

# Using Hybrid Simulation to Model Construction Operations



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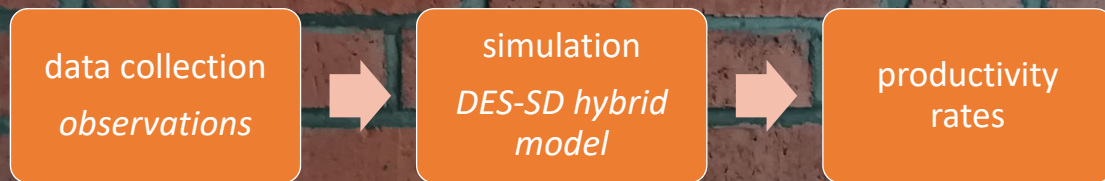
Dr. Barry GLEDSON

## Research objectives

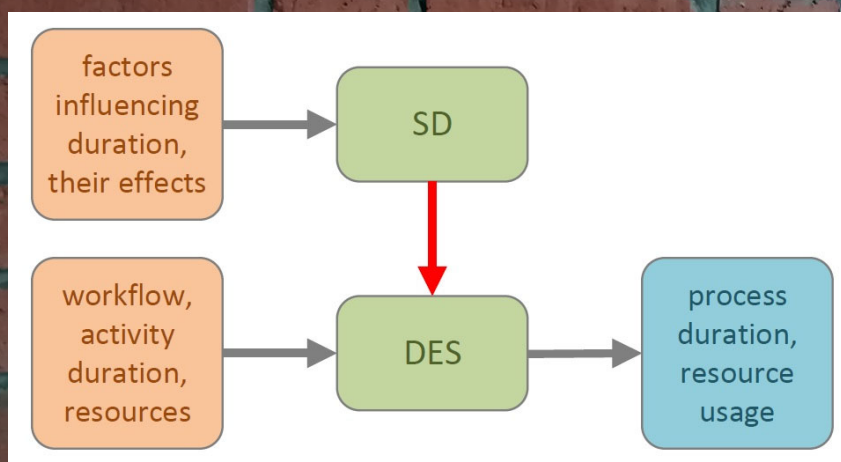
Main aim: to model masonry construction with the help of hybrid simulation in order to obtain better estimates for labour productivity, thus enabling more realistic project schedules, cost calculations, and resource allocation



## Research methodology



## Simulation model



### Factors:

- people
  - skills (speed, knowledge, independence, quality)
  - experience
- walls
  - material
  - bond
  - pattern
  - difficulty

