Objectiver

A power tool to engineer your technical and business requirements !

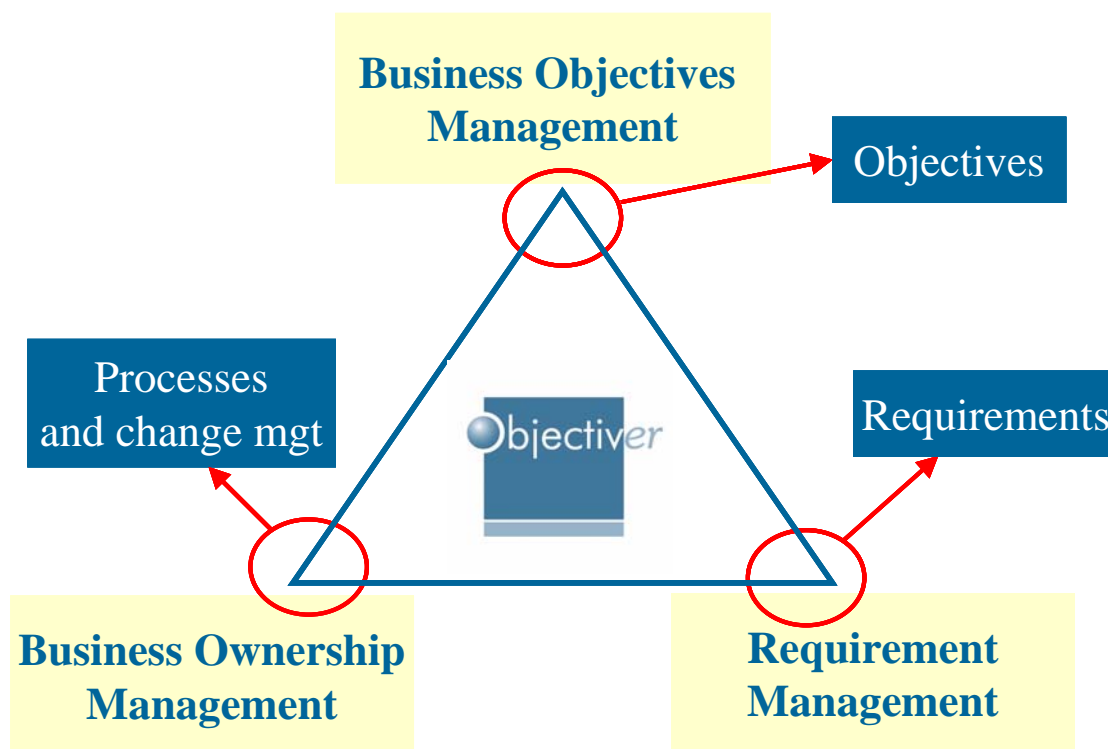**Respect-IT**

What is Objectiver ?

Objectiver is a Requirements Engineering tool to:

- ✓ Identify all of your projects requirements using a structured modeling approach
- ✓ Create models that take user agents and the system environment into account
- ✓ Represent user scenarios and model business processes and workflows
- ✓ Generate structured requirements documents

Objectiver relies on KAOS, the most prominent requirements engineering methodology developed so far.
This methodology gives a global and detailed view of a system, company or project, thanks to a systematic identification of the links between:

- ✓ the goals and objectives being pursued,
- ✓ the roles and responsibilities (of all involved people or automated systems),
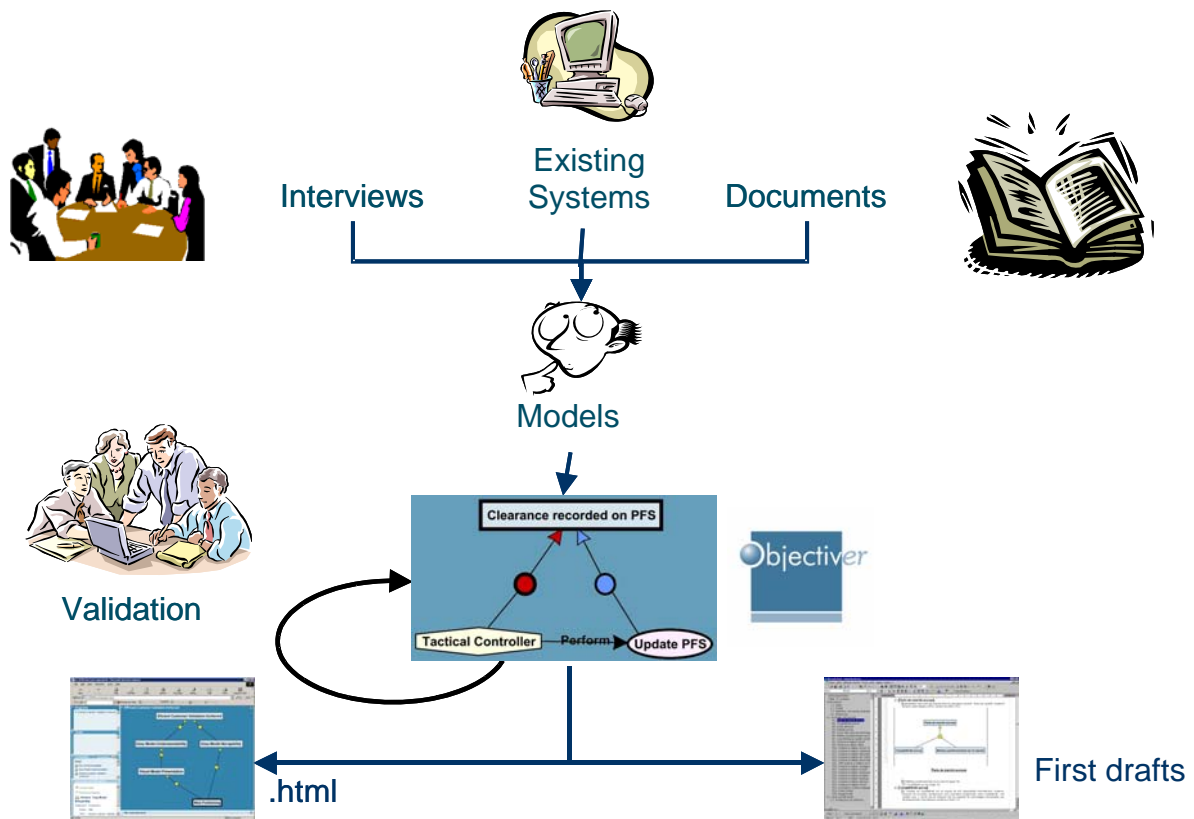- ✓ the processes and their priorities.

Business Objectives Management

Objectives

Processes and change mgt

Requirements

Business Ownership Management

Requirement Management

How to work with **Objectiver** in my projects lifecycle?

Objectiver is very flexible: it can be used at every moment of your projects' lifecycle and on various domains:

- ✓ **Requirements engineering**
- ✓ **RFP and RFQ management**
- ✓ **BPR and process modeling**

- ✓ **Business Planning**
- ✓ **Quality: CMM, ISO-9000**
- ✓ **Knowledge management**

Easy to understand and use by anyone, packaged with a web generation tool that permits to share your processes, goals, … with your employees, **Objectiver** shall quickly become the new reference tool within your organization.

