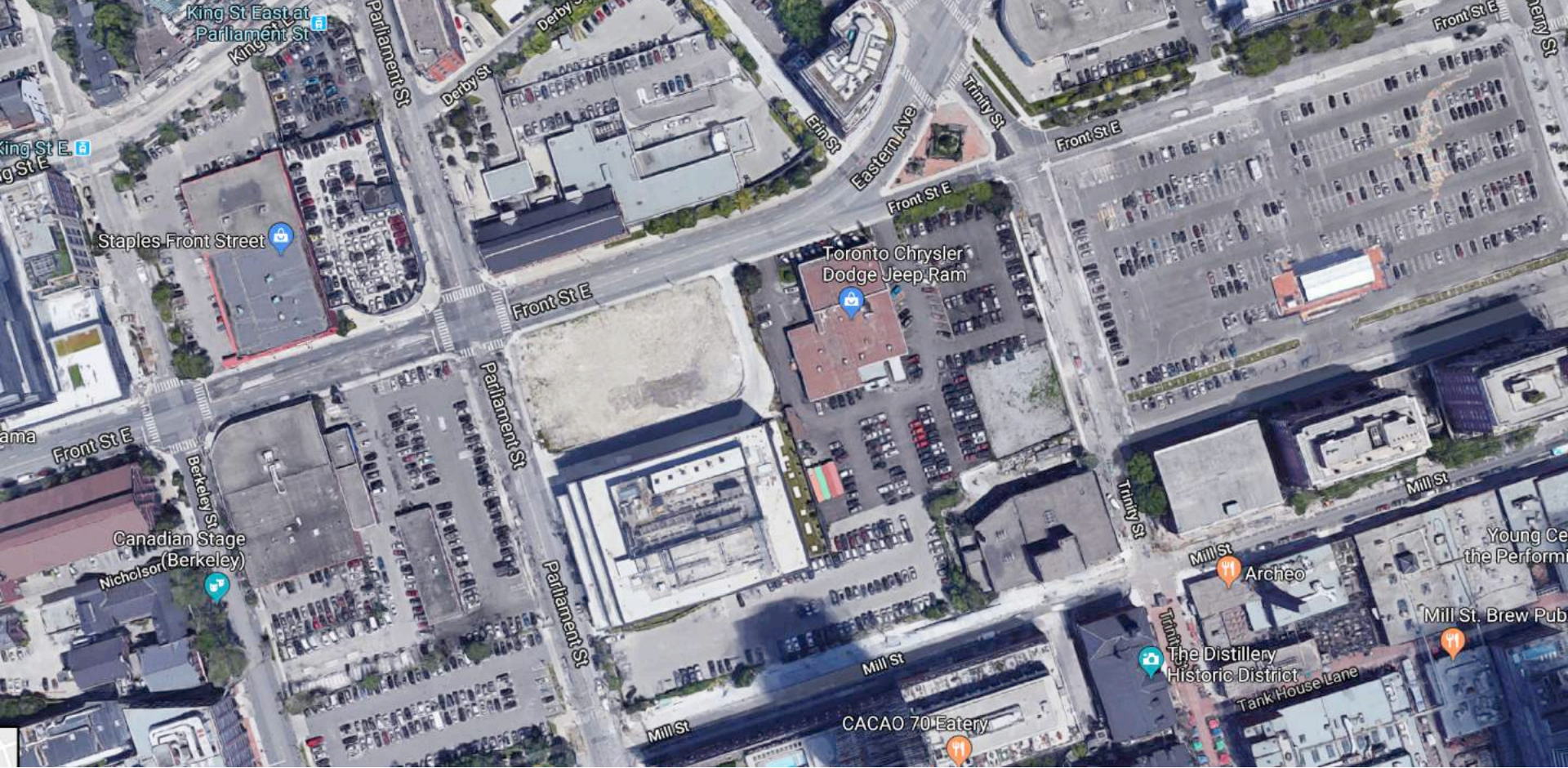


Automated vehicles: Will parking (as we know it) really disappear?

