

Defensie



# Enterprise Architecture for the Netherlands Department of Defence

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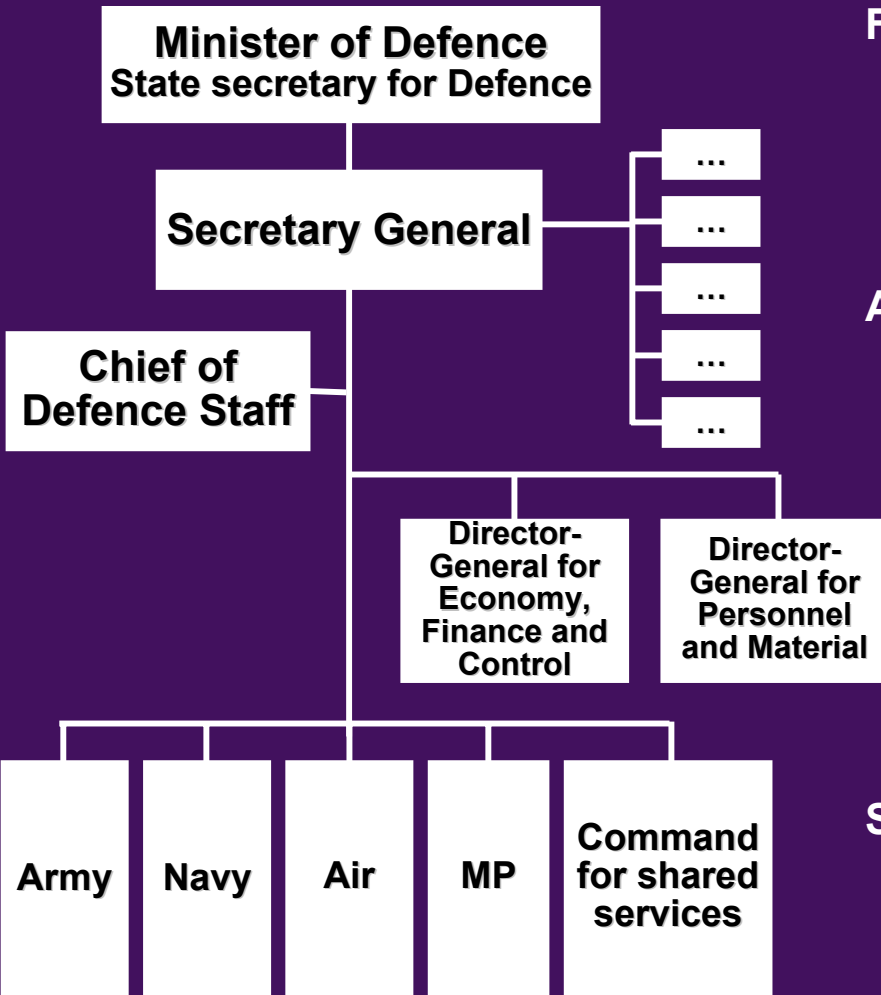
# Agenda

Background on the Department of Defence

The Enterprise Architecture

Lessons learned

# Context and current organization



## Facts

- 72.000 employees
- Joint & combined operations
- Multiple locations (NL and abroad)
- Multiple cultures

## Ambitious goals

- More international operations out of area
- Better deployability, interoperability
- More transparency, better accountability
- Further staff reduction (2006-60.000)
- Standardized processes and systems instead of “stovepipes” per force

## Situation

- Cost cutting is no longer an option
- ERP implementation planned

## Ambitions

Better deployment ratio with ICT improvement

From an supportive to an enabling information infrastructure

Business-driven ICT investments

Ambitious ERP project

Staff reduction: more efficiency



# We need an enterprise architecture!

First we should have a better and common vision on

- Ambitions
- Governance
- Consequences
- Risks

To reach ambitions

- We need another approach
- We focus on commonality, not on differences
- We restructure our information infrastructure to implement industry solutions (ERP)

