

# Trial Participant: Kevares Autonomous Services

Transportation Innovation Challenge #2: Micro-Utility Devices

## TRIAL PARTICIPANT INFORMATION

Kevares is based in Durham Region and develops robotic actuators, hardware, artificial intelligence and software that enables robots to deliver services such as autonomous sidewalk inspections, paid parking enforcement, autonomous lawn mowing, litter collection, and autonomous curbside delivery. Kevares landed their first paid pilot for the City of Oshawa sold in spring 2022. They have R&D operations anchored in Kingston/Queens University, private clients in Brazil and grant support with Mitacs, OCI and SOSCIP. Kevares also has private sector R&D partnerships with Fortran Traffic and Oshawa PUC, being as well a formal contributing partner to the Durham Regional Technology Development Site for OVIN, the Ontario Vehicle Innovation Network program from OCI.

For the TIC Trials Kevares demonstrated three devices: A Synkar SD02 robot, a Clearpath Husky robot, and a UniTree Go1 Quadruped robot were demonstrated.

**Category(ies):** Service Device, Delivery Device, Scanning/Surveillance Device



## DEVICE SPECIFICATIONS (SYNKAR SD02 ROBOT)

**Device size:**  
82cm x 47.5cm x 54cm

**Device weight:**  
40kg

**Maximum speed:**  
10km/h (1.5 km/h software enforced limit)

**Sensors included:**  
Cameras, GPS, IMU (inertial Measurement Unit / robotic gyroscope), Ultrasonic sensors (not on model demonstrated)

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## DEVICE SPECIFICATIONS (CLEARPATH HUSKY)

**Device size:**

External Dimensions:

990 x 670 x 390 mm (39 x 26.4 x 14.6 in)

**Device weight:**

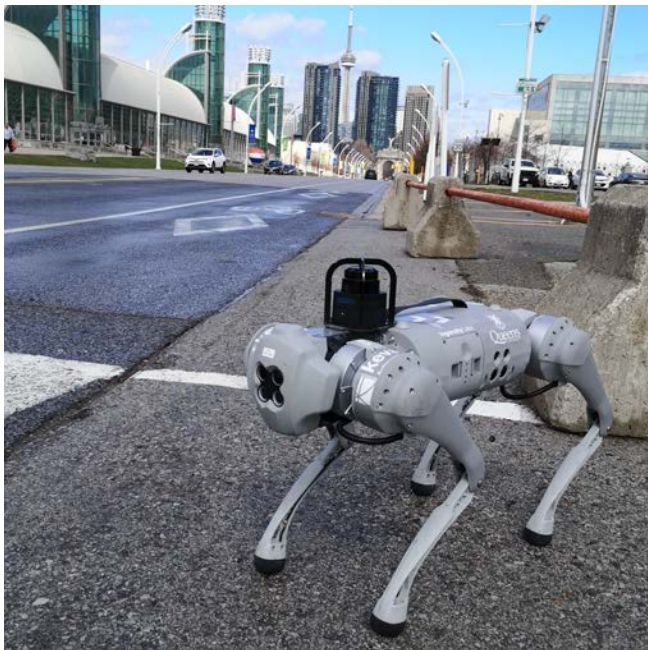
50 kg (110 lbs) / Max Payload 75 kg (165 lbs)

**Maximum speed:**

1.5Km/h (software enforced)

**Sensors included:**

Stereo cameras, LIDAR, GPS and IMU



## DEVICE SPECIFICATIONS (UniTree Go1)

**Device size:**

Folded:

0.588 x 0.22 x 0.29m

**Device weight:**

12kg / Adaptive load capacity≈ 3-5kg

**Maximum speed:**

1.5Km/h (software enforced)

**Sensors included:**

Stereo cameras, LIDAR, GPS and IMU