

### Live Space-time Tracks of Vehicles Using Foglets Infrastructure CPS: Breakthrough: Programming and Execution Environment for Geo-Distributed Latency-Sensitive Applications / Award# 1446801 / Award date 1/1/2015 PI: Umakishore Ramachandran, Georgia Tech

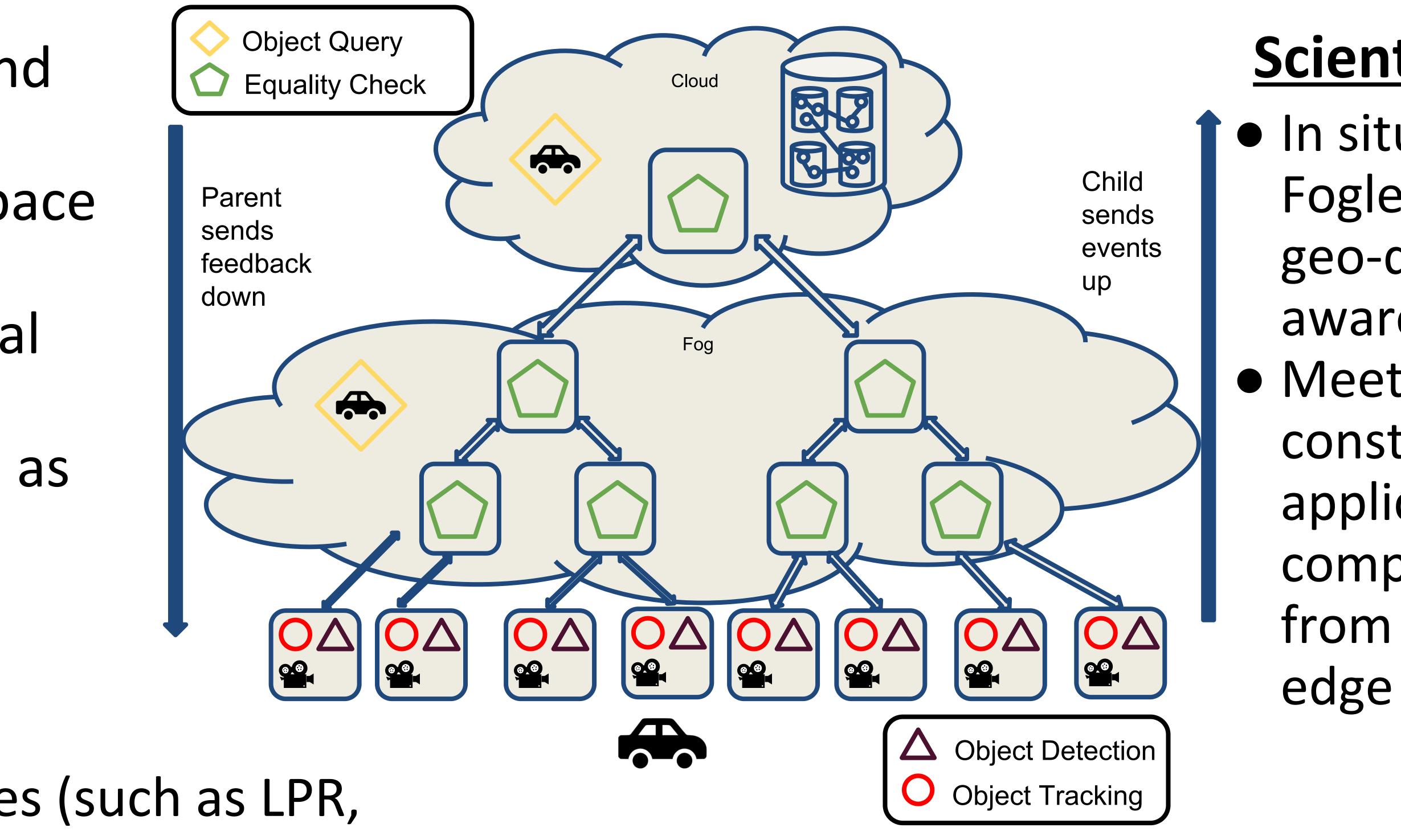
# **Challenge:**

 Automate live tracking and forensics for suspicious vehicle tracking across space and time using camera networks and multi-modal sensing in a large geographical space (such as Georgia Tech campus).

## **Solution:**

- Auxiliary sensing modalities (such as LPR, TPMS) for vehicle signature to correlate with video tracking
- Foglets distributed infrastructure for spawning/migrating application components

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# **Broader Impact:**

• Paves the way for automated geo-distributed multi-modal sensor systems that increase societal safety and quality of life • Extends the utility computing model of the Cloud to the edge

## **Scientific Impact:**

In situ demonstration of Foglets infrastructure for geo-distributed situation awareness Meeting latency constraints for applications that span the computational continuum from the cloud to the