# Foundations for the project DIVA

## Defence Information Vision and Architecture

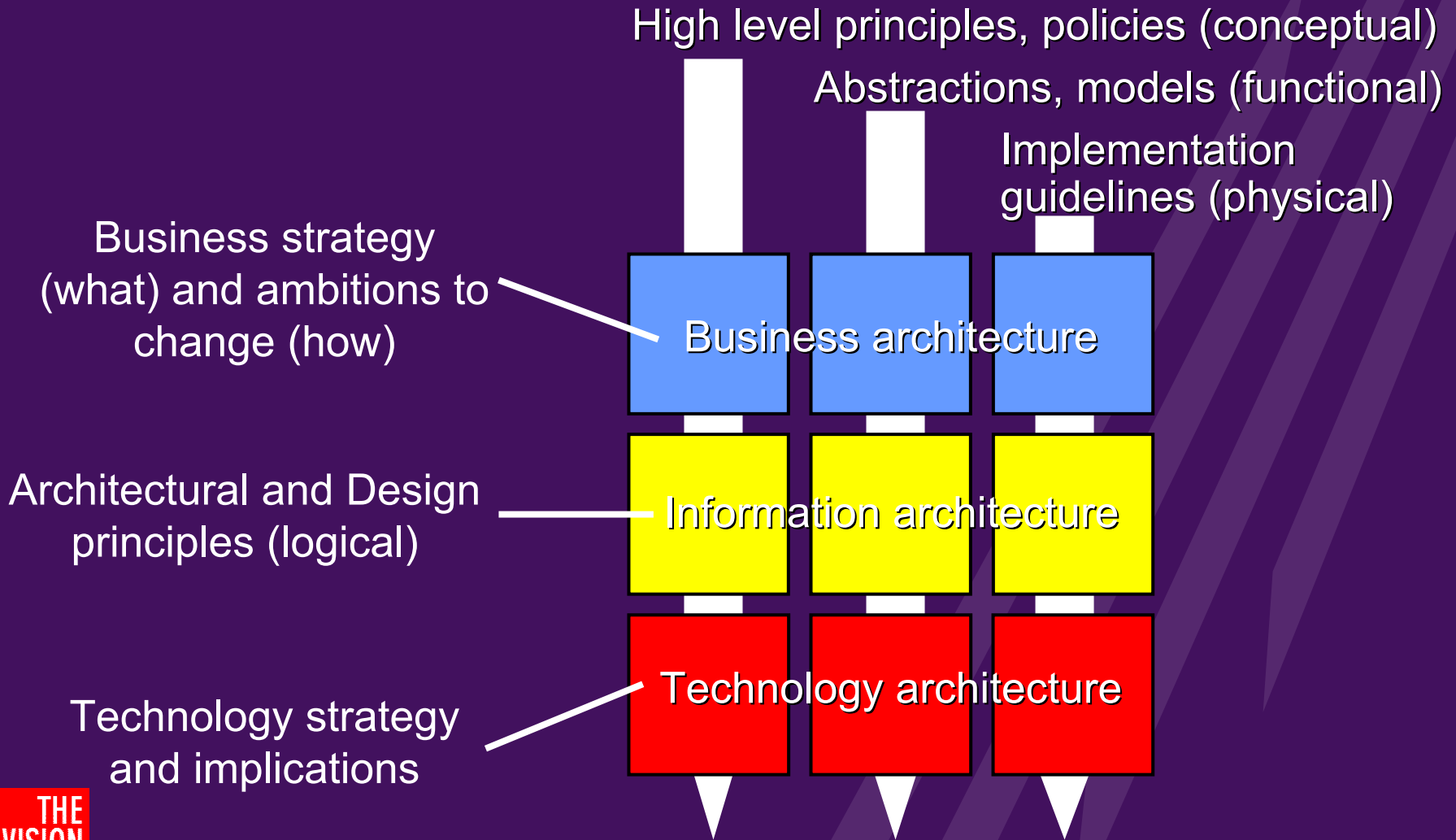
- As complicated as needed, but as simple as possible
- Stakeholders involvement
- Involve independent expertise
- Use fixed time boxes for the project
- Let business goals be leading

