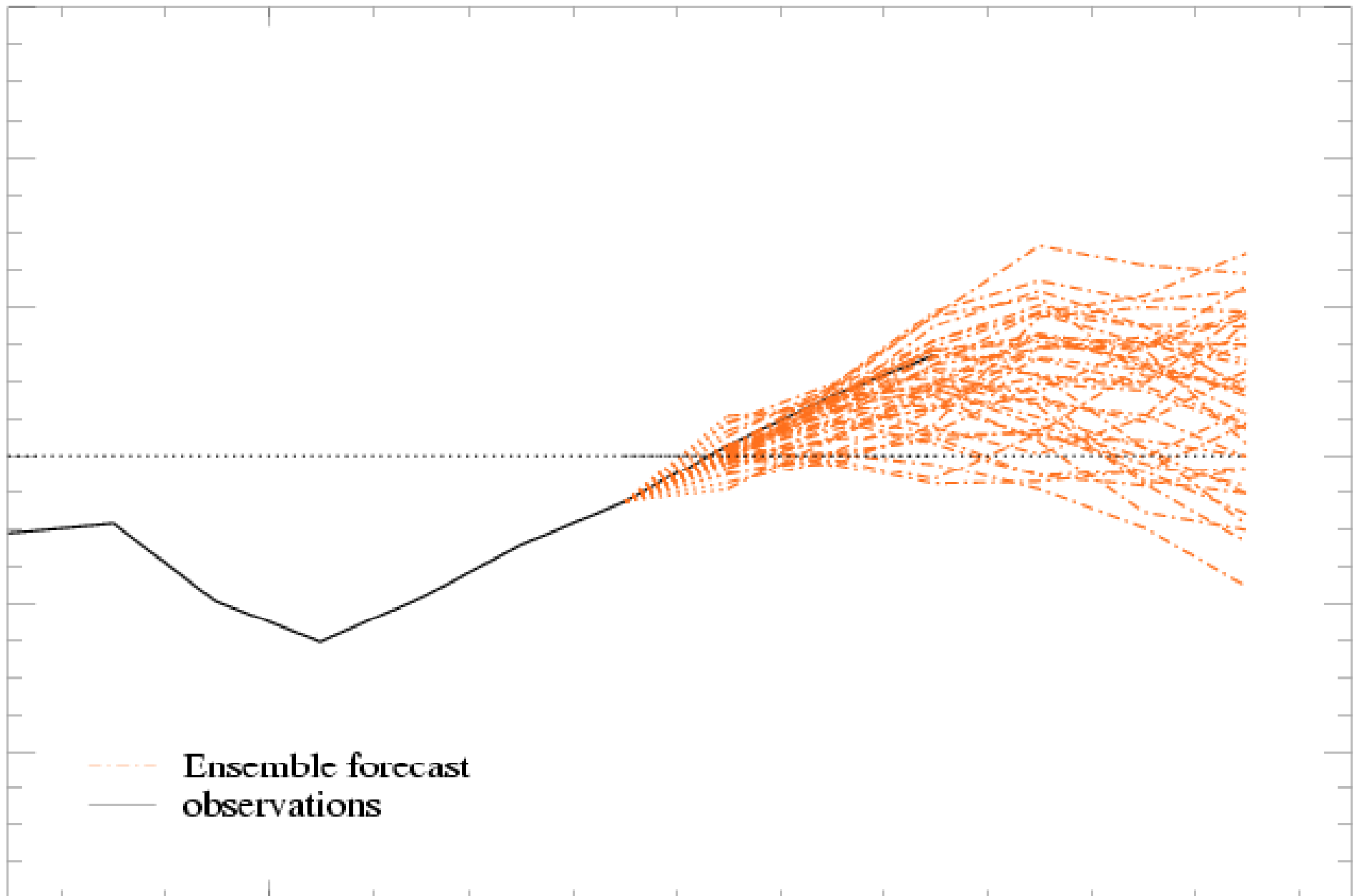


Potential economic impacts of technological and organizational innovation in intermodal access to major passenger terminals

[Some notes on modeling]

