



NOVALINCS
LABORATORY FOR COMPUTER
SCIENCE AND INFORMATICS



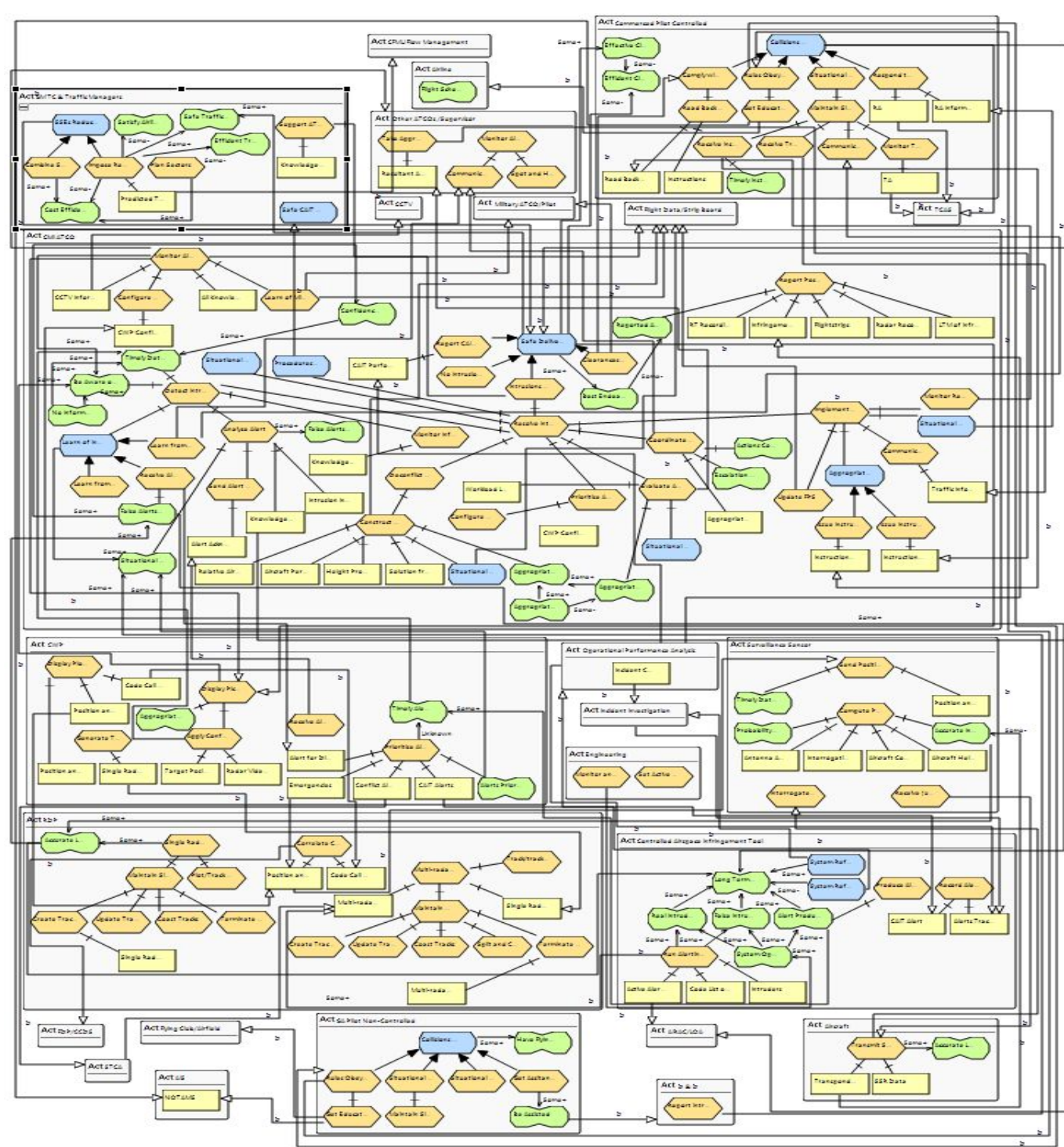
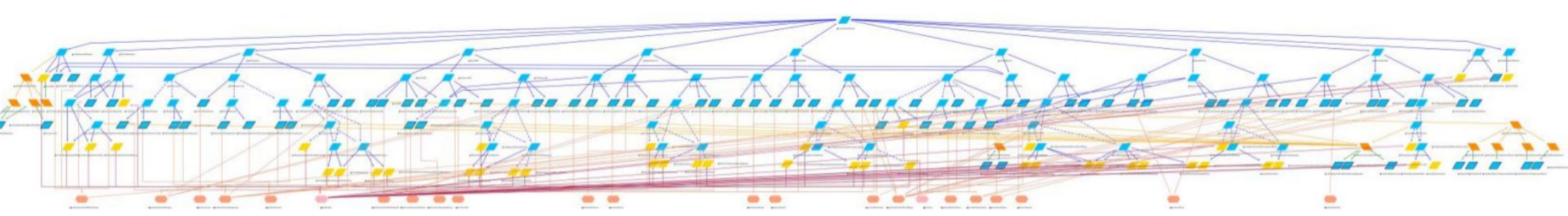
Catarina Gralha