Interviews   Existing Systems   Documents

Models

Validation

Clearance recorded on PFS

Tactical Controller   Perform   Update PFS

.html   First drafts

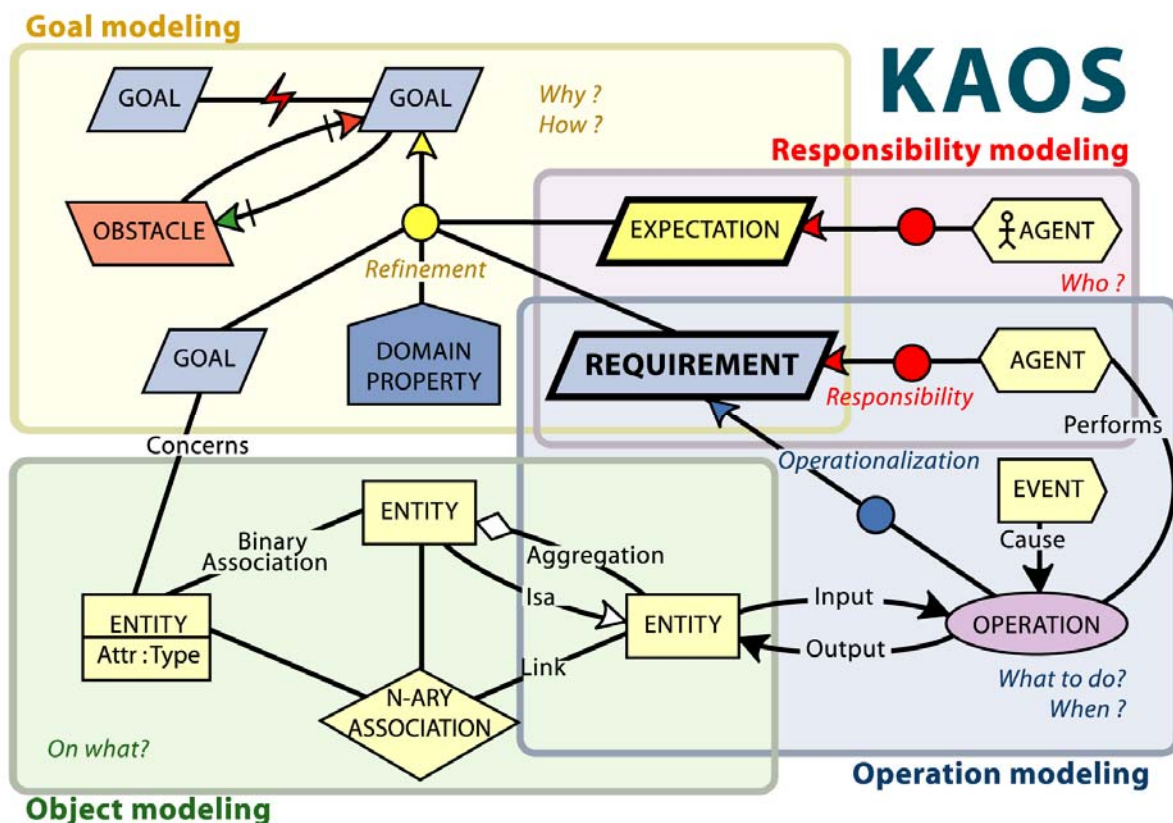# What is the methodology underlying Objectiver ?

This methodology formerly known as KAOS, is a goal driven approach.

This methodology provides a specification language for capturing why, who, and when aspects in addition to the usual what requirements.

