

The logo for Atrivé, featuring a stylized green fan shape with a white starburst pattern in the center.

Atrivé

Simulating the urban transformation process in Haaglanden (NL)

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A decorative graphic at the bottom of the slide consisting of several white, pointed shapes that resemble stylized rays or a sunburst, set against the green background.

Agenda

- Theme of the project
- The Haaglanden project setting
- Model structure and behaviour
- Insights & lessons learned
- A rigorous evaluation of the project
- What's next?

Theme of the project



Urban renewal / transformation

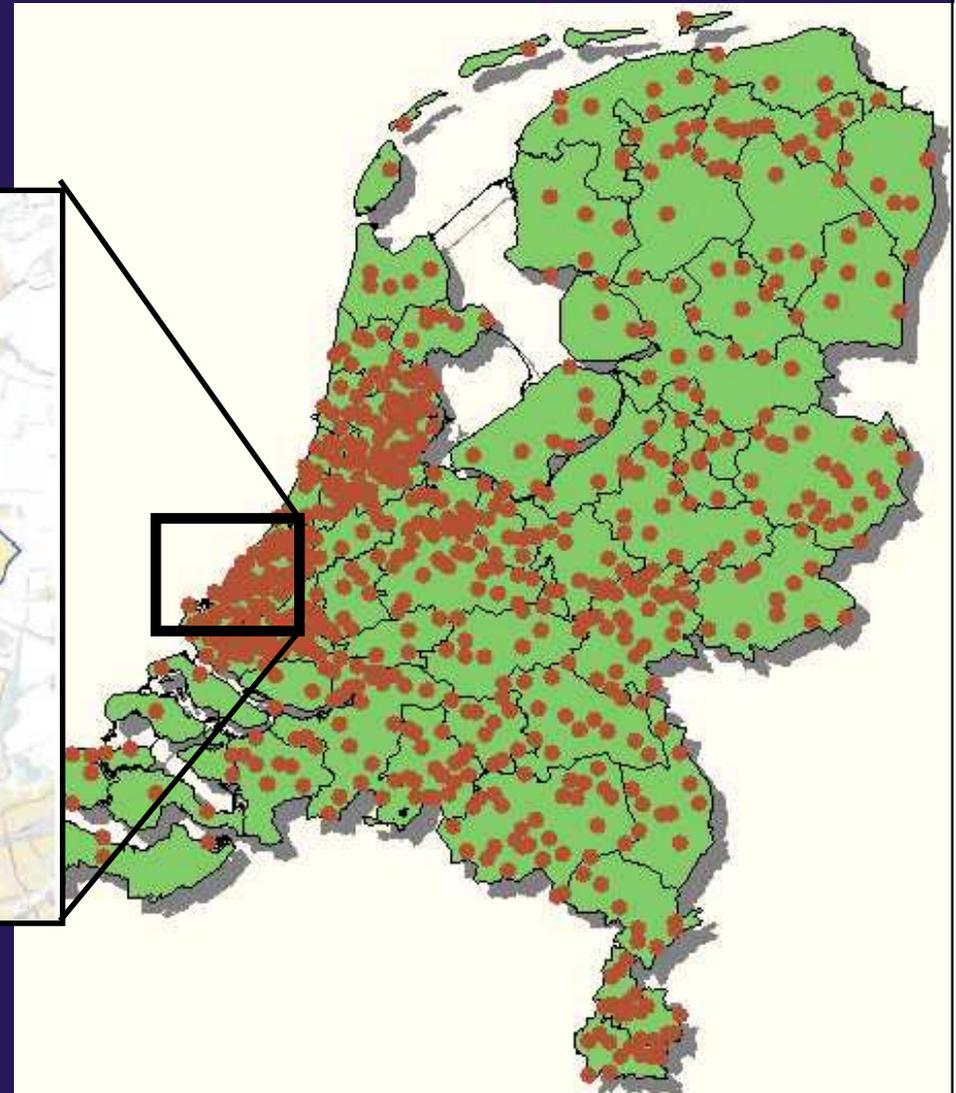
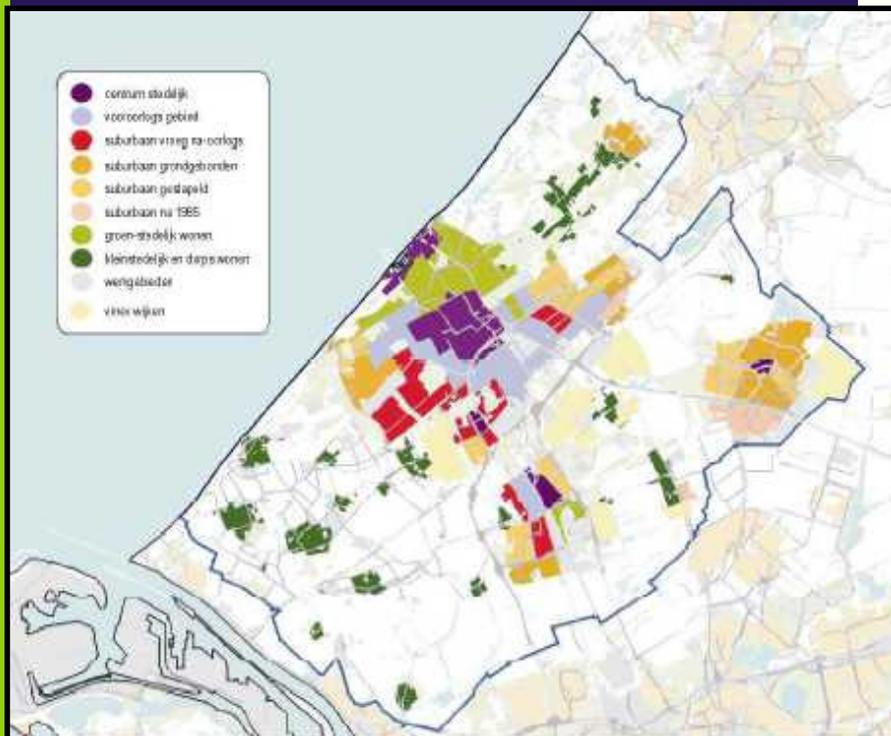
- outdated post war housing projects
- income segregation between city and suburbs
- negative socio-economic dynamics
- ageing population, immigration, crime