PhD Student

Supervisors: Miguel Goulão and
João Araújo, FCT-UNL

FCT NOVA - COMPUTER SCIENCE PhD PROGRAM

Quality Evaluation of Requirements Models



Motivation

Requirements models are used for requirements elicitation and analysis

Communication with different types of stakeholders plays a major roles

Requirements engineers and other stakeholders need to have a common understanding of the models

Requirements engineering approaches are still struggling when it comes to managing the quality of their models

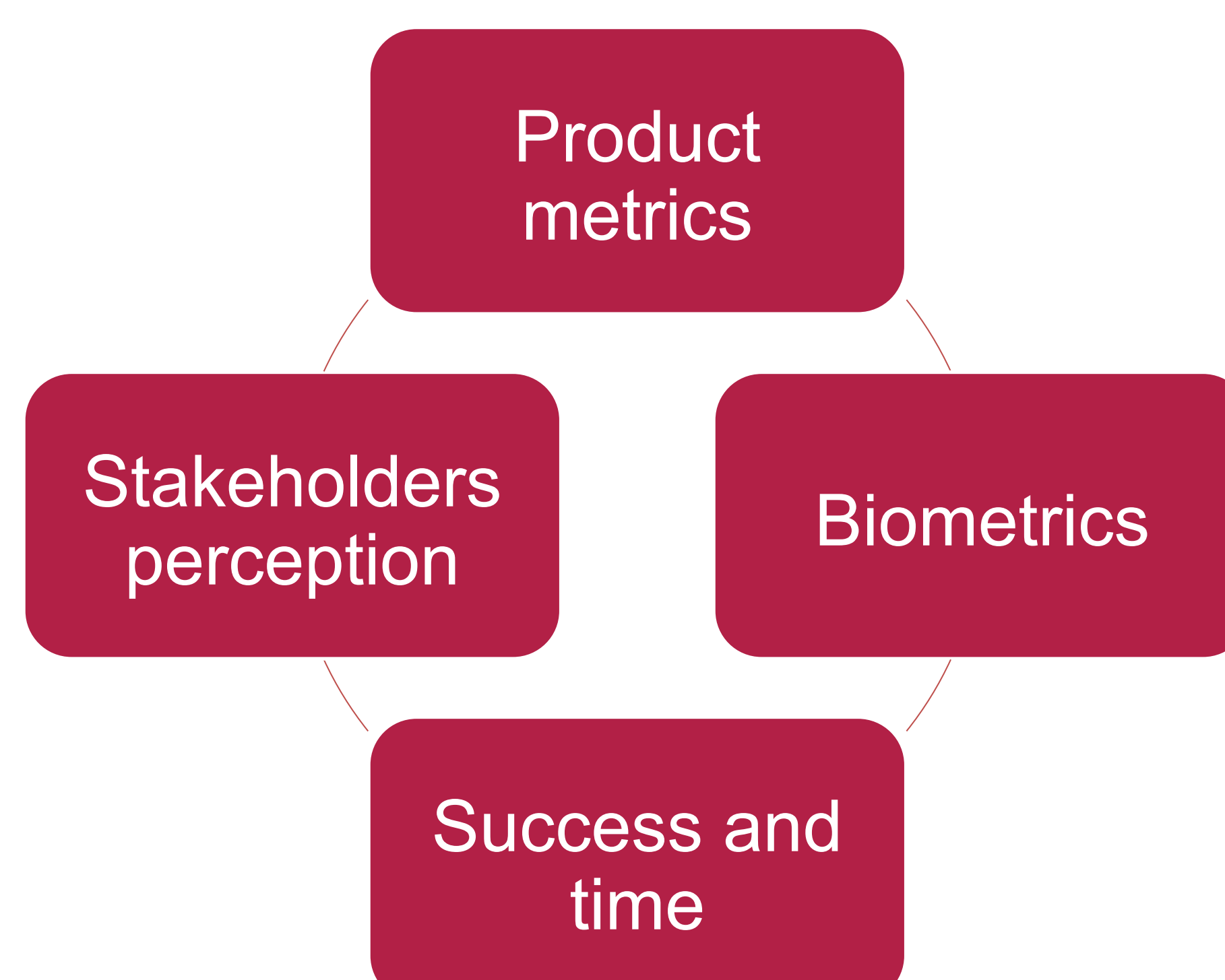
Problems in quality may case difficulties in the management and understanding of those models

Leading to incorrect implement of the software system, increased development time and cost

Main Goal and Methods

Evaluate the complexity, completeness, appropriateness recognizability and learnability of goal-oriented and scenario-based models

By understanding the quality problems that affect those models, it is possible to identify opportunities for their improvement



Initial Results

Quasi-experiment to assess the impact of good vs bad i^* model layouts

Triangulation of the success level in understanding and reviewing tasks, the required effort and eye-tracking information

Participants were more successful in understanding than in reviewing tasks

There was no statistically difference in the success, time or perceived complexity for tasks done with models with good or bad layouts

Adherence to the existing i^* layout guidelines did not significantly impact model understanding and reviewing performance



NOVALINCS
LABORATORY FOR COMPUTER
SCIENCE AND INFORMATICS



**FACULDADE DE
CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE NOVA DE LISBOA**

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA