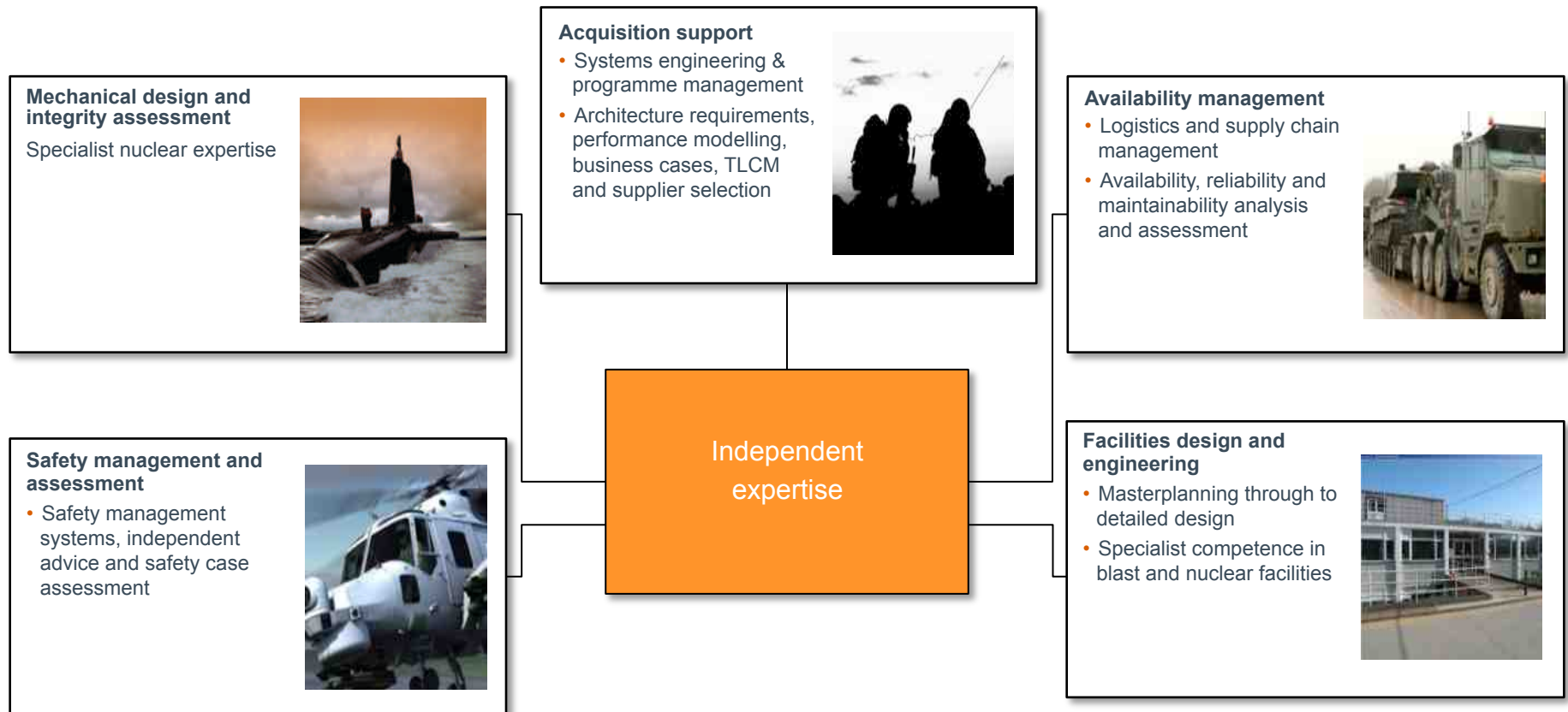
Architecture,
civil and structural engineering,
MEP engineering,
cost consultancy

Our businesses worldwide



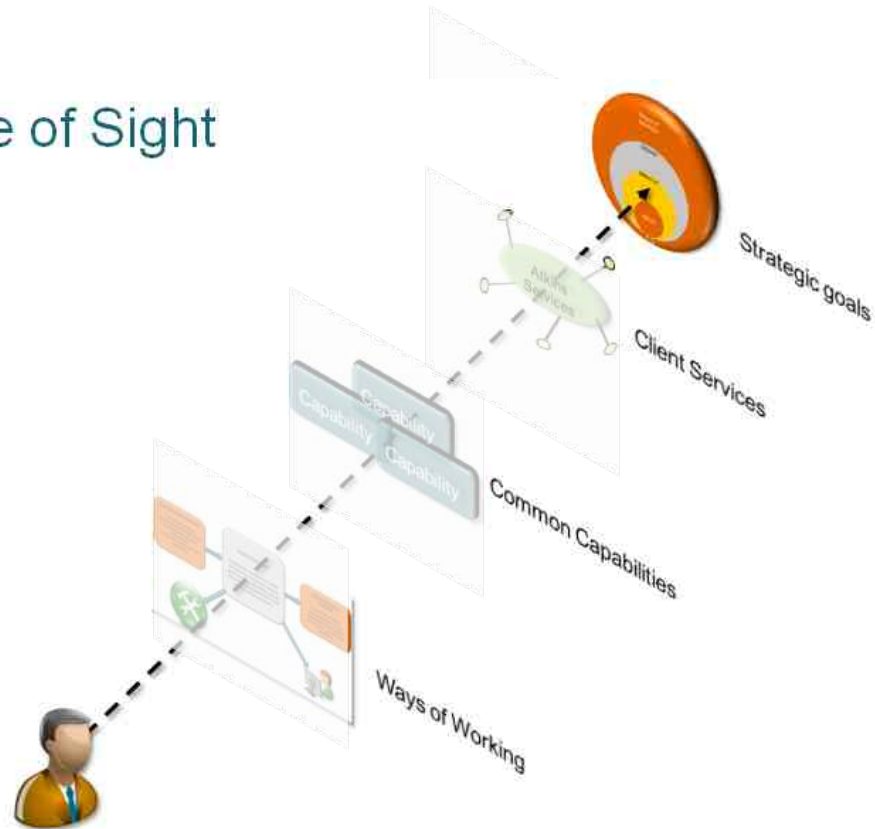
Defence

We deliver complex, high technology and mission critical programmes across the military capability space



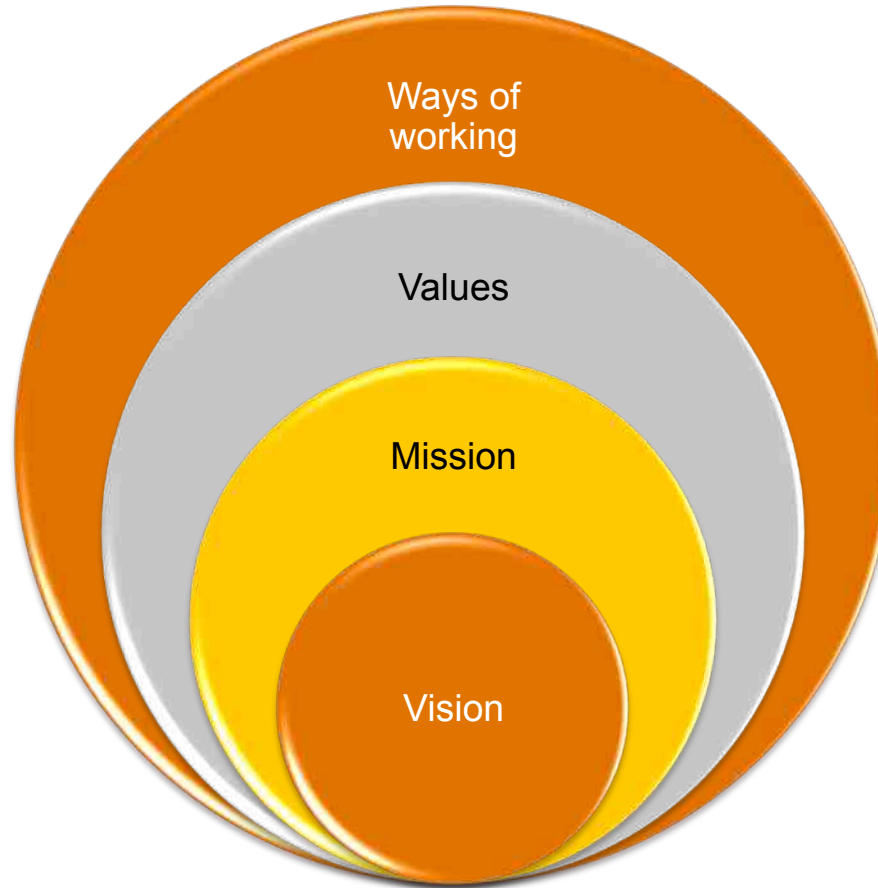
We work across all lifecycle stages of a platform, system or facility

