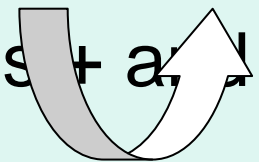
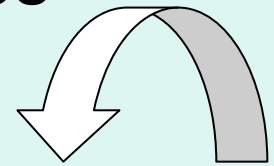


Olympe

- The context of its creation
- Farming System Decision for 1 farmer
- Farming System Decision for a group of farmers

Agricultural context

- Limit to individual decision-making
 - Markets
 - "Free access" to resources
- Importance of rules and their evolution
 - Evolution of Computation Procedures
 - Quotas
- Environment
 - Unmarketable Products : Externalities + and - .
- Hazards
 - Quantities & Prices



Creation context:

The decision-maker and Decision theory

- Impossibility to find Optimal solution
- But the decision-maker is not Economic Specialist. So, he has to move from
 - Full rationality
 - to
 - Limited and adaptability of rationality
 - Real to virtual Learning

Therefore, he needs:

- An existing solution ?
- or
- Help to build his strategy?

Creation context:

The Users 1

- Diversity of Users and of their constraints
 - Counsellors
 - Researchers
 - Teachers
- Diversity of Objectives
 - Individual Strategies
 - Consequences of the introduction of an innovation
 - Scenarios of regional evolution
 - Political definition of a common resource

Creation context:

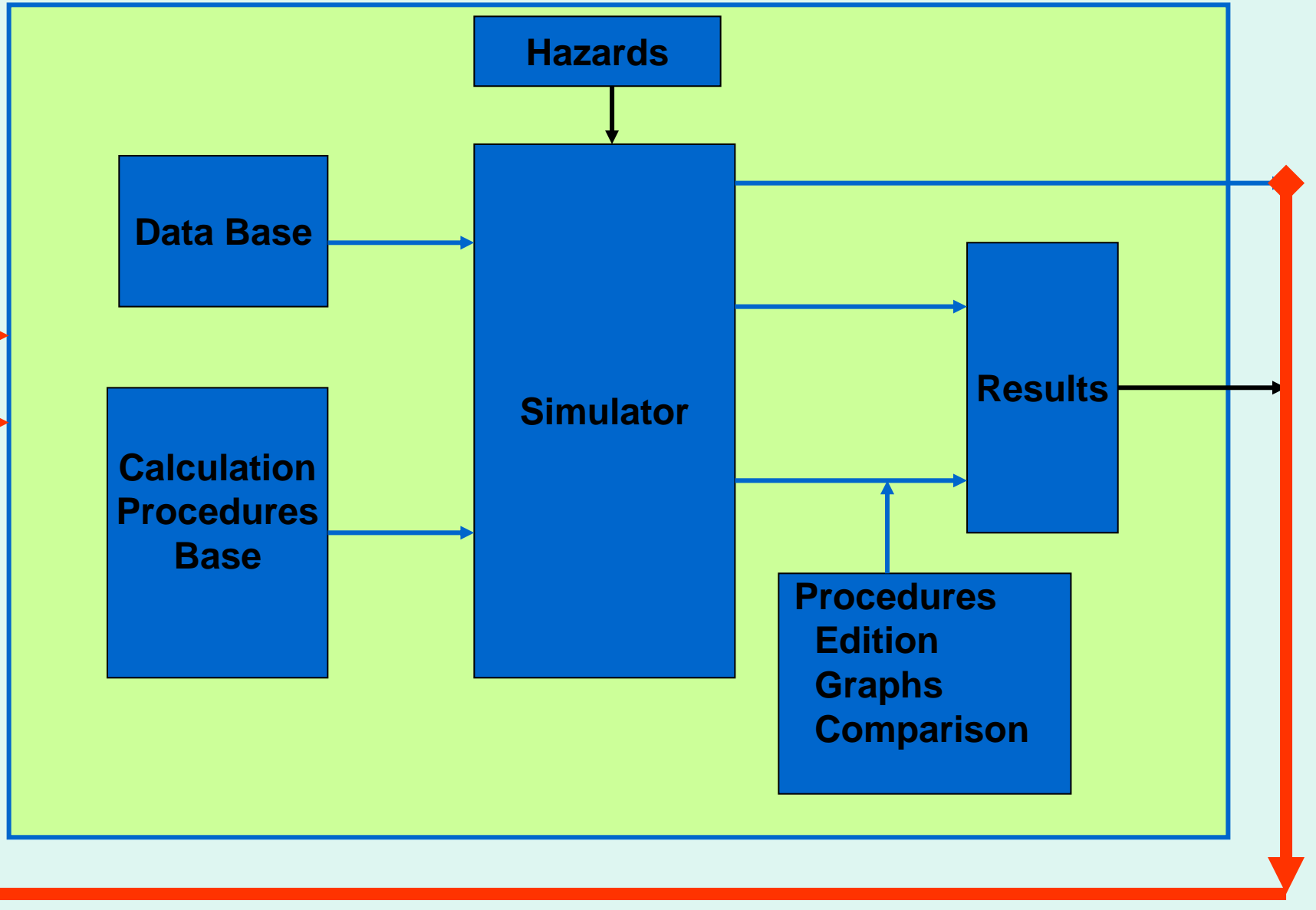
The Users 2

- Regularity of use of technical aspects
 - Simplification / detail
- Constraints
 - Duration, Cost
 - Personal objectives
- Working Methods
 - Personal Referential
 - Communication means
- Mobilisation of tools
 - Dialogue between Counsellor and Deciders
 - Group (Counsellors, Deciders)
 - Enterprise games (Deciders of different natures)

Creation context: Evolution of Techniques

- Opening to powerful computation means
- Multiplicity of available tools
 - Programming Languages
 - Data Storage
 - Office software (e.g. Ms Excel ...)
- Amount of researches giving concepts
 - **IT** : Computers and knowledge representation tools
 - Representation of individuals and their relations
 - > Coming out of collective behaviours

Olympe 1



Olympe as a Database

Inputs

Categories
Nature
Units
Prices

Outputs

categories
Nature
Units
Prices

Externalities

categories
Nature
Units

Working Periods

Dates
Availability

Crops 3 years

Q/ha/yr $Q=f(R)$

Margin, Advances to crops

Tree crops n years

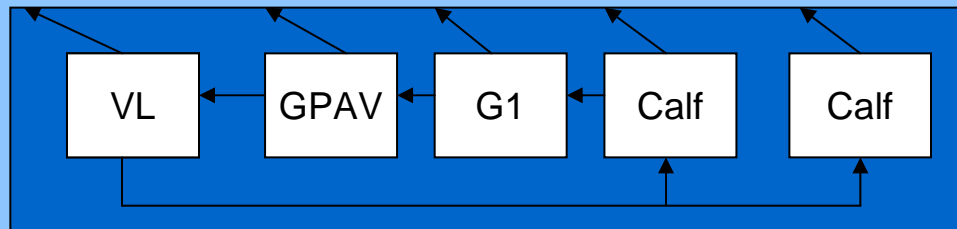
Q/ha/yr $Q=f(R)$

Margin, Production of Fixed Assets (e,f)

Animals

Categories
Added Values
Production
Needs

Movement of animaux



Numbers
Objectives

Olympe: Custom Procedures

Indicator: **item 1** **operator** **item 2**
result **+ - / ***
data
indicator
nombre

Total Premiums = Indicators:Premium:PAC+ Indicators:Premium:Others

Indicator: **IF (item1 operator comparison item2)** **Val1**
 ELSEIF (item3 op_Comp item4) **Val2**
 ELSE **Val3**

Payment PAC

If(Yr=2004)

Indicator:PAC:DPU + Indicator:PAC:Production Added

Elsel (Yr=2005)

Indicator:PAC:DPU + Indicator:PAC:Production Added*97%

Etc.

Olympe: The Outputs

Output forms (10 years)

Standards

Balance, CE, Accounts, Quantities (monthly accounts)

Detail: Fixed Assets, Finance, VAT

Working Calendar

Custom (from 10 lines to multi-pages)