# Why should it be business-driven?

1. To demonstrate clearly that all efforts can be linked to the business strategy and the business drivers
2. To explain that the architectural goal is derived from the current and future defence environment

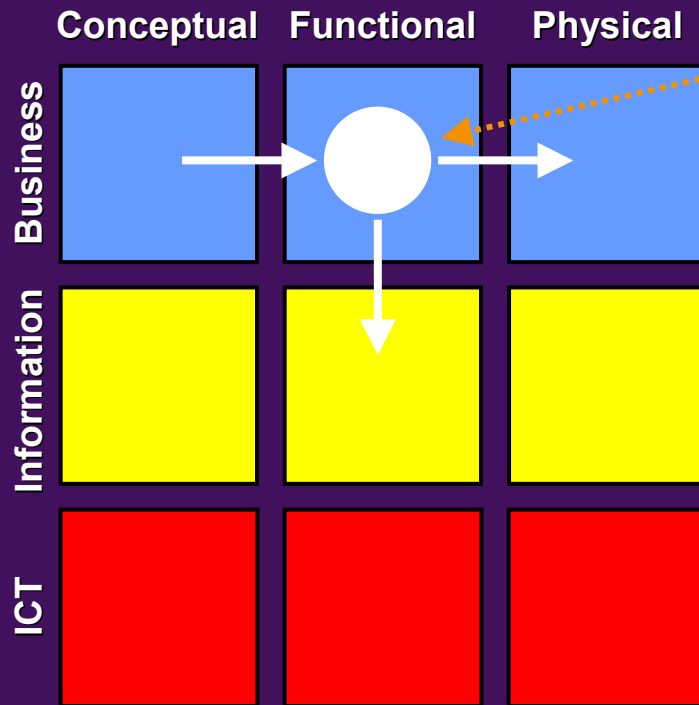
So that politicians, military and civil management and lines of business will understand what it is all about

# Simplicity: a nine field framework





# Business architecture: business process



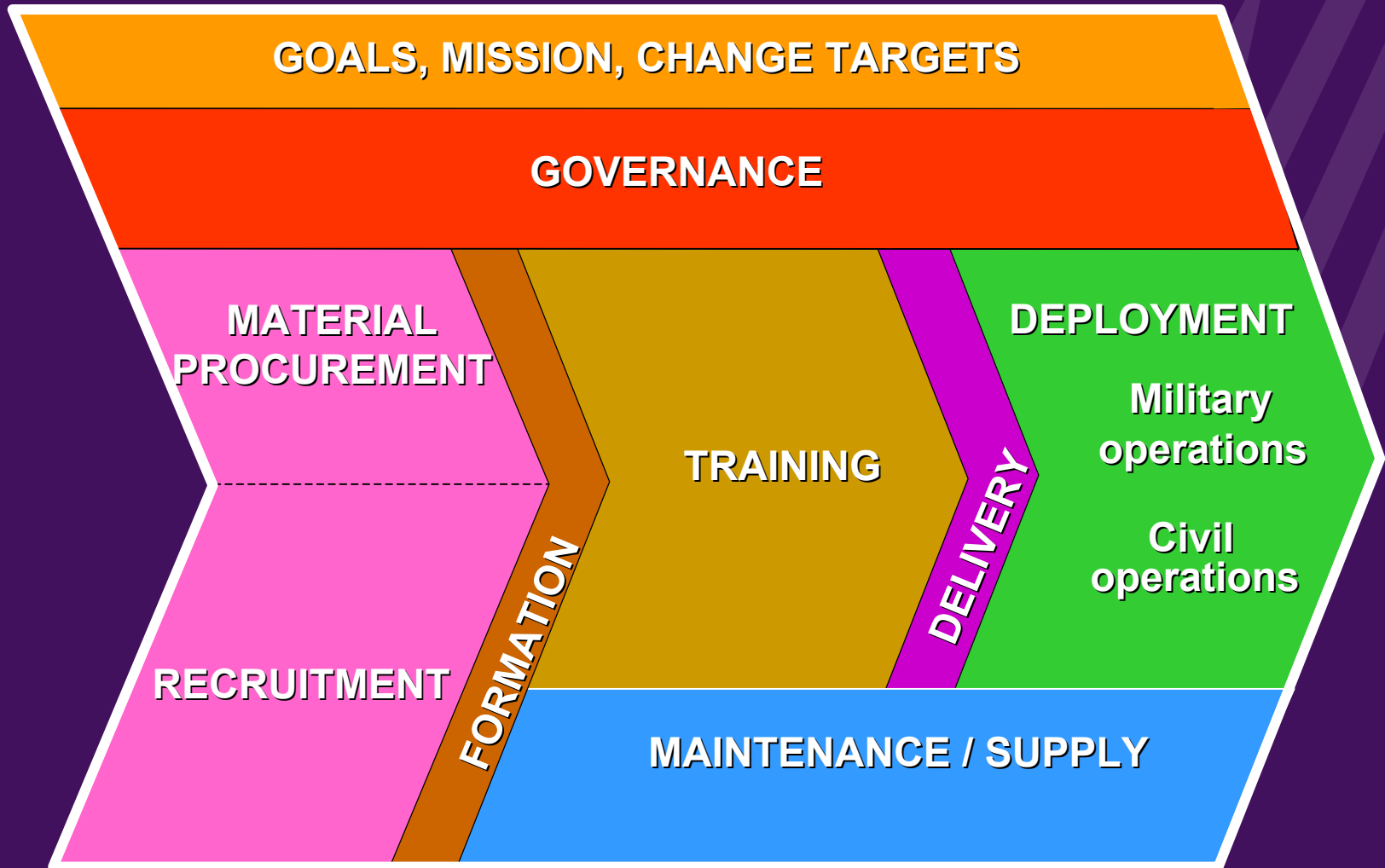
Common aspects found in business processes of Defence