Line of Sight

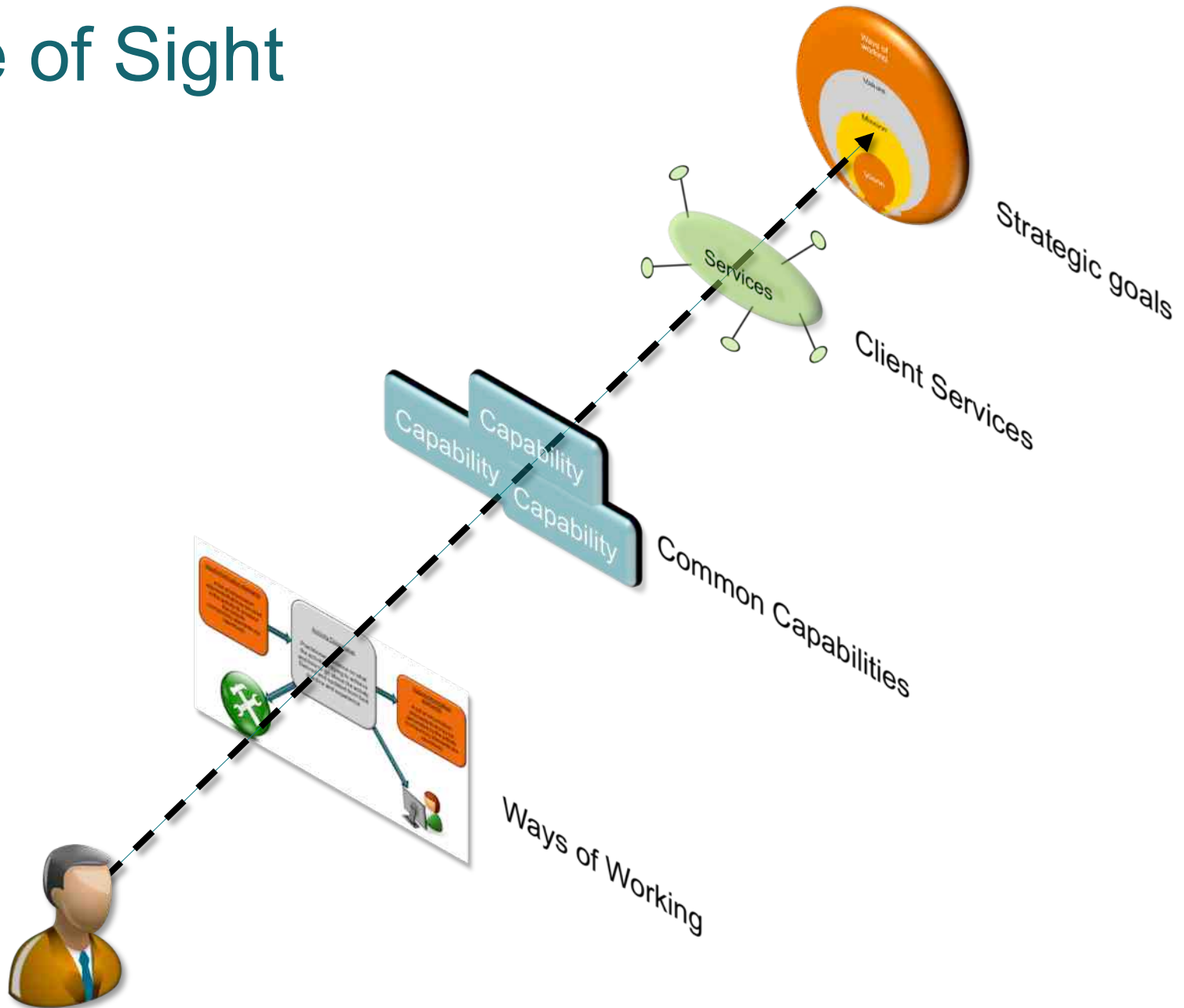


STRATEGIC GOALS

Business Strategy



Line of Sight



Typical Programme Vision



To develop a reputation for excellence in technical capability, enabling the business to achieve its goals through the successful delivery of technical outcomes and provide support to the maturity of client technical capability.

Potentially delivered by:

- Work to established processes, information and governance frameworks for engineering that are complimentary with other business capabilities
- Have a clear career and reward path with professional routes and standards leading to chartership
- Deliver the highest technical standards to our clients and promote best practice
- Continuously improve our technical capability

