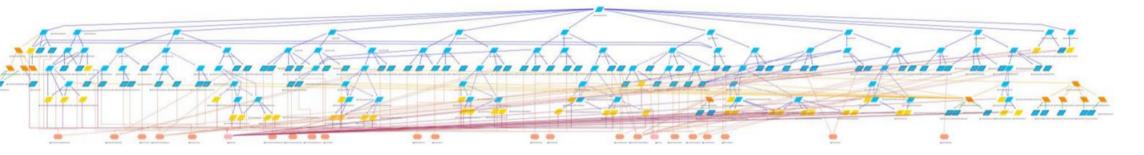


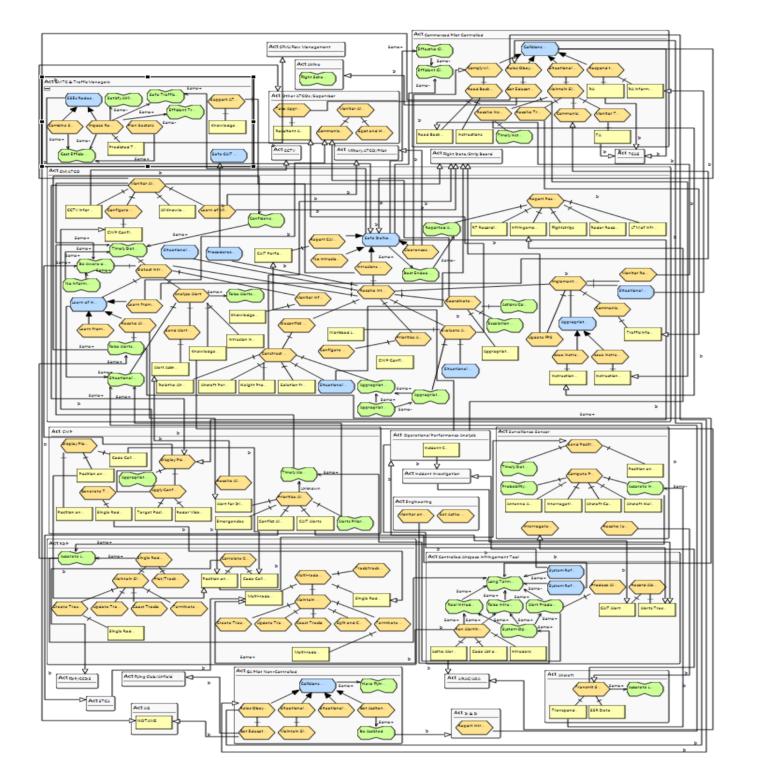
Doctoral Symposium @ RE 2016

Evaluation of Requirements Models

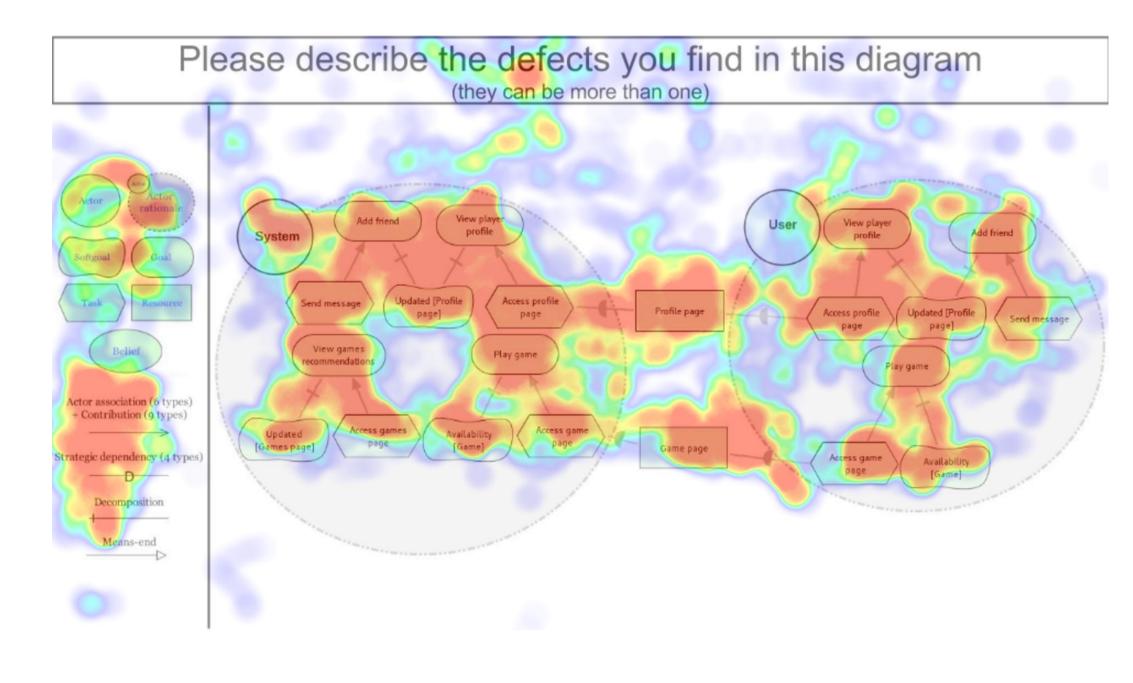


Catarina Gralha PhD Student Supervisors: Miguel Goulão and João Araújo, FCT-UNL









Motivation

Main Goal and Methods Initial Results

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

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

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

> Product metrics

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

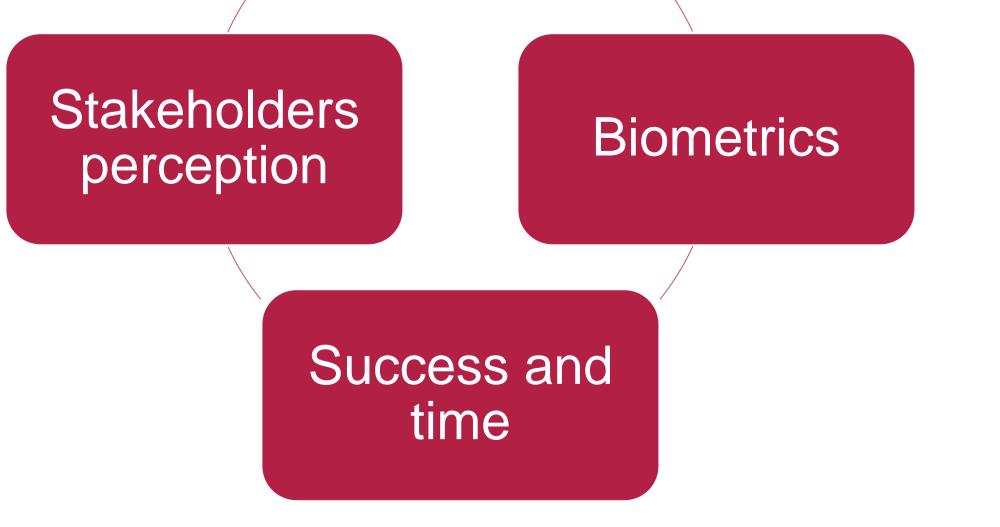
> Triangulation of the success level in understanding and reviewing tasks, the required effort and eye-tracking information

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

in the management and understanding of those models

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



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





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