

Trial Participant: Quantum Robotic Systems Inc.

Transportation Innovation Challenge #2: Micro-Utility Devices

TRIAL PARTICIPANT INFORMATION

Quantum Robotic Systems Inc. (QRS) is a Toronto-based robotics firm developing hardware and software for autonomous mobile robots (AMRs) that can be used as service devices and/or personal assistance devices. They have five staff and partnerships with George Brown College, Toronto Metropolitan University, Mitacs and the AGE-WELL National Centre of Excellence. QRS demonstrated two devices:

- A small multi-purpose assistance device named QBii
- A Robotic Stairclimbing Assistant (ROSA) which is based on the QBii platform.

Category(ies): Personal Assistance, Service Device



DEVICE SPECIFICATIONS (QBii - Multi-Purpose Service Robot)

Device size: 24cm x 23cm x 18cm

Device weight: 5kg

Maximum speed: 3.6km/h

Sensors included: Single-point ranging LIDAR, Camera (optional), Gyroscope, Encoders, Expandable (GPS ultrasonic, IR, etc.)



DEVICE SPECIFICATIONS (ROSA - Robotic Stairclimbing Assistant)

Device size: 64cm x 41cm x 36cm

Device weight: 21kg

Maximum speed: 3.6km/h

Sensors included: Same as QBii