ACHIEVING THE VISION

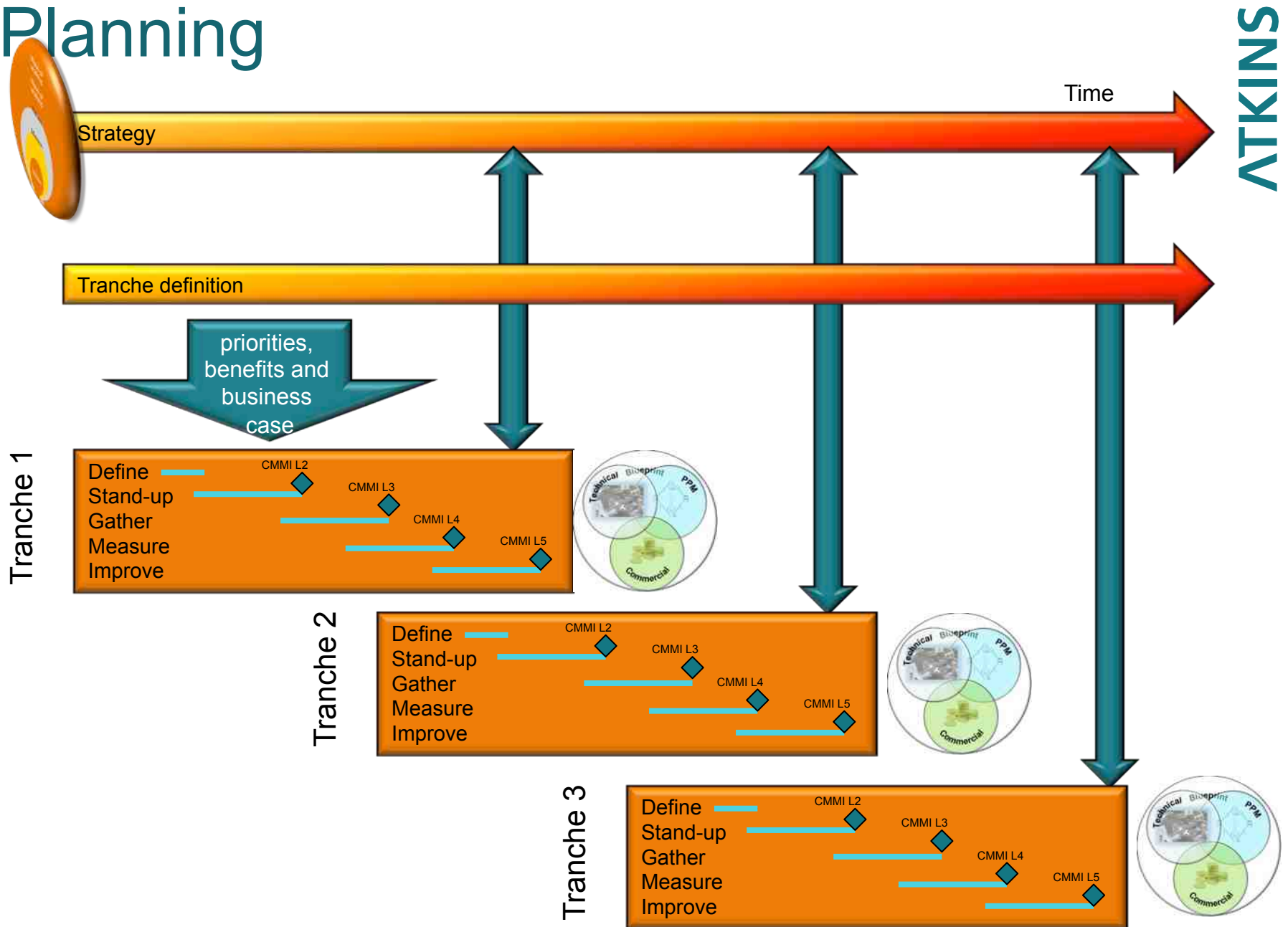
Approach to Capability Maturity



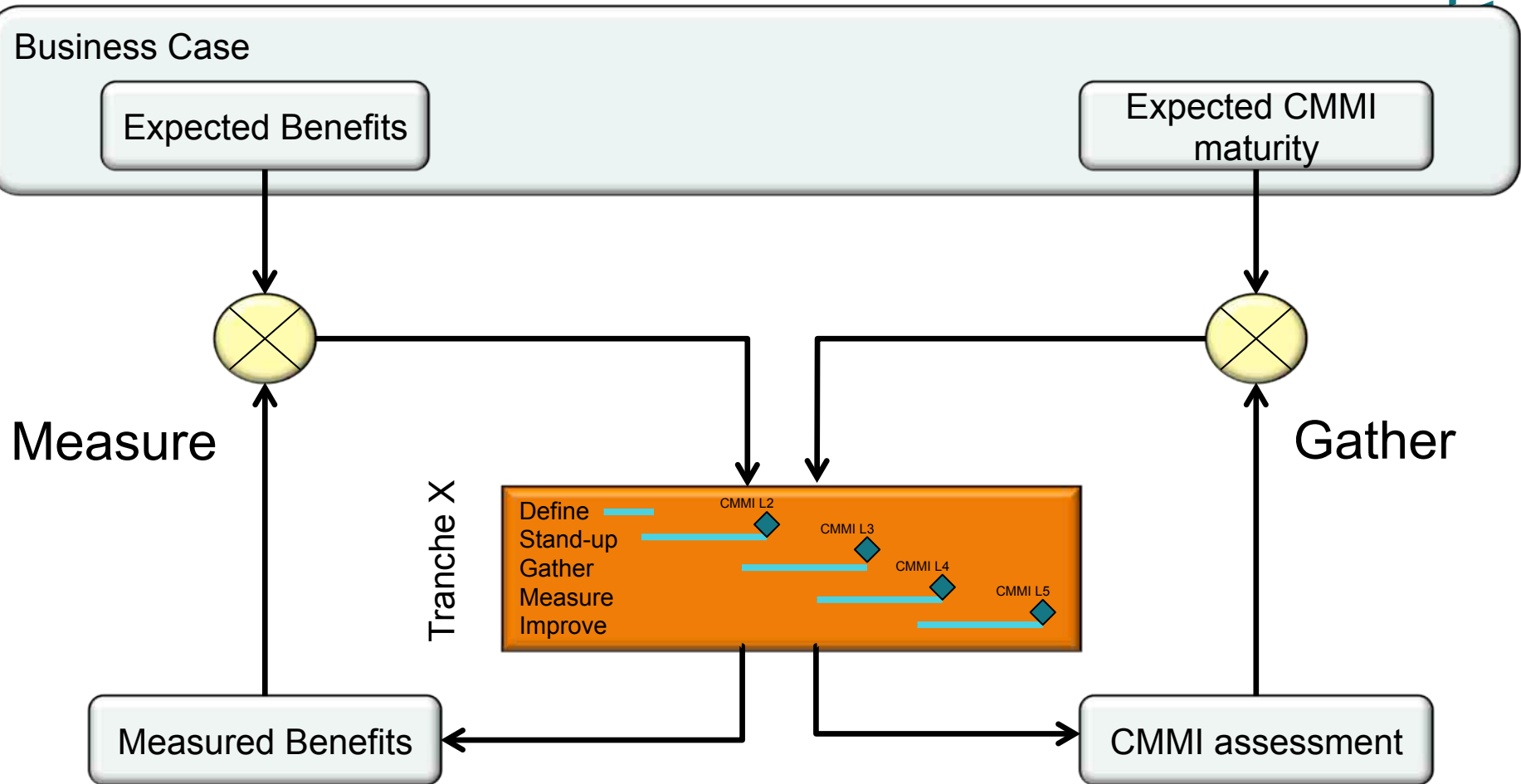
Characteristics of the Maturity levels



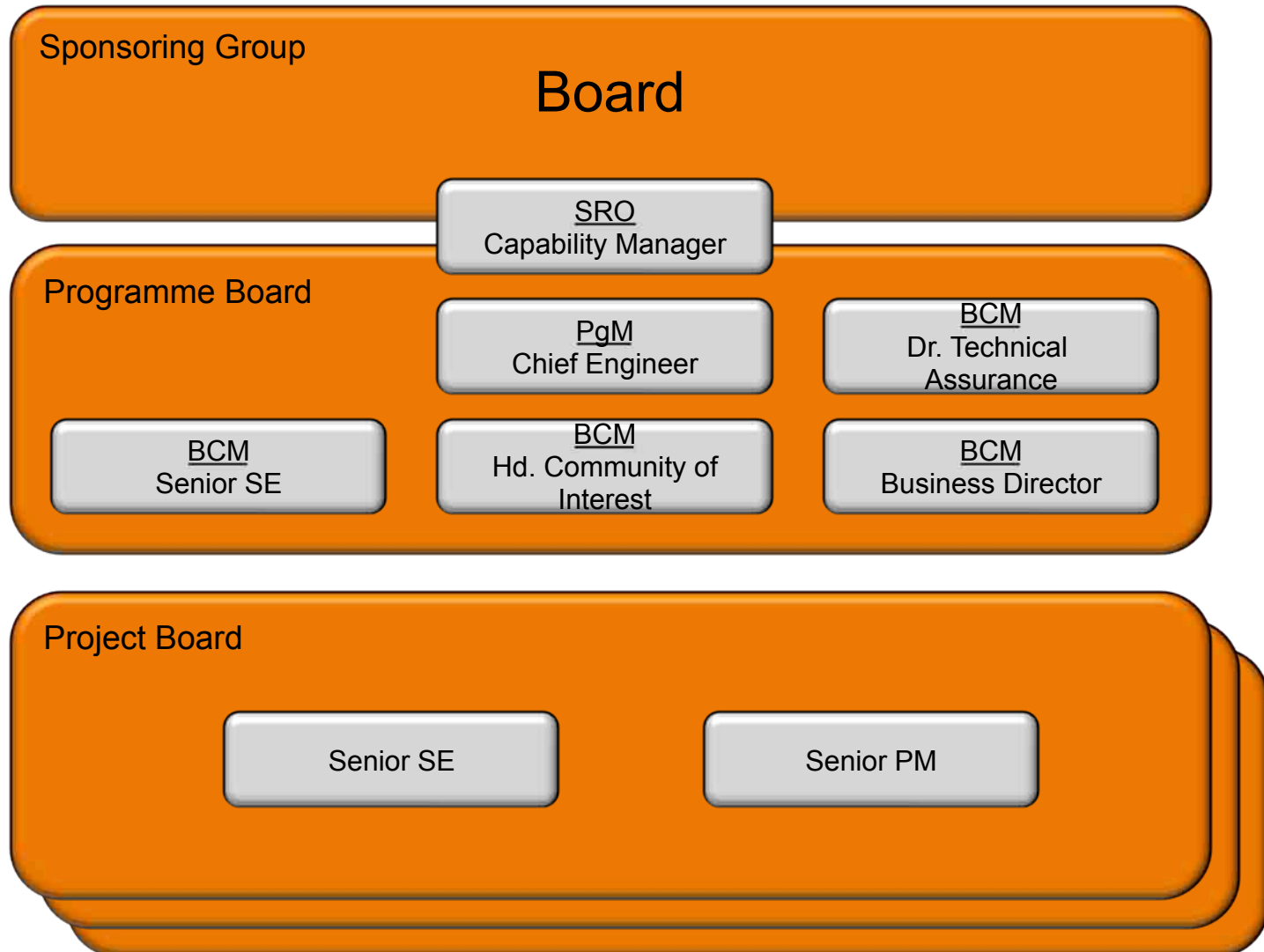
Planning



Programme Control



Organisation



Expected Benefits

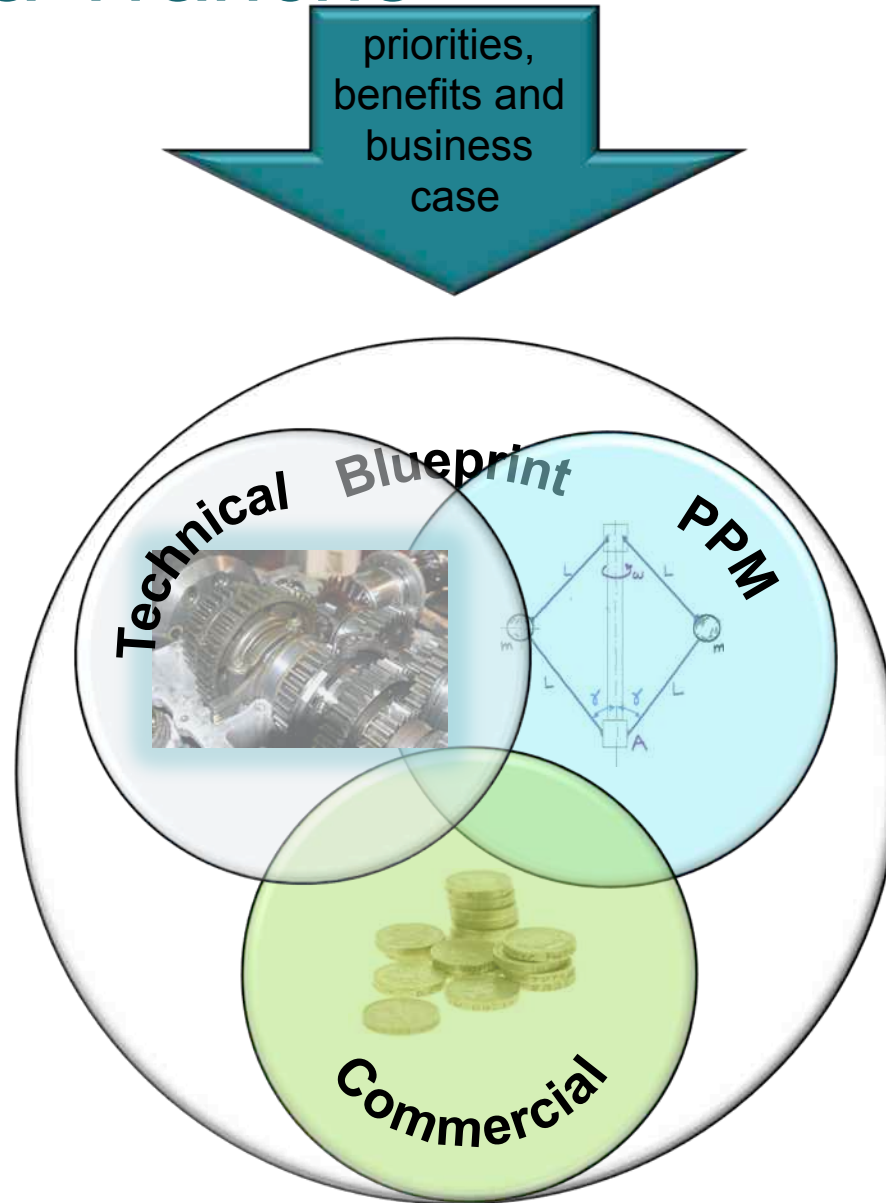
Client

- Efficiency – common patterns reduce planning time and maintain high quality. Right first time
- Effectiveness – improvement in clients' business operations
- Agility – quicker to respond to new tasks or task changes

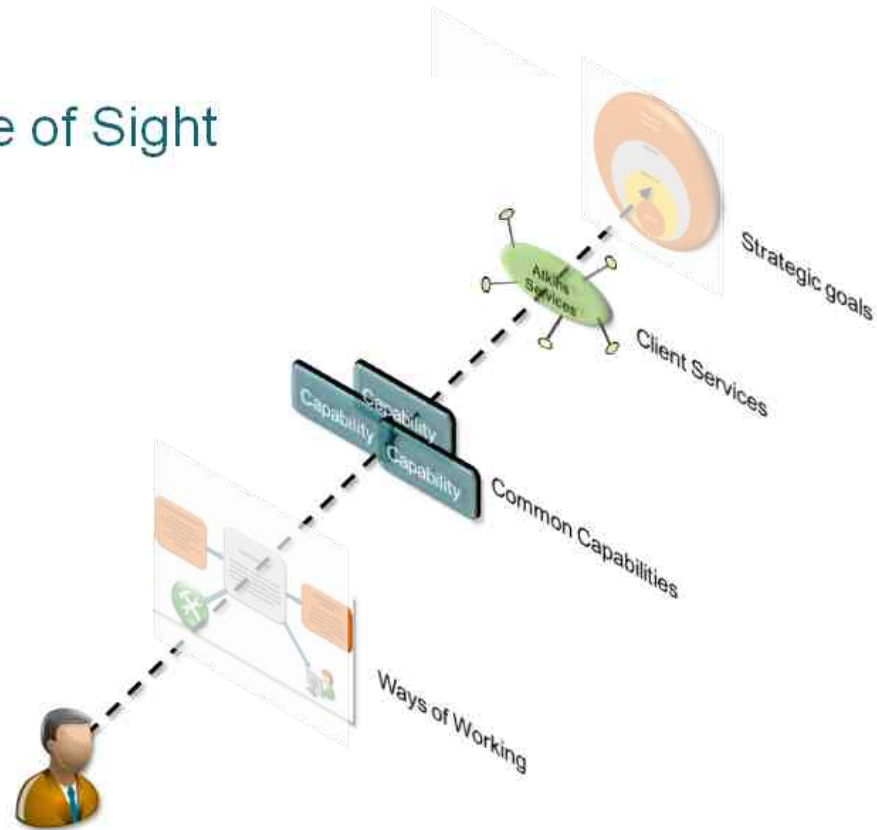
Own Business

- Improved capability to deliver more complex, high value services
- Increased resource utilisation (Work force mobility)
- Coherence - integration of specialist “disciplines”
- Staff progression, motivation, retention
- Continuity (succession planning and key resource loss risk)
- Reputation improved

