



Initiative for an open method

« Theory without practice is useless; practice without theory is blind. » Immanuel Kant

Enterprise methodology

An approach to multisystems

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Protection Reference

SLB-27

Version





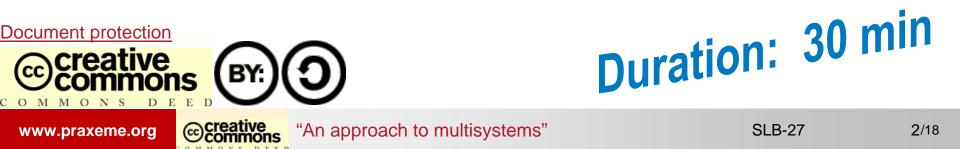
Presentation objective

Objective

Introduce the contribution of the open method in matters of complex system architecture

Topics

- Enterprise architecture and transformation
- Enterprise System and its aspects
- Convergence & interoperability







1. Situation

2. Methodological Framework

3. Application to multisystems: the convergence approach

4. Impact on the management of systems



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Situation

Case study: AXA Group

- 70 companies, each one equipped with its own information system
 - 155,000 employees+ distributors and partners
 - ~12,000 people in IT

Challenges

- At company level
 - Master the complexity
 - Open the system
 - Generalize "multi-access"
 - Evolve towards digital business
- At group level
 - Converge, rationalize and innovate



- "The Enterprise System is the Enterprise that perceives itself as a system."
 - Cf. Enterprise Transformation Manifesto
 - http://www.enterprisetransformationmanifesto.org



- Tenet
 - Promote a rational and holistic approach to think about and design the enterprise

Complexity versus complication

- "The complexity of the Enterprise System is both a strength and a risk."
- "Complication is unnecessary and artificial complexity, generated and accumulated through the Enterprise's history."





Methodological Framework

If enterprises are deemed complex systems, how should we address them?

- What should be represented?
- How should we deal with the amount of information to be collected and the decisions to be made?

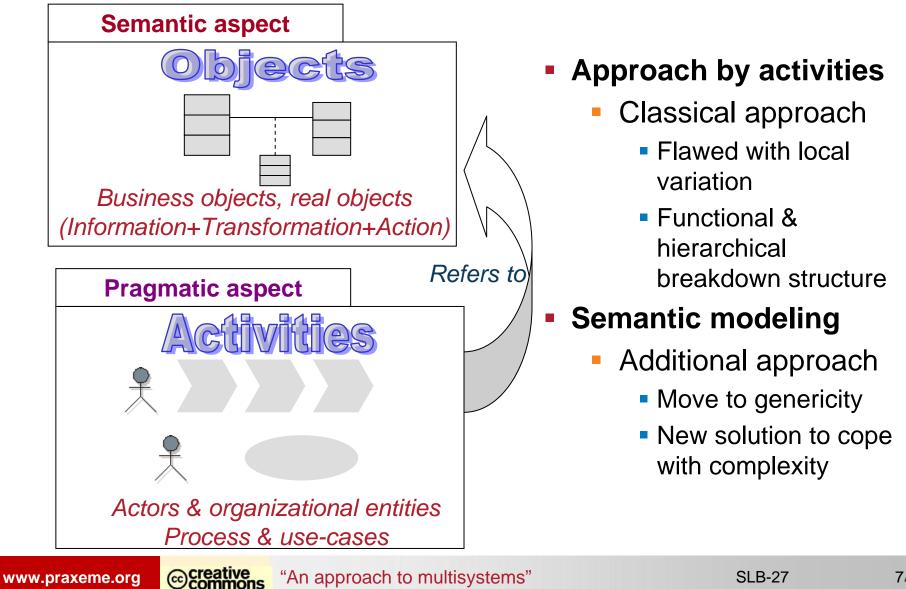
Notion and value of a methodological framework

