



## Praxeme, meaning in action

*An endeavour for a public method*

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*« We can't solve problems by using the same kind of thinking we used when we created them. » . »*  
Albert Einstein

# Praxeme & TOGAF

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# Objective of the presentation

## ▪ Objective

**Praxeme in the context of the TOGAF framework**

## ▪ Topics

- TOGAF and Enterprise Architecture
- Enterprise Architecture Methodology
- Components of the methodology
- What's at stake

Document protection



*Length of the presentation : 45 mins*



# Content of the presentation

- 1. Presentation of TOGAF**
- 2. The role of Methodology**
- 3. Presentation of Praxeme**
- 4. The interaction of Praxeme and TOGAF**



# Agenda

Partie	Durée	Horaire
Presentation of TOGAF	10 mn	14h45 – 14h55
The role of Methodology	5 mn	14h55 – 15h
Presentation of Praxeme	10 mn	15h – 15h10
Interaction Praxeme/TOGAF	5 mn	15h10 – 15h15



# TOGAF presentation



- **Definition**
- **Content**
- **Methodology**



What it is:

- => A framework for providing a starting point for EA work
- => A reference document for best practices
- => A collection of "world class" resources
- => A disciplined methodology

**Origin: TAFIM (DOD USA)**

**TAFIM-Technical Architecture  
Framework for Information  
Management**

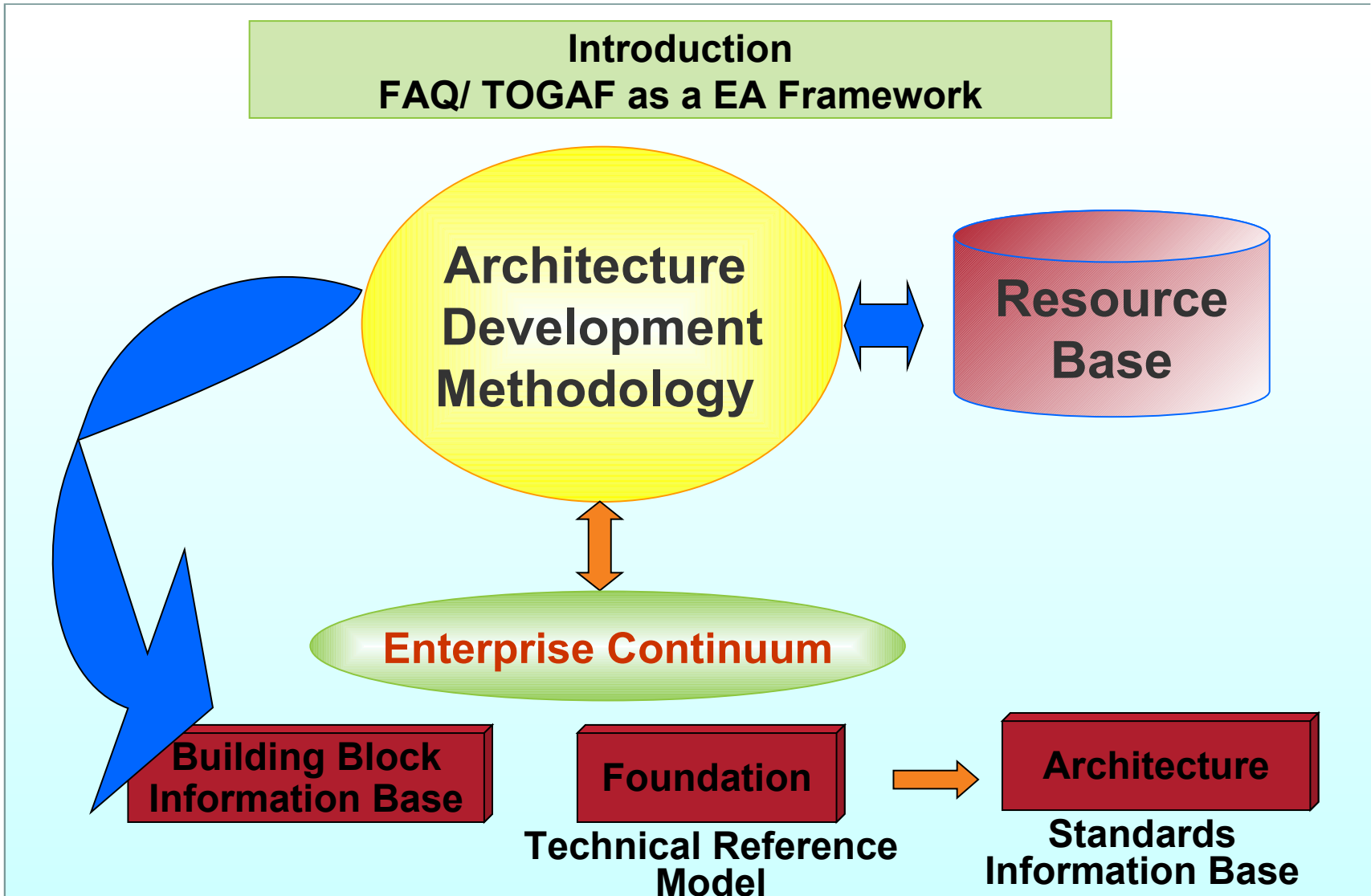


# Content of TOGAF

- **ADM (Architecture Development Methodology)**
- **Principles (Rules and Guidelines)**
- **Enterprise Continuum**
- **Building blocks**
- **Business scenarios**
- **Views and Viewpoints**
- **Architectural Governance**
- **Architecture Patterns**



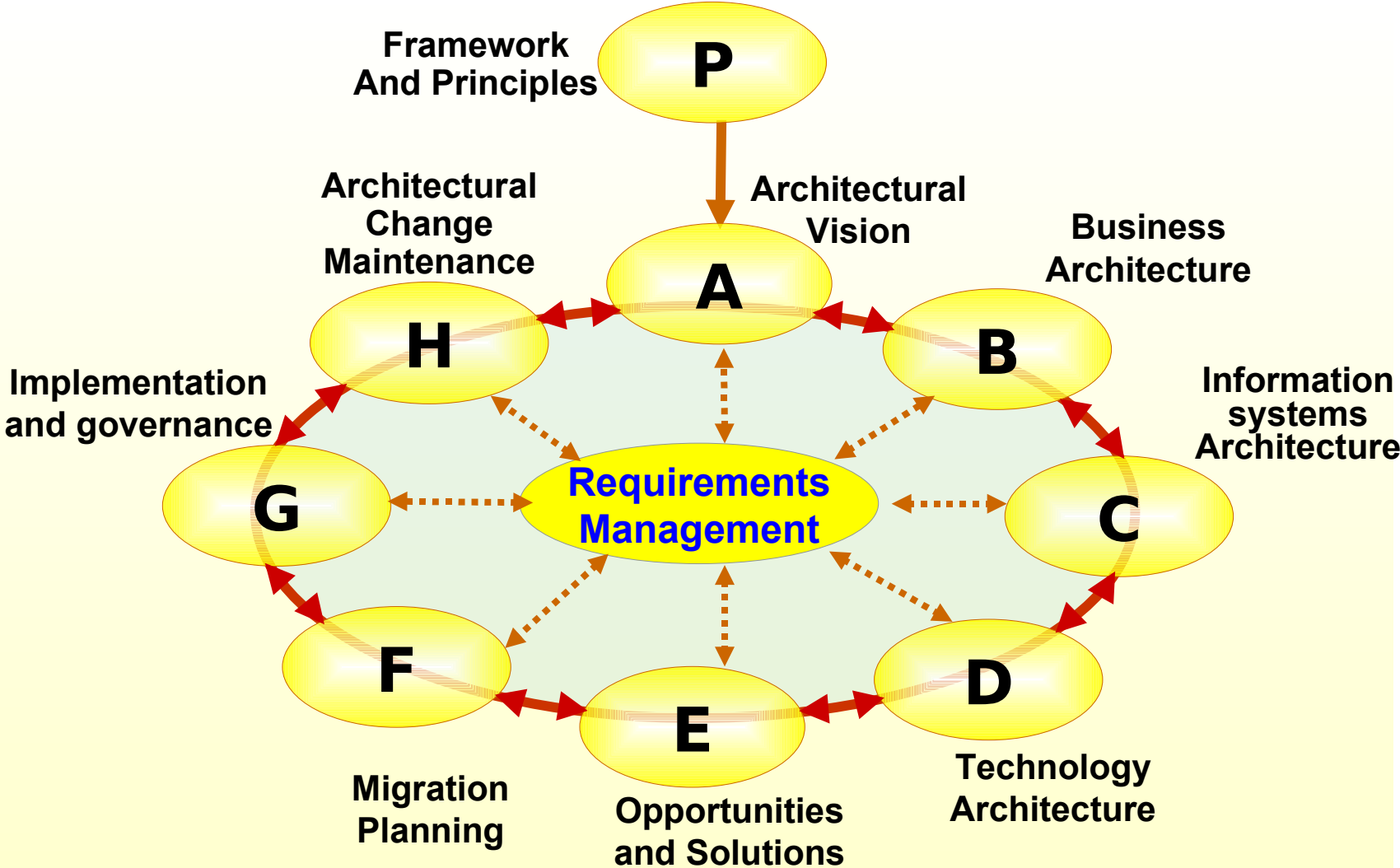
# Structure










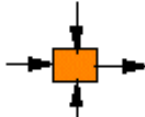
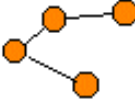


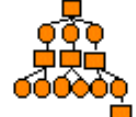
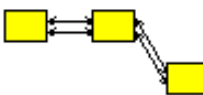
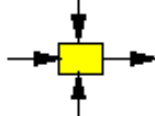
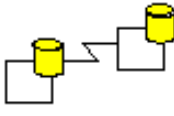
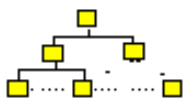

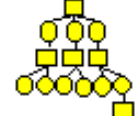
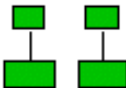
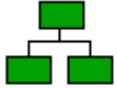
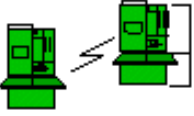