Dutch urban transformation policy after 1995

- Not only physical renewal (like the 1970's), but also socio-economical
- Change the population mix in order to restore the balance within the city
- Demolish the most outdated housing, build new, better quality houses

A shift towards a more Forresterian approach?

Haaglanden



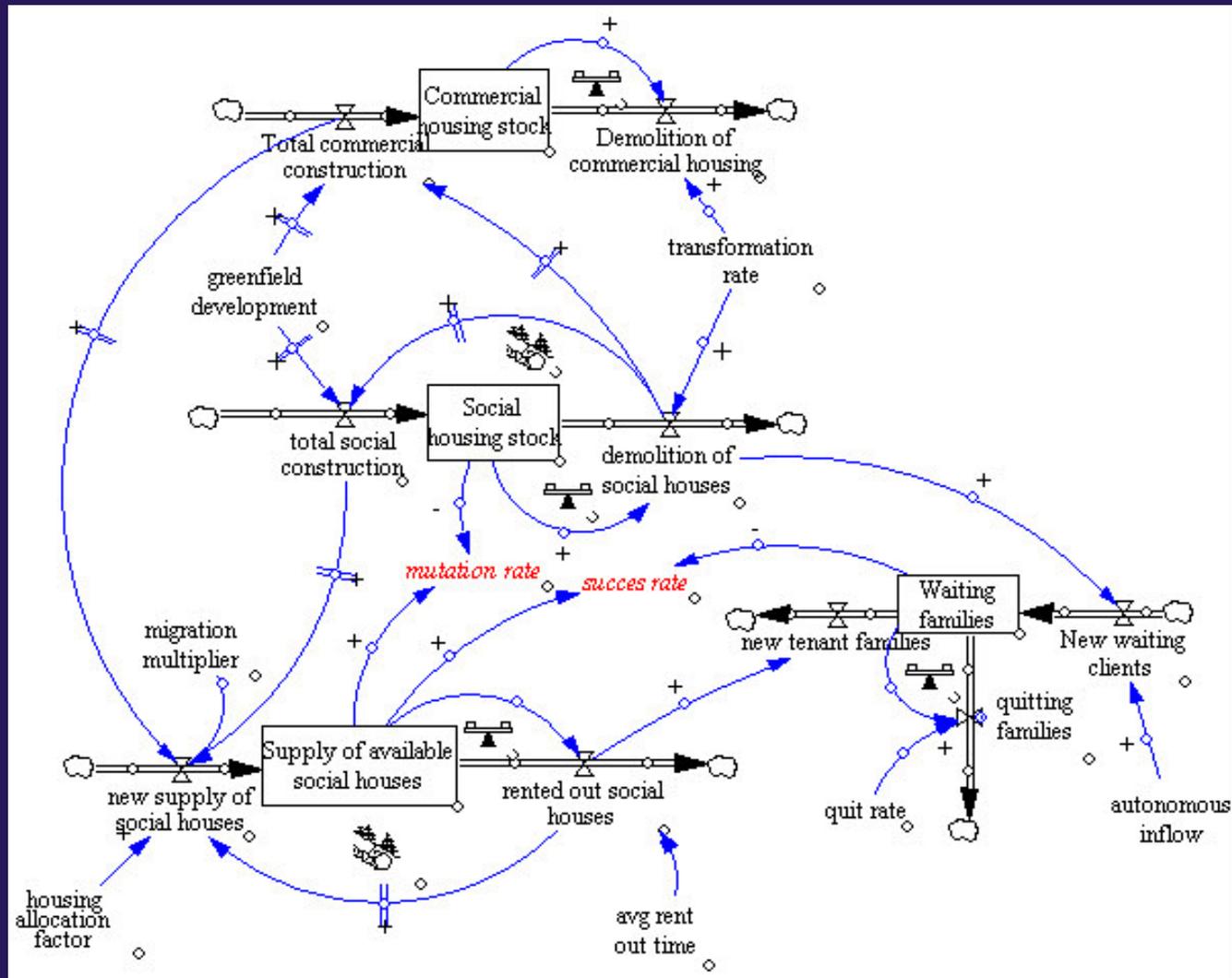
Setting of the project

- Econometric model produced wrong prognosis
- Two client organisations in high conflict setting
 - SGH: Regional authorities Haaglanden
 - SVH: Association of (private) housing corporations
- Clients' central question:
 - How do new development and transformation affect the social housing market?
 - Which policies are effective and which policies are not?
- A messy problem:
 - different views on how things work
 - different views on how policies affect the market