- "Separation of concerns" principle
- Mindset related to every framework



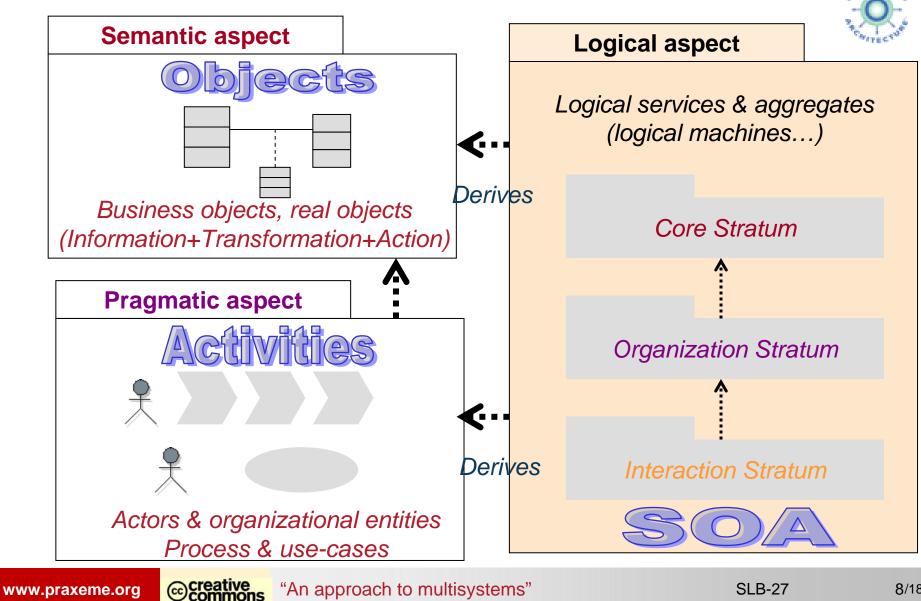


Business: the "right" description





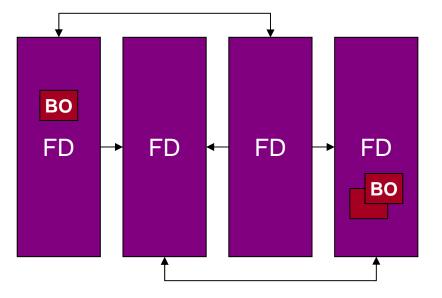
Software: the optimal structure





Logical architecture: the change

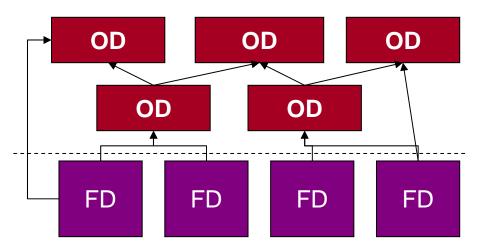
Caricature of an architecture based upon functional approach



Logical blocks take charge of functional domains which structure the pragmatic model.

Important dependencies or redundancies stem from this, as the same business objects are used inside many functional domains.

Outlined logical architecture according to Praxeme method



Several logical blocks match with the object domains from the semantic model.

Dependencies obey topological constraints

•Between strata ("Business Core", "Organization", "Interaction")

•Coupling reduced,

•etc.

•No dependency between FD, unless special cases,

FD: functional domain **BO: business object**

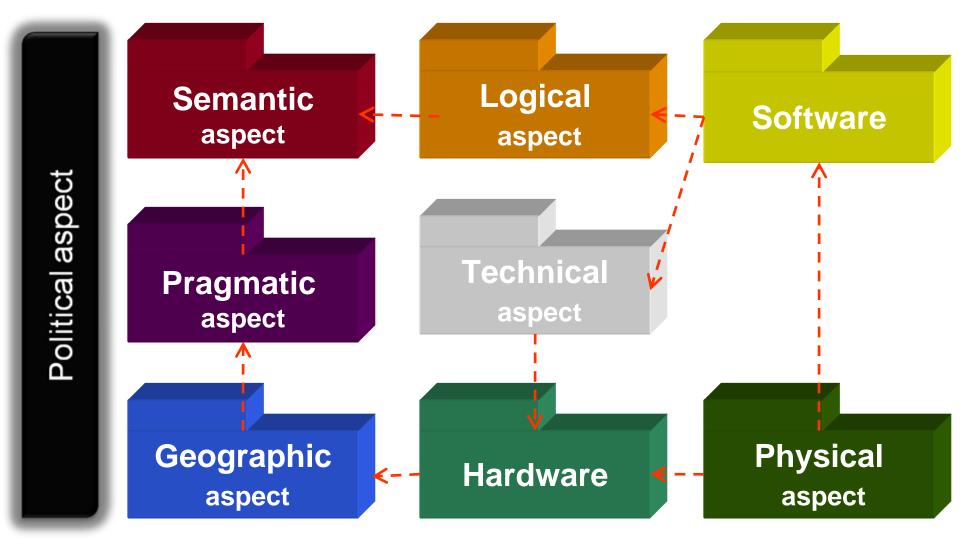
OD: object domain •etc. An approach to multisystems"