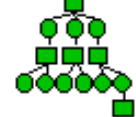










# Architecture Development Methodology

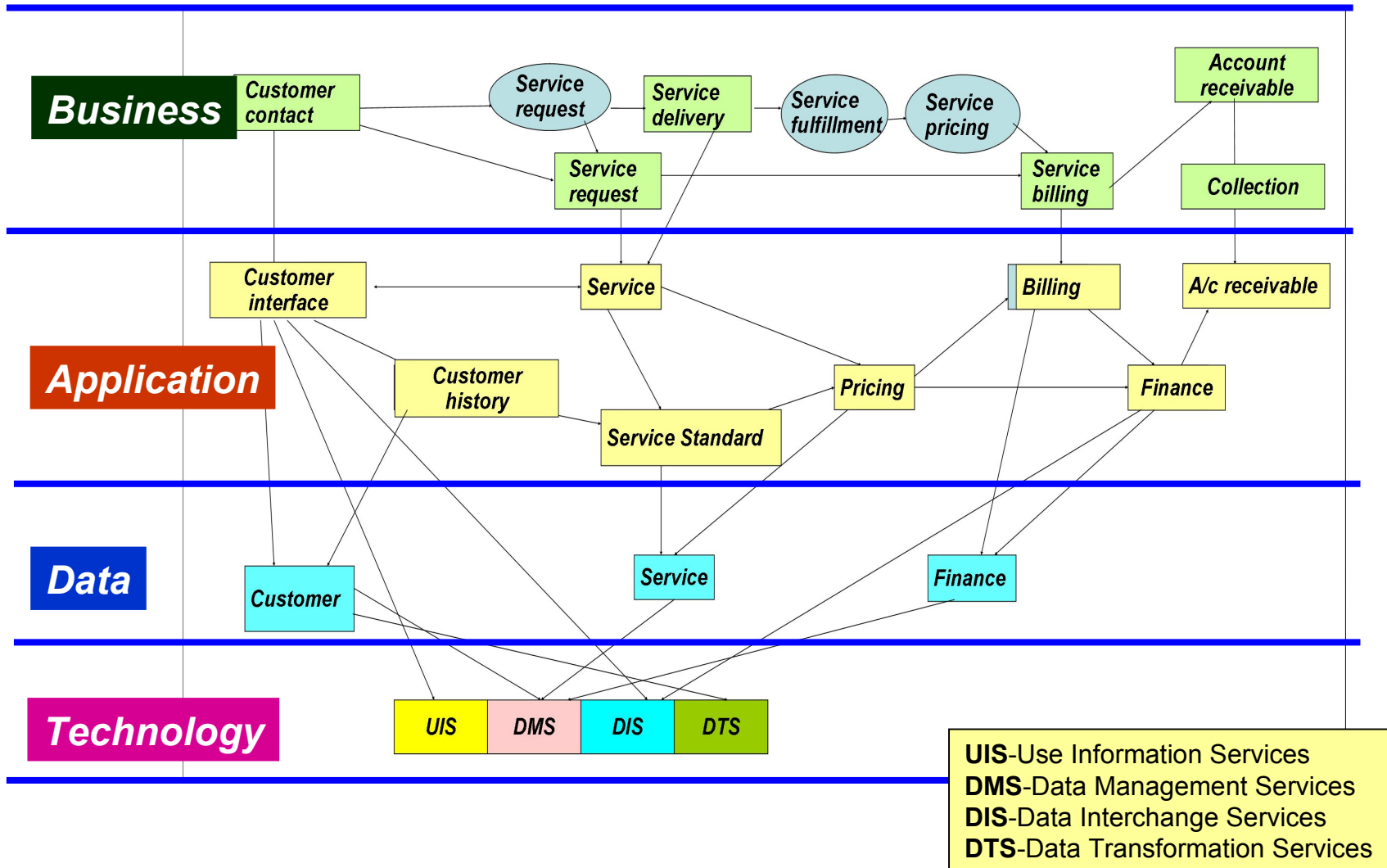


# ENTERPRISE ARCHITECTURE - A FRAMEWORK™

	DATA <i>What</i>	FUNCTION <i>How</i>	NETWORK <i>Where</i>	PEOPLE <i>Who</i>	TIME <i>When</i>	MOTIVATION <i>Why</i>	
SCOPE (CONTEXTUAL)	List of Things Important to the Business 	List of Processes the Business Performs 	List of Locations at Which the Business Operates 	List of Organizations Important to the Business 	List of Events Significant to the Business 	List of Business Goals/Strat 	SCOPE (CONTEXTUAL)
<i>Planner</i>	Entity - Class of Business Thing	Function - Class of Business Process	Node - Major Business Location	People - Major Organizations	Time - Major Business Event	End/Mean - Major Bus. Goal/Critical Success Factor	<i>Planner</i>
ENTERPRISE MODEL (CONCEPTUAL)	e.g. Semantic Model 	e.g. Business Process Model 	e.g. Logistics Network 	e.g. Work Flow Model 	e.g. Master Schedule 	e.g. Business Plan 	ENTERPRISE MODEL (CONCEPTUAL)
<i>Owner</i>	Ent - Business Entity Rel - Business Relationship	Proc. - Business Process IO - Business Resources	Node - Business Location Link - Business Linkage	People - Organization Unit Work - Work Product	Time - Business Event Cycle - Business Cycle	End - Business Objective Means - Business Strategy	<i>Owner</i>
SYSTEM MODEL (LOGICAL)	e.g. Logical Data Model 	e.g. Application Architecture 	e.g. 'Distributed Systems Architecture' 	e.g. Human Interface Architecture 	e.g. Processing Structure 	e.g. Business Rule Model 	SYSTEM MODEL (LOGICAL)
<i>Designer</i>	Ent - Data Entity Rel - Data Relationship	Proc. - Application Function IO - User Views	Node - IS Function (Processor/Storage etc) Link - Link Characteristics	People - Role Work - Deliverable	Time - System Event Cycle - Processing Cycle	End - Terminal Assesses Means - Action Assesses	<i>Designer</i>
TECHNOLOGY MODEL (PHYSICAL)	e.g. Physical Data Model 	e.g. 'System Design' 	e.g. 'System Architecture' 	e.g. Presentation Architecture 	e.g. Control Structure 	e.g. Rule Design 	TECHNOLOGY MODEL (PHYSICAL)
<i>Builder</i>	Ent - Segments/Tables/etc. Rel - Fields/Keys/etc.	Proc. - Computer Function IO - Screen/Device Formats	Node - Hardware/System Software Link - Line Specifications	People - User Work - Screen Format	Time - Execute Cycle - Composite Cycle	End - Codes Means - Action	<i>Builder</i>
DETAILED REPRESENTATIONS (OUT OF CONTEXT)	e.g. Data Definition 	e.g. 'Program' 	e.g. Network Architecture 	e.g. Security Architecture 	e.g. Timing Definition 	e.g. Rule Specifications 	DETAILED REPRESENTATIONS (OUT OF CONTEXT)
<i>Sub-Contractor</i>	Par - Field Rel - Address	Proc. - Language Stmt IO - Control Block	Node - Address Link - Protocol	People - Heavy Work - Job	Time - Interrupt Cycle - Machine Cycle	End - Sub-conditions Means - Step	<i>Sub-Contractor</i>
FUNCTIONING ENTERPRISE	e.g. DATA	e.g. FUNCTION	e.g. NETWORK	e.g. ORGANIZATION	e.g. SCHEDULE	e.g. STRATEGY	FUNCTIONING ENTERPRISE



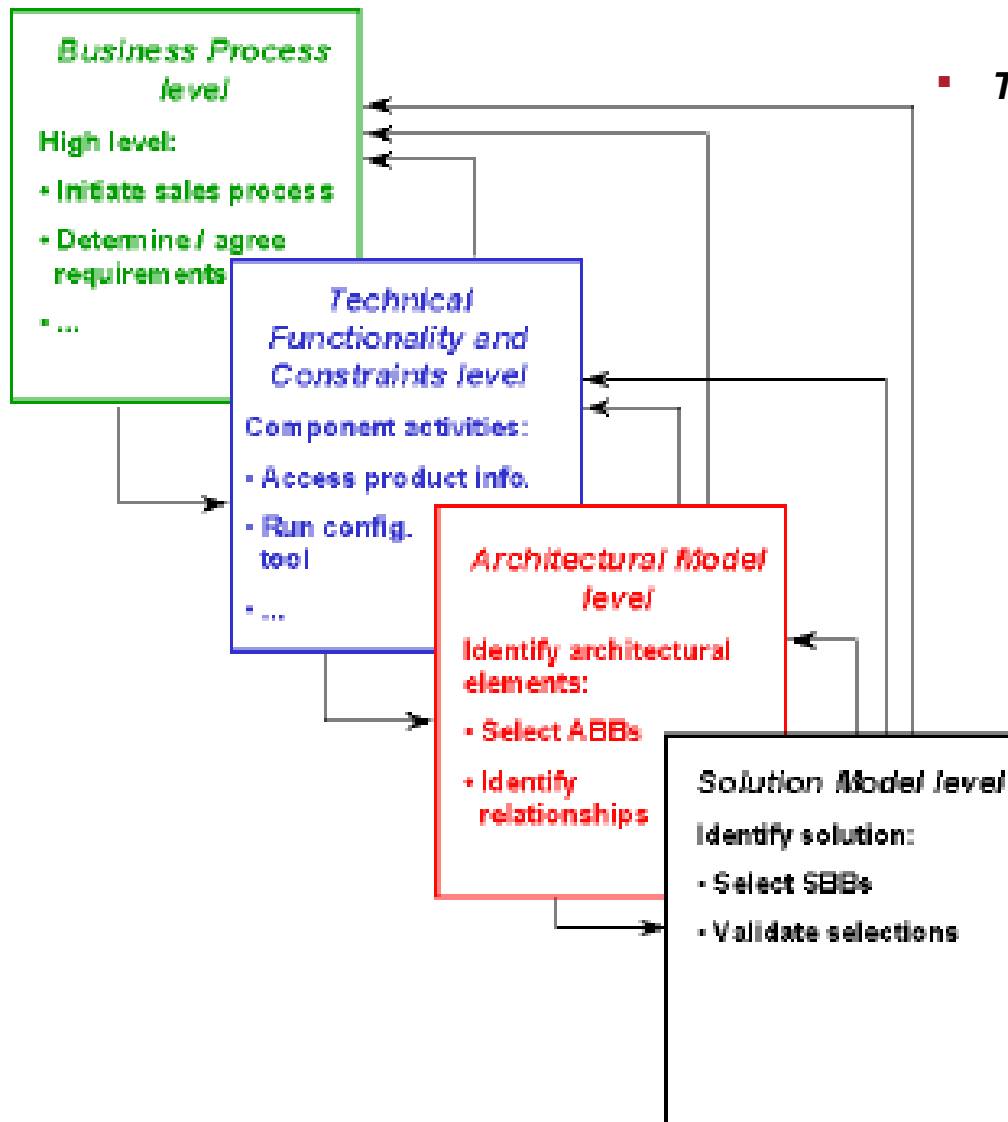
# Levels of representation



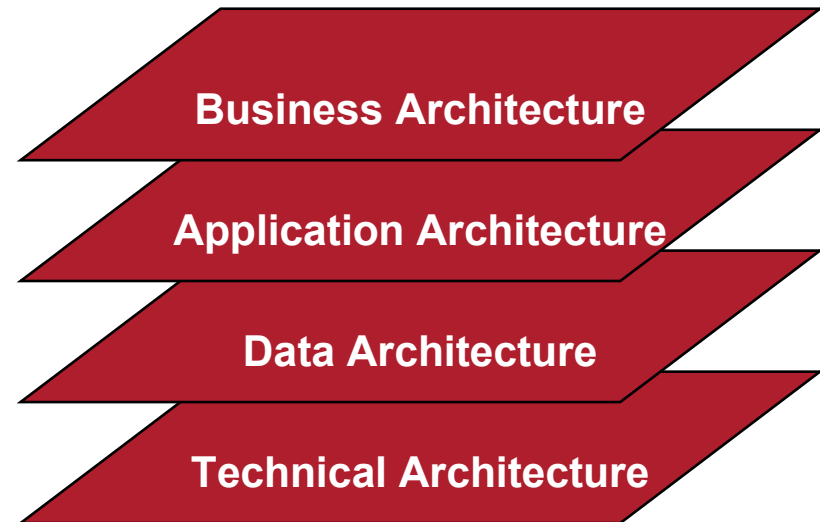
**UIS**-Use Information Services  
**DMS**-Data Management Services  
**DIS**-Data Interchange Services  
**DTS**-Data Transformation Services



# Enterprise Architecture



- **The Open Group Architecture Framework**
  - *Iteration between the four levels of modeling*
    - Extrait de « TOGAF, version 8.1, Enterprise Edition »





# The role of methodology



- **Methodology comprises three axes**
  - Praxeme and TOGAF are situated in this space



# A universe in three dimensions

## ■ WHAT?

- What are we building or transforming?
- What object do we want to produce or change?
- What are the objects it consists of?

■ → Product

## ■ HOW? (collectively)

- How can we organize our action?

■ → Process

## ■ HOW? (individually)

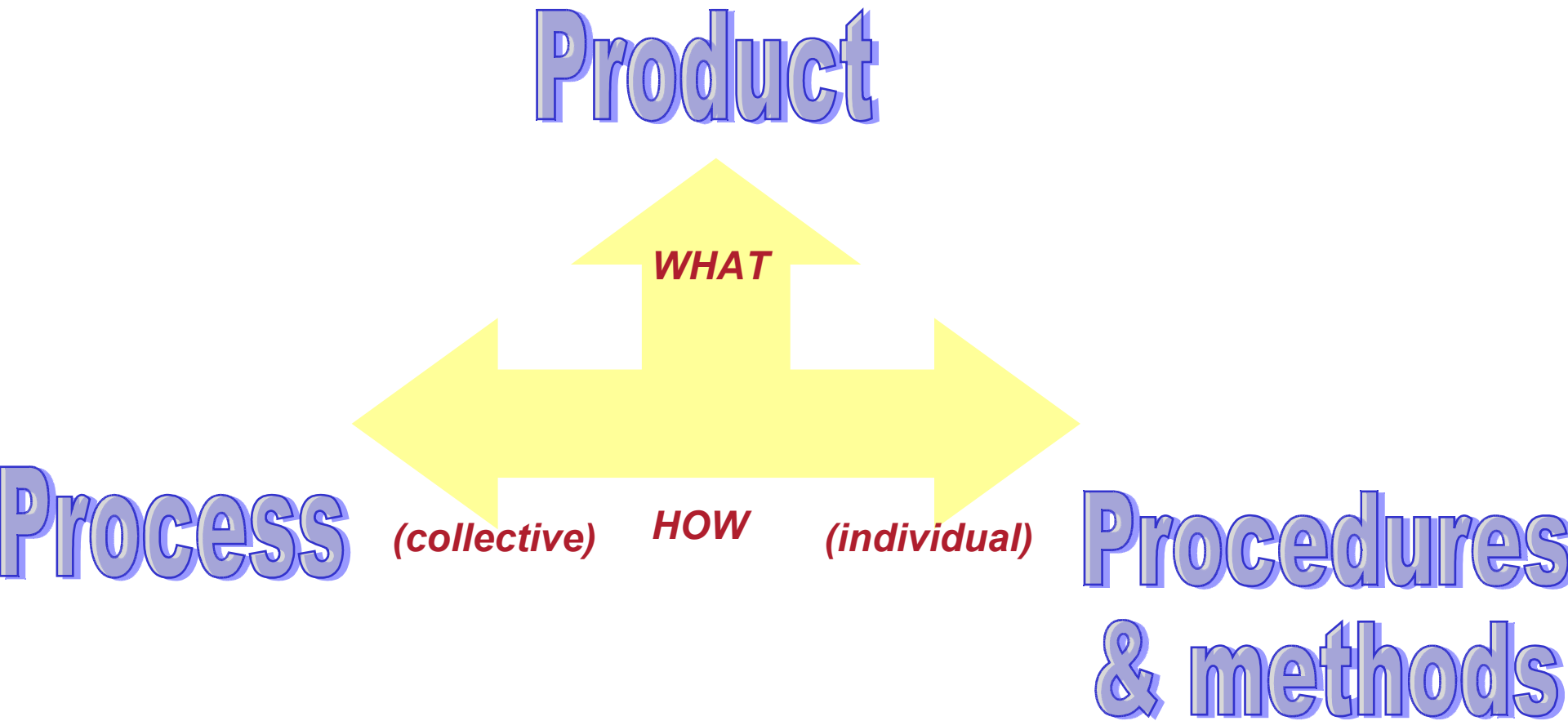
- How can I proceed to do my work?

■ → Procedures & methods

# PRO3

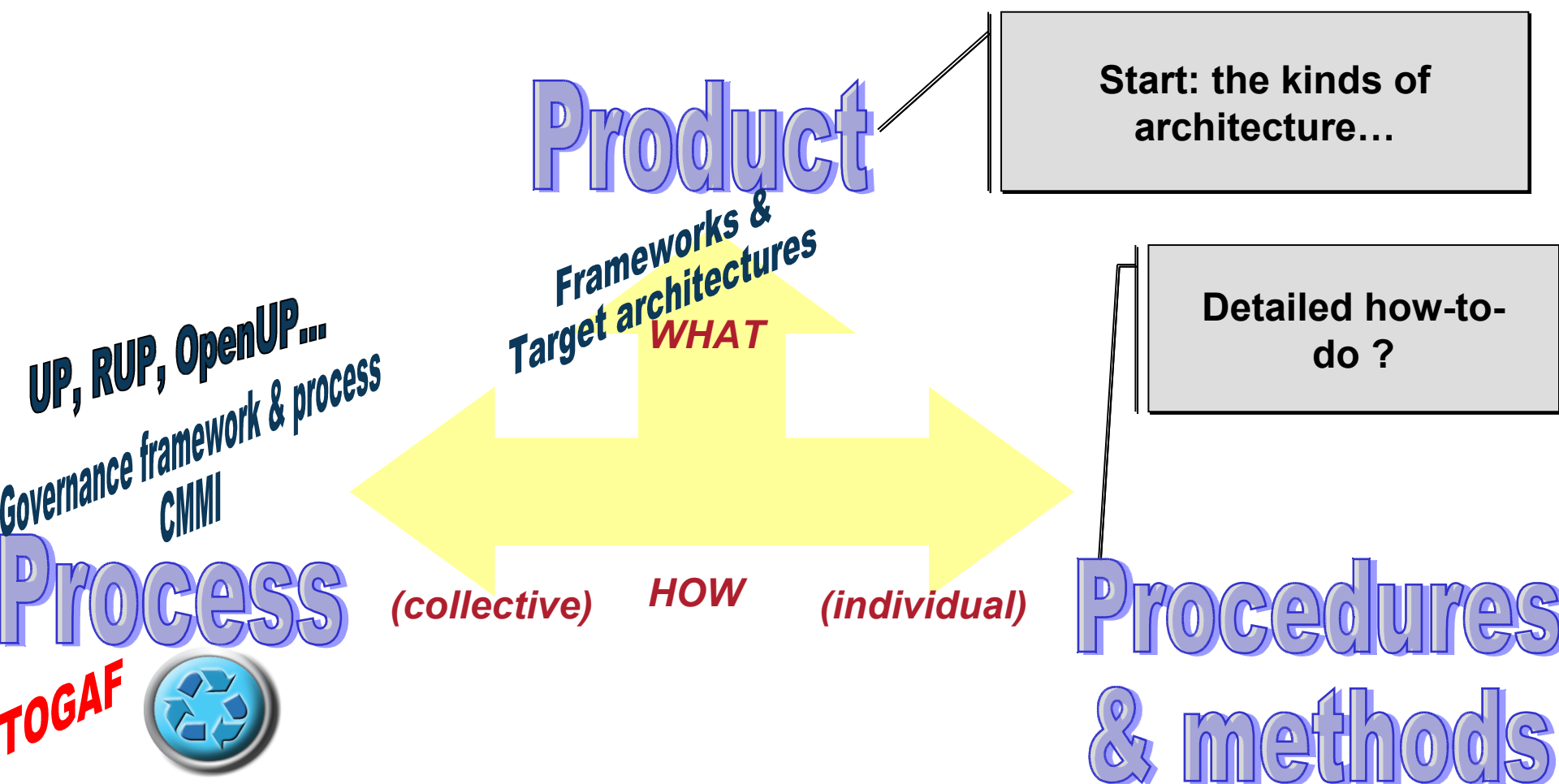


# The three dimensions of methodology





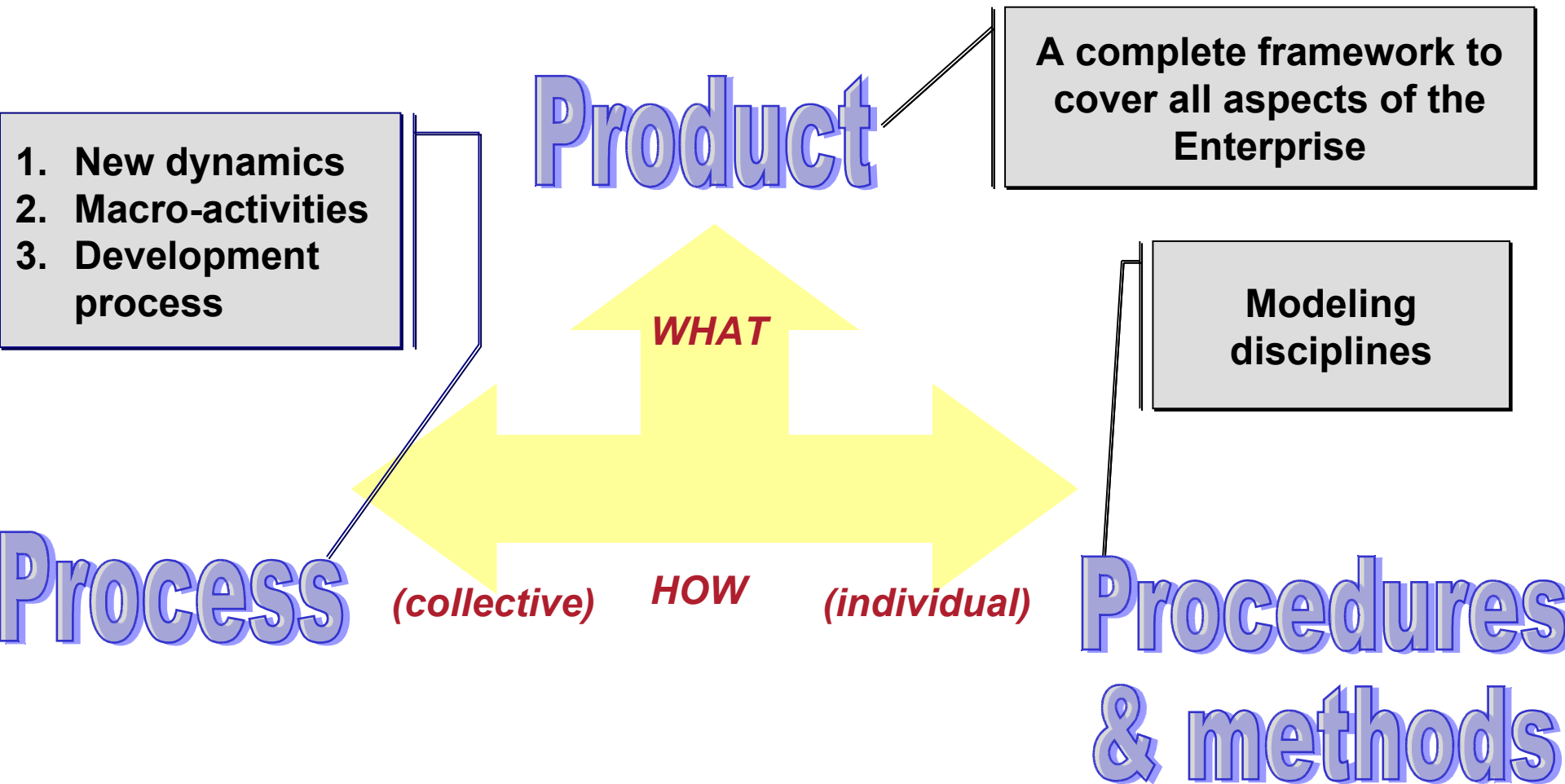
# Position of current assets







# The main contribution from Praxeme methodology





# “Product”: What is to be represented?

- **We want to model the “Enterprise System” before acting on it**
  - Which models do we need?
  - How can we ensure a comprehensive description of this complex system?
  - How to build a check-list of information to seek for and decision to make?
- **First questions in order to lay the groundwork**
  - Also: how to interassociate, link, trace and so forth all the artefacts?



# “Product”: the shift of paradigm

- What must change in our mindset?
  - How should we perceive things in order to facilitate our work?
- 1. Separation of concerns as an inescapable principle**
    - An upper level of abstraction
      - .../...
    - An intermediate level
      - .../...
  - 2. New categories are used to perceive the real and design the solutions**
    - .../...