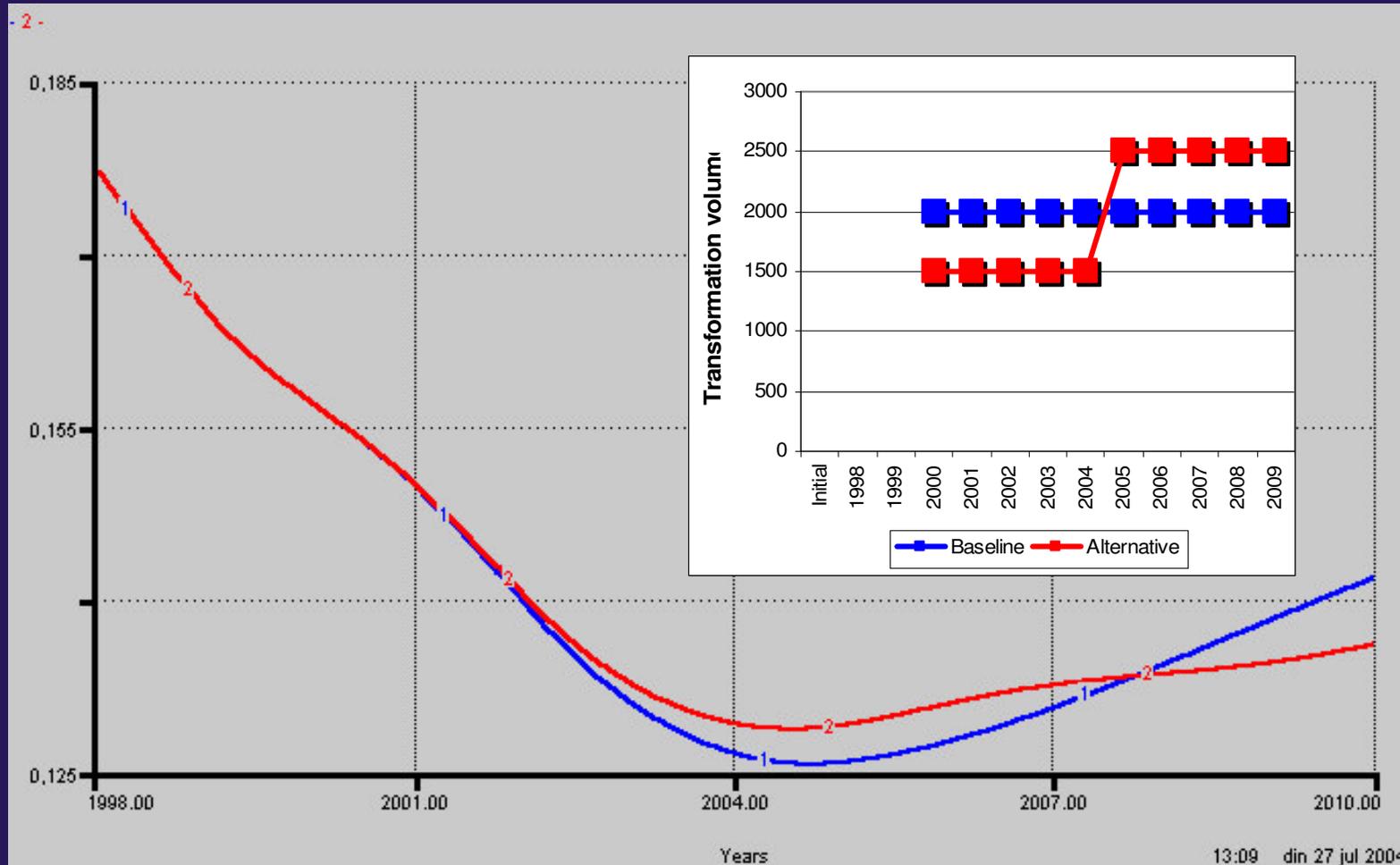
The modelling process

- Group model building approach
 - Conceptual phase: what is the problem?
 - Modelling phase: data collection, validation, sensitivity
 - Simulation phase: test policy options
 - Follow-up phase: spread the news
- The big issue between the clients:
 - Transformation volume related to green field development
 - SGH (baseline) : Don't relate them, keep on moving as agreed
 - SVH (alternative) : Relate them in order to keep a stable success rate.

Basic model structure



The two competing policy options



Insights & lessons learned

- Project group insights gained
 - insight in high level structure of problem
 - impact of delays before market effect materialises
 - short term effect versus adverse long term effect
 - strong leverage: green field construction & migration multipliers
 - weak leverage: housing allocation system
 - do not slow down transformation when green field construction is low
 - several white spots in existing data collection found