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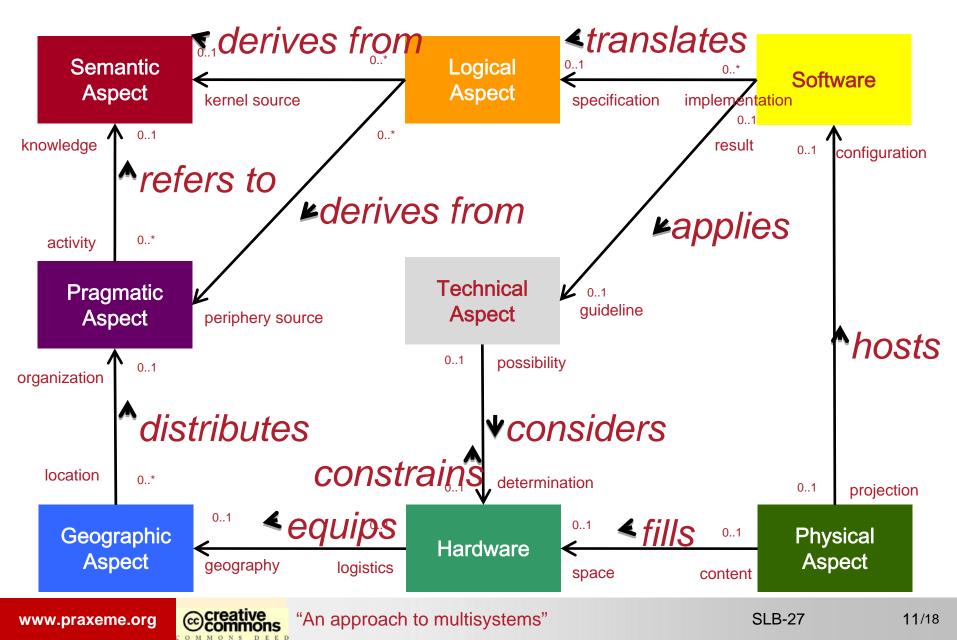
The Enterprise System Topology





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Dependencies between aspects



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The convergence approach

Given several systems...

- Companies of a group, federations
- Extended enterprise
- Partnerships
- Public administration
- Systems of systems
- ...how can we build a single, integrated and optimized system?
 - Rationalization
 - "Reap the benefits of being global"

