# Development Strategy Simulator

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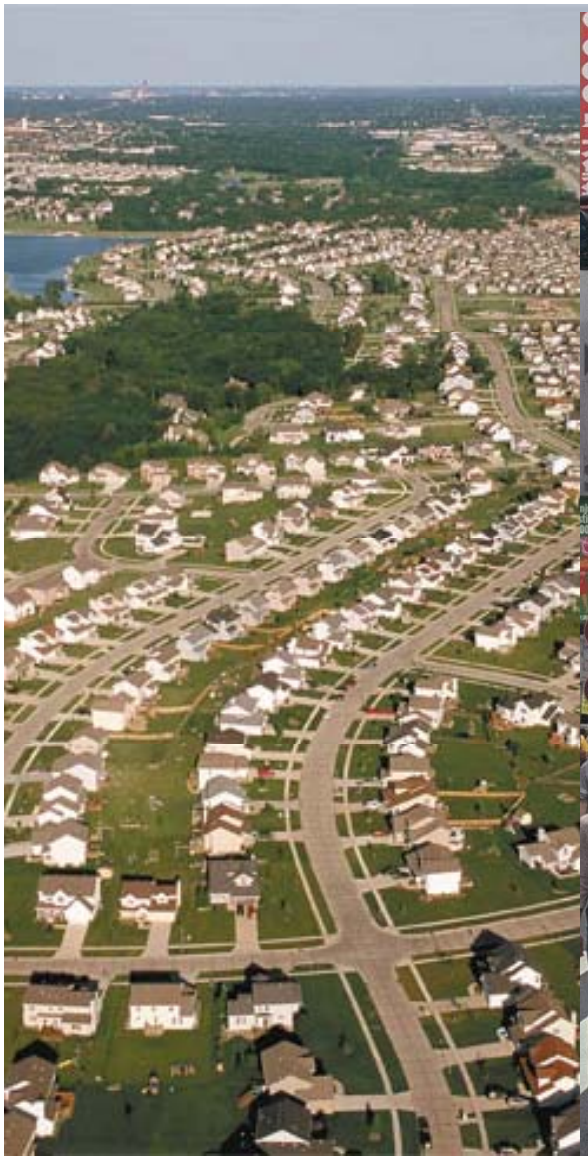
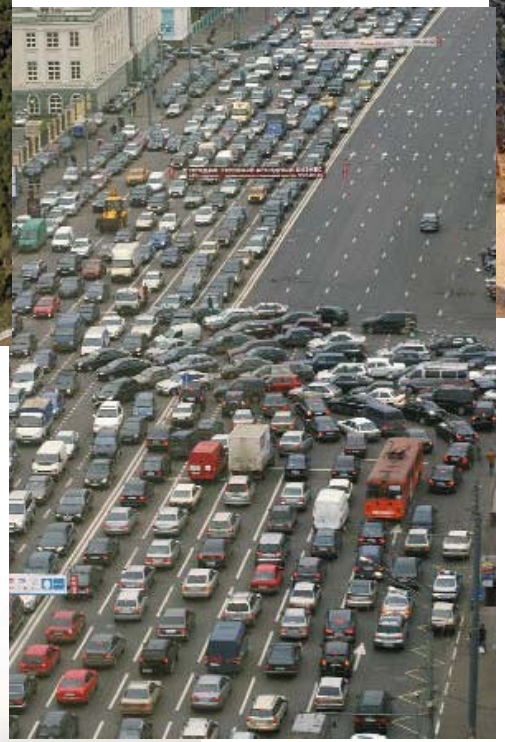
Sprawl dense high



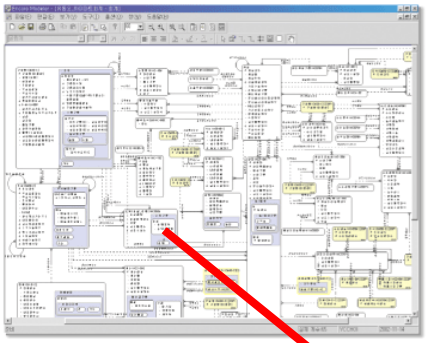
# So … do we have enough?

