

## "What are we going to do about delivery robots?"

If you're a member of city council or a local staff member, perhaps you've already heard this.

Are you prepared?



## Robots on City Streets - the Big Questions

**Public Mobile Robots (PMRs)** do far more than deliver food and small packages for e-commerce companies. They can be used by municipalities for picking up litter, mowing grass, spreading salt on sidewalks, managing parking and more.

If a conversation about PMRs hasn't already happened in your city, it's coming soon, likely triggered by one or more of these factors...

- Curbside congestion from the growth of e-commerce deliveries
- The growing needs of specific populations e.g., aging baby boomers
- A company just showing up and starting a robot delivery service
- A mandate to make streets smarter and improve active transportation

### Ensure conversations about PMRs are effective from the start

Our workshop, *Robots on City Streets – The Big Questions*, helps you ensure that your initial discussions about PMRs are focused on the right topics, in the right order. This is a critical first step in kicking off a more detailed investigation that would inform your city's decision to restrict or permit PMRs—and for what purposes.

### The Urban Robotics Foundation has unique expertise

We are a global not-for-profit foundation. With a focus on universal accessibility, we are drafting the ISO 4448 series—a global standard for the operation of Public Mobile Robots (PMRs) within pedestrianized spaces. Our expertise is the creation of standards in the context of the broader issues impacting the six stakeholder groups (including cities) invited to join URF.

## Robots on City Streets - the Big Questions

### Who should attend?

**Geared to elected officials and municipal staff** concerned with goods-related transportation, maintenance, public space and mobility policy, or Smart City initiatives.

### Workshop Topics

In this 2-hour workshop with generous Q&A time, we'll provide an overview of:

1. Why make PMRs a priority? What is the value for a city that permits them?
2. What are the basic issues & risks around PMR technology/deployment?
3. Who are the primary stakeholders and what do they care about most?
4. Where have PMRs been accepted/rejected? What have we learned?
5. How will standards such as ISO 4448 impact the deployment of PMRs?

### Fee Structure

Virtual/online **\$2,400** per workshop (25% discount for member organizations)  
In-person/ On-location (add travel time and expenses).

Led by URF Executive Director, Bern Grush, these engaging workshops are available to member or non-member organizations and can be conducted online or in-person (as his travel schedule permits).



*PMRs will share your city's sidewalks and roads with citizens of all ages and abilities.*

**Please contact us today to schedule a workshop for your team!!**

### The challenge of public mobile robots (PMRs)

Urban mobility innovations arrive rapidly and generate both opportunity and hype. Recent technologies, such as ride-hailing, e-scooters, and e-bikes, have brought both value and complex problems to cities.

PMRs are unlike current forms of motorized vehicles. They also differ from bicycles or pedestrians. Legislators often compare them to pedestrians because many share the same space and speed. Is this adequate for governance?

It is critical that cities are equipped to provide governance for gradual PMR deployment. Cities need to be guided by a regulatory and infrastructural framework that is sensitive to safety, equitable accessibility, and the behaviour of automated devices among vulnerable pedestrians.

Collaboration and municipal readiness are necessary to generate positive social innovation. It is critical that change is guided by governance rather than determined by dominant commercial forces.

**Our goal at URF is collaboration to establish international standards, guidelines, and certification methods** that ensure robotic passenger and goods systems are safe, managed, and contribute to improved livability for cities and their people.