Defining a Tranche

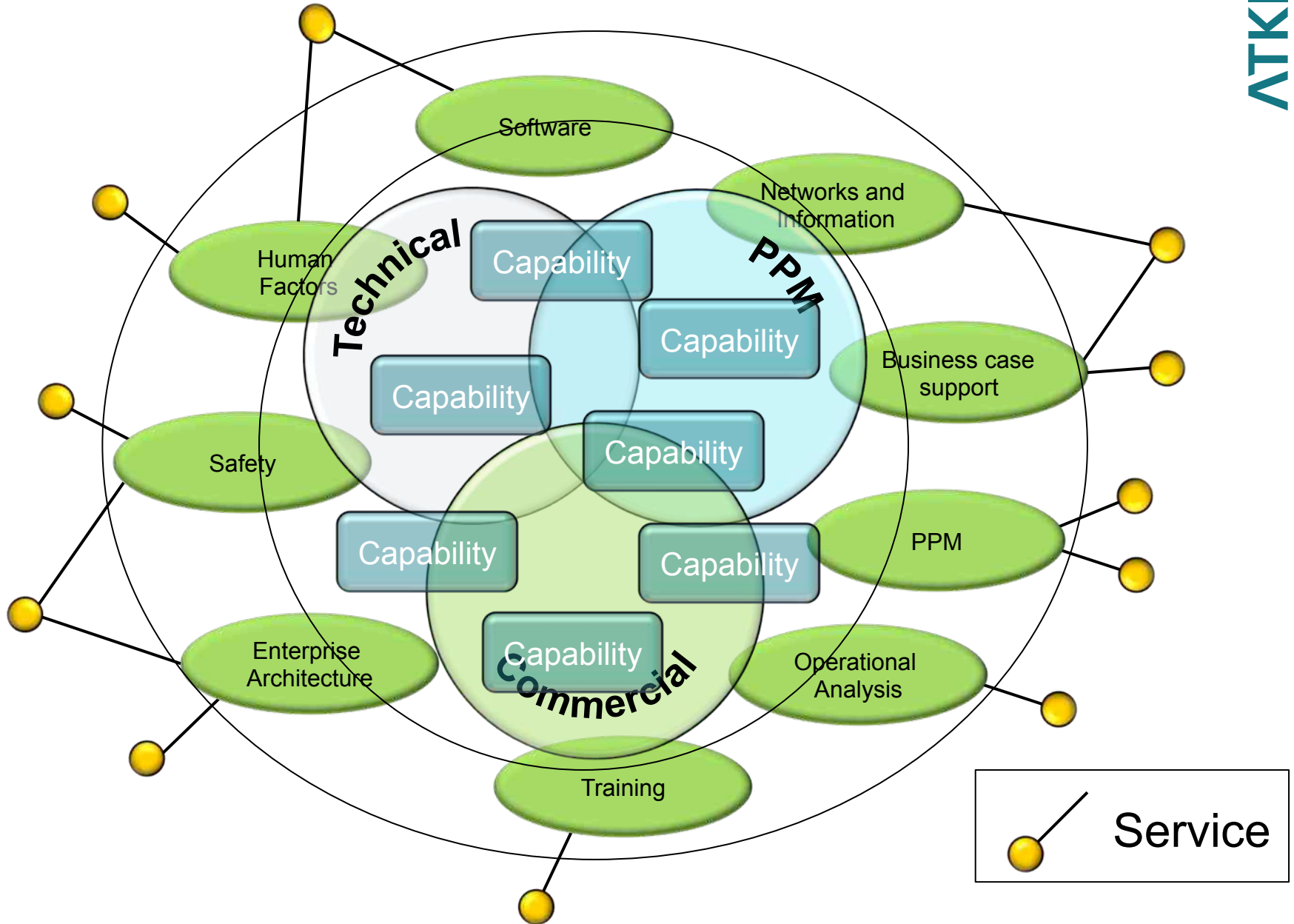


Line of Sight



SERVICES & CAPABILITIES

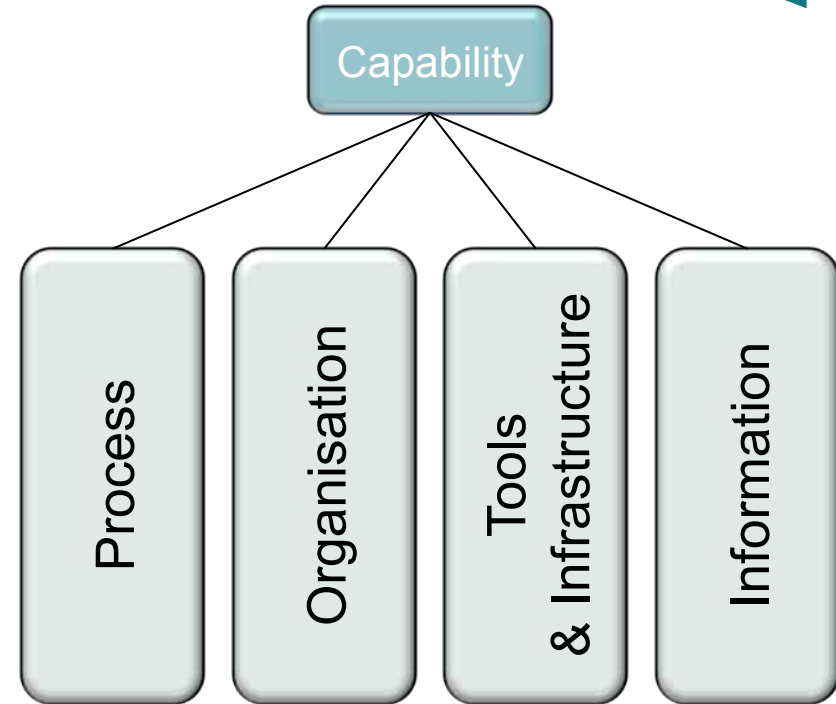
Services



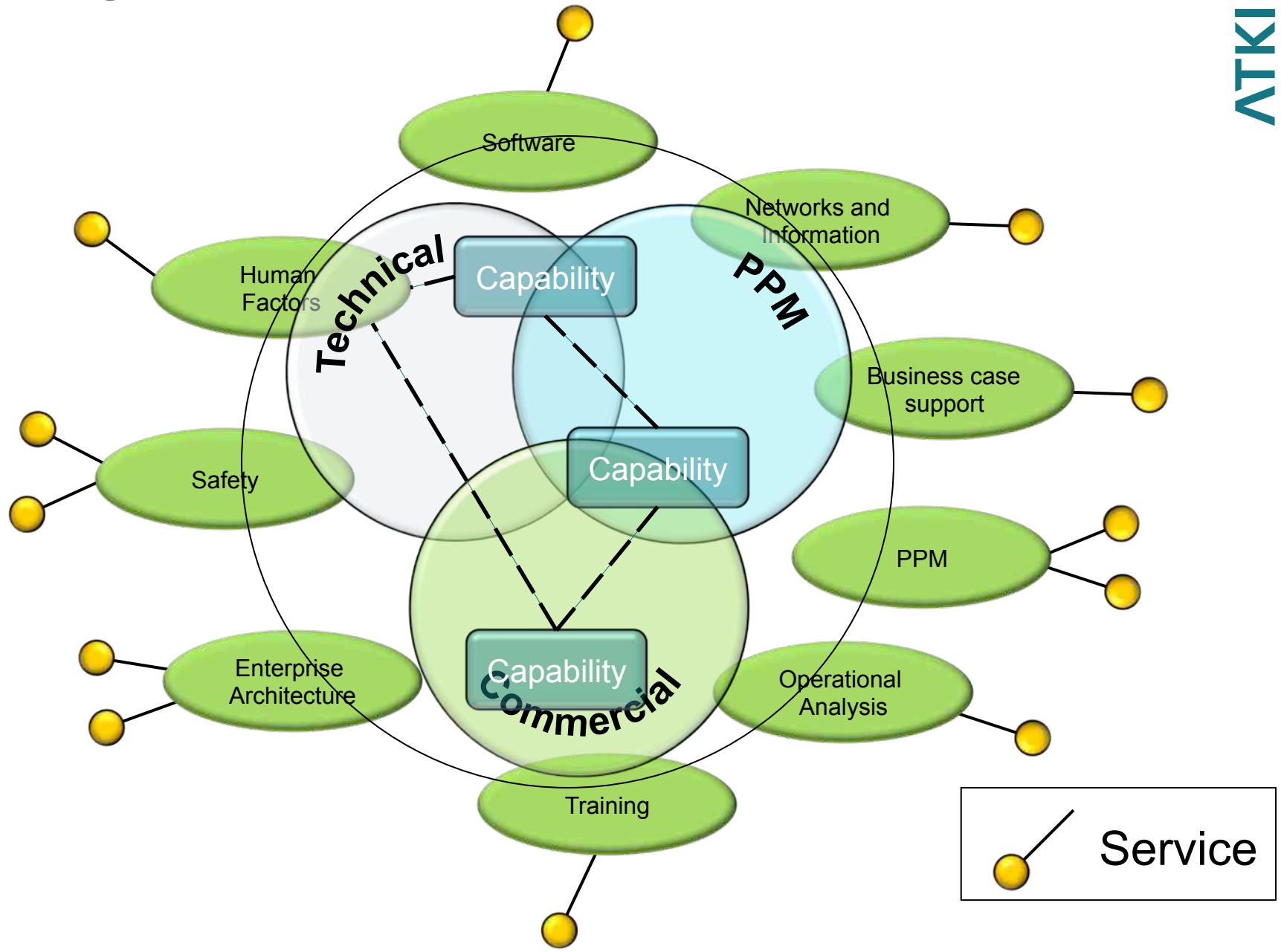
Capability “patterns”

Capability patterns can be selected and tailored by providers of the service depending on the nature of the service and clients’ specific requirements (e.g. for specific information terminology)