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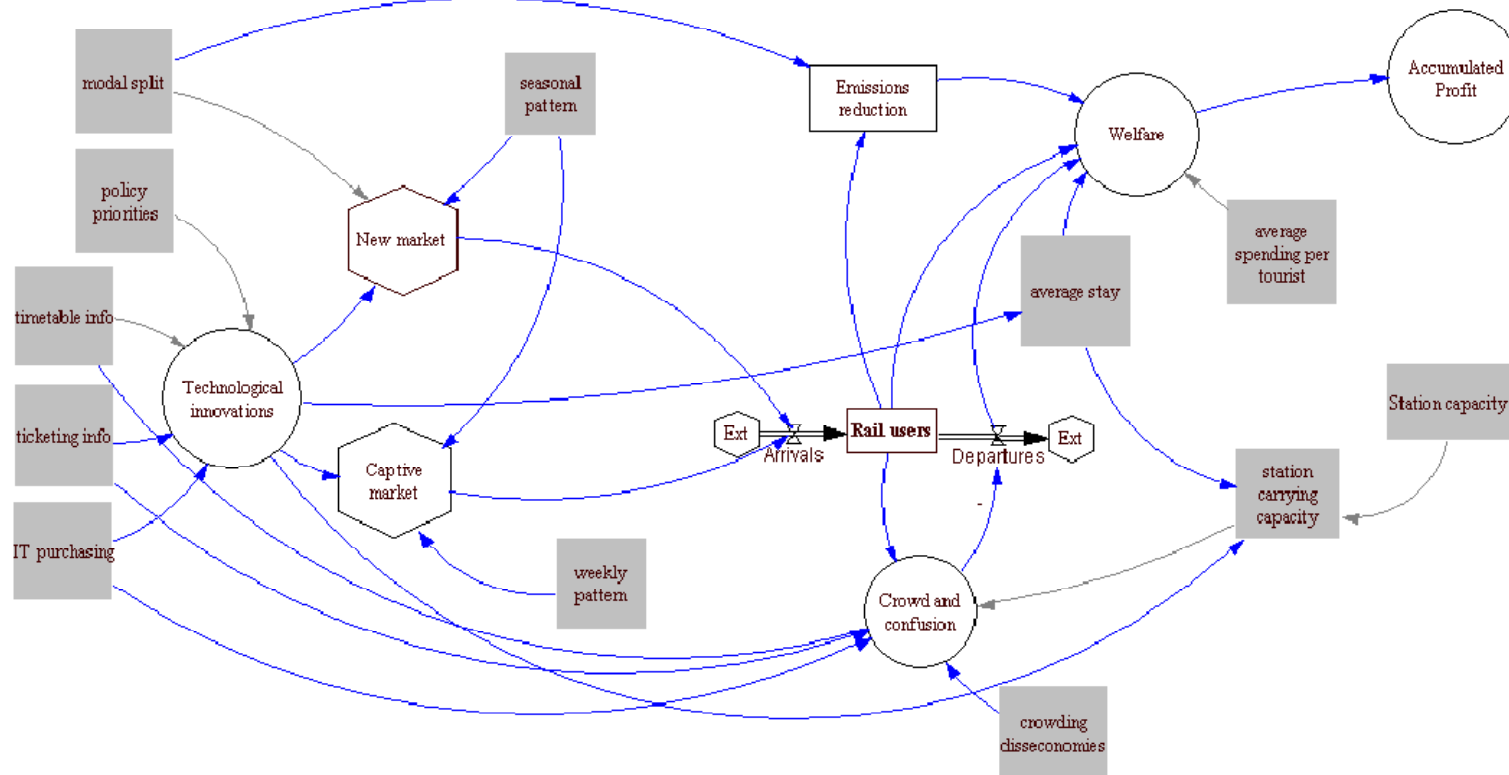
## State of the art

- Now computing resources allow complex modeling.
- Improved access to some data.
- Lack of (useful) off the shelf models: DIY approach.
- Need for multidisciplinary, multinational, policy-driven joint endeavors.

## Intermodality simulations

- Need to account with time: people change behavior as it goes, processes are mutually-influenced.
- Need to deal with SIC.
- Need to encompass all the relevant variables.
- The cross-relationships between variables have to be parameterized with empirical data.

# Conceptual model



Canonical case + real data + scenarios =  
full projection

# Interpretating model results

- Models are used to make projections, not forecasts.
- As the models go more complex, the chance of pitfalls increases exponentially: tracing tools.
- Garbage in – garbage out.
- Models are as good as the modeler's insight.
- The results may surprise you: coupled dynamics.

[Thanks]

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