- **The « Product » dimension**
  - Reference framework
    - Aspects
    - The information system Topology



# An upper level of abstraction

## ■ Current state

- The highest description of the business is in terms of process, activities...
  - This aspect of the business is prone to variation
  - Organization changes frequently
  - So, it's hard to converge on this aspect

## ■ Next step

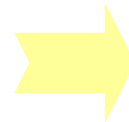
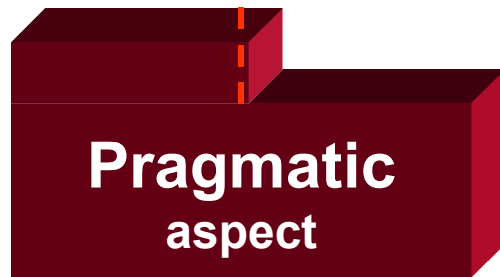
- There is an aspect above the organization and processes
- We call it the semantic aspect
  - Conceptual
  - We can model the core business knowledge
  - This model will be naturally shared



# An upper level of abstraction: conclusion



*refers to*



- **Core business knowledge**
  - “Business objects”
  - → largely sharable, quite universal
- **Organizational particularities**
  - Process, use-cases, role...
  - → adaptation



# An intermediate level of abstraction

- **“Semantic” and “pragmatic” aspects describe clearly the business...**
- **...but these representations are far from the software domain**
  - Too complex
  - Too fuzzy
  - Too coupled
- **The information system must match to these upstream aspects...**
- **...but obey other kinds of constraints**



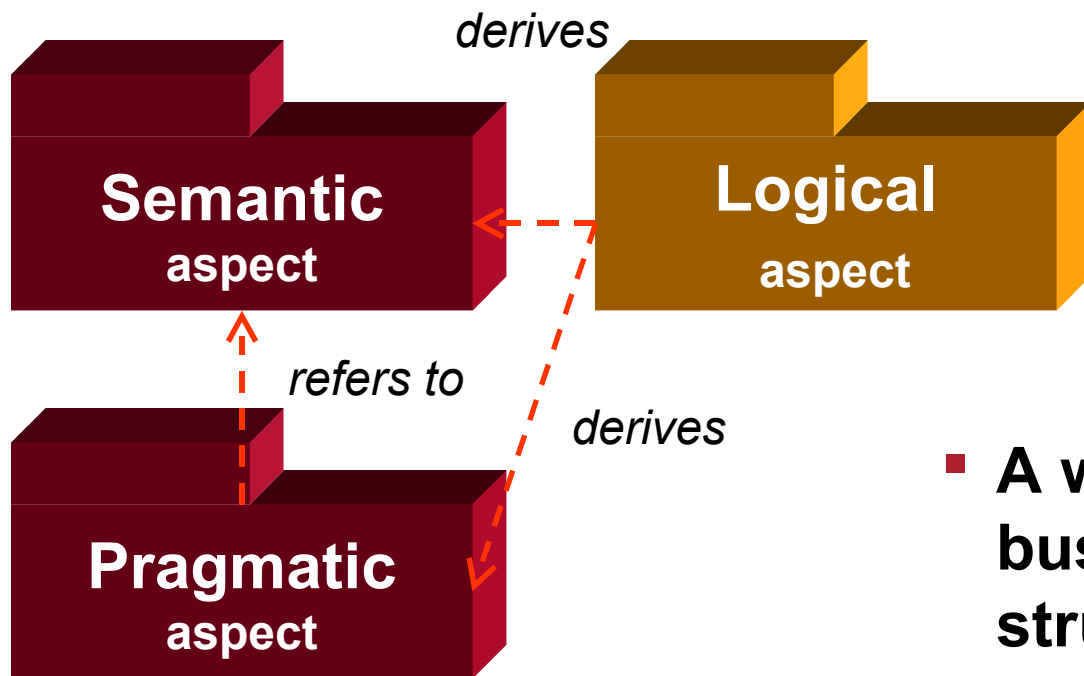
# An intermediate level of abstraction (cont.)

- **We must be able to discuss the system structure with business decision-makers**
  - In the context of governance, decision-makers need a clear vision of the software and its evolution
    - This vision cannot be expressed in terms of technology
- **The “logical” aspect provides all of the actors – business & IT – with an intermediate representation of the IS**





# An intermediate level of abstraction: conclusion



- A way of reconsidering the business and placing it in a structure
  - Prefigures the software



# How to represent things?

- Representation categories depend on “Aspects”
- **“Pragmatic” aspect**
  - Usual and classical approach based on action, process, use-case...
    - Nothing new except it refers to the semantic model
- **“Semantic” aspect**
  - We have to get rid of the “data *versus* process” dichotomy...
  - ...and adopt the object-oriented approach
    - This approach is closer to “real life” and “natural” representation



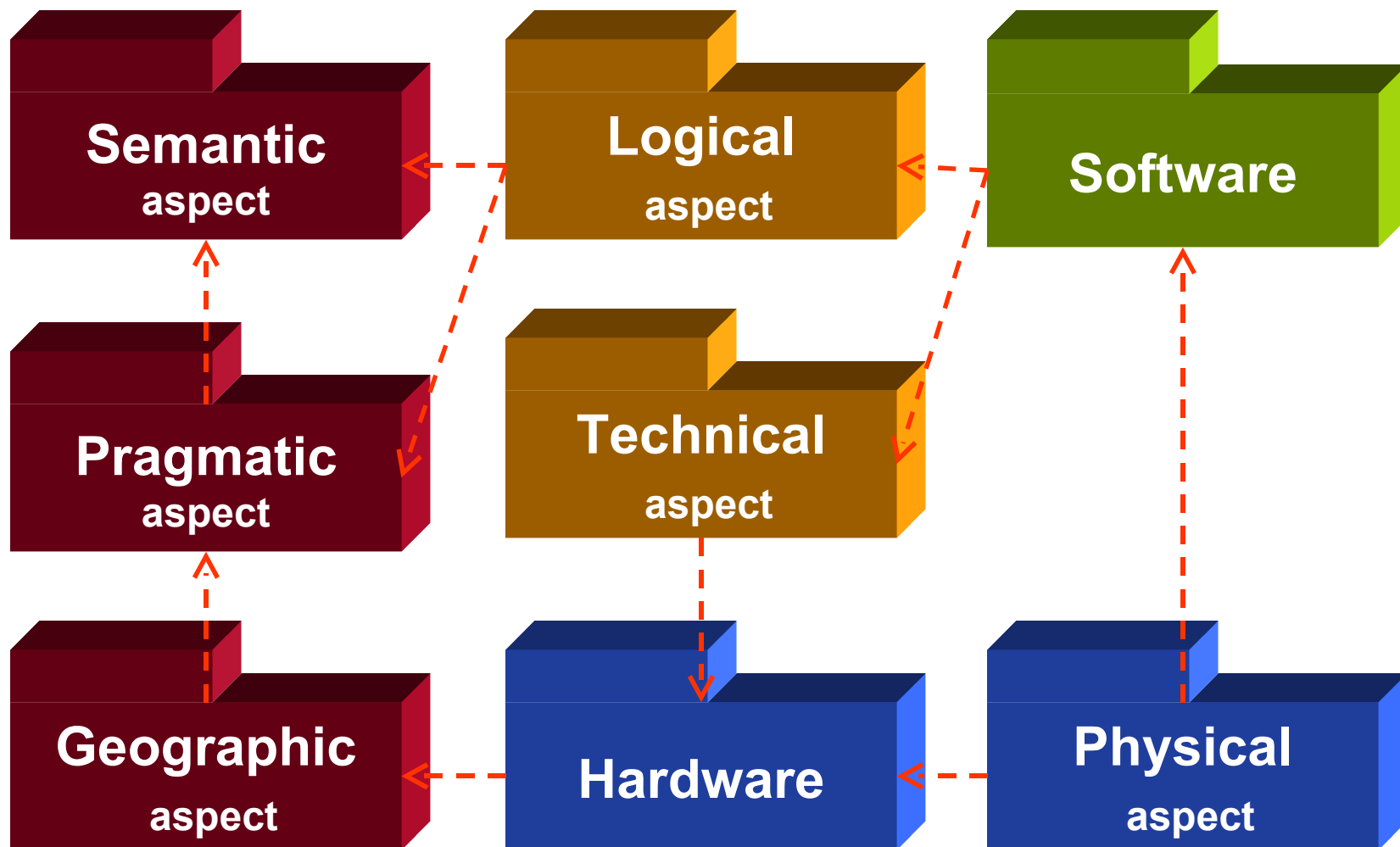
# How to represent thing? (cont.)

- **“Logical” aspect**

- As an intermediate aspect, it can endorse different ways of seeing things, using metaphors
  - Functional architecture: a logical architecture based on functions
    - The usual way
  - City planning: a metaphor in itself
  - Component based architecture
  - SOA: a logical architecture based on the “service” metaphor



# A framework of 8 aspects a comprehensive description of the enterprise



## The Enterprise System Topology



# The value-added of the Enterprise System Topology

- **Integrate many approaches and heritage**
  - Object, function, process, component, SOA
    - Each one in the right place
- **Establish an overall mindset addressing the whole Enterprise System**
  - A framework detailed in a real metamodel
    - Which pays a great attention to the links between all the categories
    - Which provides a clear specification to customize the tools
- **Theoretical foundation of the public method**
  - Providing many disciplines with procedures and guidelines

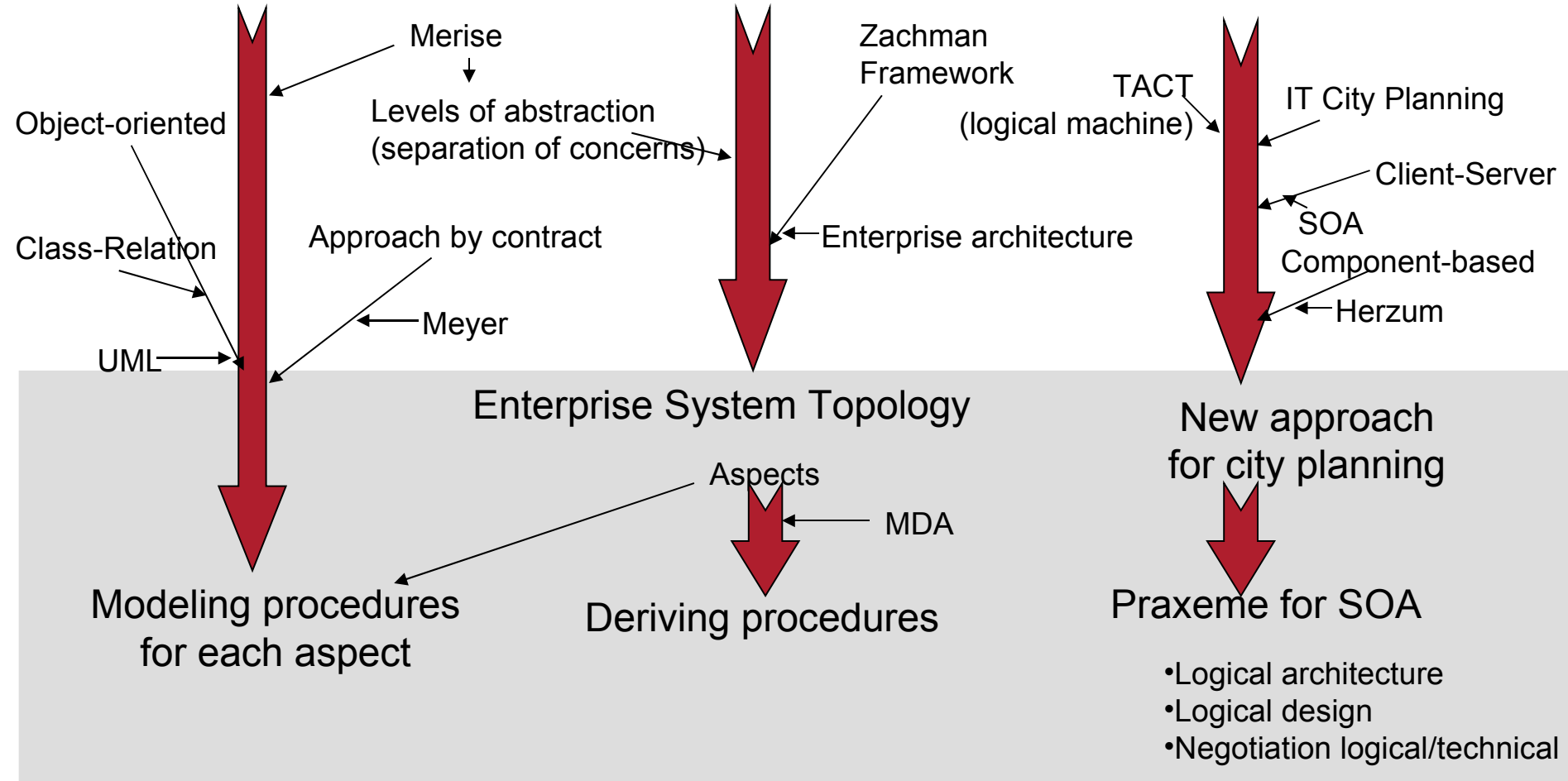


# Origins of Praxeme

## Modeling methods

## Methodological frameworks

## System Architecture





- **General interaction**
- ***Enterprise Architecture & Solution Architecture***
- **Reference framework**
- **In practice**



