





GORE/KAOS in the industry:

Some lessons learnt

Robert Darimont, PhD CEO, Respect-IT

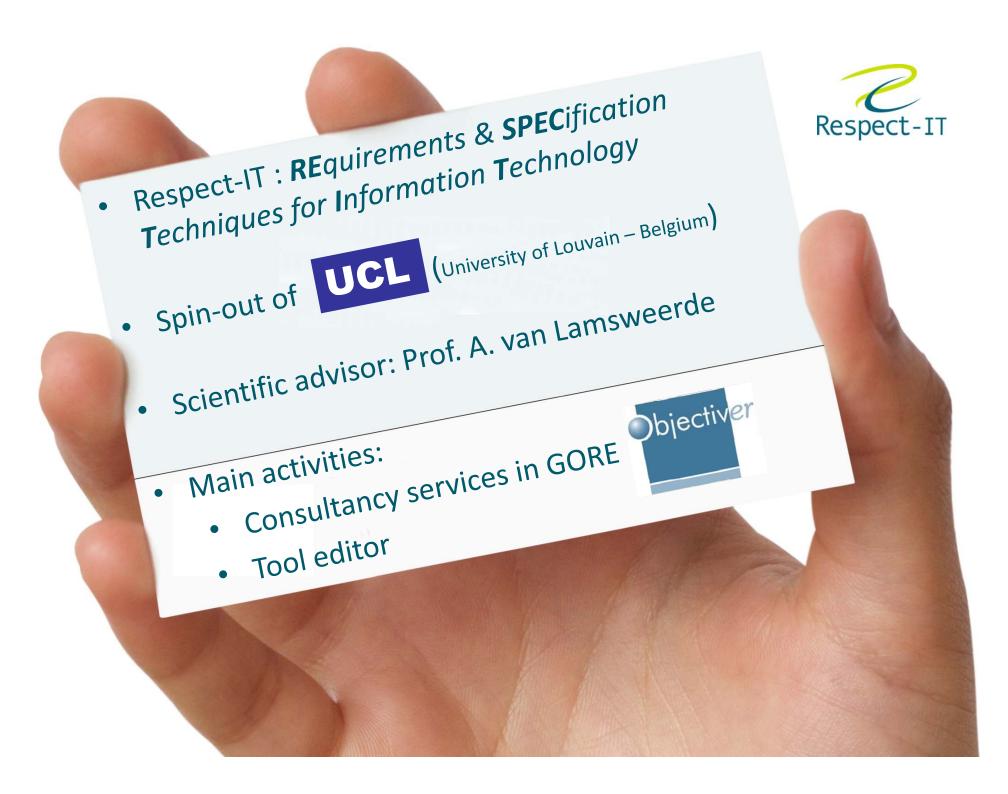
robert.darimont@respect-it.be





Contents

- Who's who
- GORE:
 - KAOS method: overview
 - KAOS in practice (elicitation, modeling, validation, documentation)
- Lessons learnt
 - GORE method
 - Requirements Document
 - Requirements Model
- Conclusion





Goal Orientation

- A RE method focusing on
 - the objectives
 - strategical
 - business
 - technical
 - + relationships
 - the agents
 - in the system
 - in the **environment**
 - → Responsibilities, Scope, Interfaces
 - the risks (obstacles, threats, ...)

