## Informed Systems Engineering

 Systems engineering.
The iSee group takes a model-enabled approach to enable informed decision-making, where it sees system models as the main carrier of information about a current/desired system.
 this domain of enterprise engineering.
Challenges:
Using system models to enable informed decision-making about systems in general, and enterprises in particular, creates several challenges. To name a few:

- Modelling languages \& frameworks to capture different (relevant) aspects of the current/desired affairs of systems, and their interrelationships.
- Hybrid (i.e. involving different mixes of humans and IT) derivation and validation of system models, resulting in "system cartographies"
- Next generation modelling tools to manage the resulting system models, including their compliance/transformational relationships,
- Next generation human-model interaction (using advanced IT environments) to enable informed-decision making in multi-stakeholder environments.


## Application areas:

The iSee group has applied their results across different sectors. These include:

- Finance
- Regulation
- Government agencies
- Health


## Current topics of interest

Foundational topics:

- The nature of enterprise modelling
- Hybrid assessment of enterprise models
- Human-model interaction

Applied topics, where iSee's generic interest on a model-enabled approach for informed decision making is applied to specific modern-day challenges:

- Enterprise risk management
- Enterprise regulations management
- Development of data ecosystems
- Development of AI \& Digital Twin powered enterprises
- Development of Anti-fragile enterprises

Competencies
Enterprise modelling, including the modelling of aspects, such as:

- Value
- Access control
- Risk management
- Regulation management
- Interoperability
- Enterprise architecture \& engineering
- Conceptual modelling \& ontology modelling


## Contact

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