# Overall articulation

## ■ Principals

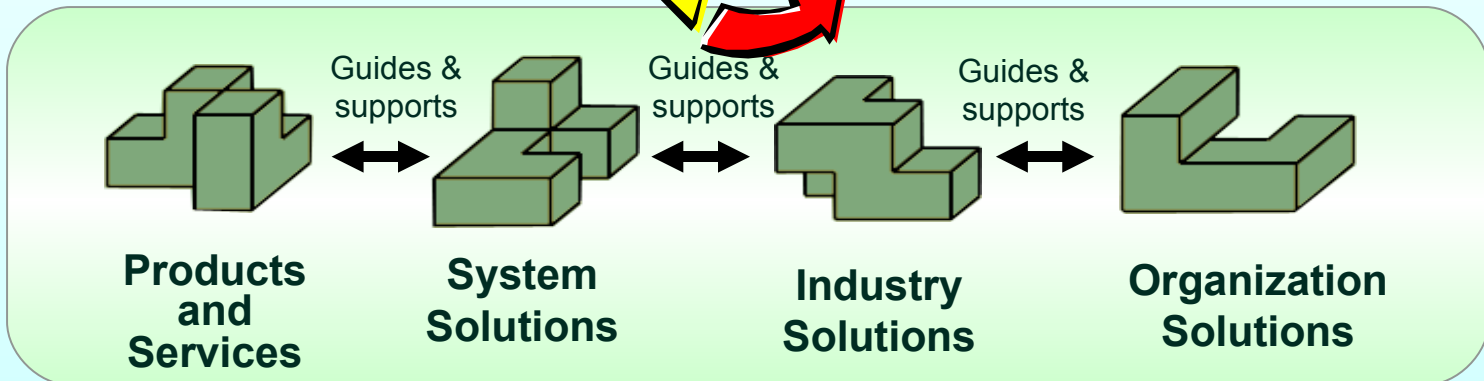
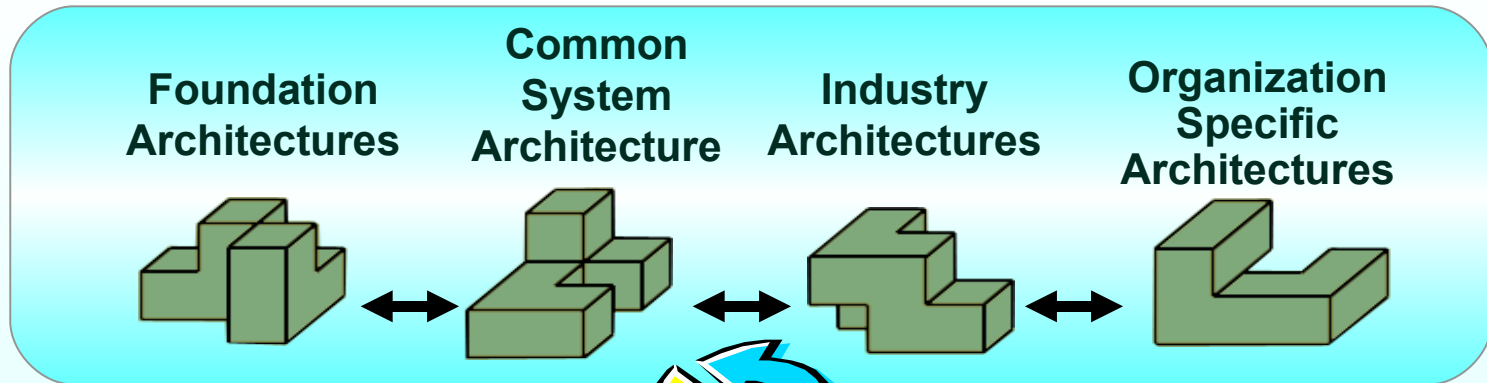
- TOGAF in essence is a set of structured activities
  - It applies to the process dimension
  - It gives little guidance to how to proceed
- Praxeme's methods integrate simply with TOGAF
  - Proto modeling, modeling
- Praxeme's meta-model rigidifies the operational approaches





# Enterprise and solution

## Architecture Continuum



## Solutions Continuum

Source: Togaf 8 documentation Part III ,The Open Group



# First difference

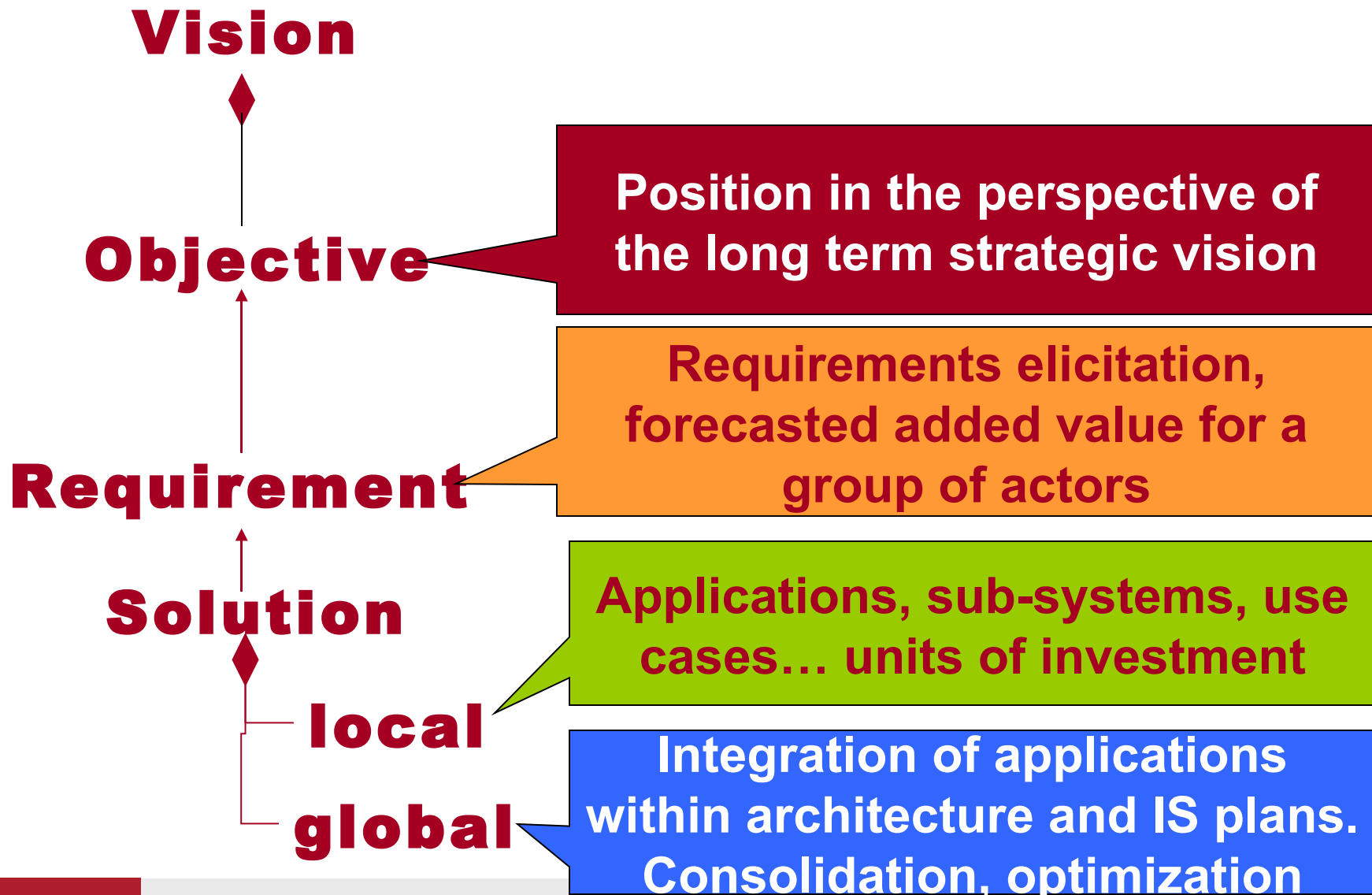
## ■ Different perspectives

### ■ Enterprise Architecture *versus* Solution Architecture

- Praxeme introduces the target levels
  - .../...
- However Praxeme doesn't really recognize the differences between levels
  - It avoids the danger of becoming disconnected from the terrain
  - Architects take the system level decisions
  - Aspects guide the specific approaches to the system
  - The architecture plans structure the system
  - Strategy, architecture and conception form a continuum of identity and content
- Even if the distinction between EA and SA stands.



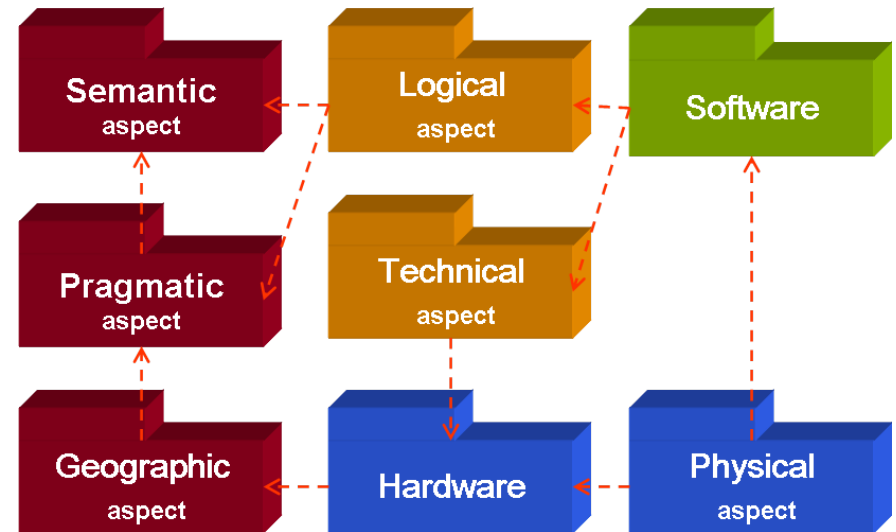
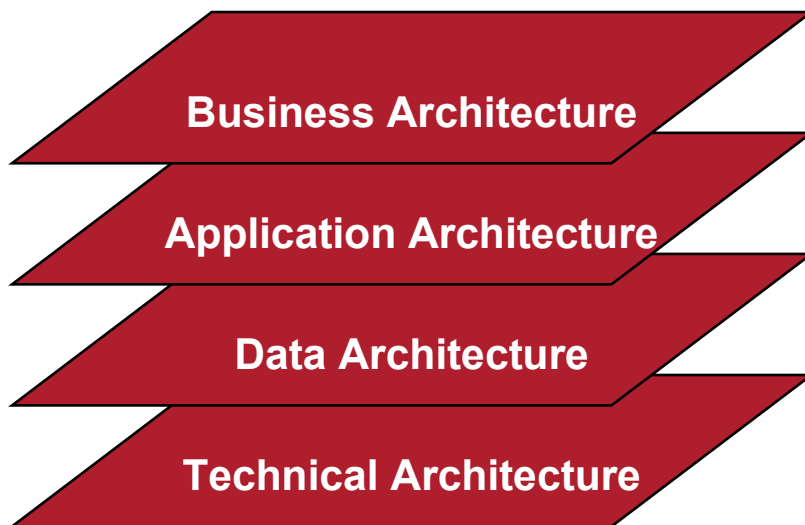
# Target levels





# The second difference

- In the « Product » dimension, the frames of reference differ
  - Four level in TOGAF
  - The Enterprise System Topology in Praxeme
    - Equivalences





- **The association is possible**
  - It is simpler if the phasing of TOGAF can be adapted to the aspects of Praxeme
    - This is not essential
    - It remains necessary to specify how the phases cover the aspects
    - As well as the degree of detail and depth attained in each phase
  - The strengths of TOGAF
    - Takes into account the business and strategy perspectives
    - Phasing
      - To retain if already applied otherwise it should be adapted to aspects
- **Points of interaction : Deliverables**
  - The unit where the articulation manifests

# Conclusion



Meaning in  
action



- **Praxeme, an Enterprise architecture**
  - Public domain and open
  - Based on standards
  - Supported by the public and private sectors
- **It can be used with a *framework* like TOGAF**
- **For more information**
  - The site of the *Praxeme Institute*
    - [www.praxeme.org](http://www.praxeme.org)

**It is essential to cover the whole chain of activities and to remain open**



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*An endeavour for a public method*

« We can't solve problems by using the same kind of thinking we used when we created them. » . . .  
Albert Einstein

## Praxeme & TOGAF

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Référence : SLB-20

Version : 14/12/07

### **Praxeme et TOGAF : synergie ou concurrence ?**

Cette conférence a été donnée lors du Symposium 2007 du Praxeme Institute, l'association à but non lucratif qui promeut la méthode publique Praxeme.