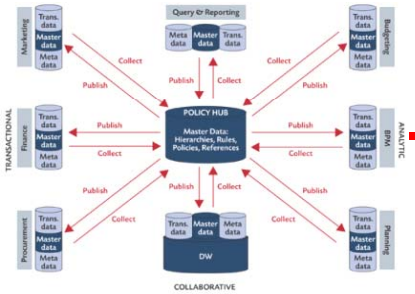


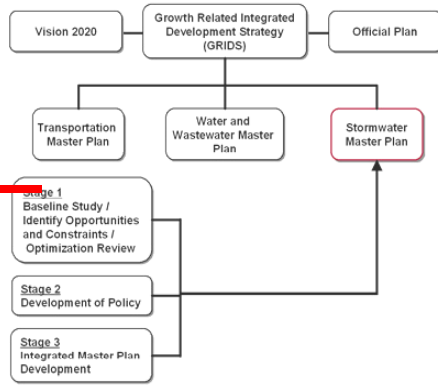
# Who decides?

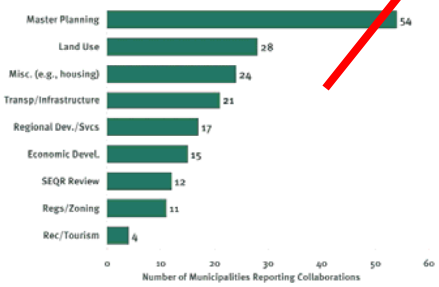
# On what basis?

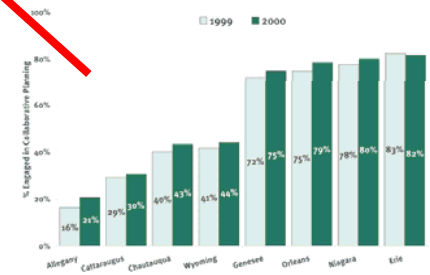
## Why do we have to work for the information?





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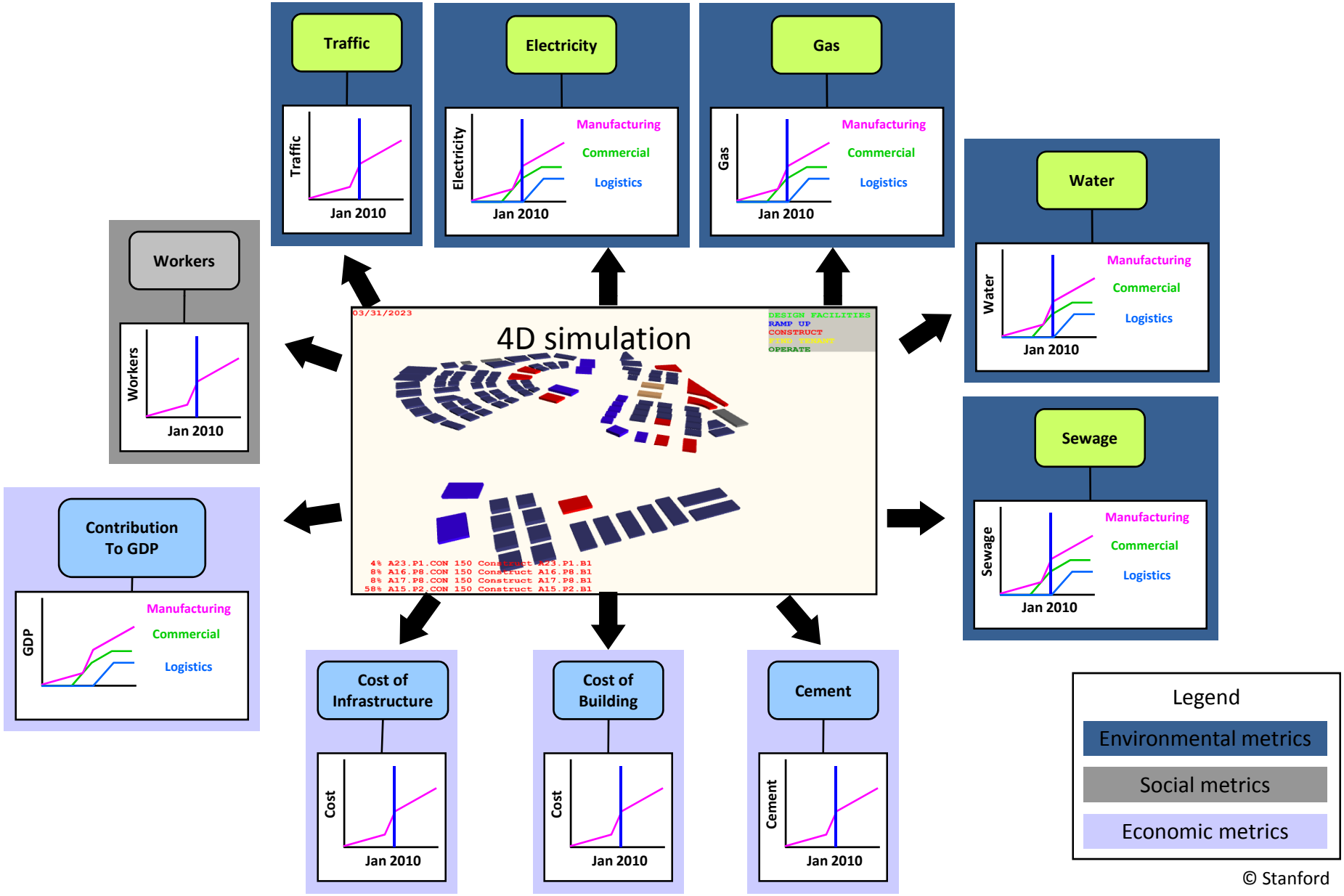
# Let’s make the information work for us.