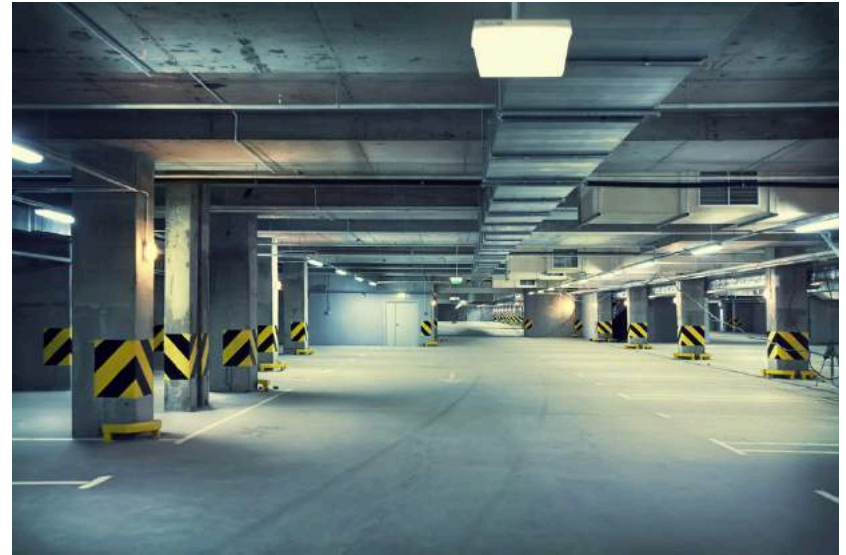
Presented by:

Bern Grush

- **Grush Niles Strategic**
- **PayBySky**
- **Harmonize Mobility**



How will parking attrition play out?



My working hypotheses

Regulation controls abandonment and reuse)

Only the order of reuse really matters

Reuse will be driven by money
(and controlled by regulation)

Regulation controls abandonment

...and reuse

Abandonment

- Parking minimums

- City parking vs property and business tax revenue

Re-use

- Building codes

- Zoning

- Environmental assessments

The order of reuse

Under new office and residential buildings

Free standing garages

Transit lots

Surface lots

Paid street parking

Under existing buildings

Free street parking

Under new office and residential buildings

Starts immediately

Cost avoidance

But, with caution: “Better to have empty parking spots than unsold office space”



Freestanding garages

Prime locations for redevelopment

Location value is why garage was built instead of a surface lot.



Transit lots

Massive lots for all day parking

Early target for robotaxi/shuttle

Potential for residential development

Smart city builders will remove parking minimums before this starts



Surface lots

Easy to repurpose

Many will be sites for new buildings with more people, but fewer parking spaces...

...hence harder to decommission any proximate spaces...



Paid street parking

Cities depend on the revenue
(or will they replace its with new curb fees?)

Conflict: new demands on curb!

Conflict: demand for bike/scooters/
boards/surface drone delivery?



Under existing buildings

Hard to repurpose. No natural light, low ceilings, older structures.

Park/recharge distributed robotaxis off-peak?

There will still be car owners living/working in proximate zero-parking buildings!



Free street parking

Historically, the least valued of all city property (we mostly give it away, right?)

City should be expected to start charging for this.



Parking reuse winners

Gold: Developers

Silver: City

Bronze: Bus, cyclists, delivery



How will parking attrition play out?



The new end state will be different, but it is unlikely to be as idyllic as many hope



Garage

Transit

Surface

Street

The End of Driving

Transportation Systems and Public Policy Planning
for Autonomous Vehicles

Bern Grush • John Niles

Focusing on the urban and social issues of automated vehicles deployment, the book provides research-based paths for creating flexible transportation systems and policies that capture the opportunities and avoid the pitfalls of a driverless environment.

- Foreword by Susan Shaheen, PhD, Adjunct Professor and Co-Director, Transportation Sustainability Research Center, University of California, Berkeley
- Offers a workable public transit solution design melding the traditional acquire-and-operate mode with the absorption of new technology as it is ready;
- Provides a step-by-step discussion of digital system designs and effective regulation-by-data approaches needed for a new urban mobility;
- Learning aids include case study scenarios, chapter objectives and discussion questions, sidebars, and a glossary.

While many transportation and city planners, researchers, students, practitioners, and political leaders are familiar with the technical nature and promise of vehicle automation, consensus is not yet often seen on the impact that will result, or the policies and actions that those responsible for transportation systems should take.

The End of Driving: Transportation Systems and Public Policy Planning for Autonomous Vehicles explores both the potentials of vehicle automation technology and its barriers to forming coherent urban deployment. The book evaluates the case for deliberate development of automated public transportation and mobility-as-a-service as paths toward sustainable mobility, describing critical approaches to the planning and management of vehicle automation technology. It serves as a reference for understanding the full life cycle of the multiyear transportation systems planning processes, including regulation, planning, and acquisition tools for regional transportation.

Application-oriented, research-based, and solution-oriented rather than predict-and-warn, the book concludes with a detailed discussion on the systems design needed for accomplishing this shift.

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The End of Driving

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Automated Vehicles: Will parking really disappear?

Thank you



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