TOGAF de l'Open Group est l'EAF (*Enterprise Architecture Framework*) le plus visible du moment. Un EAF fournit un cadre de travail qui organise, à l'échelle de l'entreprise, la connaissance et les travaux sur le système d'information. Le courant anglo-saxon de l'*Enterprise Architecture* commence à toucher la France, à partir des grandes entreprises qui ont besoin d'un cadre de référence international. Il va recouvrir l'urbanisation de SI « à la française ».

Par ailleurs, cette vision des systèmes doit s'articuler avec le plan opérationnel et avec les incontournables de SOA (*service-oriented architecture*) et des standards MDA (*model driven architecture*), UML (*unified modelling language*).

Praxeme, en tant que méthodologie d'entreprise, a vocation à intégrer ces différents apports. Grâce à son socle théorique, la méthode publique propose une articulation rigoureuse qui les renforce mutuellement.

Comment situer les aspects de la topologie Praxeme dans le cadre de TOGAF ou d'autres *frameworks* ? Comment articuler les « niveaux d'action » : projet, système, fédération de systèmes ? Comment établir une chaîne continue, de la stratégie d'entreprise au déploiement ? Etc.

Dominique Vauquier, certifié TOGAF par l'Open Group, montrera que la pratique de TOGAF nécessite de s'appuyer sur un cadre méthodologique qui précise les procédés de modélisation et traite opérationnellement les liens entre tous les aspects du Système Entreprise



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Document protection



*Length of the presentation : 45 mins*

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« Praxeme & TOGAF »



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# TOGAF presentation

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- **Definition**
- **Content**
- **Methodology**

[www.praxeme.org](http://www.praxeme.org) « Praxeme & TOGAF »  SLB-20 5/38



## Definition


■ Cl



What it is:

- => A framework for providing a starting point for EA work
- => A reference document for best practices
- => A collection of "world class" resources
- => A disciplined methodology

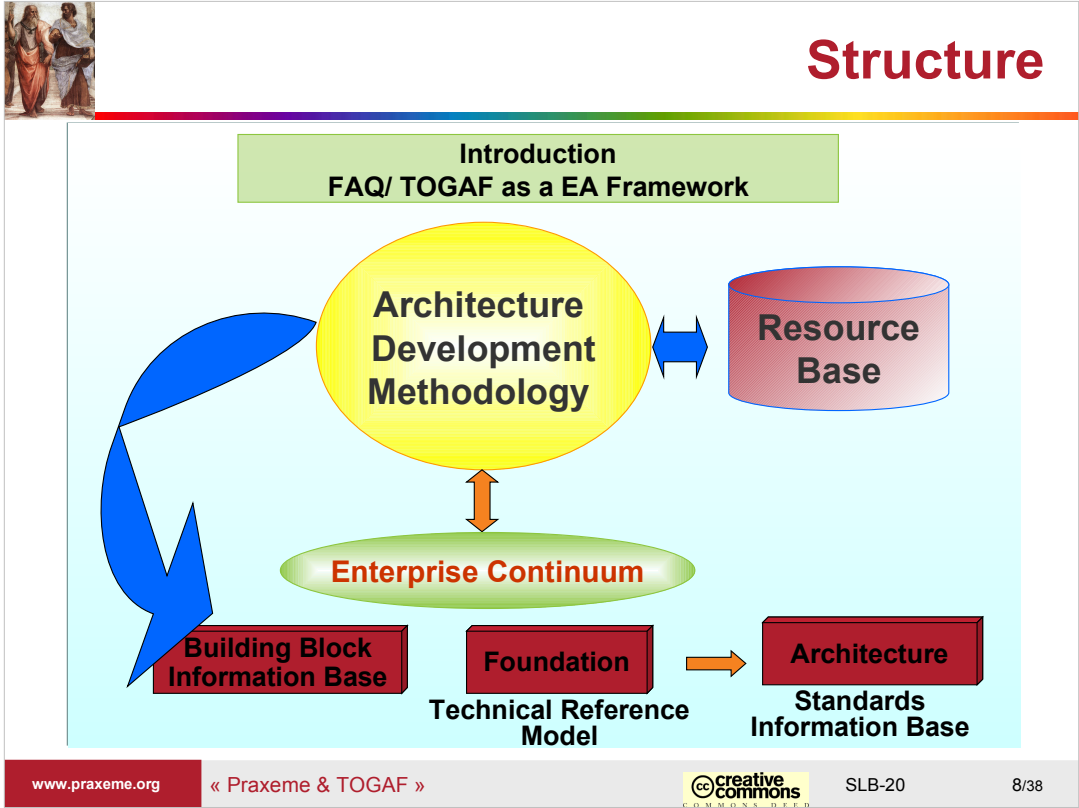
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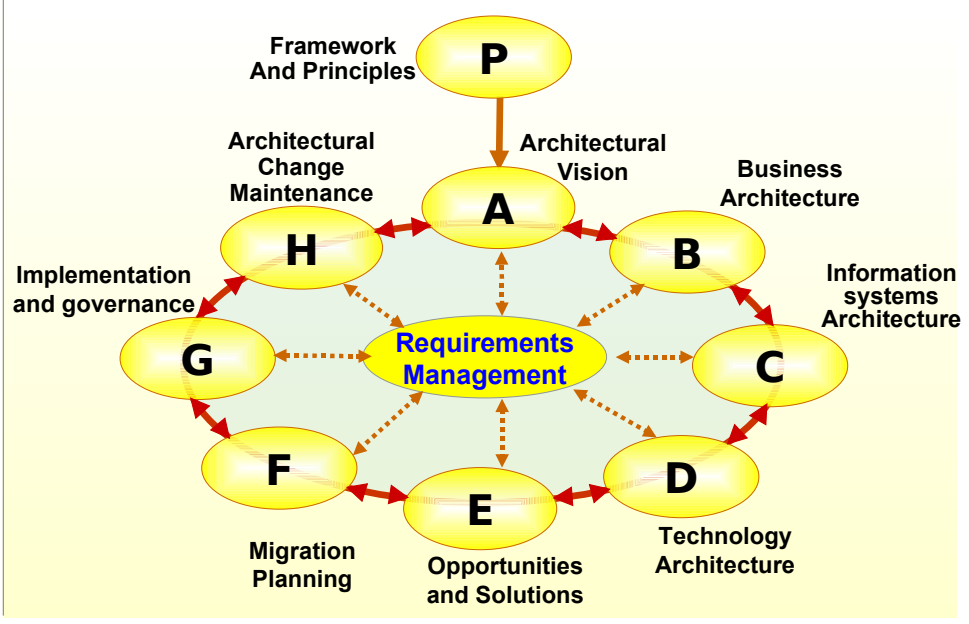
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- **Building blocks**
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# Architecture Development Methodology



ENTERPRISE ARCHITECTURE - A FRAMEWORK™									
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<i>Builder</i>	Ref - Segment/Table/etc. Rel - Pointer/Key/etc.	Proc - Computer Function IO - Screen/Device Formats	Node - Hardware/System Software Link - Use Specifications	People - User Work - Screen Format	Table - Execute Cycle - Component Cycle	Red - Codebase Mean - Access			<i>Builder</i>
DETAILED REPRESENTATIONS (OUT OF CONTEXT)	e.g. Data Definition 	e.g. Program 	e.g. Network Architecture 	e.g. Security Architecture 	e.g. Timing Definition 	e.g. Rule Specification 			DETAILED REPRESENTATIONS (OUT OF CONTEXT)
<i>Sub-Constructor</i>	Ref - Field Rel - Address	Proc - Language Stmt IO - Control Block	Node - Address Link - Protocol	People - Message Work - Job	Table - Instance Cycle - Machine Cycle	Red - Sub-codebase Mean - Step			<i>Sub-Constructor</i>
FUNCTIONING ENTERPRISE	e.g. DATA	e.g. FUNCTION	e.g. NETWORK	e.g. ORGANIZATION	e.g. SCHEDULE	e.g. STRATEGY			FUNCTIONING ENTERPRISE

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### Critique

#### Les apports

Un cadre complet

#### Les limites

Une coloration fortement informatique

Données, fonctions

Conséquence = réduction sur la représentation

Les catégories sont posées *a priori* et non justifiées

Une inflation en nombre de modèles

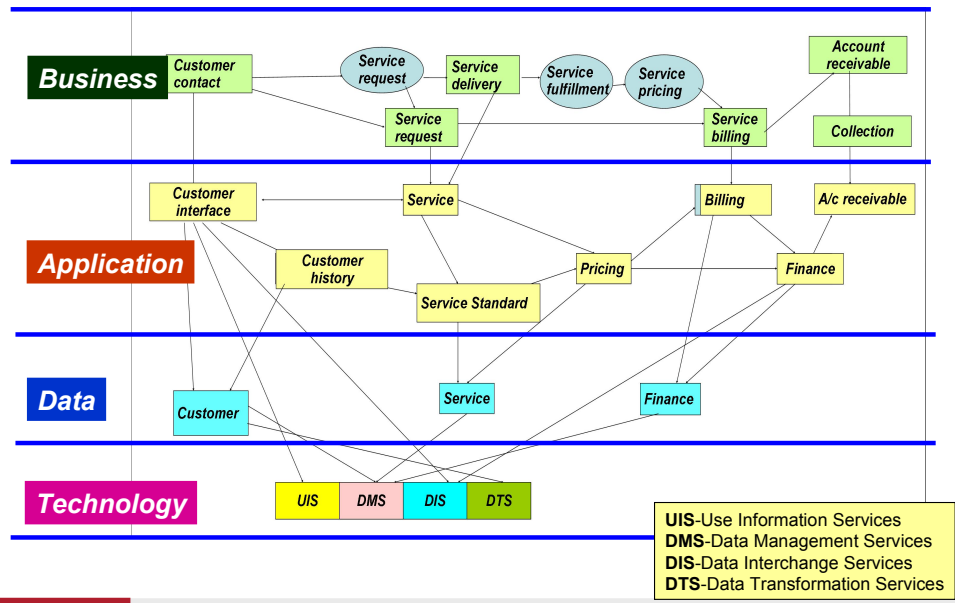
Par croisement de deux critères

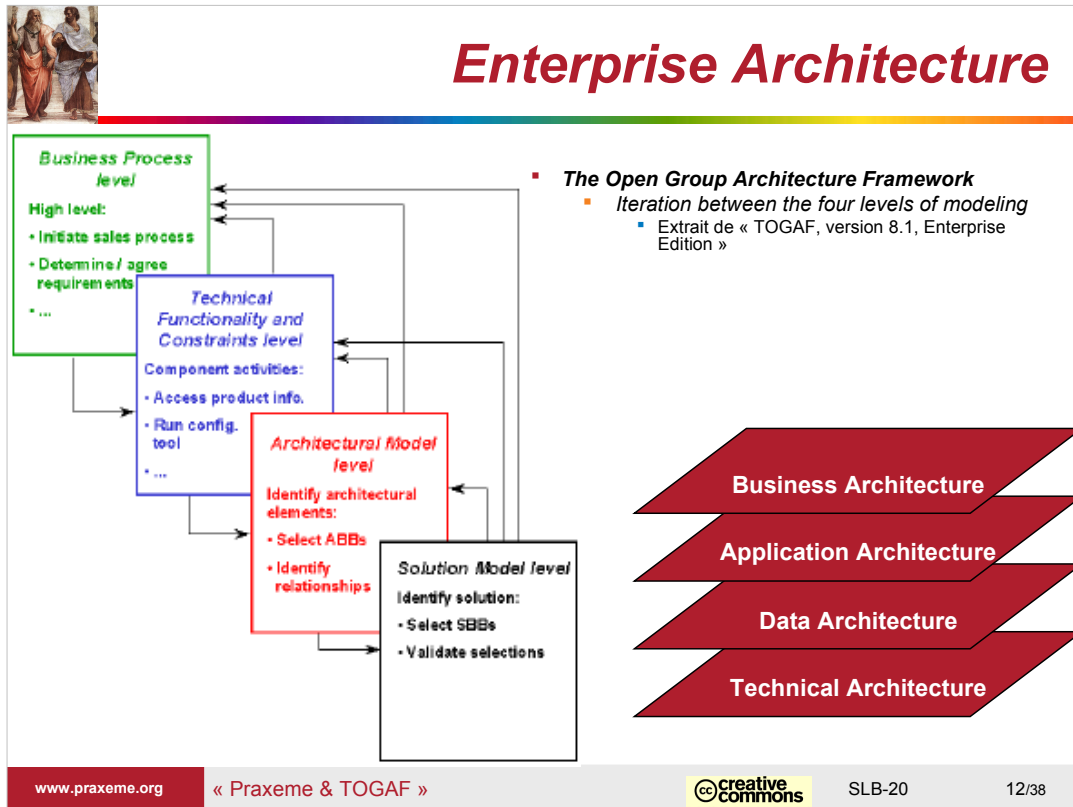
L'effet pervers des matrices...





