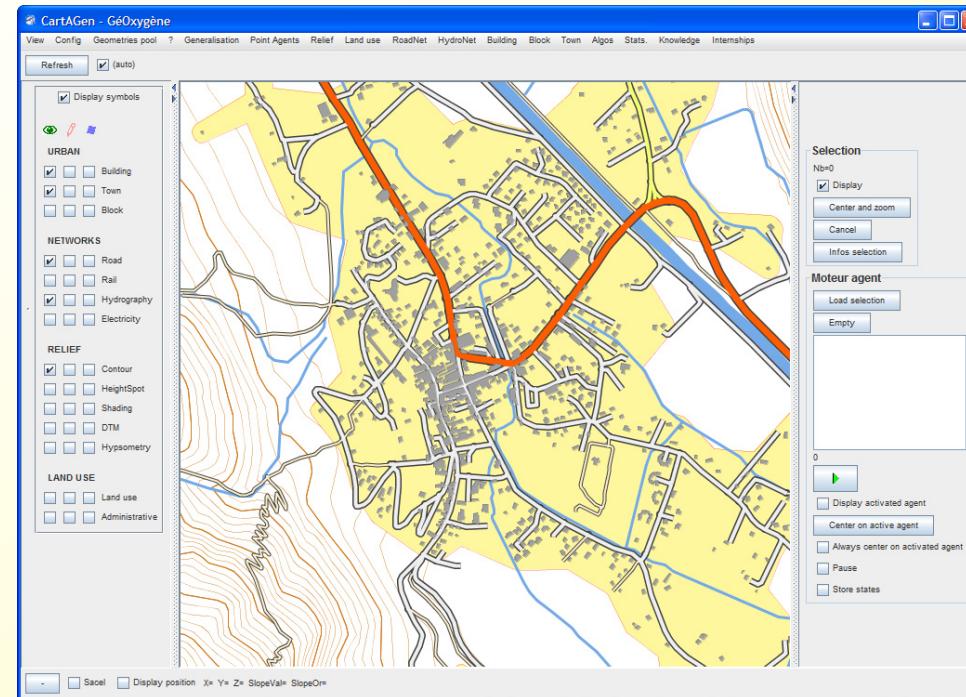




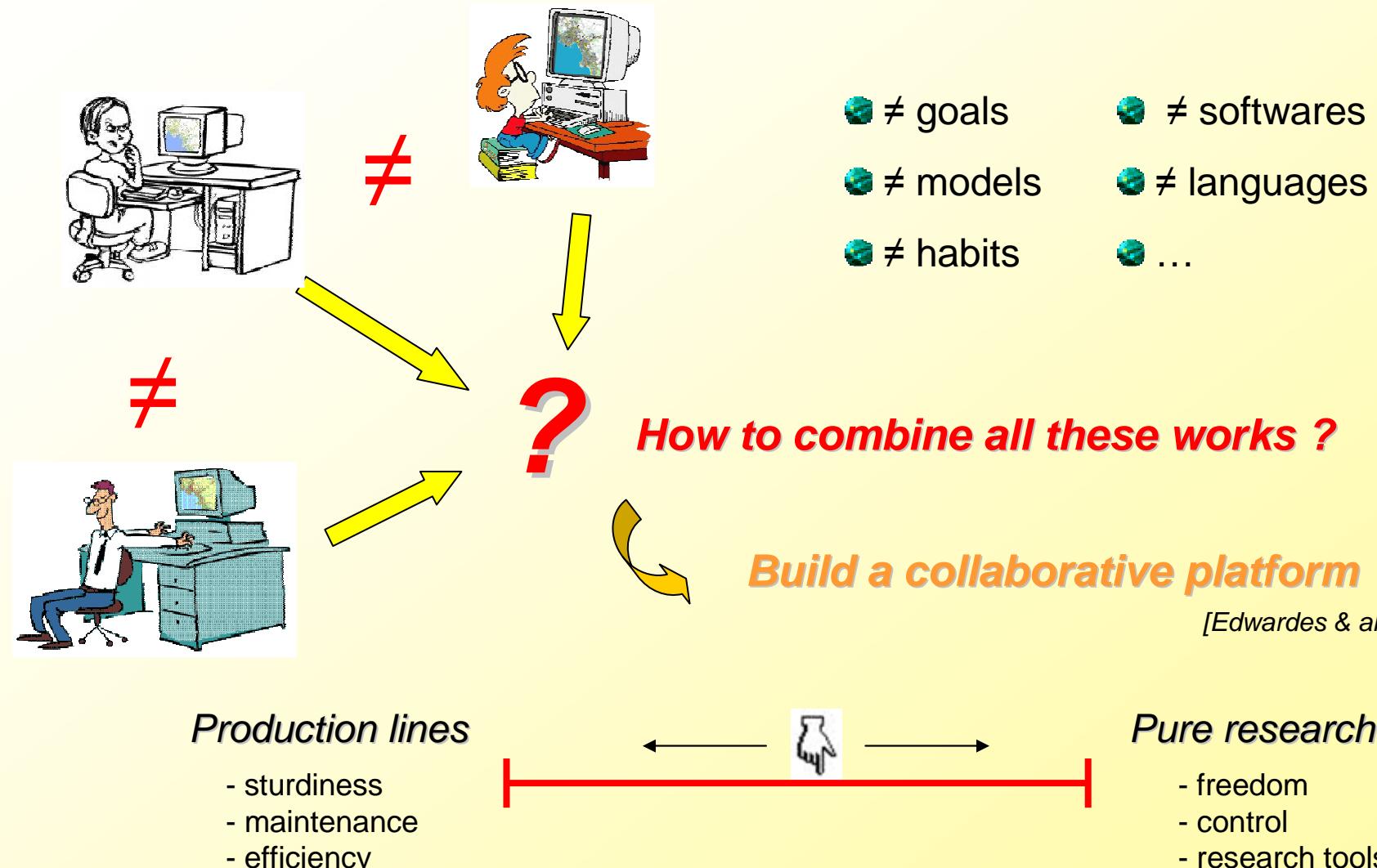
**J. Renard – J. Gaffuri – C. Duchêne**



## Capitalisation problem in research

*Example of a new platform for  
generalisation : CartAGen*

# Capitalisation problem in research

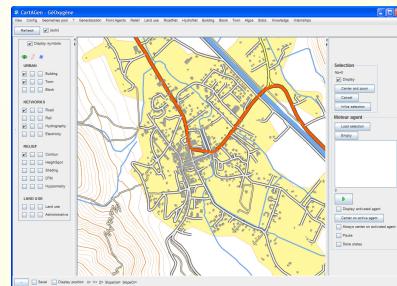


# Generalisation platform requirements

Integrate work :