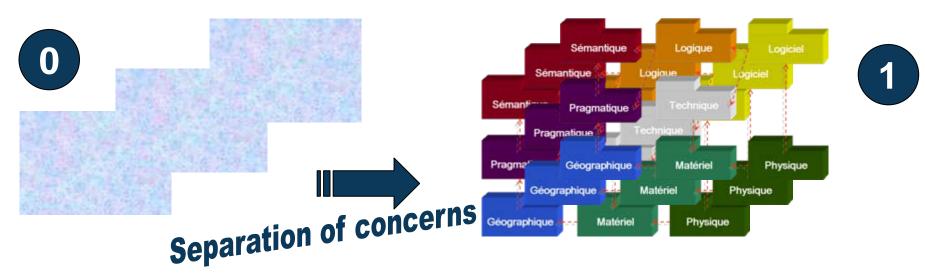




In the "Product" dimension

Current situation

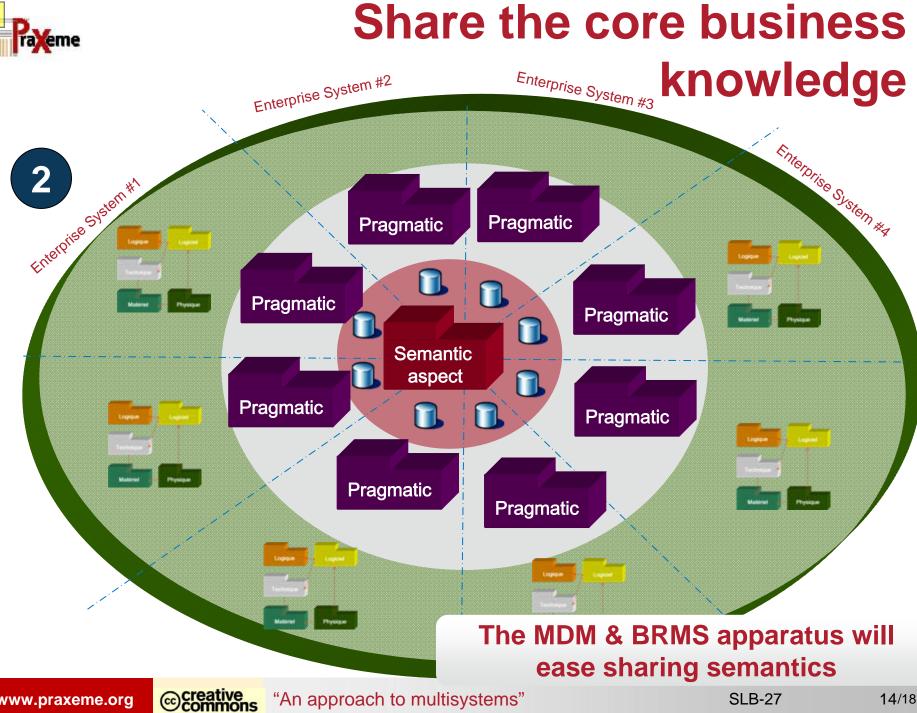
Confusion of various aspects in many systems



Next stage

Separated aspects

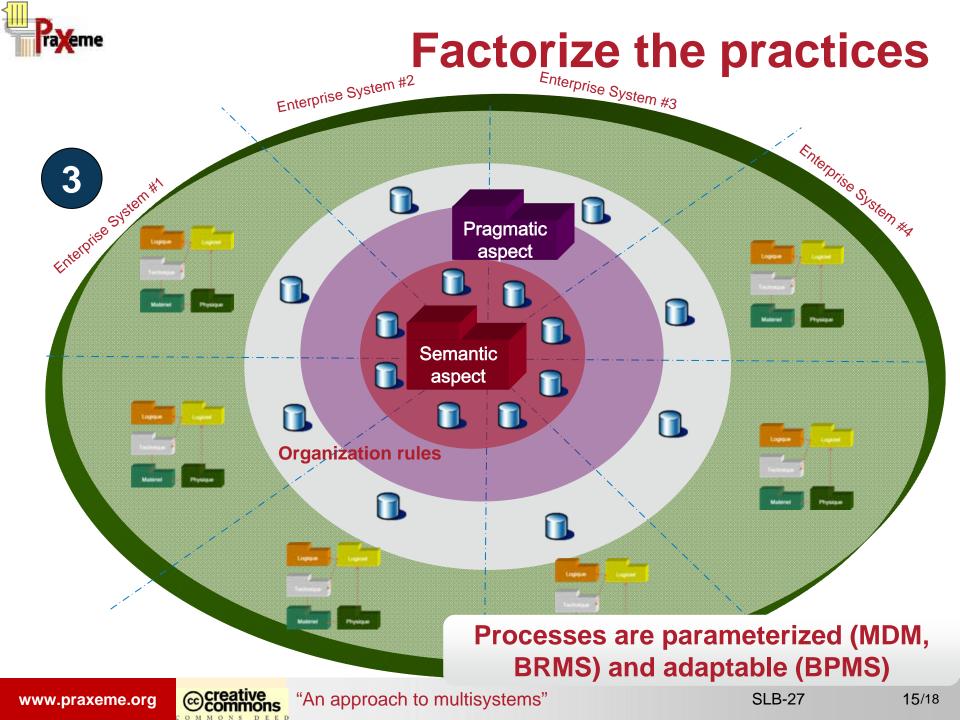
But persistence of multiple systems without integration