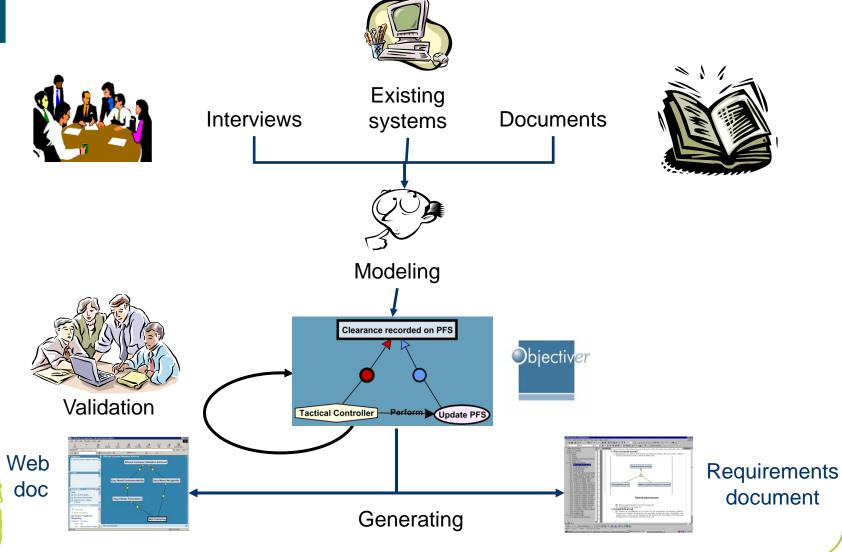
to build consistent and complete sets of requirements to think & communicate about requirements



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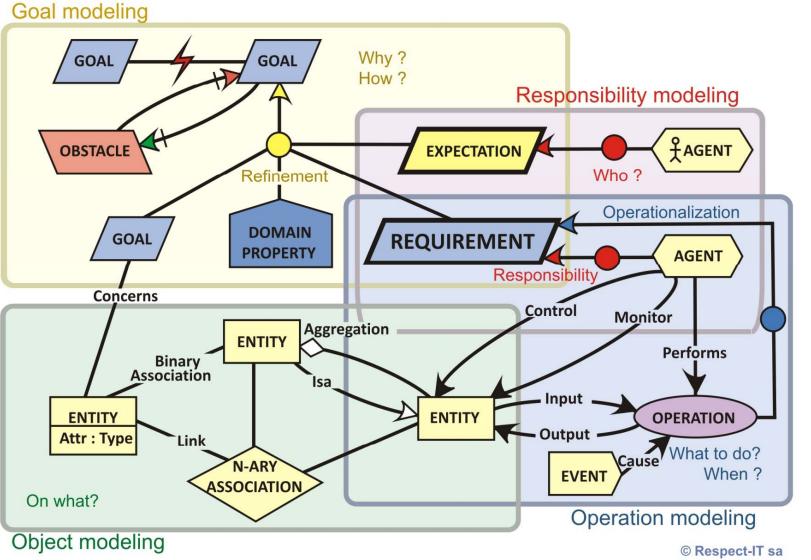
Requirements Document: Process





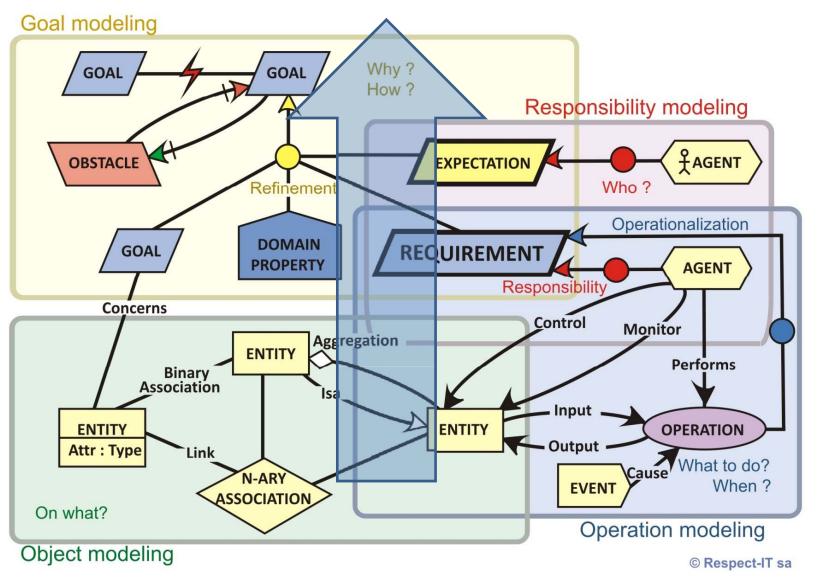
Goal Orientation (KAOS)





