



# Is Data Science a game changer for Operations Research?

Lunteren, 2018 January 18

Seppo Pieterse



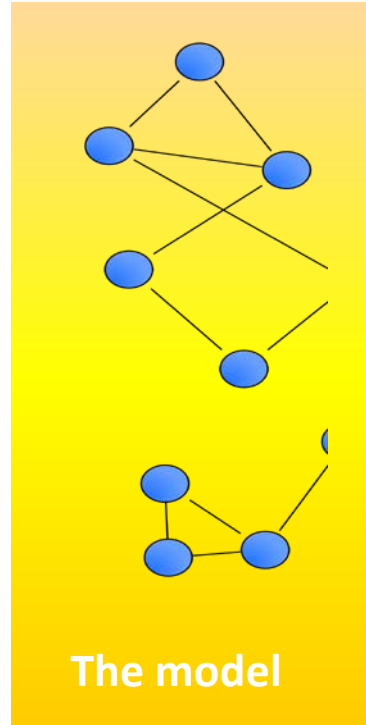
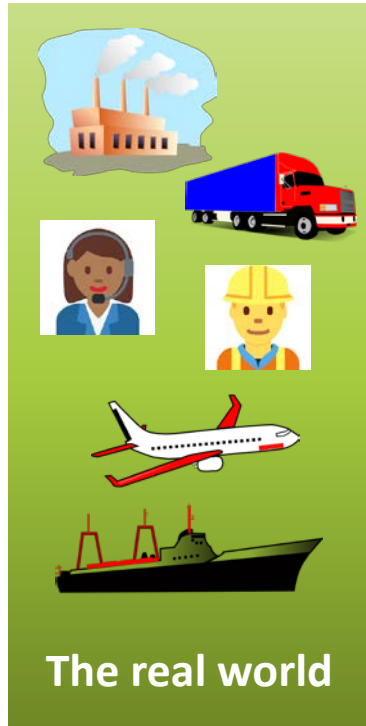
# Is Data Science a game changer for Operations Research?



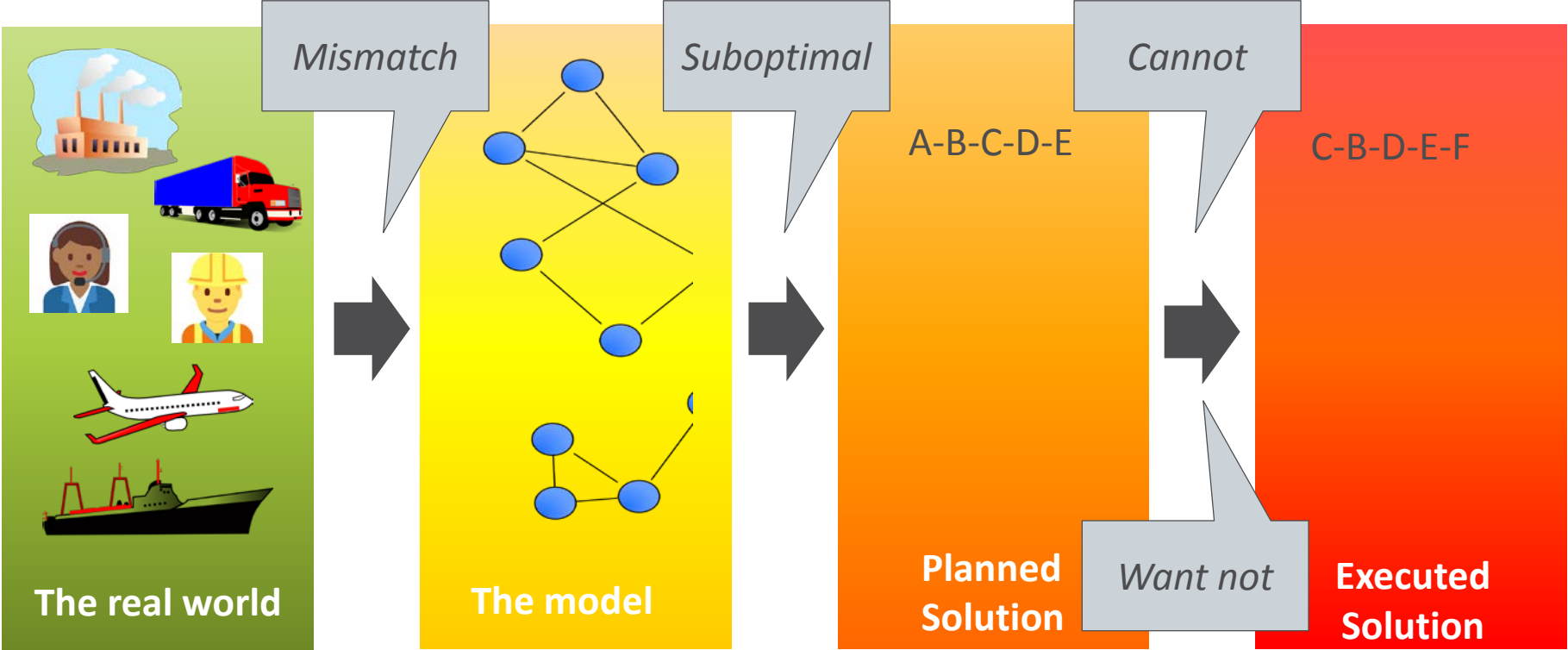
*“Is Data Science helping organizations with a complex supply chain planning puzzle to create significantly more value?”*