- in generalisation
- in other domains

Respect data models

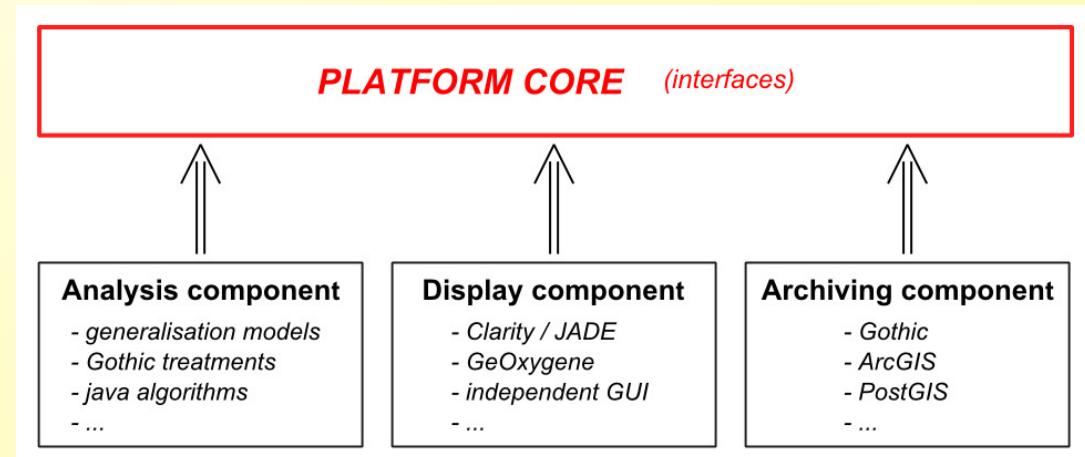


- sharing
- self improvement
- customisation
- adapted to Web services

[Neun & Burghardt 2005]  
 [Regnauld 2007]

Usual GIS functionnalities :

- archiving
- analysis
- display
- additional tools
- ...