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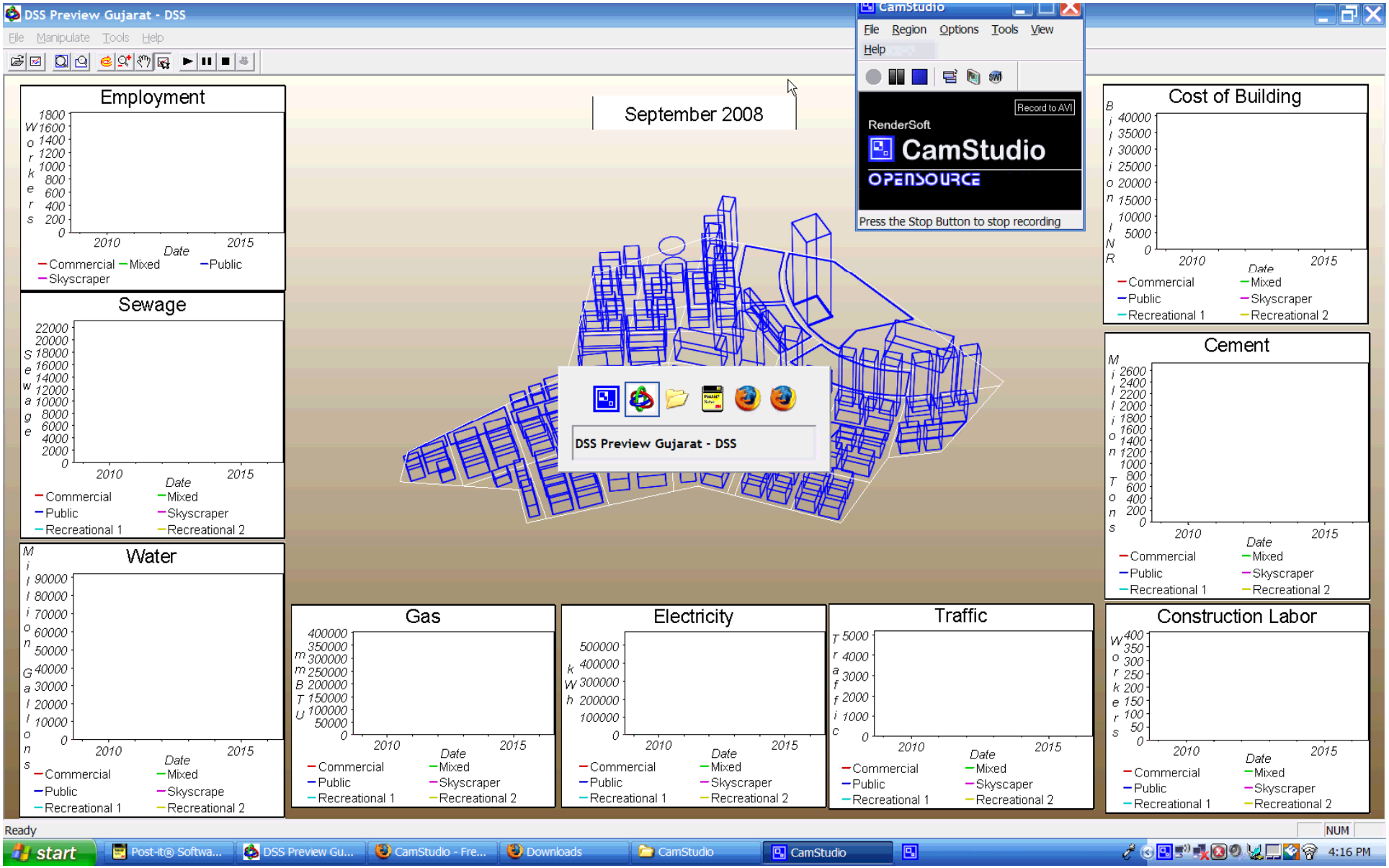
# 4D model plus metrics