- Developed in co-creation with stakeholders
- To increase acceptance of future design of organization and ICT

Common view on processes

Resulted in a common value chain used as a blueprint for the design of the organization

# Defence processes in common value chain

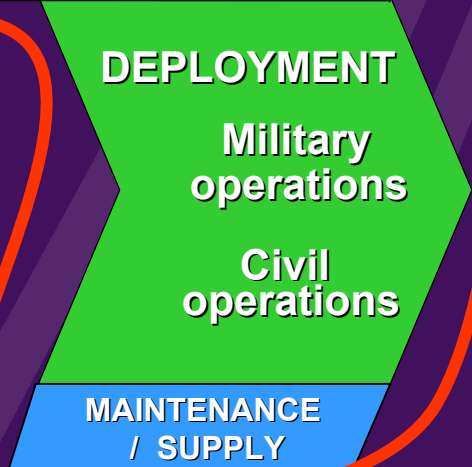
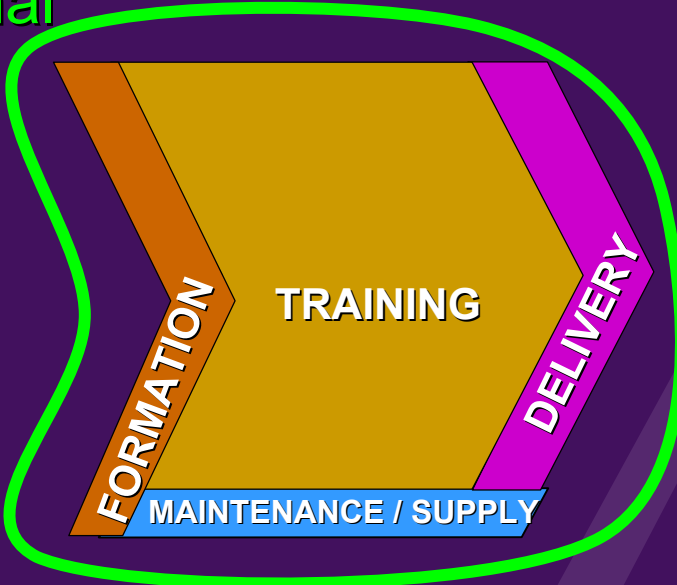
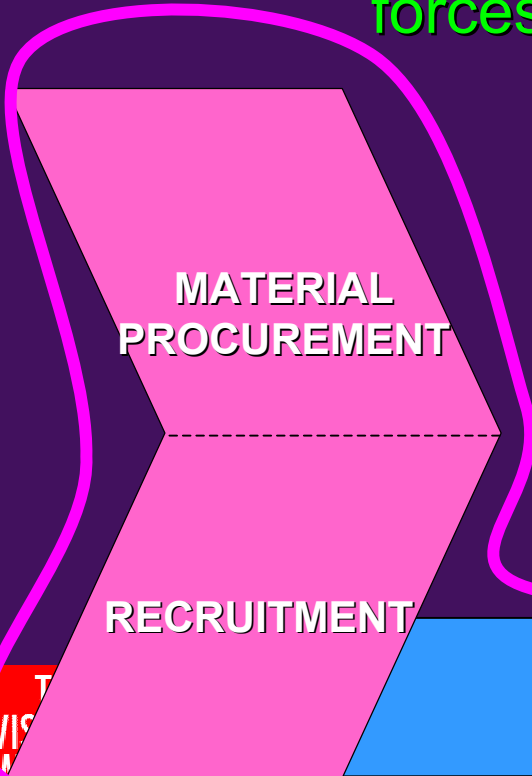