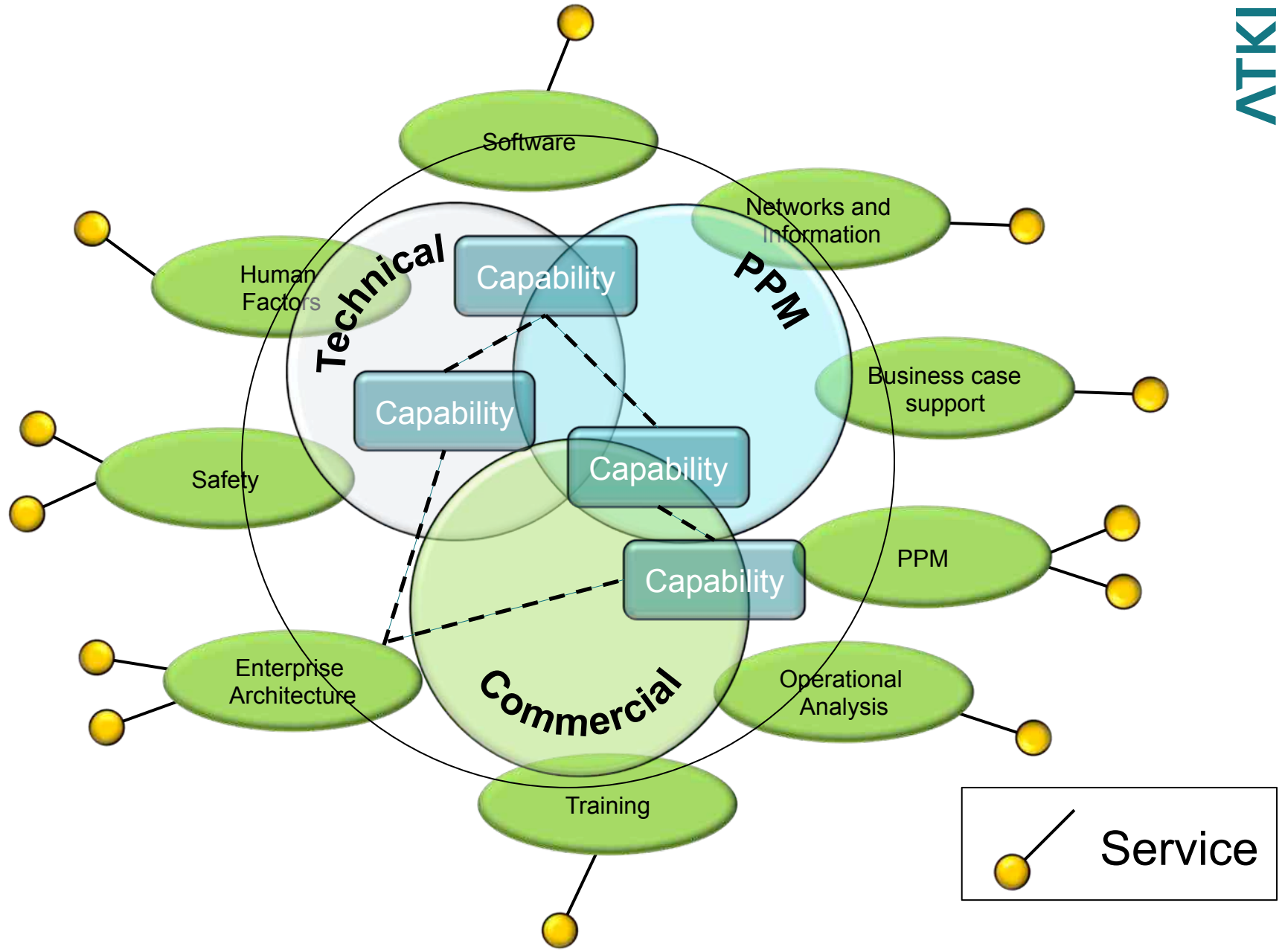
Each capability has the MSP component structure of P O T I



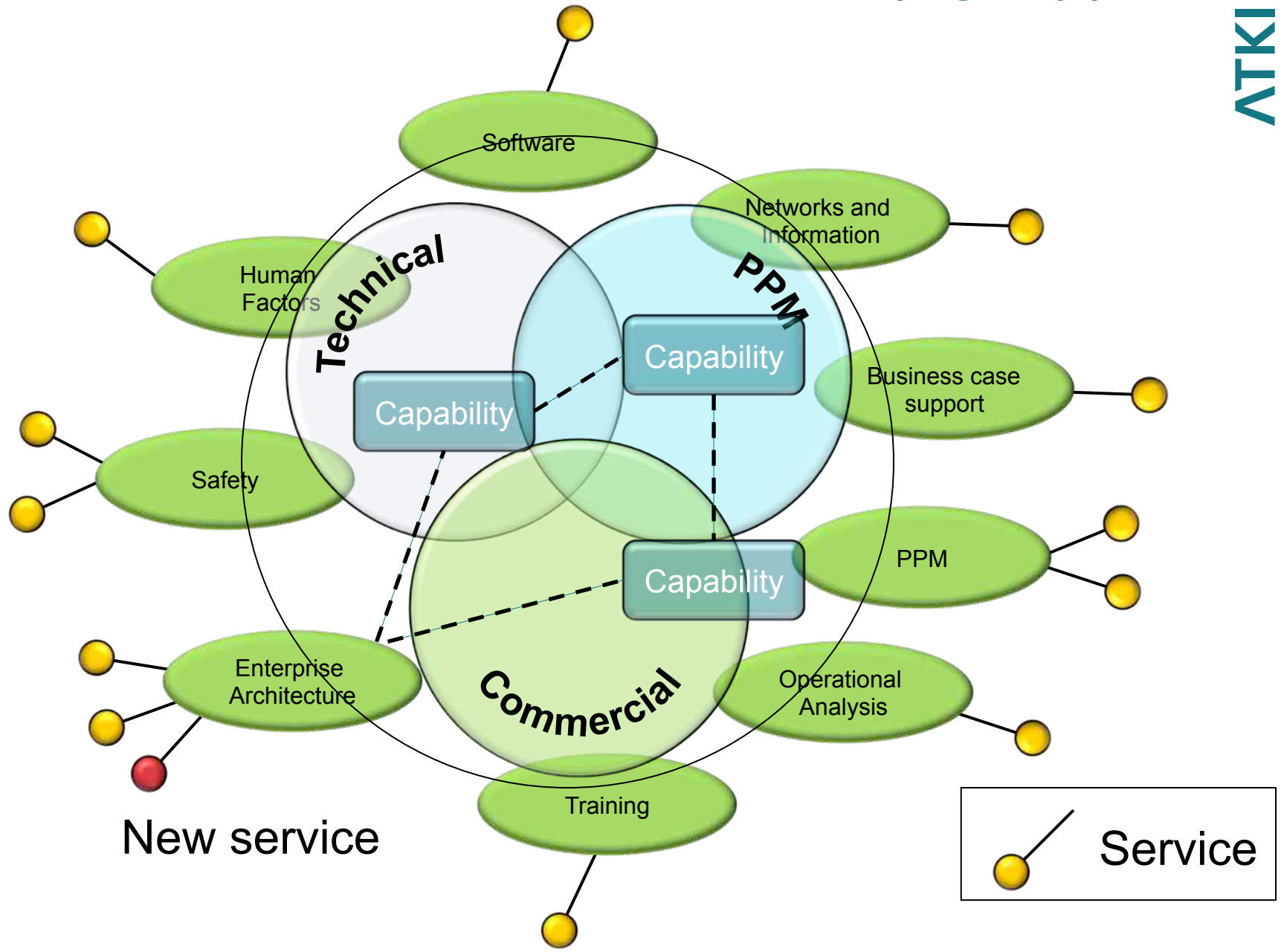
Using Capabilities to deliver a service



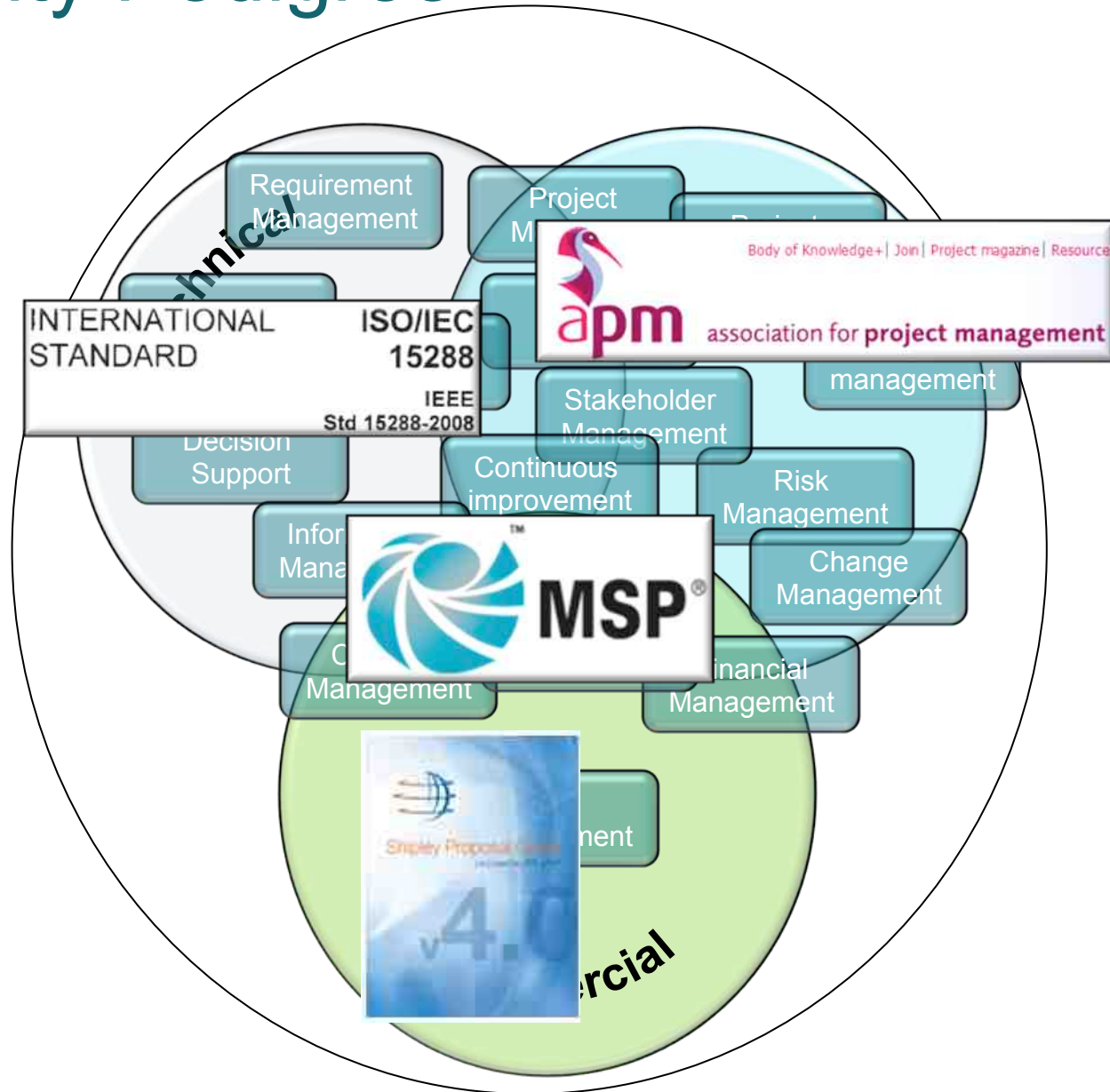
The same core capabilities are used



Even to define a new service (agility)