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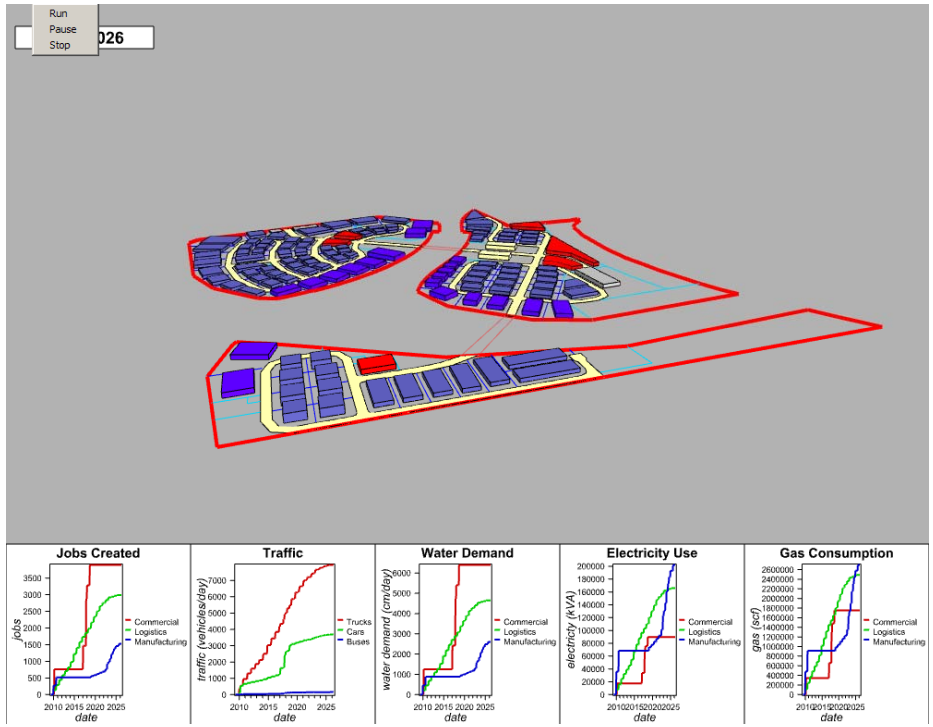
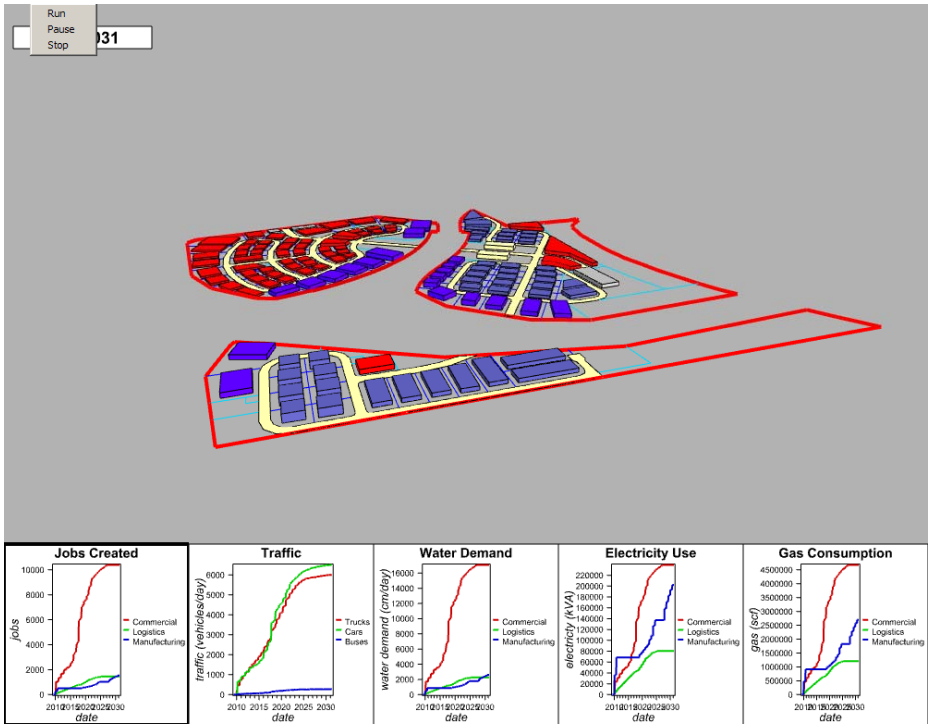
# Compare Development Scenarios