- Problem has been “de-messed”
 - consensus reached on system structure and feedback loops
 - consensus reached on effect of policy options
 - debate is now on preferences, not on structure and dynamics

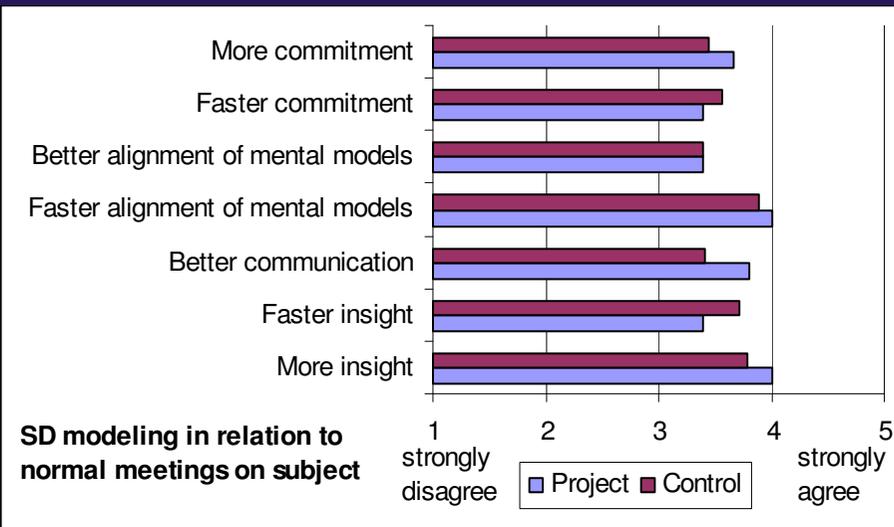
Measuring impact of the project

Project group participated in full GMB project (35 hrs in 1 yr)

Control group attended presentation + flightsim (1.5hr 1day)

General evaluation (post)

SD modeling + simulating useful?



Ajzen evaluation (pre+post)

Attitude, norm, control: framework for GMB evaluation

Did project impact perception of policy options? **Yes!**

Attitude, norm affected, more so for project group

... to be continued

What's next?

- Hopefully many interesting SD projects in the Dutch housing & urban planning field
- Test whether projects influence policy makers' attitude towards options (with Etiënne)
- Report in SDR and (e.g.) Housing Studies on contents, process and effects.
- Write a good PhD thesis on the findings