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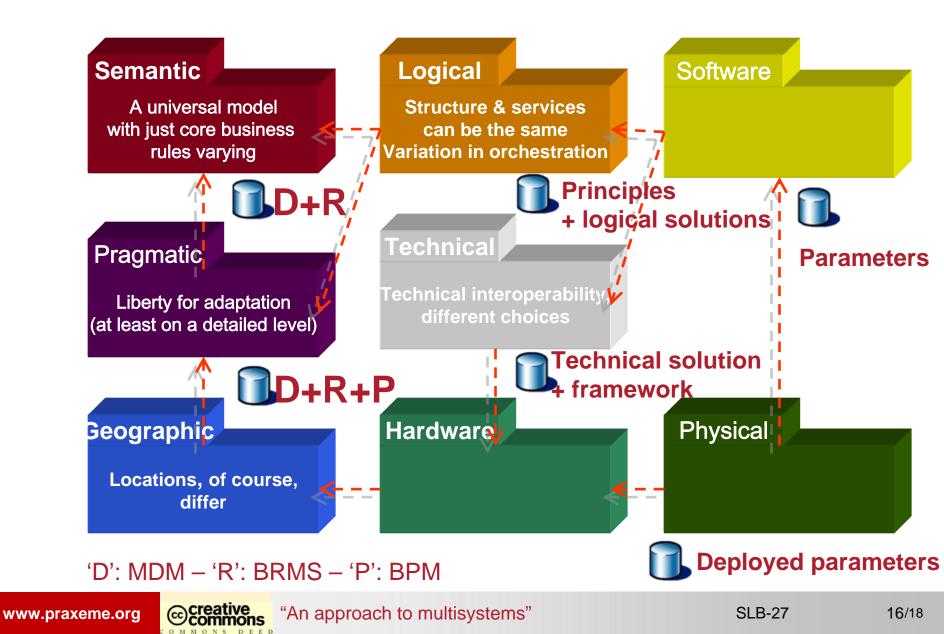
"An approach to multisystems"

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Isolate the variation points





Impact on the management of systems

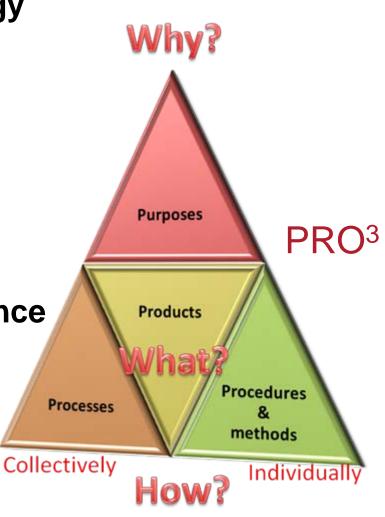
The three chapters of methodology

The PRO³ scheme

About rationality

- Rationalities acting inside the enterprise
- Limited rationality and its consequences
- As a result, what kind of governance do we need when coping with complex systems?
 - Including human factor and ideology

commons



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Conclusion

Summary

- A comprehensive approach to the Enterprise System
- An approach to multisystems
 - Which addresses the challenges of large organizations

Call for backing the initiative for an open method

- <u>http://www.praxeme.org</u>
- http://ww.enterprisetransformationmanifesto.org
 - The golden principles for improving enterprises while respecting society's fundamental values and interests
 - Expected role of the Academia
- Next public event
 - 2010 Symposium
 - December 17

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