# Levels of representation





Le courant *Enterprise Architecture*, sans trop insister sur les modèles, ressent le besoin de séparer les représentations. Les plans de représentation, généralement au nombre de quatre, révèlent :

- un flottement théorique (les plans peuvent différer d'une méthode à l'autre) ;
- une orientation qui reste très informatique.

Par ailleurs, ce courant n'a pas encore pris en compte les avancées d'UML et de MDA. Le niveau souvent très général auquel se situe les pratiques d'EA explique le peu de rigueur des représentations utilisées. De ce fait, se pose le problème de l'ajustement entre la grande vision de l'architecte d'entreprise (ou de l'urbaniste de SI) et les modèles détaillés nécessaires au niveau des projets.

Des travaux de rapprochement sont en cours.

## 2



## The role of methodology



- **Methodology comprises three axes**
  - Praxeme and TOGAF are situated in this space



## A universe in three dimensions

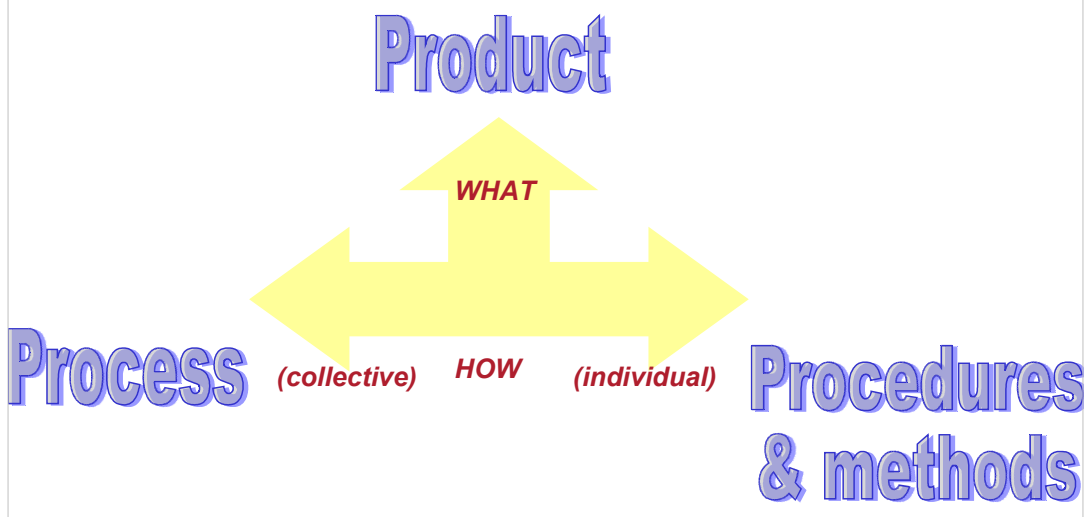
- **WHAT?**
  - What are we building or transforming?
  - What object do we want to produce or change?
  - What are the objects it consists of?
- → Product
- **HOW? (collectively)**
  - How can we organize our action?
- → Process
- **HOW? (individually)**
  - How can I proceed to do my work?
- → Procedures & methods

# PRO3



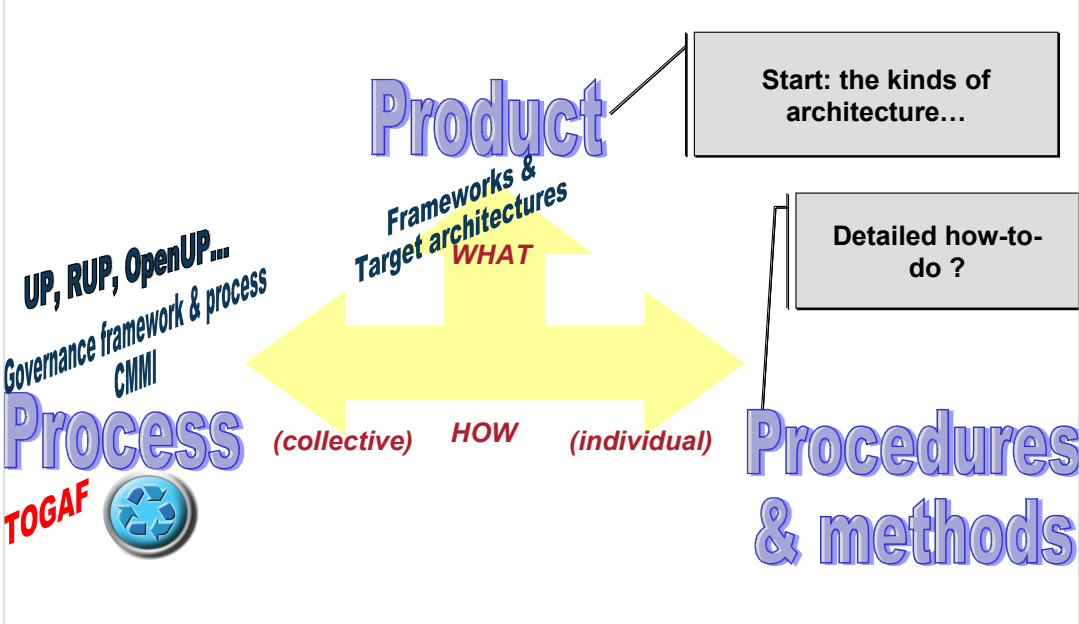
# The three dimensions of methodology

▪ Cliquez pour ajouter un plan





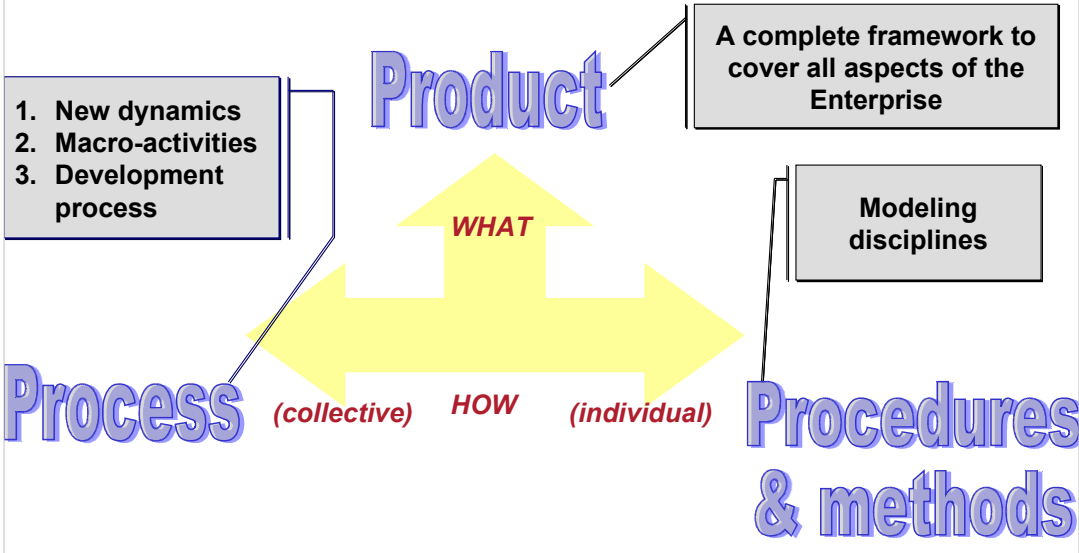
# Position of current assets





# The main contribution from Praxeme methodology

▪ Cliquez pour ajouter un plan





## “Product”: What is to be represented?

- **We want to model the “Enterprise System” before acting on it**
  - Which models do we need?
  - How can we ensure a comprehensive description of this complex system?
  - How to build a check-list of information to seek for and decision to make?
- **First questions in order to lay the groundwork**
  - Also: how to interassociate, link, trace and so forth all the artefacts?





## “Product”: the shift of paradigm

- What must change in our mindset?
  - How should we perceive things in order to facilitate our work?
- 1. Separation of concerns as an inescapable principle**
    - An upper level of abstraction
      - .../...
    - An intermediate level
      - .../...
  - 2. New categories are used to perceive the real and design the solutions**
    - .../...

## 3



## Présentation de Praxeme



- **The « Product » dimension**
  - Reference framework
    - Aspects
    - The information system Topology



## An upper level of abstraction

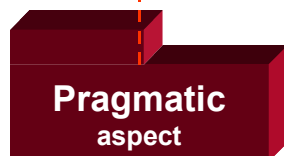
- **Current state**
  - The highest description of the business is in terms of process, activities...
    - This aspect of the business is prone to variation
    - Organization changes frequently
    - So, it's hard to converge on this aspect
- **Next step**
  - There is an aspect above the organization and processes
  - We call it the semantic aspect
    - Conceptual
    - We can model the core business knowledge
    - This model will be naturally shared



## An upper level of abstraction: conclusion



refers to



- **Core business knowledge**

- “Business objects”
- → largely sharable, quite universal

- **Organizational particularities**

- Process, use-cases, role...
- → adaptation



## An intermediate level of abstraction

- **“Semantic” and “pragmatic” aspects describe clearly the business...**
- **...but these representations are far from the software domain**
  - Too complex
  - Too fuzzy
  - Too coupled
- **The information system must match to these upstream aspects...**
- **...but obey other kinds of constraints**



## An intermediate level of abstraction (cont.)

- **We must be able to discuss the system structure with business decision-makers**
  - In the context of governance, decision-makers need a clear vision of the software and its evolution
    - This vision cannot be expressed in terms of technology
- **The “logical” aspect provides all of the actors – business & IT – with an intermediate representation of the IS**

**An intermediate level of abstraction:  
conclusion**

**Semantic aspect**

**Logical aspect**

**Pragmatic aspect**

- **A way of reconsidering the business and placing it in a structure**
  - Prefigures the software

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## How to represent things?