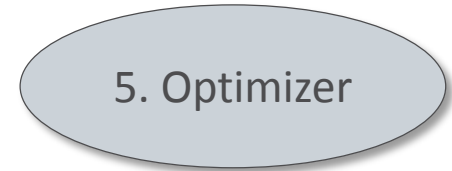
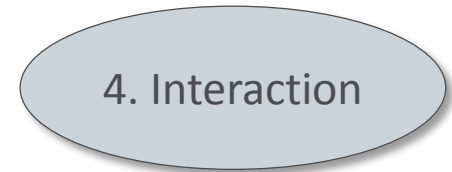
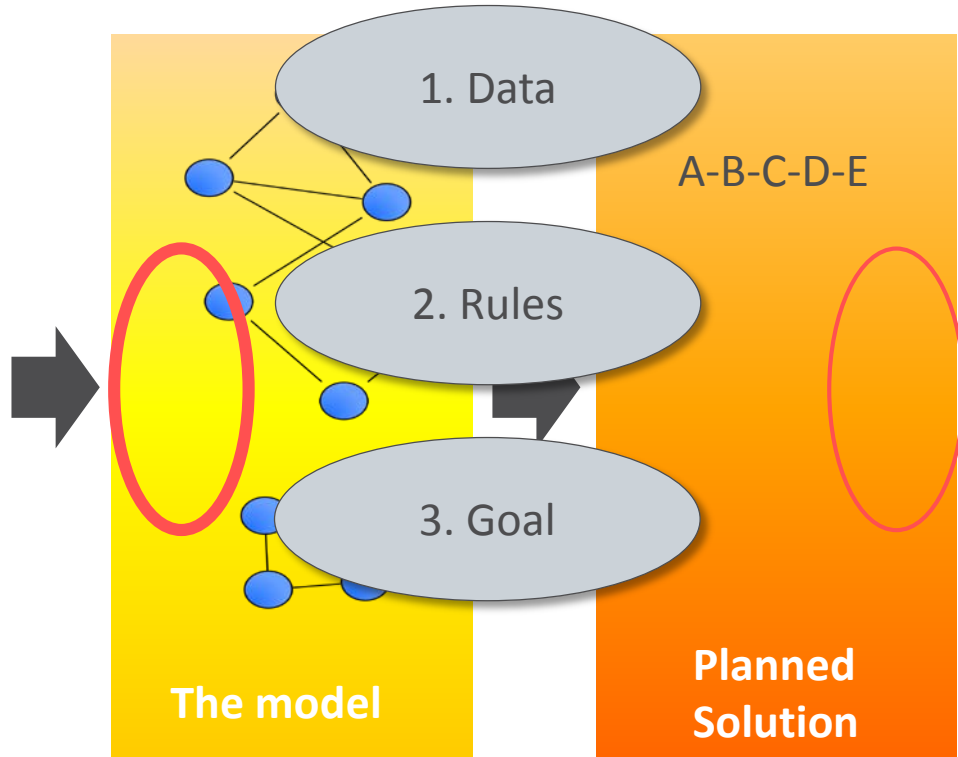
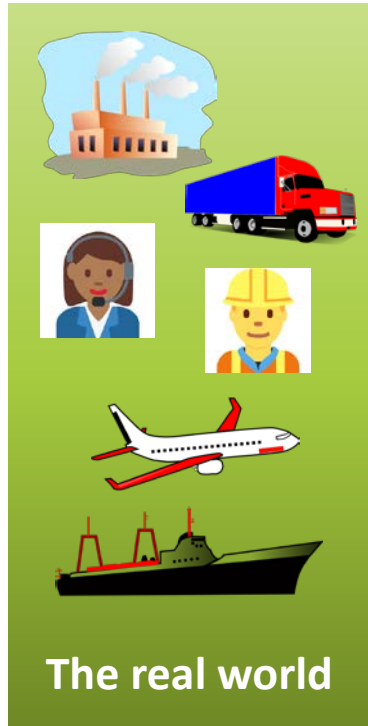
# Value added puzzle solving