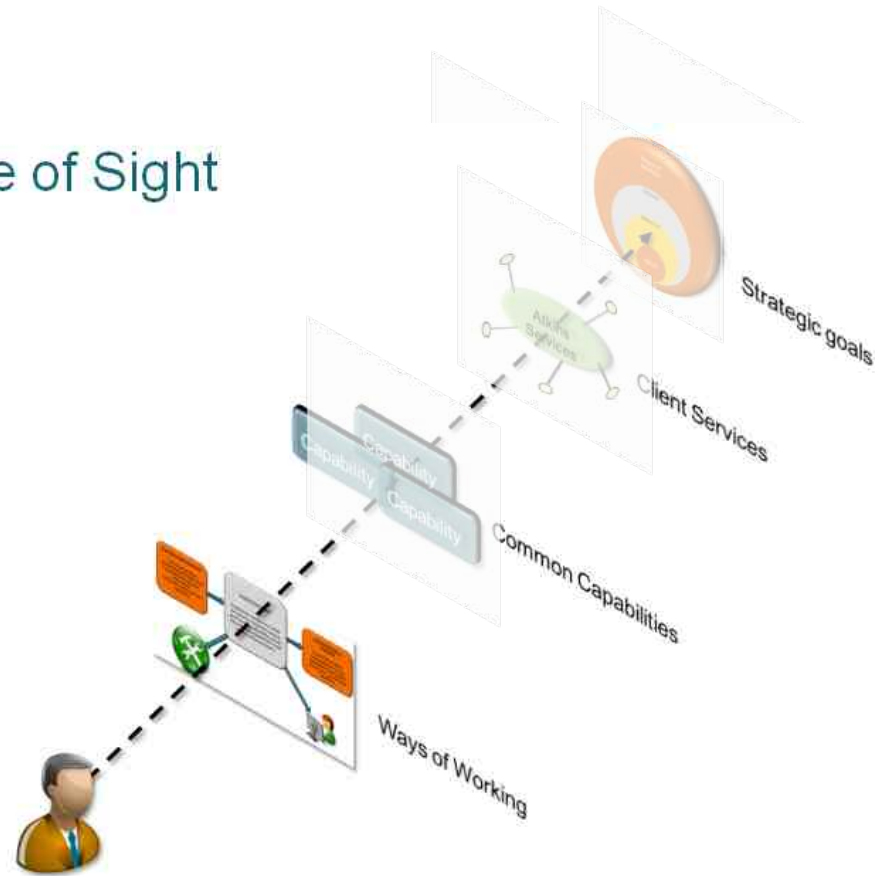


Capability Pedigree



For illustration only

Line of Sight



BLUEPRINT ARCHITECTURE

Blueprint

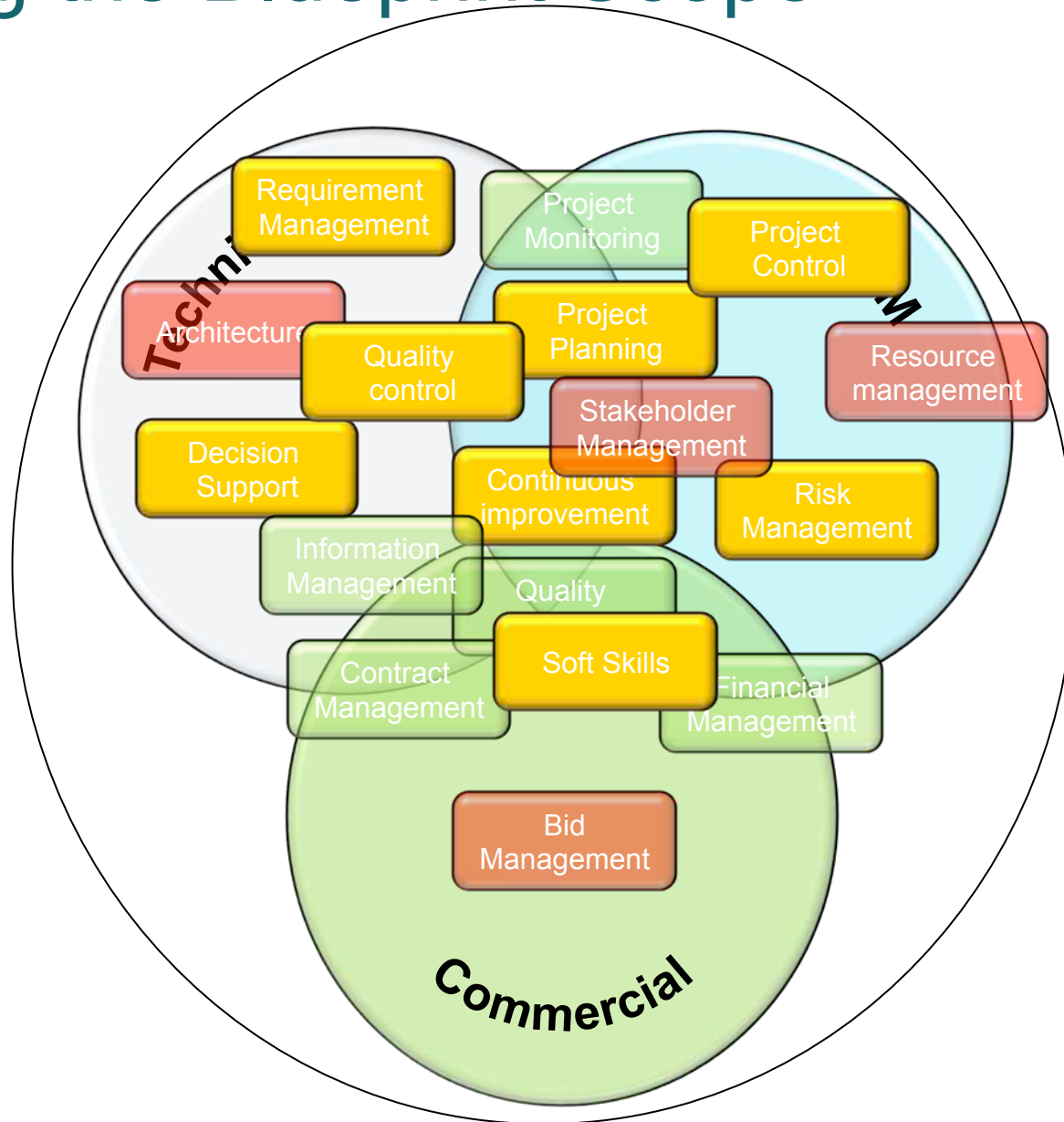


The Blueprint defines “to be” organisation **Capability** in detail

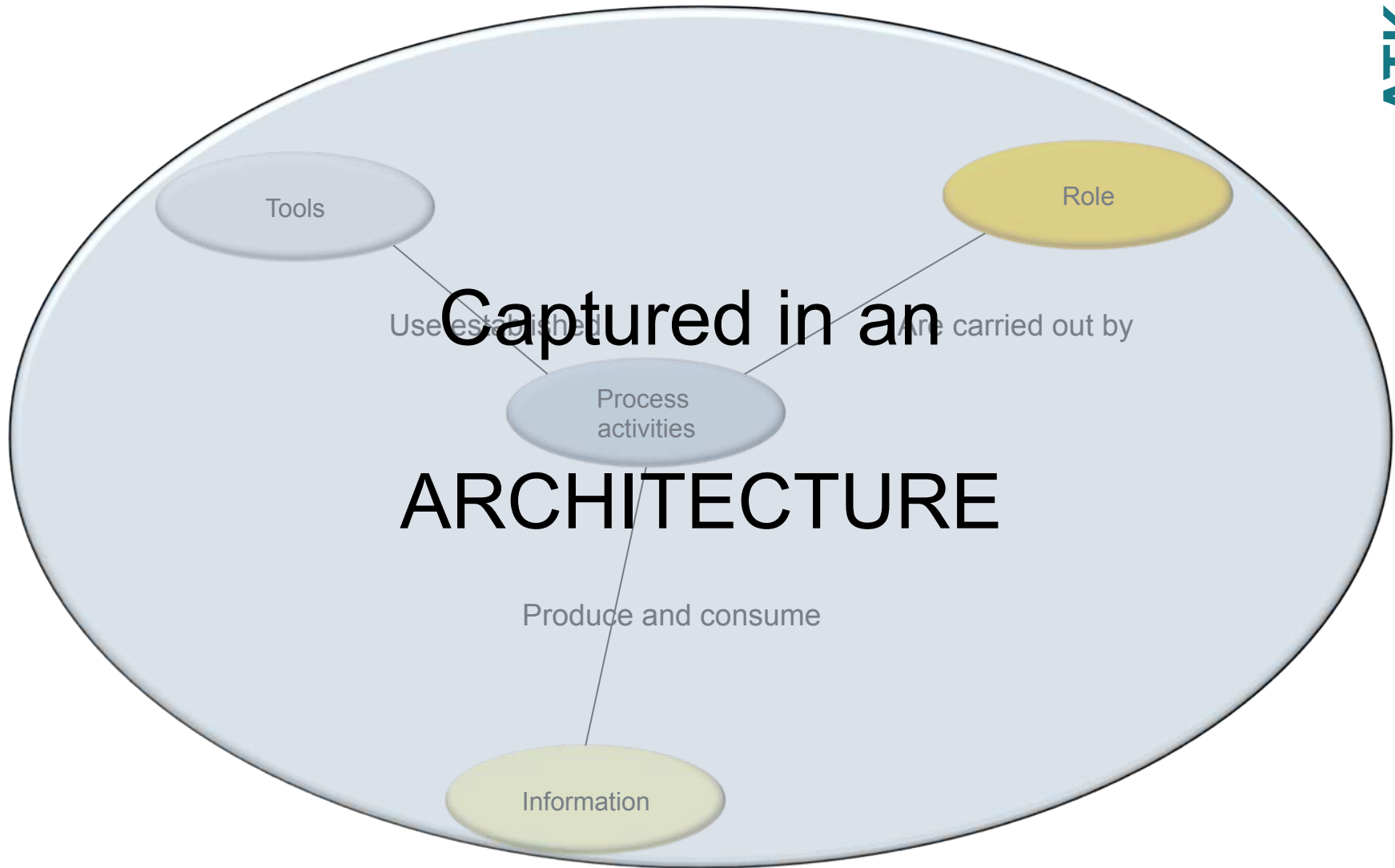
The Blueprint is used to assure that the To Be organisation will support the business goals

The Blueprint is used to develop the plan to mature the organisation from As Is to the desired state

