Enablers and barriers of model implementations in the healthcare sector

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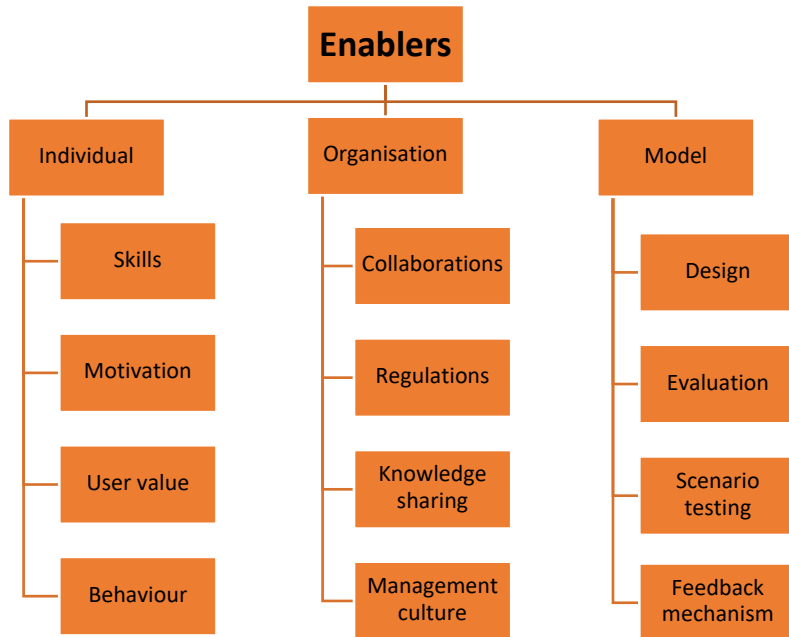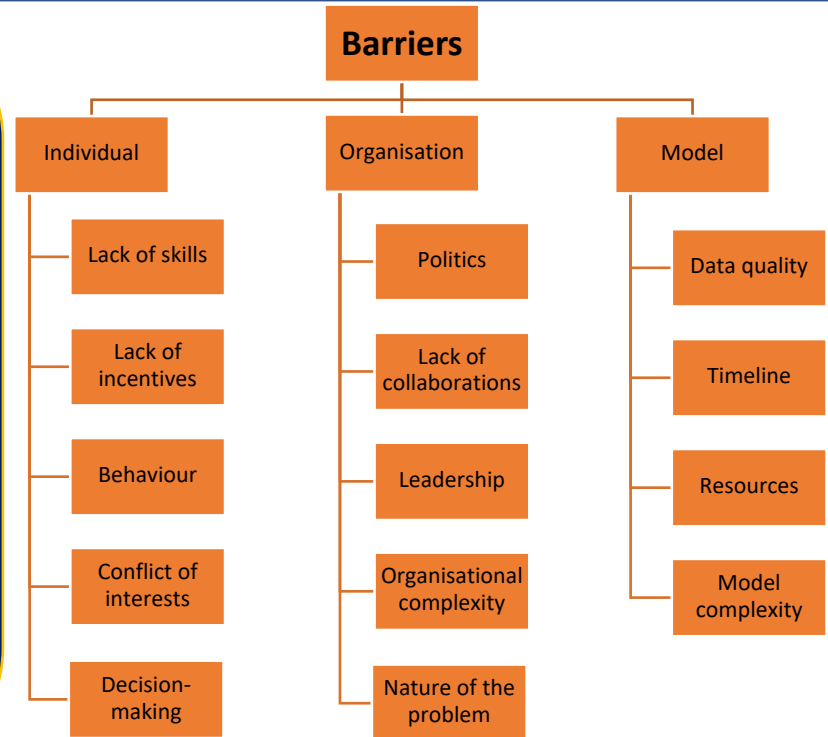**Problem statement:** To explore and understand the enablers and barriers of OR model implementations within the NHS.

Enablers

- Individual
  - Skills
  - Motivation
  - User value
  - Behaviour
- Organisation
  - Collaborations
  - Regulations
  - Knowledge sharing
  - Management culture
- Model
  - Design
  - Evaluation
  - Scenario testing
  - Feedback mechanism

A gap is found between the modelling process and its implementation by decision-makers in the healthcare sector.

A structured literature review helps build two frameworks with key factors, one for enablers and another for barriers of model implementations.

Using empirical data, these frameworks are cross-validated to improve and motivate the use of OR models in healthcare.

Barriers

- Individual
  - Lack of skills
  - Lack of incentives
  - Behaviour
  - Conflict of interests
  - Decision-making
- Organisation
  - Politics
  - Lack of collaborations
  - Leadership
  - Organisational complexity
  - Nature of the problem
- Model
  - Data quality
  - Timeline
  - Resources
  - Model complexity

Empirical data: Interviews and focus groups with NHS (UK Healthcare system) professionals to confirm the two frameworks (above) of enablers and barriers.

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