# Value added puzzle solving



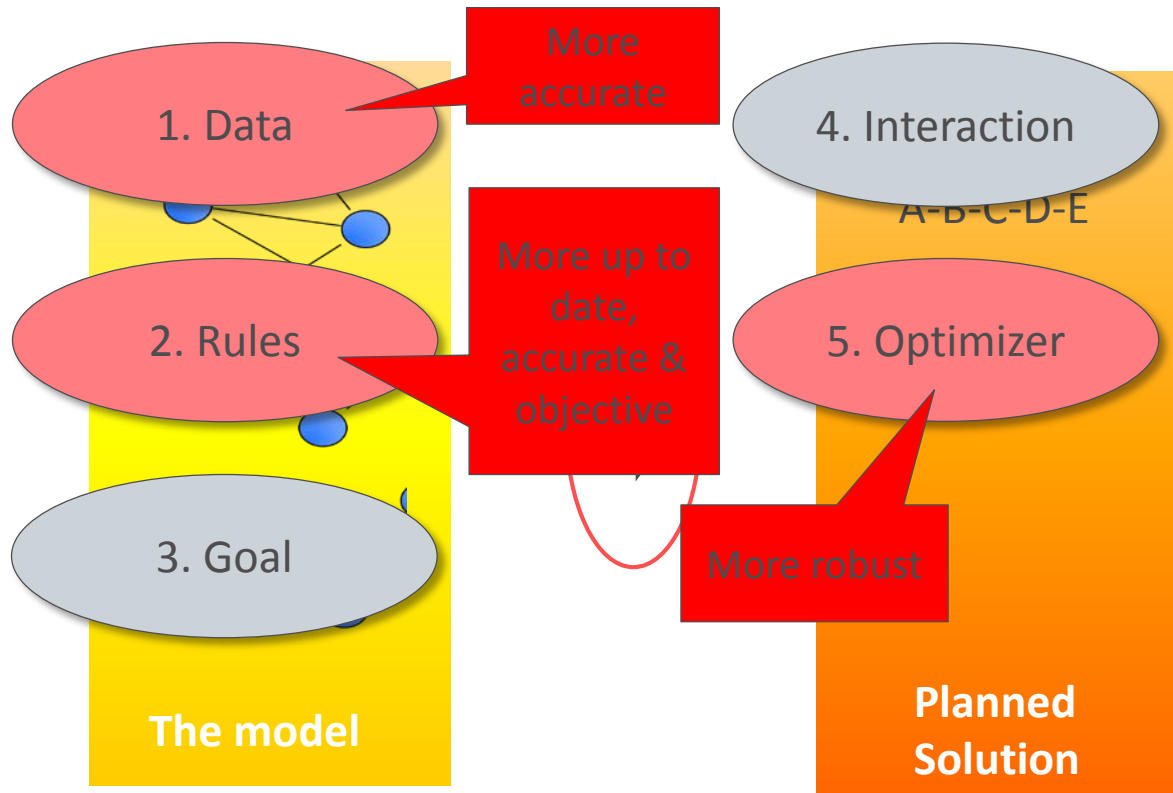
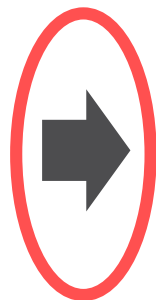
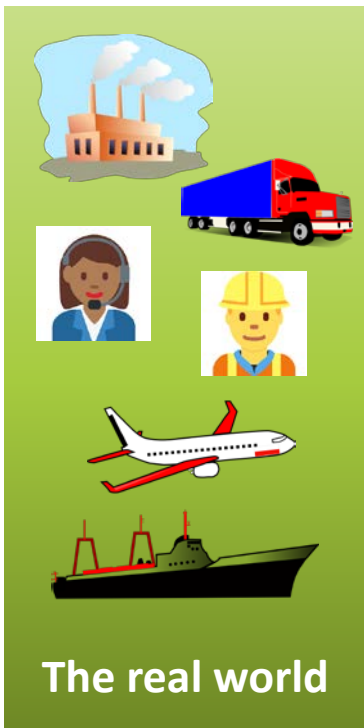
# Value added puzzle solving



“Mismatch”

“Suboptimal”

# The role of data science (machine learning)



“Mismatch”

“Suboptimal”

# The next era in supply chain planning



## Smart people solving local puzzles

### Keywords:

- Silos
- Manual Planning
- Knowledge with planners
- Suboptimal results of local puzzles

## Automatic Planning Runs

### Keywords:

- Operations Research
- Batch Runs
- Data quality
- Formalized knowledge and KPIs

## Supply Chain Planning & Optimization

### Keywords:

- Full supply chain
- Integrated planning platform
- Real time optimization
- Interaction & Workflow

## Self Learning Supply Chain

### Keywords:

- Continuous analysis of historic data
- Automatic learning
- Objective knowledge
- Using uncertainty
- Auto-tuning



2018



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