**Component-based architecture**

[Rütschlin 2000]

# Specific case : CartAGen

**Different work environments**

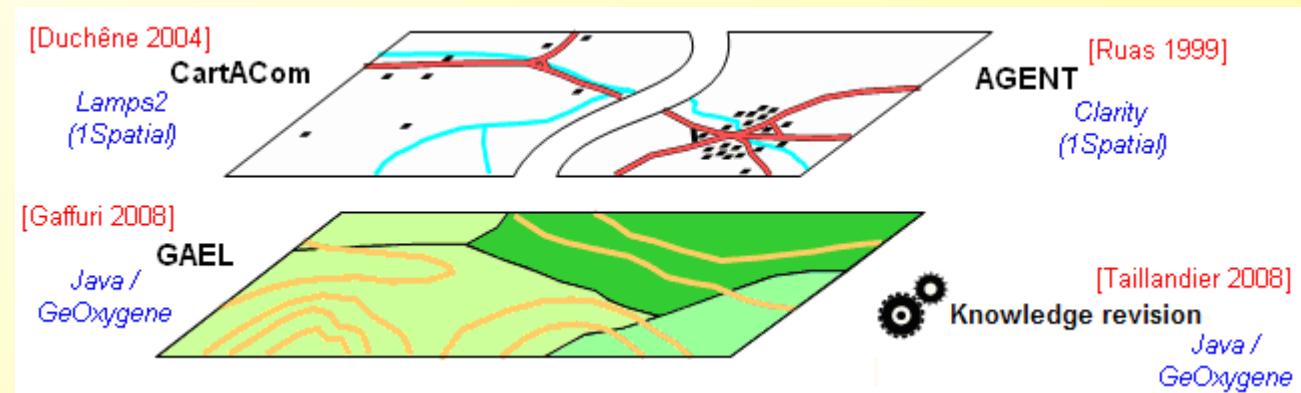
**Independent developments**

- PlaGe
- Stratego

**Commercial softwares**

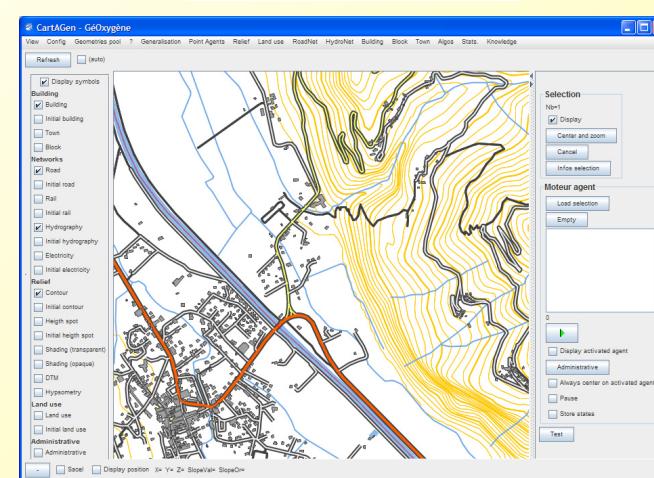
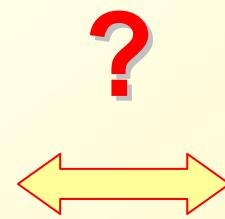
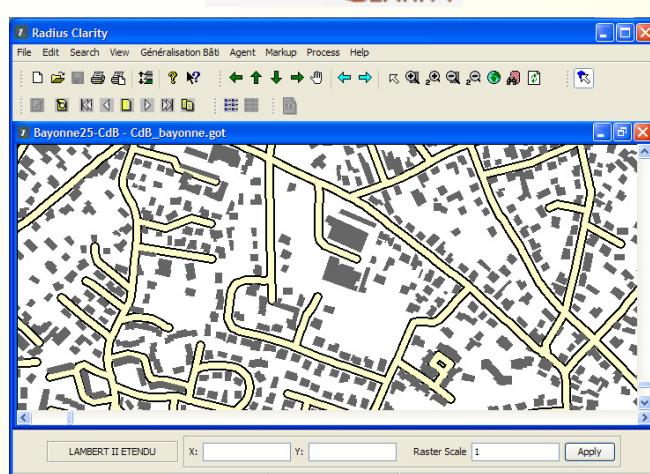
- Lamps2
- Clarity