# Processes as basis for organizational blueprint



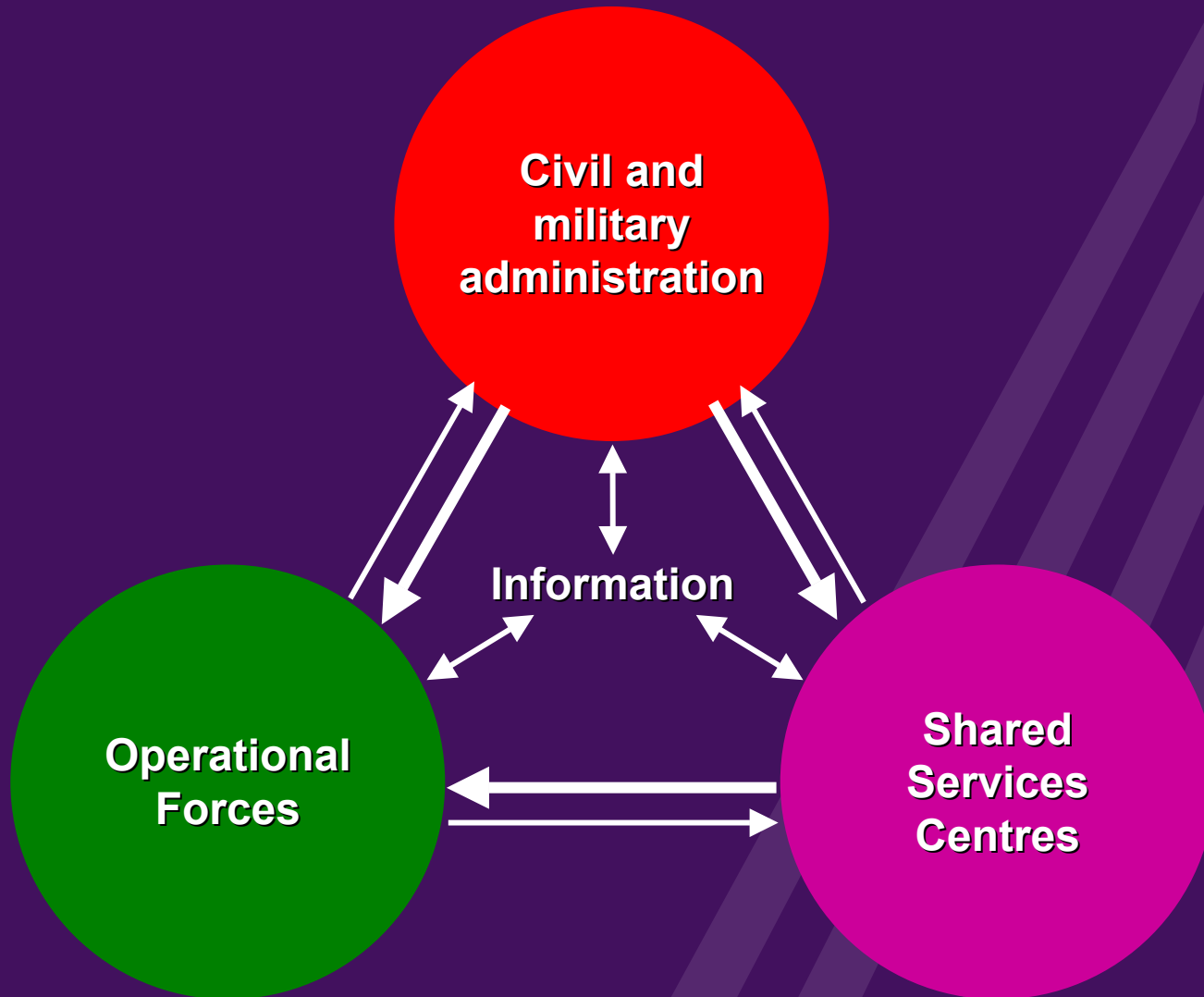
Civil and military administration

Operational forces



Shared service centers

# Basis for new organization



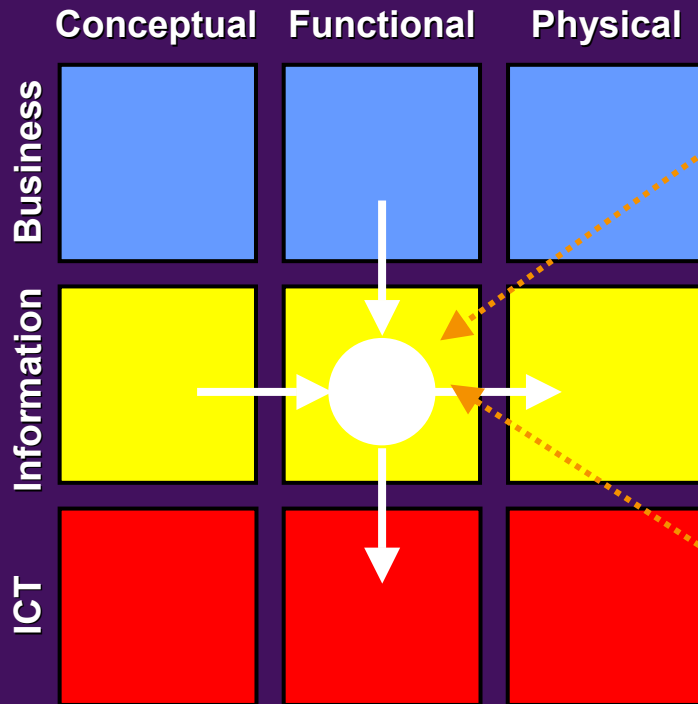
# Information architecture: service orientation

Business processes are supported with common information services

- A service

- Is a logical concept, deduced from the generic process model
- Unique in functionality, depends on other services
- Can support multiple processes
- Has one owner

Corporate data model is part of the information architecture





# Information services model: blueprint

**Policy  
services**

**Adaption  
services**

**Military  
Command  
& Control**

**Production management services**

**Data management services**

**ICT Infrastructure services**

Based on:

- Vision
- Business goals
- Business processes

Each area of the services model has its specific features:

- Level of predictability, specificness, life cycles, dependencies
- Filled in with Commercial, Military or Departmental Of The Shelf applications, or with self made applications



# Information services model

**Policy services**

**Adaption services**

**Military Command & Control services**

For Military Command & Control specific state of the art ICT will be used, aligned with NATO requirements. Distinctive capacity.

