



# **SustainCity Consortium Meeting**

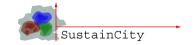
ETH Zurich, 19th April 2013



REPORT OF THE SCIENTIFIC COORDINATOR

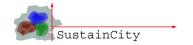
# Update and the Grand Paris project

- Final run is ongoing
  - BAU and first policy scenarios are completed
  - Policy scenarios(pricing) will be tested next month (SR-LR)
- □ Simulation period1999 to 2035, extended till 2050
  - UrbanSimE & METROPOLIS: prototype being tested
  - Integration of demographic model is under test
- Grand Paris project
  - Wider economic benefit
  - Implementation of the project
  - Test several scenarios to feed socio-economic studies



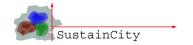


UrbanSim



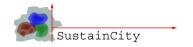


- Finding and using adequate data
  - Issue with Zurich, Brussels and to a less extent to Paris.
  - Fine-tune models to the data or find the right data to fit the model?
  - Share the data .... Almost impossible



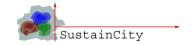


- Comparing Case Studies
- and comparing models



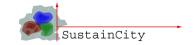


- Mastering the software UrbanSim
  - □ De-correlate modeling, econometrics, running and calibration → division of labor needed.
  - Open | source





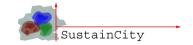
 Adapt Urbanism to European specificities: grid cells, and constraints (budget and excess demand), decision process within the family





# Missing link (1/2)

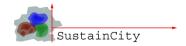
- □ The (missing) benefits
  - Benefit from variety (and route choice):
    - $E(maxU) Sum[P^iU^i] = Entropy>0$
  - Wider economic benefit: where are they?





# Missing links (2/2)

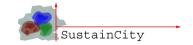
- Productivity of firms?
- General equilibrium dimension
  - 50 GE zones model or 1300 municipalities partial equilibrium model
- The boundary of the zone





## Consistency

- Welfare consistent with behaviors
  - Is Roy's identity satisfied?
- Need to start from clear econometric/microeconomic models
- Mistake to avoid:
  - Doubling counting
  - Adding pieces
- Dynamic consistency (or not?)





#### Actions...