**Different models**





## Specific case : CartAGen



**Clarity  
+ Gothic**

- close to production lines
- strong topology engine
- lots of algorithms

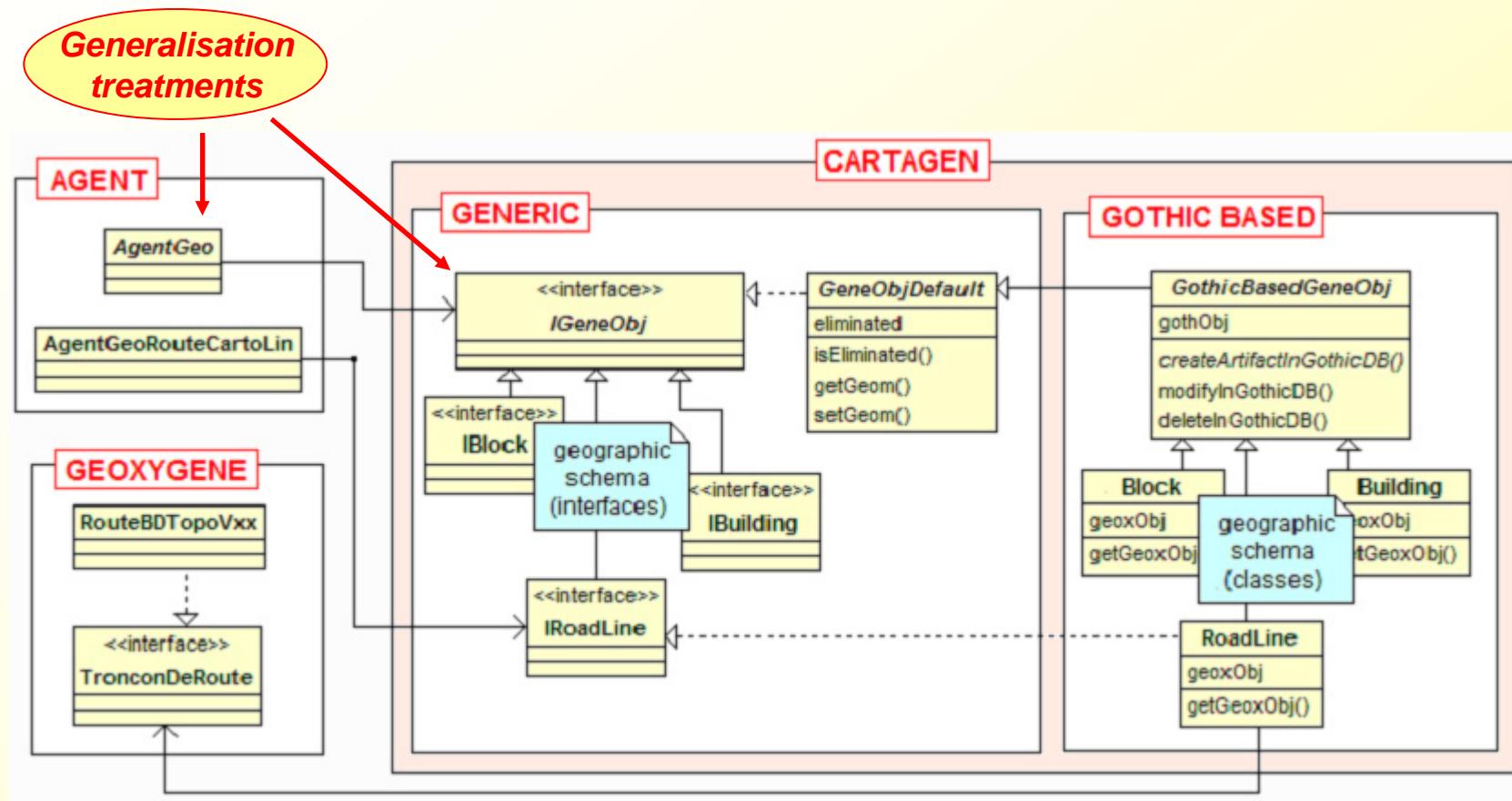
**External GUI  
+ Java**

- more suited for research
- easier to import code



Where to put the cursor ?