**Production management services**

BPM and capacity management support to change Dutch defence with new weapons, new (peacekeeping) missions

**Data management services**

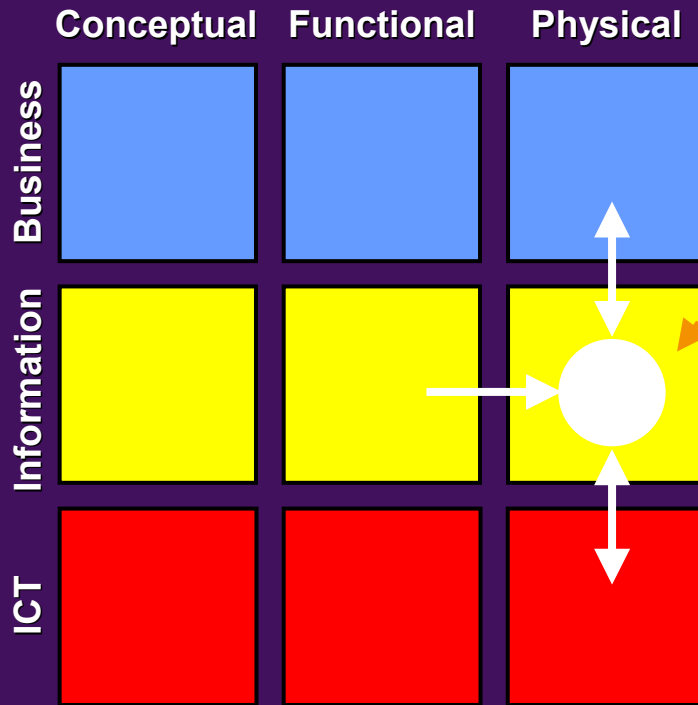
Production services will be implemented with of the shelf ERP applications for HRM, Logistics and Finance. 'Any' industry solution will do.

**ICT Infrastructure services**

Management of core data for data used among different services

Integration, Archive, Network, Communication, Security, System mngt, Office (base for Technical architecture)

# Information architecture: service orientation

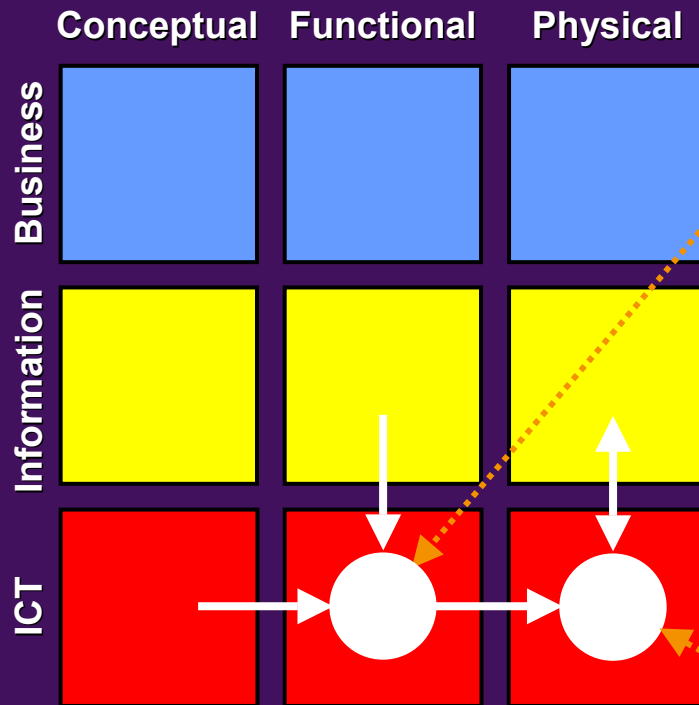


A combination of services is defined as an information system

- Useable for specific situations:
  - Static, Deployed or Mobile operations,
  - Classified or secret
- A set of building blocks and for showing how the building blocks fit together