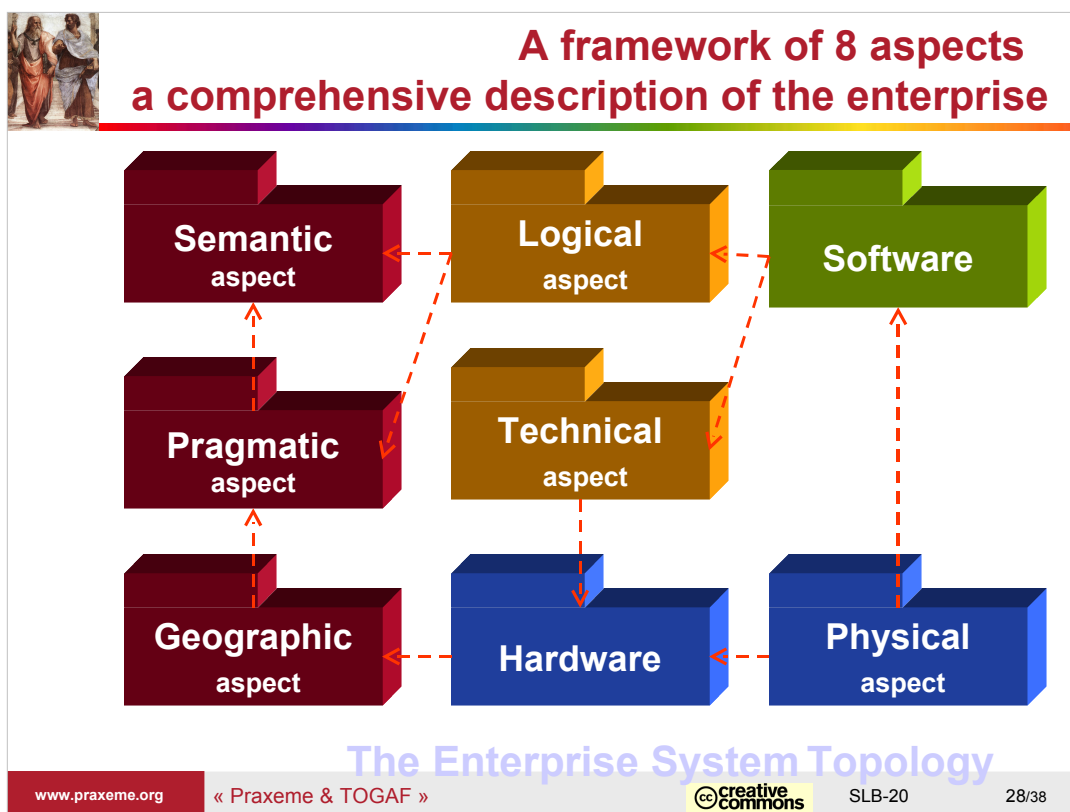
- Representation categories depend on “Aspects”
- **“Pragmatic” aspect**
  - Usual and classical approach based on action, process, use-case...
    - Nothing new except it refers to the semantic model
- **“Semantic” aspect**
  - We have to get rid of the “data *versus* process” dichotomy...
  - ...and adopt the object-oriented approach
    - This approach is closer to “real life” and “natural” representation





## How to represent thing? (cont.)

- **“Logical” aspect**
  - As an intermediate aspect, it can endorse different ways of seeing things, using metaphors
    - Functional architecture: a logical architecture based on functions
      - The usual way
    - City planning: a metaphor in itself
    - Component based architecture
    - SOA: a logical architecture based on the “service” metaphor



See explanation in the General Guide (ref. PxM-02), available on [www.praxeme.org](http://www.praxeme.org)

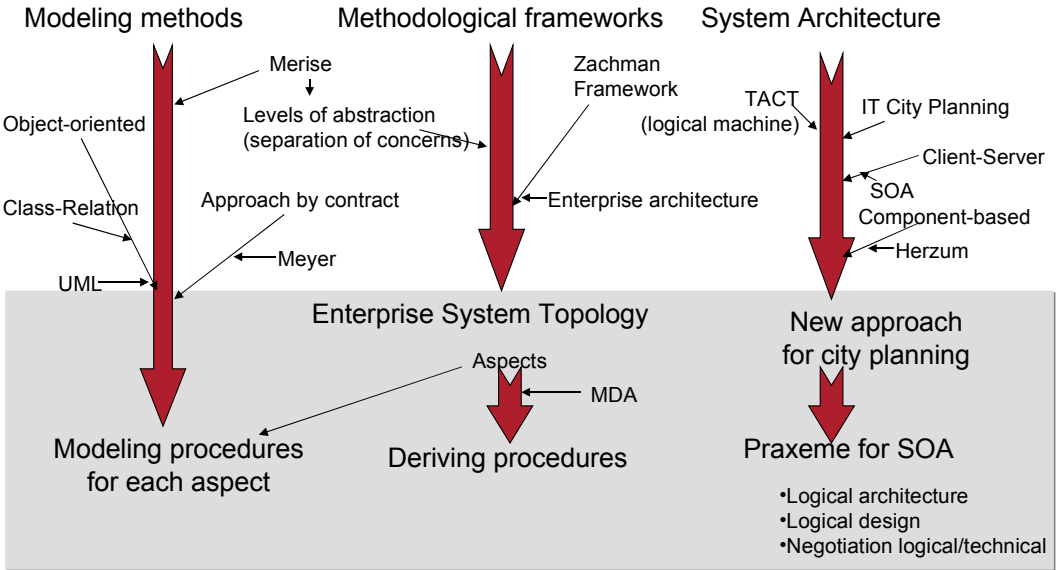


## The value-added of the Enterprise System Topology

- **Integrate many approaches and heritage**
  - Object, function, process, component, SOA
    - Each one in the right place
- **Establish an overall mindset addressing the whole Enterprise System**
  - A framework detailed in a real metamodel
    - Which pays a great attention to the links between all the categories
    - Which provides a clear specification to customize the tools
- **Theoretical foundation of the public method**
  - Providing many disciplines with procedures and guidelines



# Origins of Praxeme



4



## Interaction Praxeme / TOGAF



- **General interaction**
- ***Enterprise Architecture & Solution Architecture***
- **Reference framework**
- **In practice**



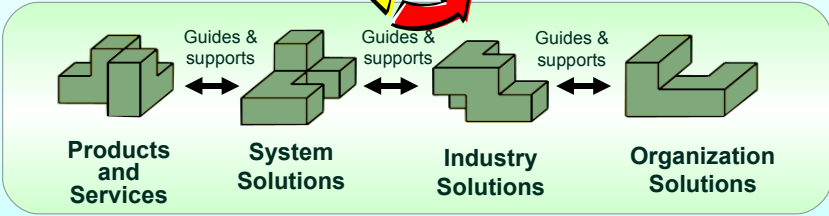
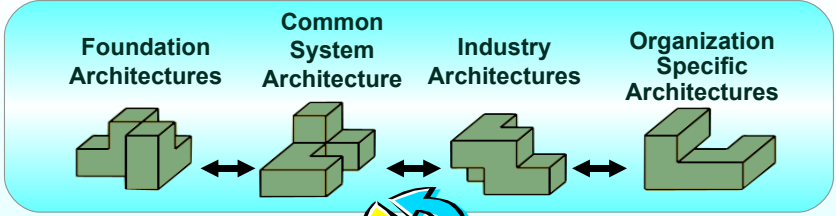
## Overall articulation

- **Principals**
  - TOGAF in essence is a set of structured activities
    - It applies to the process dimension
    - It gives little guidance to how to proceed
  - Praxeme's methods integrate simply with TOGAF
    - Proto modeling, modeling
  - Praxeme's meta-model rigidifies the operational approaches



# Enterprise and solution

## Architecture Continuum



## Solutions Continuum

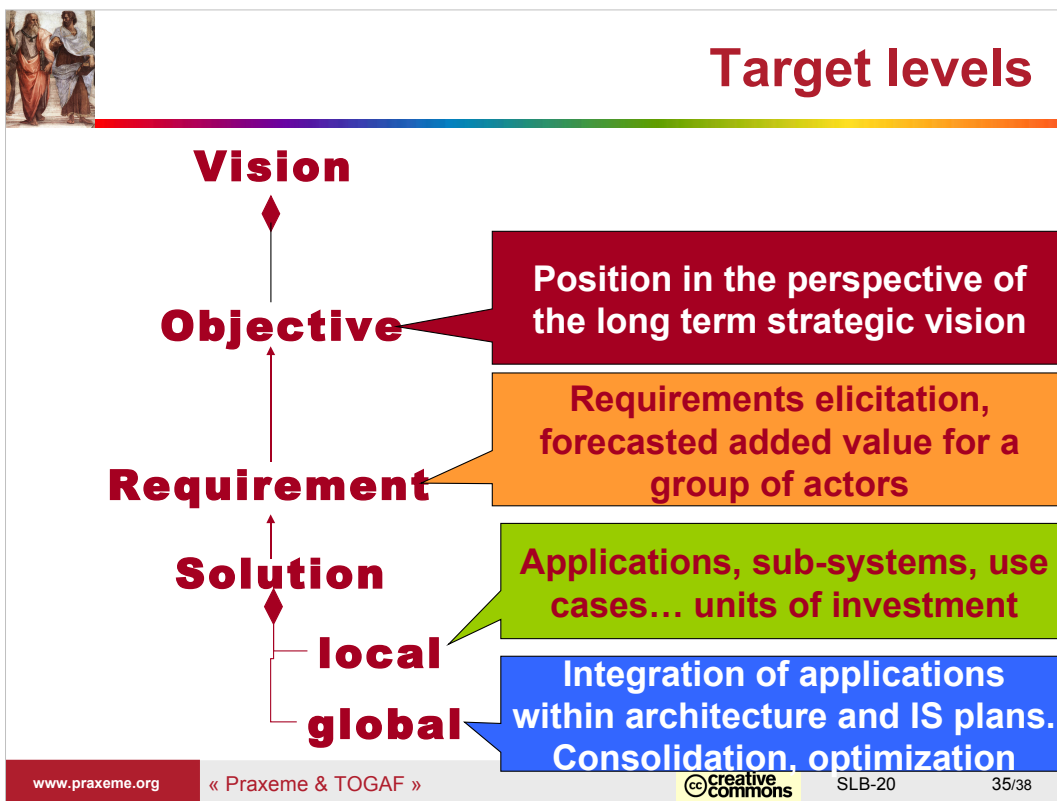
Source: Togaf 8 documentation Part III, The Open Group



## First difference

- **Different perspectives**
  - Enterprise Architecture *versus* Solution Architecture
    - Praxeme introduces the target levels
      - .../...
    - However Praxeme doesn't really recognize the differences between levels
      - It avoids the danger of becoming disconnected from the terrain
      - Architects take the system level decisions
      - Aspects guide the specific approaches to the system
      - The architecture plans structure the system
      - Strategy, architecture and conception form a continuum of identity and content
  - Even if the distinction between EA and SA stands.

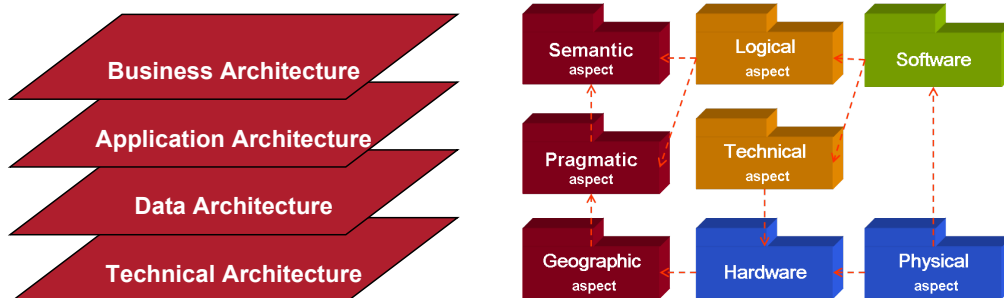






## The second difference

- In the « Product » dimension, the frames of reference differ
  - Four level in TOGAF
  - The Enterprise System Topology in Praxeme
    - Equivalences





## In action

- **The association is possible**
  - It is simpler if the phasing of TOGAF can be adapted to the aspects of Praxeme
    - This is not essential
    - It remains necessary to specify how the phases cover the aspects
    - As well as the degree of detail and depth attained in each phase
  - The strengths of TOGAF
    - Takes into account the business and strategy perspectives
    - Phasing
      - To retain if already applied otherwise it should be adapted to aspects
- **Points of interaction : Deliverables**
  - The unit where the articulation manifests



Meaning in  
action



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« Praxeme & TOGAF »



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## Conclusion

- **Praxeme, an Enterprise architecture**
  - Public domain and open
  - Based on standards
  - Supported by the public and private sectors
- **It can be used with a *framework* like TOGAF**
- **For more information**
  - The site of the *Praxeme Institute*
    - [www.praxeme.org](http://www.praxeme.org)

**It is essential to cover the whole chain of activities and to remain open**

Le site publie les guides méthodologiques et une partie du corpus de la méthode, notamment, le « Guide de l'aspect logique » qui détaille les procédés pour SOA.

Il est possible de s'inscrire également à une liste de diffusion qui permet de se tenir informé des principaux événements publics, liés à la méthode Praxeme.