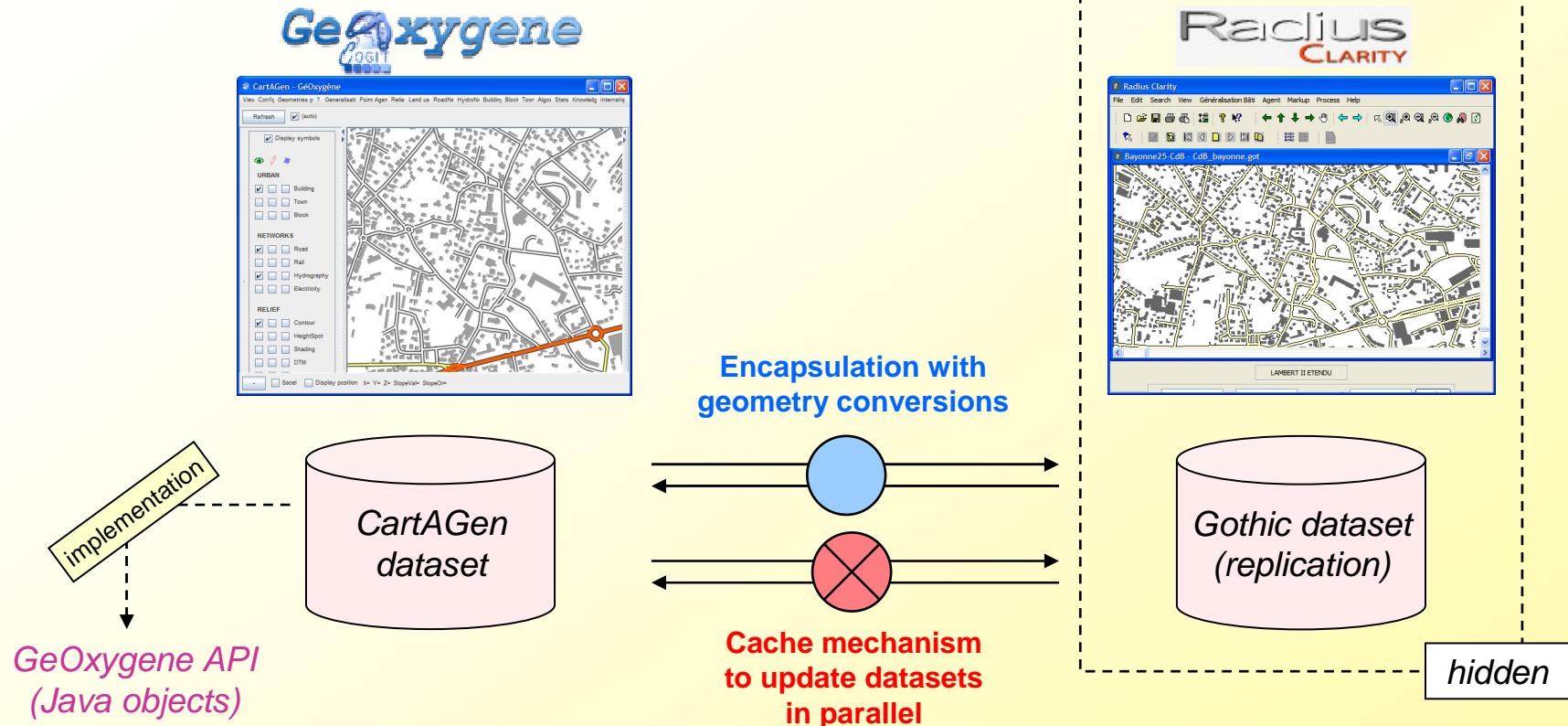
# System architecture



- ➊ Possibility to change the components
- ➋ Possibility to add new components



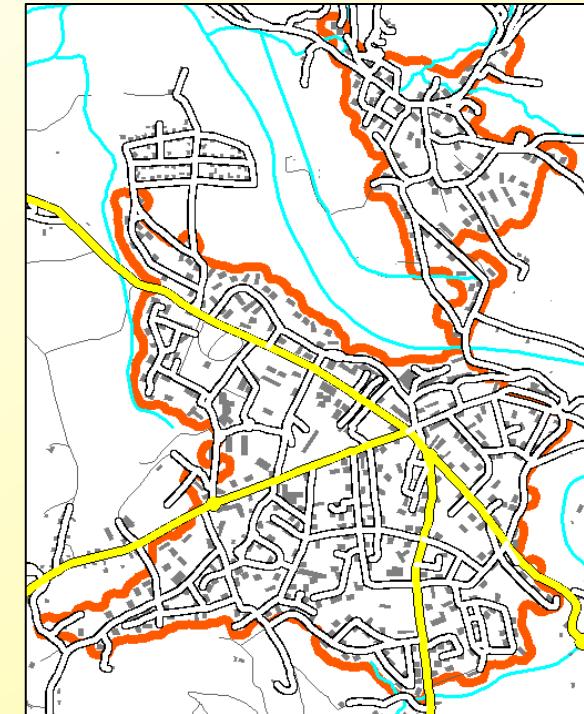
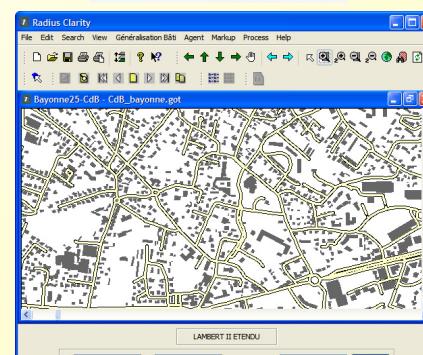
# System architecture



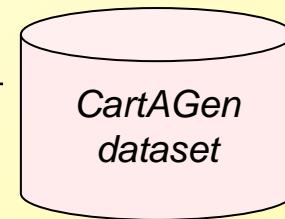
- Treatments all in Java (most of algorithms & models)
- Treatments using Gothic through geometry conversions (some basic algorithms)
- Treatments all in Gothic through a cache commit (eg. topological engine)



