

# **Consent to participate in an evaluation experiment**

**Title of the study:** Experiment for evaluating the usability and utility of the STS-IQ framework

## **Purpose of the study**

You are being asked to take part in a research study. The purpose of this study is to explore how the STS-IQ framework can support end-users for modeling and analyzing IQ requirements and then deriving the final IQ specification. Please ask the researcher if there is anything that is not clear or if you need more information.

## **Study procedure**

This study may take up to 2.5 hours. First, the STS-IQ framework will be presented, then you will be informed with the purpose of the study and the study process will be described to you in terms of its main activities. After that, we will describe the Intelligent Transportation Systems (ITS) domain, and then you will be provided with the scenario from the ITS domain. You will be asked to follow the methodology and use the STS-IQ Tool to model the IQ requirements. In particular, identifying and modeling the main actors of the scenario in terms of agents and roles they are playing. For each identified role/agent, we ask them to identify and model their goals and information that might be needed for achieving such goals, etc.

Then, you will be asked to use the reasoning support provided by STS-IQ Tool to analyze the IQ requirements model. In case there is any violation to the properties of the design, please modify the model accordingly, and then run the analysis again. This was an iterative process until the IQ requirements model is verified correct and consistent. Finally, you will be asked to automatically derive the final IQ specifications.

## **Privacy and confidentiality statement**

Your activities and responses will be anonymous. For the purposes of this research study, your comments will not be anonymous. Participant data will be kept confidential except in cases where the researcher is legally obligated to report specific incidents. Your data will only be used in combination with the responses of others participant in the experiment.

## **Vulnerability participation**

Your participation in this study is voluntary. It is up to you to decide whether or not to take part in this study. If you decide to take part in this study, you will be asked to sign a consent form. After you sign the consent form, you are still free to withdraw at any time and without giving a reason. Withdrawing from this study will not affect the relationship you have, if any, with the researcher. If you withdraw from the study before data collection is completed, your data will be returned to you or destroyed.

## Consent

I have read and I understand the provided information and have had the opportunity to ask questions. I understand that my participation is voluntary and that I am free to withdraw at any time, without giving a reason and without cost. I understand that I will be given a copy of this consent form. I voluntarily agree to take part in this study.

Participant's      signature      \_\_\_\_\_      Date      \_\_\_\_\_

Investigator's signature \_\_\_\_\_ Date \_\_\_\_\_