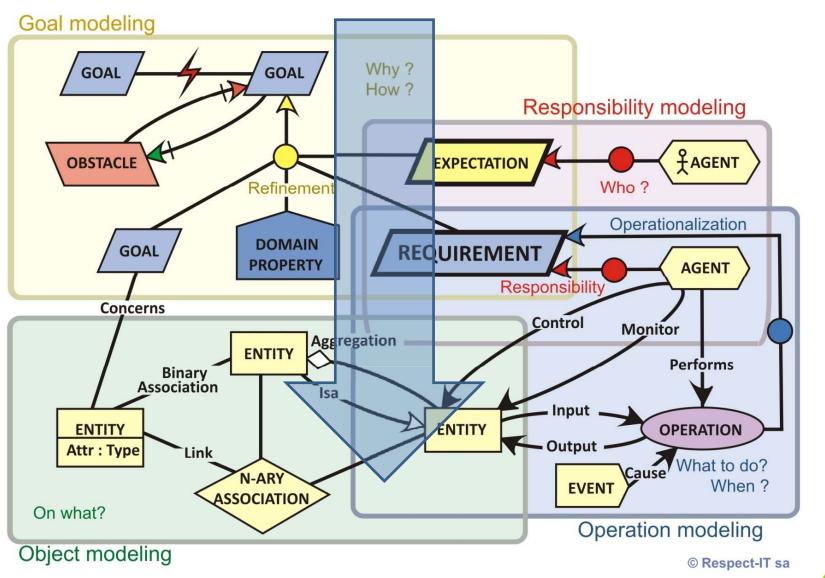
System As Is





System To Be









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Requirements Elicitation



On the other hand, some doctors will be reluctant to use prescription software only to be complaint with the law. The software must also provide functionalities that will: doctors need to be aware about undesired interaction between prescribed drugs; they need to know what are the drugs that comply with the hospital standards defined by the hospital pharmacy; they need to be warned about "out of bounds" amount of drugs prescribed and so on. Additionally, you must know that our hospital is near the border; we have a lot of patients coming from the other side of the

border and the drugs are completely different there. The software must therefore be capable of managing the drug classifications of both countries and of converting drugs into their equivalents in the other country (it is very useful for the prescription of the exit treatment that the patient has to follow at home after having left the hospital)...

Doctors assisted to prescribe drugs

Be warned about "out of bounds" amount of drugs prescribed

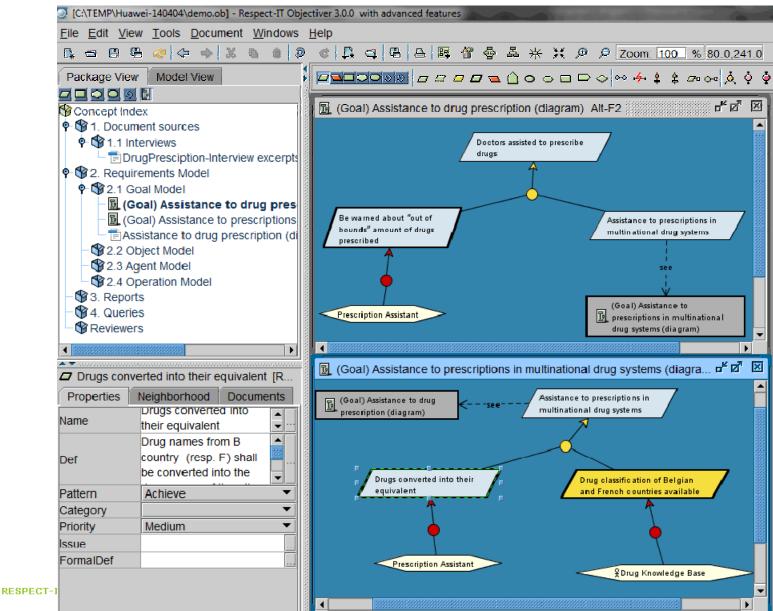
Drug classification of Belgian and French countries available