- Product mix
- Timing
- Impact of codes, regulations
- Resilience of development strategy to changes in …

Scenario 1



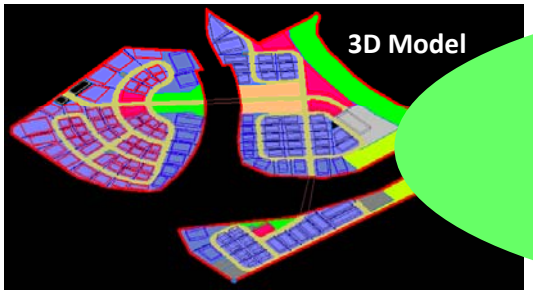

Scenario 2

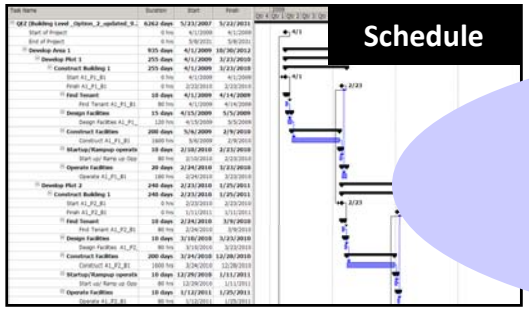


# Development Strategy Simulator

***Input***

- QEZ master plan (3D model, schedule)
- Relevant data and coefficients




***Integrated Transparent***

(4D + data)

***Simple***

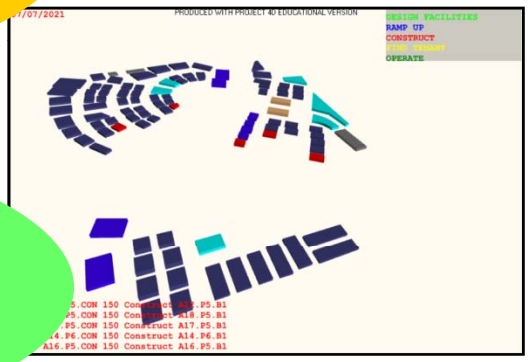
(Analysis using GSM of building floor area from 4D model, seamless integration)

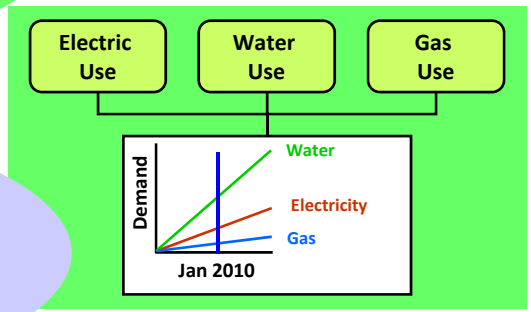
***Visual***

(4D and chart simulation)

***Output***

- 4D visualization
- Analysis for metrics



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# Next steps

- Application of DSS
  - More case studies
    - QEZ
    - GIFT
    - Lusail
  - Test impact on stakeholders and development processes
- Tool development
  - Add infrastructure elements
  - Add ecosystem functions
    - Interactions between natural and built environment
  - Data
  - Interconnections between issues
  - Links to GIS, regional analysis
- Vision
  - 4D Google Earth +
  - Tool/method for democratic and efficient engagement