## Possibilities for a different use



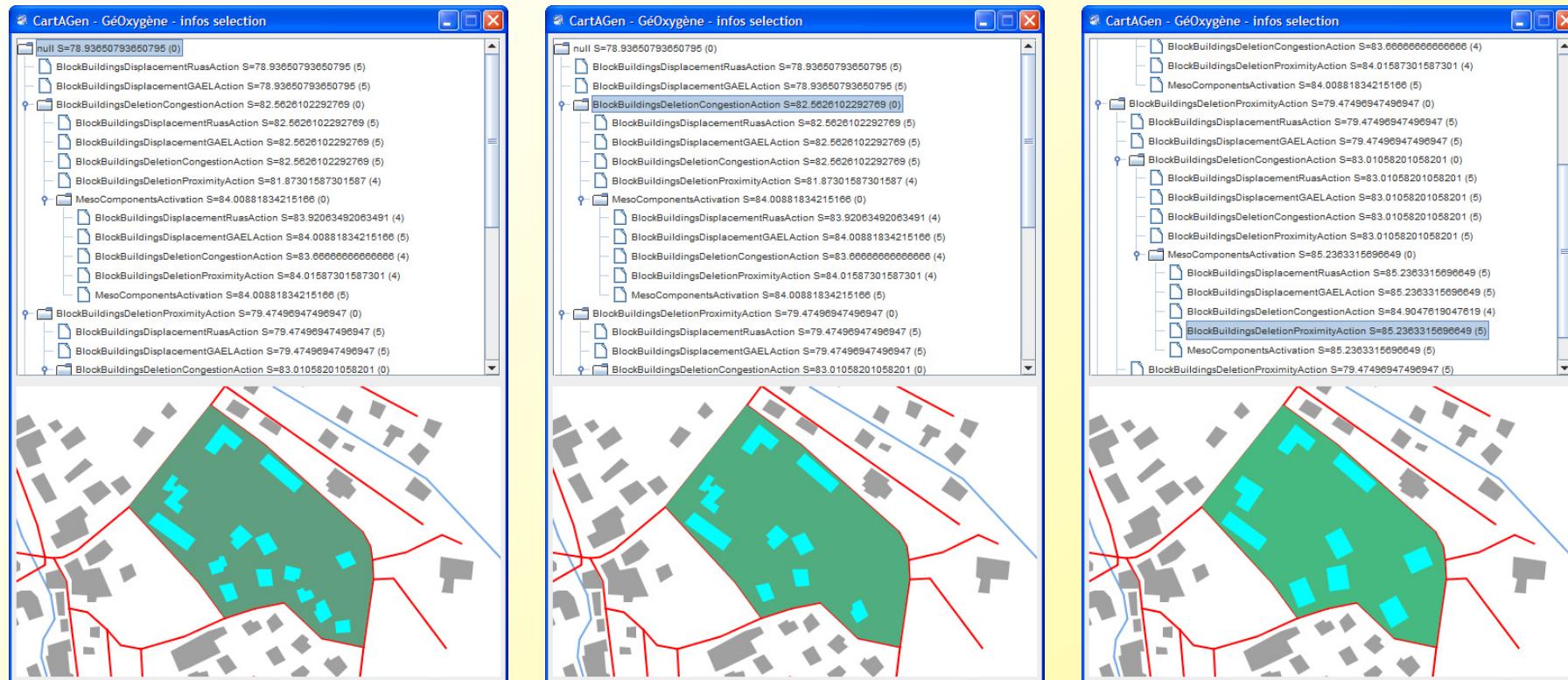
implementation