Drugs converted into their equivalent



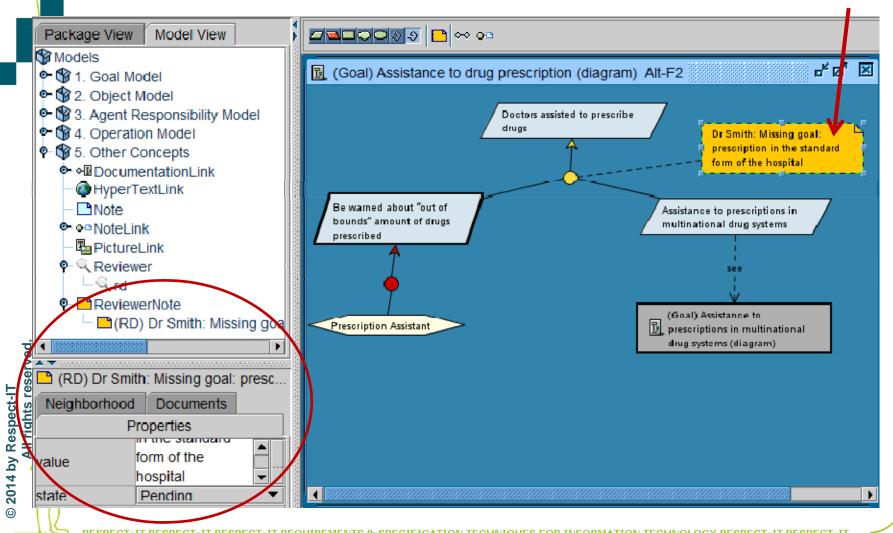
Requirements Modeling







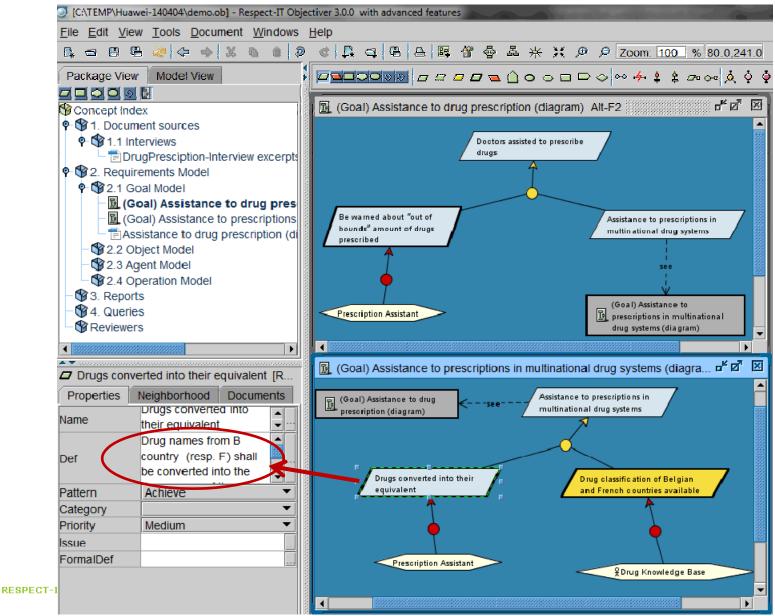
Review note





Requirements Documentation (

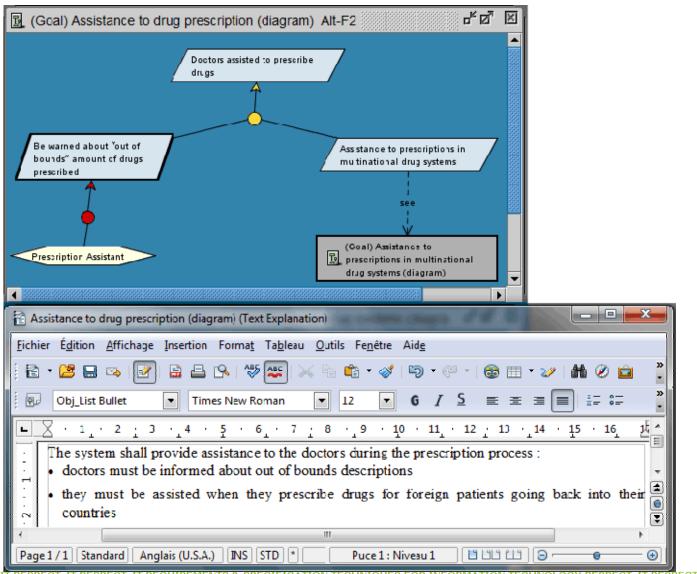






Requirements Documentation



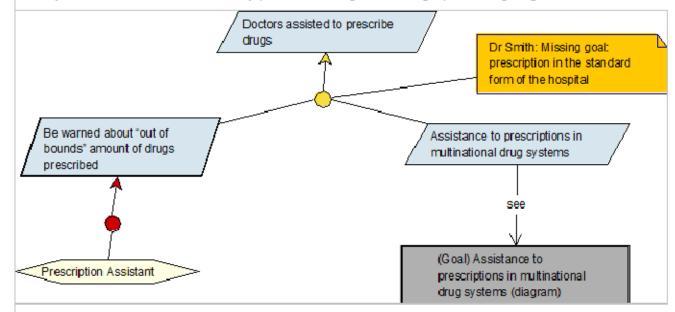




B1 Doctors assisted to prescribe drugs

The system shall provide assistance to the doctors during the prescription process:

- doctors must be informed about out of bounds descriptions
- they must be assisted when they prescribe drugs for foreign patients going back into their countries



Doctors assisted to prescribe drugs

Notes

G2 Assistance to prescriptions in multinational drug systems (page 6)

List of Requirements

Requirement	Agent	Page
E-1. Be warned about "out of bounds" amount of drugs prescribed Drug prescription out of bounds wrt drug posology shall be reported to the prescriptor.	Prescription	

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- fills the gap between business & IT
- improves the **understanding** among the stakeholders



provides reasoning continuity

$$(pb1 \rightarrow sol1=pb2 \rightarrow sol2 = pb3 \rightarrow sol3 = ...)$$

- connect business goals to technical requirements
- anchors the requirements into the **problem** definition





GORE: lessons learnt (II)

 Produces open-minded, problem-oriented requirements document (RD)

Ideal RD: problem description + constraints on any solution+project desiderata

Building a RD with GORE is like assembling a jigsaw puzzle: systematic but not rigid method