Defining the Blueprint Scope



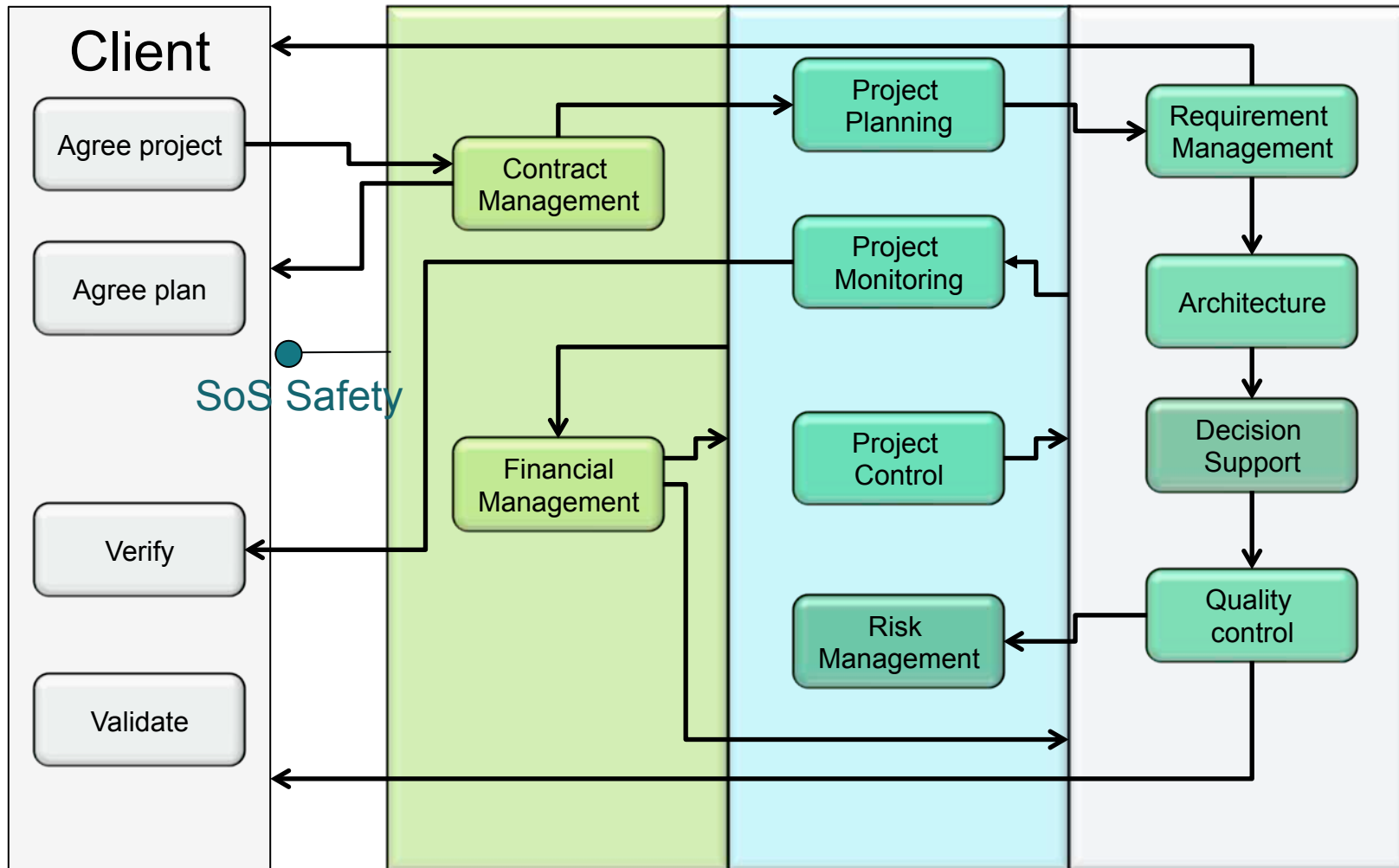
Blueprint capability components



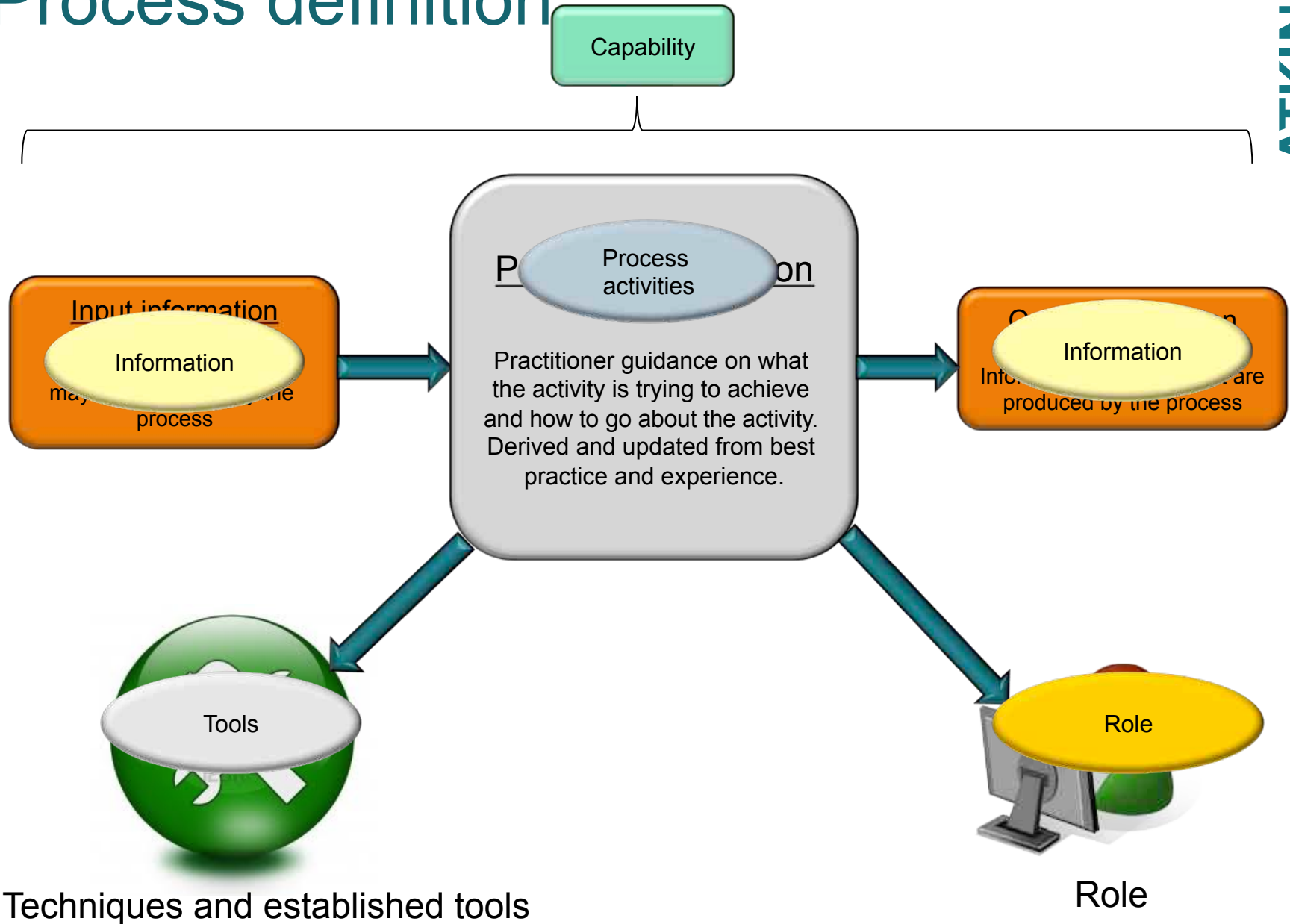
ATKINS



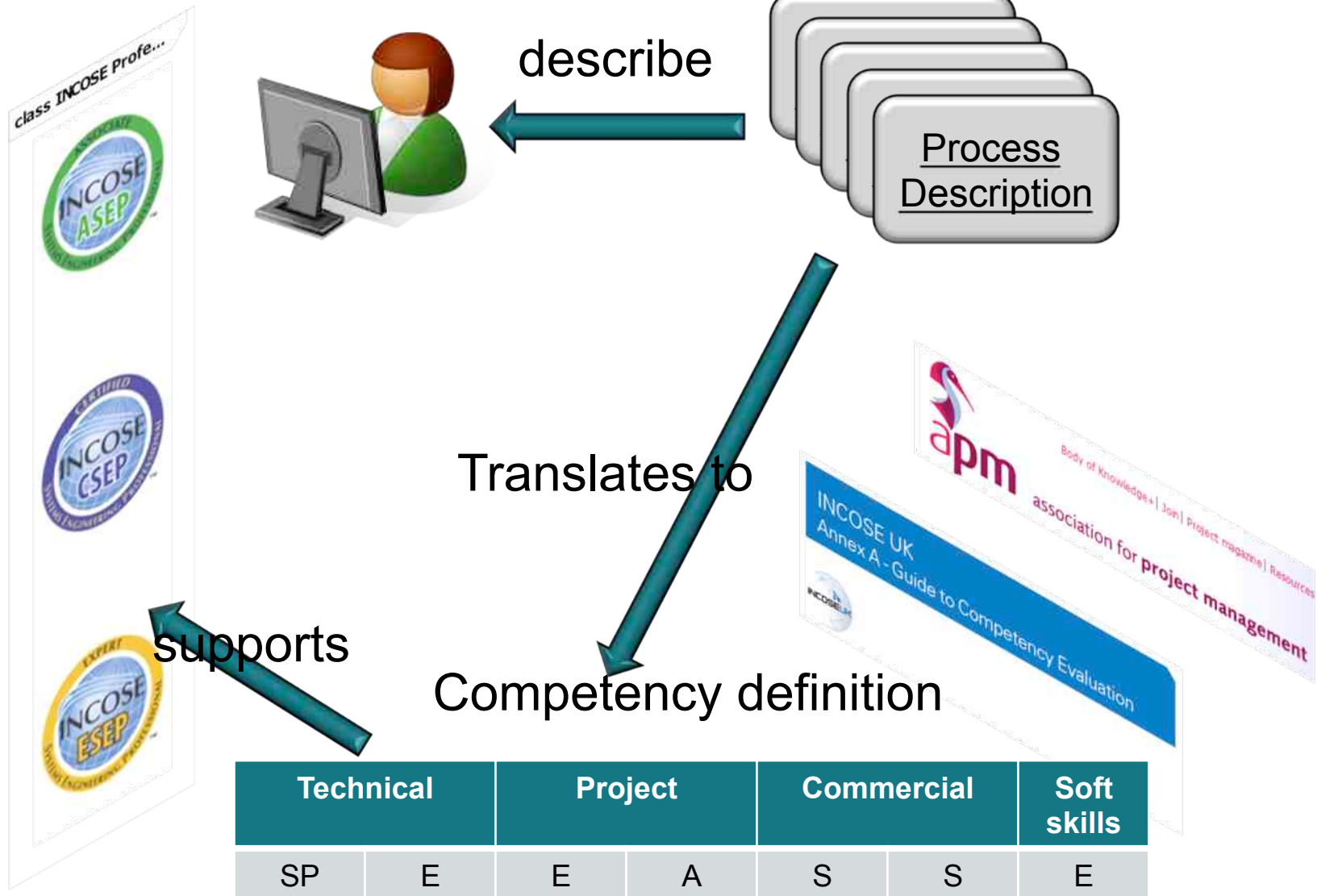
Discovering Capabilities



Process definition



Organisation definition



Tools & infrastructure definition

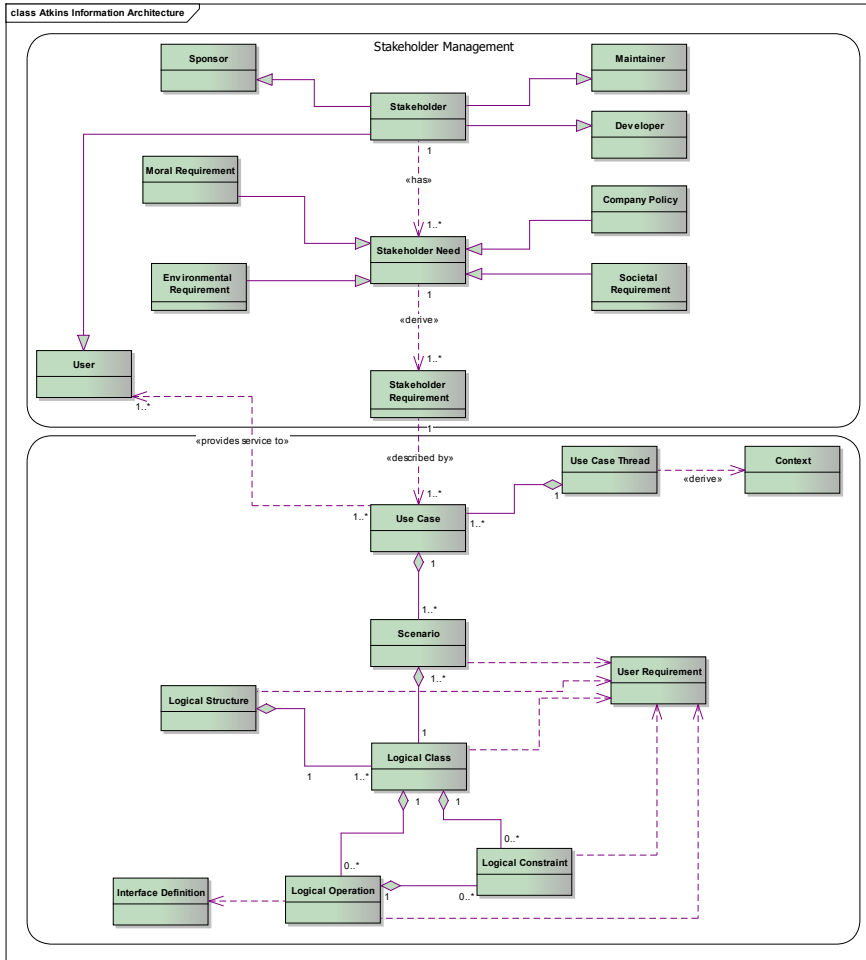


Define requirements for



Information definition

Context Standard



Content Standard

Meta data

Description
Context
Purpose

Index

An index to a federated repository of managed information elements.

Tags

Discovery and categorisation

Rules

Quality rules for the information element

TRANSITION PLAN

AS-IS -> TO BE

Programme plan

Process

- Publish
- Establish process management

Organisation