Links between requirements are represented as well to capture refinements, conflicts, operationalizations, responsibility assignments, etc.
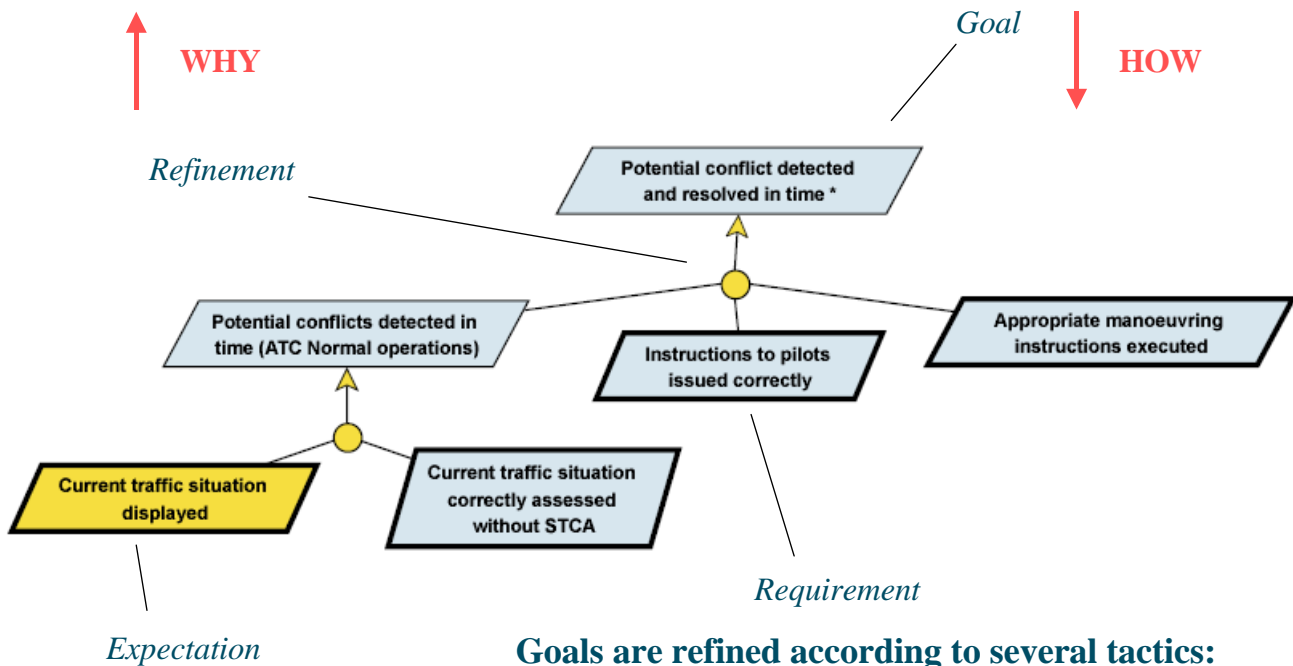
The method roughly consists of (i) identifying and refining goals progressively until constraints that are assignable to individual agents are obtained, (ii) identifying objects and actions progressively from goals, (iii) deriving requirements on the objects and actions to meet the constraints, and (iv) assigning the constraints, objects and actions to the agents composing the system.

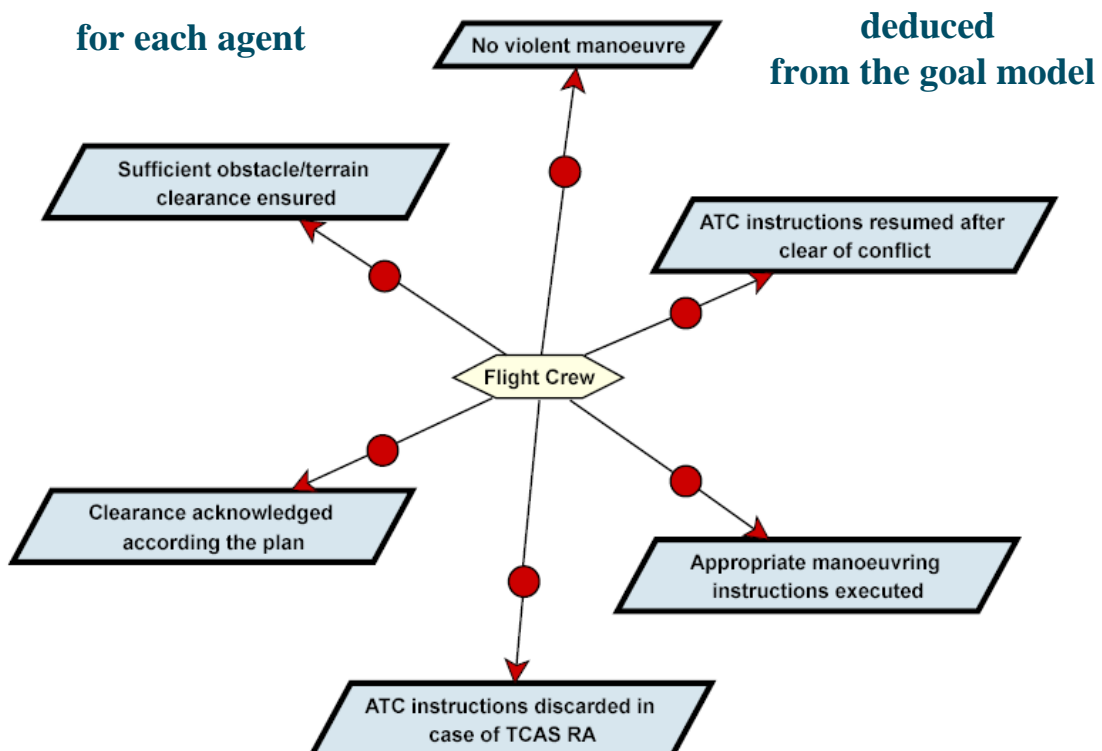Here after are shown the 4 different models of this methodology:

Objectiver

Goal model

WHY ↑
HOW ↓

Goal

Refinement

Potential conflict detected and resolved in time *

Potential conflicts detected in time (ATC Normal operations)

Instructions to pilots issued correctly

Appropriate manoeuvring instructions executed

Current traffic situation displayed

Current traffic situation correctly assessed without STCA

Requirement

Expectation

Goals are refined according to several tactics: agent-driven, case-driven, milestone-driven

Agent model

for each agent

deduced from the goal model

No violent manoeuvre

Sufficient obstacle/terrain clearance ensured

ATC instructions resumed after clear of conflict

Flight Crew

Clearance acknowledged according the plan

Appropriate manoeuvring instructions executed

ATC instructions discarded in case of TCAS RA

How to work with **Objectiver?**

Besides its core methodology, Objectiver is also recognized for the wide range of its application areas, its capability to facilitate communication among project stakeholders and the rigorous and systematic approach that is promoted through its use.

Objectiver 's main features are:
- ✓ Automatic generation of RFQ / RFP
- ✓ Goal driven requirements analysis
- ✓ Multiple views on documents with easy navigation
- ✓ Completeness and consistency checks
- ✓ Traceability inside models, source, output documents
- ✓ Queries

Model editor

Indexes

Property viewer

Diagram viewer

Text viewer

Concept references are hyperlinks.

Besides this, you also have possibility to publish a HTML report and/or .doc report:

Model Browser

Automatic document generation according to your standards or IEEE standards

For the model browser:

- ✓ Read-only HTML browser using Explorer and Adobe
- ✓ Intuitive navigation through the model
    - o Diagrams, hyperlinks, zooming and locating functions, …
- ✓ Hyperlinks to other documents
    - o Processes, procedures, templates, other deliverables, …
- ✓ Efficient tool, easy to use and to deploy, for:
    - o communicating about the model
    - o documenting knowledge (enterprise objectives, processes…)
    - o disseminating information through a team

For Report generation :

- ✓ Available for:
    - o Individual diagrams
    - o Set of diagrams grouped in "packages"
    - o Any selection of Objectiv*er* diagrams or texts
    - o Requirement documents based on IEEE standards

- ✓ Automatic generation of requirement documents
    - o Generation of internal Objectiv*er* document from the models
    - o Possibility to modify manually the table of content
    - o Export of the final document (RTF, PDF supported)
    - o Templates can be customized to dedicated standards

Besides Objectiver licenses, Respect-IT also delivers services (training, consulting, etc.) related to Objectiver.

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