# ICT architecture: enabling infrastructure



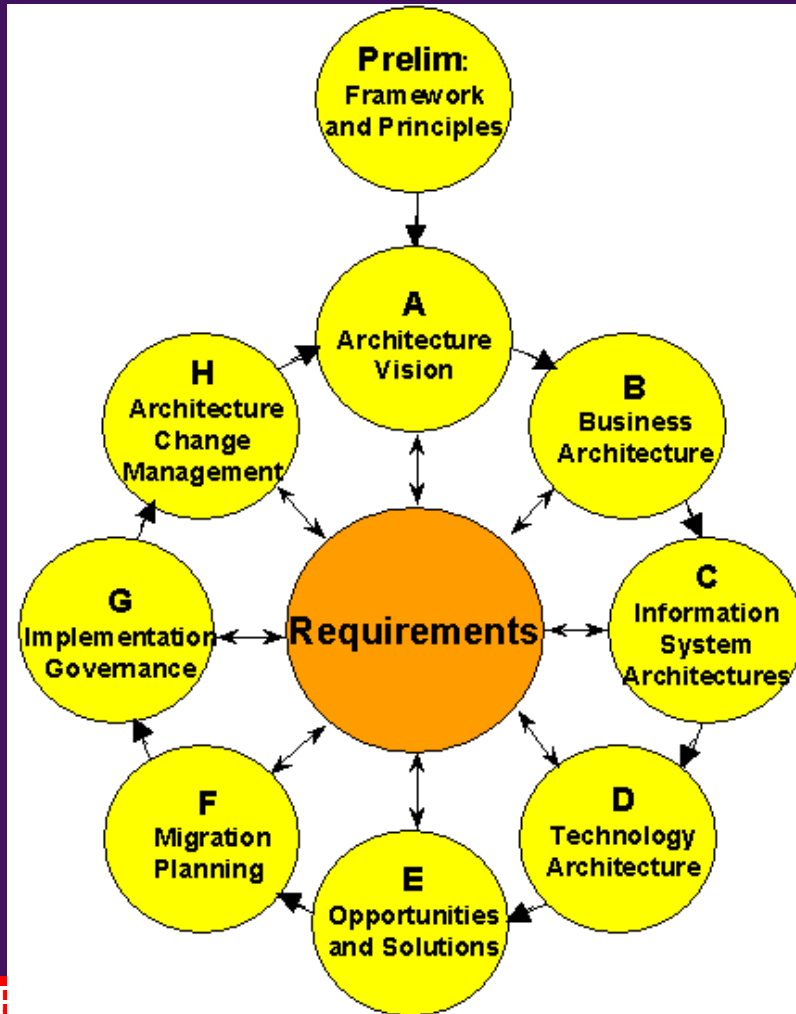
Technical picture of the information services

- The ICT infrastructure can be a major cost driver
- Aim is to reduce the number of infrastructure components
- The design of the infrastructure is based on a vision on how Defence wants its infrastructure to be used

Selection of standards and ICT products is based on clear criteria:

- Open standards, compatibility with current infrastructure, NATO requirements, no supplier dependency, following trends

# Architectural Development Cycle



1<sup>st</sup> cycle: 5 months

3-5 fte  
involved

- Governance: took another 4 months to complete

2<sup>nd</sup> cycle: 6 months

4-6 fte  
involved

- More detail, more participation in projects

3<sup>rd</sup> cycle: 2004

6-8 fte  
involved

- Migration towards an ERP and EAI based information infrastructure (takes 2 to 8 years to complete)
- All changes are based on the architecture

# Using the EA in the transformation

## Governance

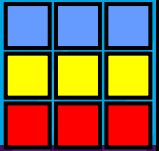
- All business and ICT projects should respond to the architecture
- The corporate change manager  $\approx$  the corporate architect  $\approx$  the budget owner for all changes  $\approx$  main advisor to executive board

## Readiness

- The enterprise architecture is always changing (maturing), but always workable
- External auditors verify the usefulness

## Commitment

- Involvement of all stakeholders (Air, Sea and Land, military and civil management)
- Communication is essential to reach a constructive, pro-active attitude by change managers and information managers



# Lessons learned

## Simplicity

- The framework of nine fields is a strong logo

## Business driven

- The first objective is to improve the business, not the architecture

## Governance

- Control of budgets

## Leadership

- Define and communicate architectural goals and keep on track

## Attitude

- Co-creation rather than knowledge monopoly

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