- Integrate with Resource Management processes
- Define internal and external training
- Establish professional routes

Tools and Techniques

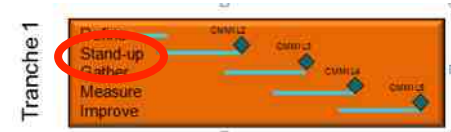
- Tool requirements & priorities
- Establish tools and communities of interest

Information

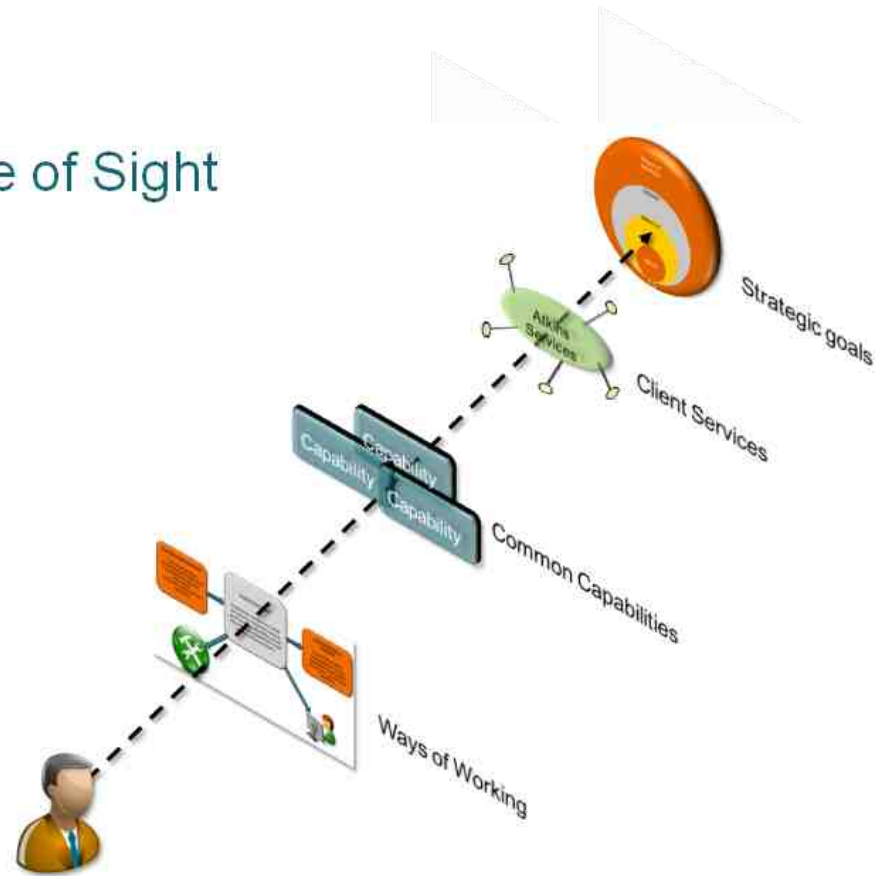
- Build the knowledge base
- Establish information management

Promote and communicate

- Workshops
- Sharepoint



Line of Sight

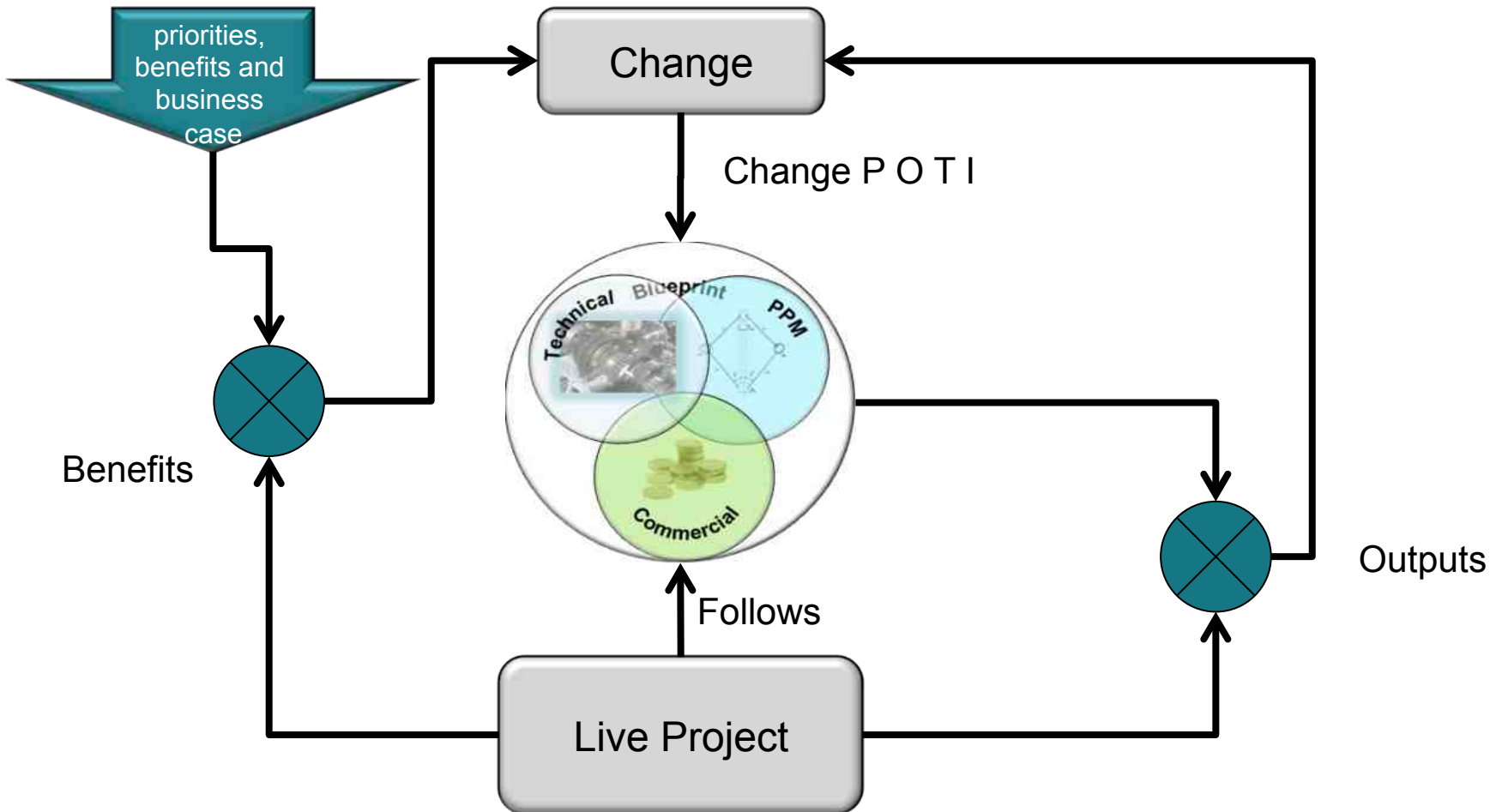


OPERATIONS

What happens to the Blueprint?



ATK



CONCLUSIONS

Conclusions

Coherent engineering capability delivering value to the client

Engineering capability supporting internal business goals

Engineering capability delivering high quality outcomes

Engineering capability under continuous improvement