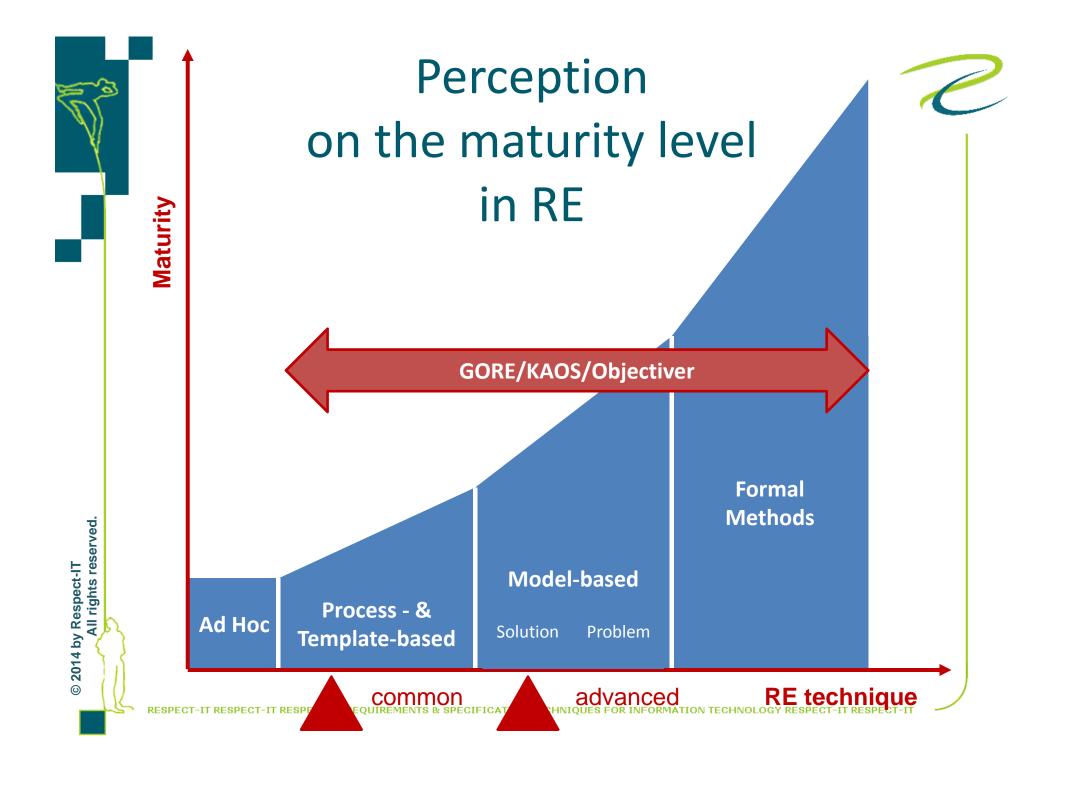






GORE: Lessons learnt (III)

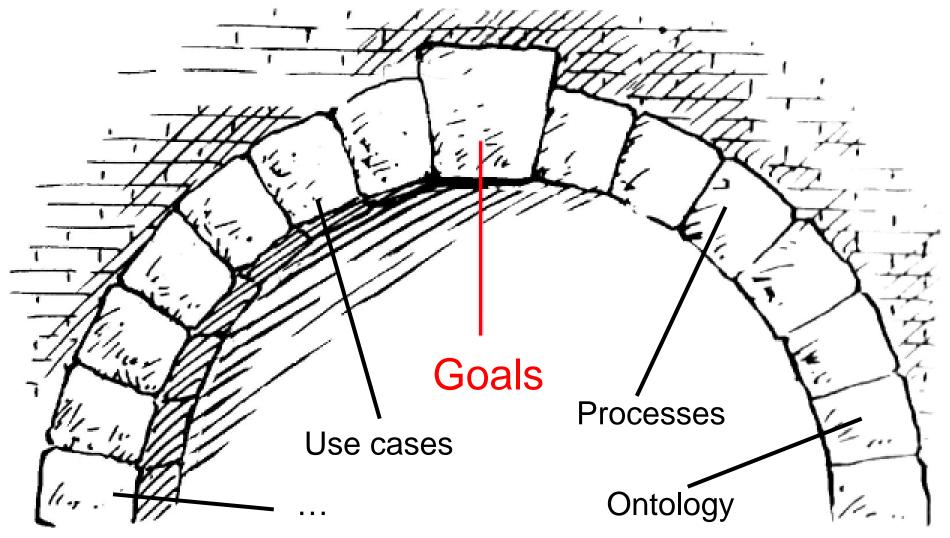
- Model benefits
 - A lot of by-products (traceability matrices, queries & checks, document generation, ...)
 - Goal model understandable by business people; most solution-oriented models not
 - help specify the problem correctly & completely
 - can be used in waterfall SLC or in agile SLC
- Model drawbacks
 - More difficult to elaborate (investigate behind the scene)
 - Takes time





Conclusion Goals: Keystone for RE









More information...

KAOS method





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