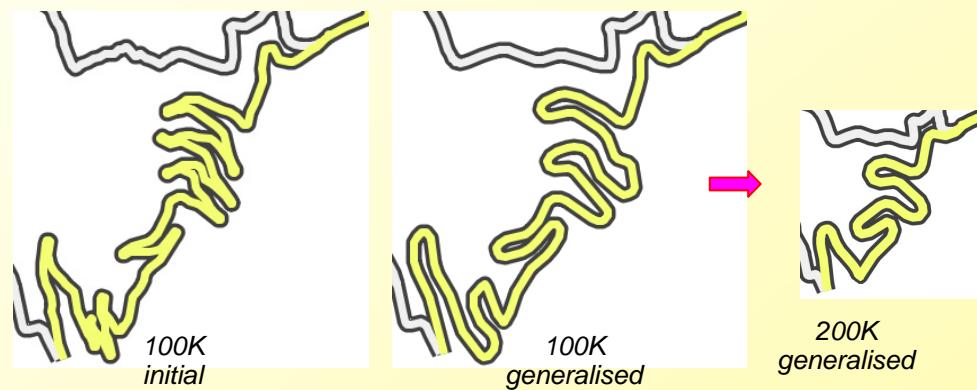
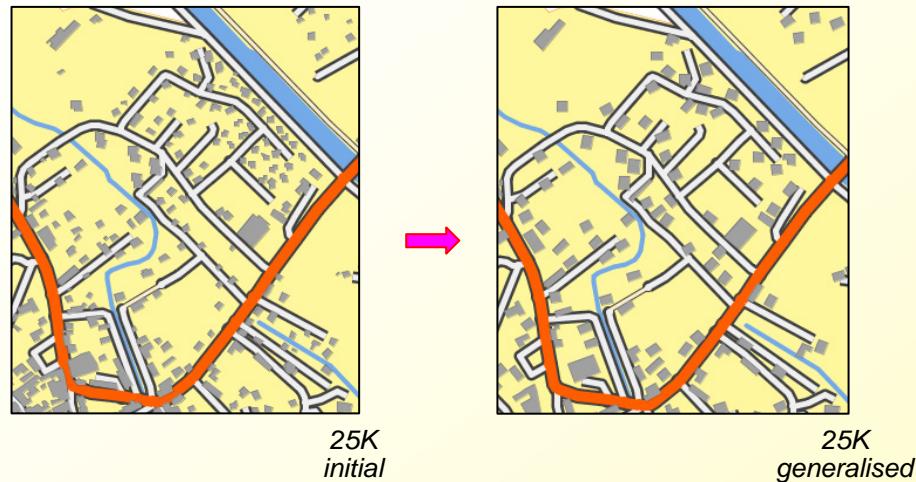
Clarity  
(Gothic objects)