Graphs

For 1 or N data upon request

Custom for one series of data

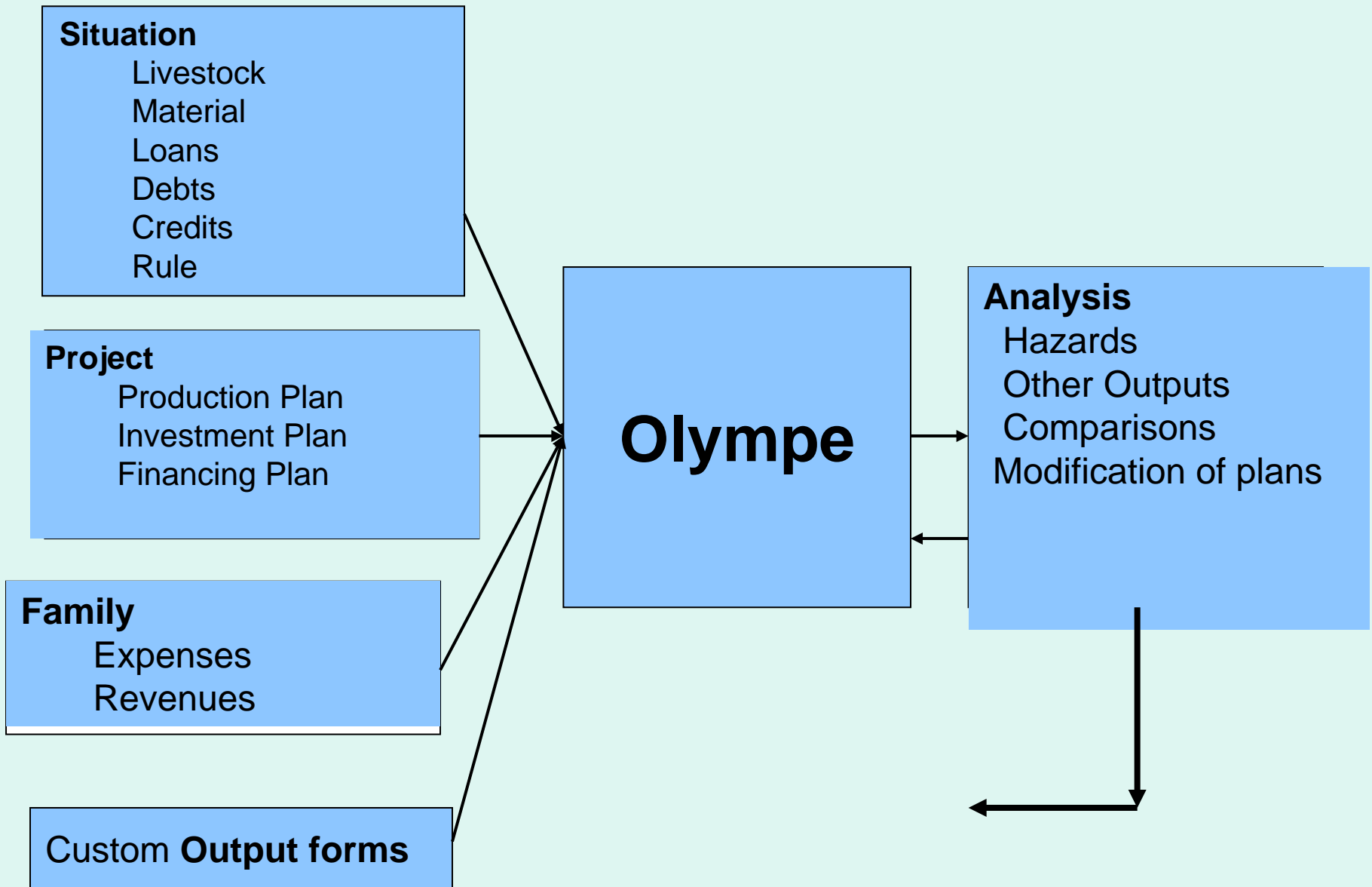
Comparisons between various simulations

For 1 or N data upon request

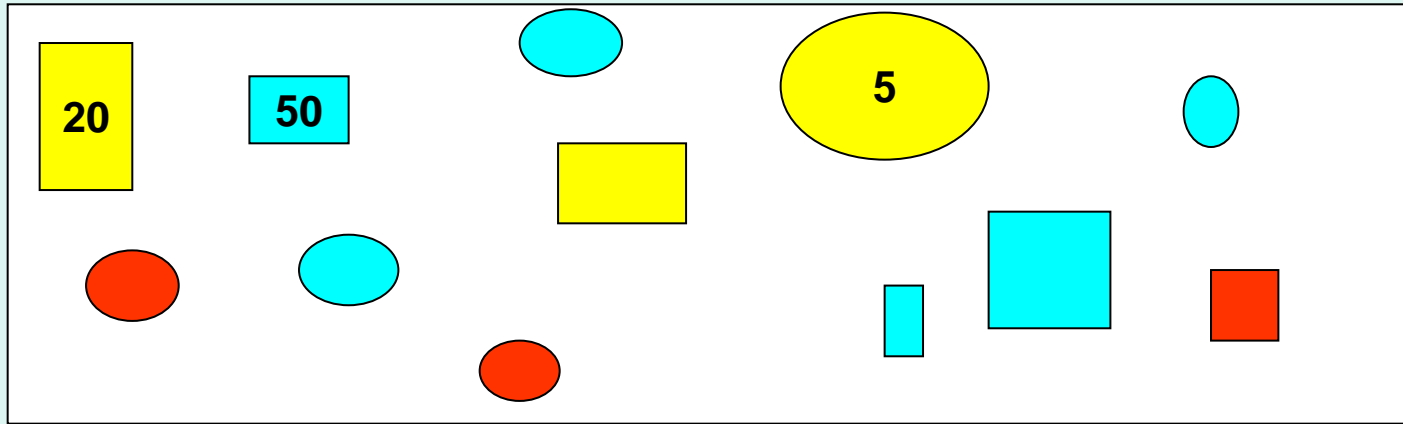
Custom for one series of data

Output to: CSV files Reusable Data: CSV files

Olympe for 1 Decision-maker



Olympe for a region



Typology
Individuals
Data / type

Sub group 1
Sub group 2
Group

Olympe

Total of Results : Groups or Sub groups

Data ↔ Farm totals