# Possibilities for customisation

Example of research tool: module to perform process traceability



# First results



- Urban block generalisation
- Computation of city shapes
- Road generalisation (using Gothic)
- ...

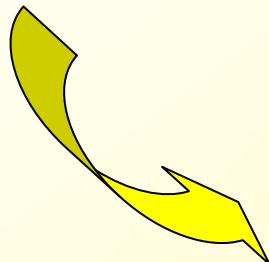


## Perspectives

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- Import models & algorithms
- Develop the platform core

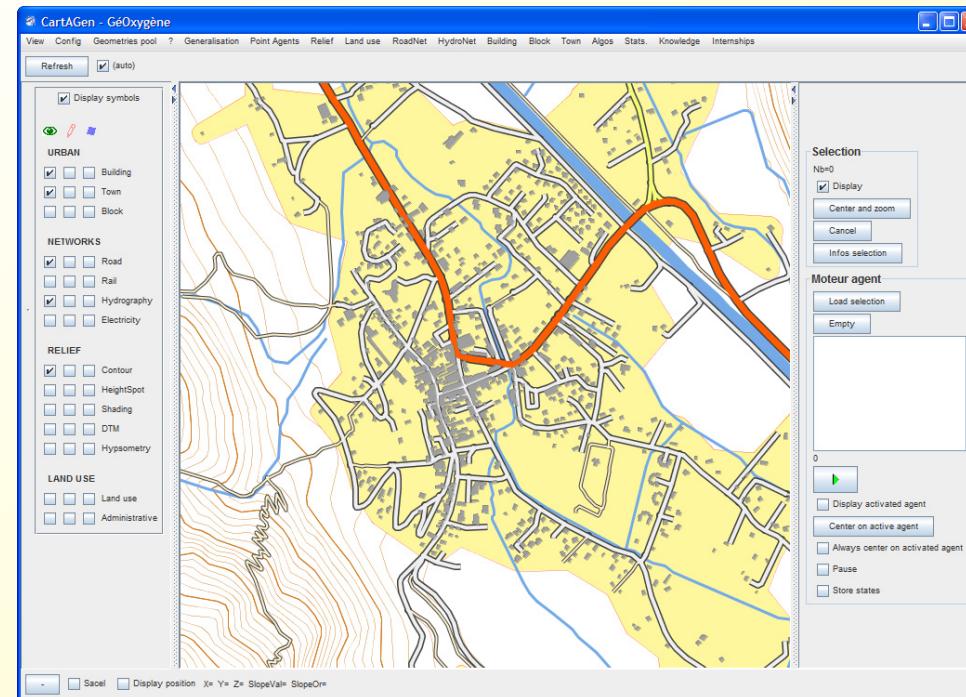


- Control & mastery
- Basis for further work
- Developments of Web services
- Possibility of sharing



## Capitalisation problem in research

*Example of a new platform for generalisation : CartAGen*



**Thanks for your attention**

*and see you at the demonstration session*