

Toronto: Towards a Smart and Inclusive City-Region



Date: Tuesday, May 15, 2018

Time: 8:30 a.m. to 2:00 p.m.

Location: Chestnut Conference Centre, 89 Chestnut Street, Toronto, ON

[REGISTER HERE](#)

The Toronto city-region is at an inflection point. How do we manage a rapidly growing tech sector while also supporting communities and local entrepreneurs? Can we build partnerships across sectors that will stimulate innovation and prosperity?

At the University of Toronto's free event, *Toronto: Towards a Smart and Inclusive City-Region*, these important questions will be discussed with **Dan Doctoroff**, CEO of Sidewalk Labs; Professor **Richard Florida**, Director, Martin Prosperity Institute, Rotman School of Management; Professor **Meric Gertler**, renowned urban scholar

The Urban Economic Geography of Ridehailing: Global Prospects? Canadian Prospects?

Creating Digital Opportunity Annual Conference, April 25, 2018, Toronto, Canada.

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The Urban Economic Geography of Ridehailing

- Smart & Inclusive as Mutually Exclusive: Facts & Problems
- World City Typologies
- Does Ridehailing Create Digital Opportunity in Canada?

Private automobiles sit idle **95%** of the time
(Shoup, 2005)

Digital technology (**GPS**) & scale of **smart phone adoption** facilitates unprecedented growth of ridehailing

In the US, **2%** of ALL trips on public transit, taxi
AND ridehailing (Sperling, 2017)

In the US, less than **.5%** of vehicle miles travelled via ridehailing (Zimmer, 2017)

The future of automotive: electric, **shared & autonomous**

Convergence of ridehailing + autonomous vehicles: potential to be **massively disruptive** yet **transformational**

A **global challenge** with **global impacts**:
sustainability, economic development, urban
form, **digital opportunity + digital divides**

The internet and the platforms that it makes possible allow very small groups of individuals to make enormous profits while **employing very few people**. This is inevitable, it is progress, but it is also **socially destructive**

-- Stephen Hawking, 2016

As ridehailing moves from **renegade to regulated**... role for knowledge, insight, policy & regulation to **set, re-set and redirect**



“Today, the transportation systems in most global cities have reached capacity—they are out of room. As more people seek to access and benefits concentrate in those urban centers, these already stressed systems are collapsing, unleashing overwhelming pollution and paralyzing congestion.”

-- Jim Hackett, CEO, Ford, January 9, 2018.

World City Typologies

- **World Cities**

- Measuring concentration – producer services, culture, immigrants (Beaverstock et al, 1999; Kratke, 2003; Benton-Short et al, 2005)

- **World Cities in the Platform-Economy Era**

- Concentration of firms, jobs, investment, activity, spillovers (Davidson & Infranca, 2016; Farrell & Greig, 2016; Hathaway & Muro, 2016)
- Winner Take All Urbanism: including deepening inequality (Keil 2017; Kenney and Zysman 2016; Schor 2017; Slee 2015)

- **Mobility World Cities?**

- Are disruptions to mobility / automotive leading to a new economic geography-world cities of mobility?
 - Headquarters, investment & acquisitions, partnerships, testing centres, etc.

World Cities of Ridehailing Typology:

Investment

- Centre of activity in acquisition, partnership, other financial transaction

Testing

- Centre of testing, prototyping, pilot activities

Operations

- Centre of ride-hailing operations

Investment: Ridehailing Unicorns

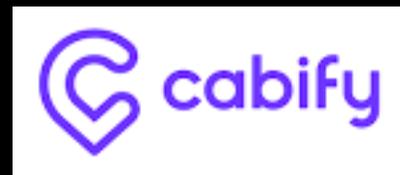
\$48B +



\$5B – \$11B



\$1B – \$4.5B



Investment: HQ Locations of Ridehailing Unicorns



Economic Geography of Ridehailing Investment

:

- **Global / World Cities**
 - Beijing, China – Didi Chuxing
- **Tech Sector Concentration**
 - Bangalore, India – Ola
- **Automotive Industry Clusters**
 - Toronto, Canada – Magna / Lyft
- **Leading Universities**
 - Pittsburgh, US – Carnegie Mellon / Uber
- **Municipal / State ‘Welcome’**
 - Phoenix Metro, AZ – Uber, Waymo



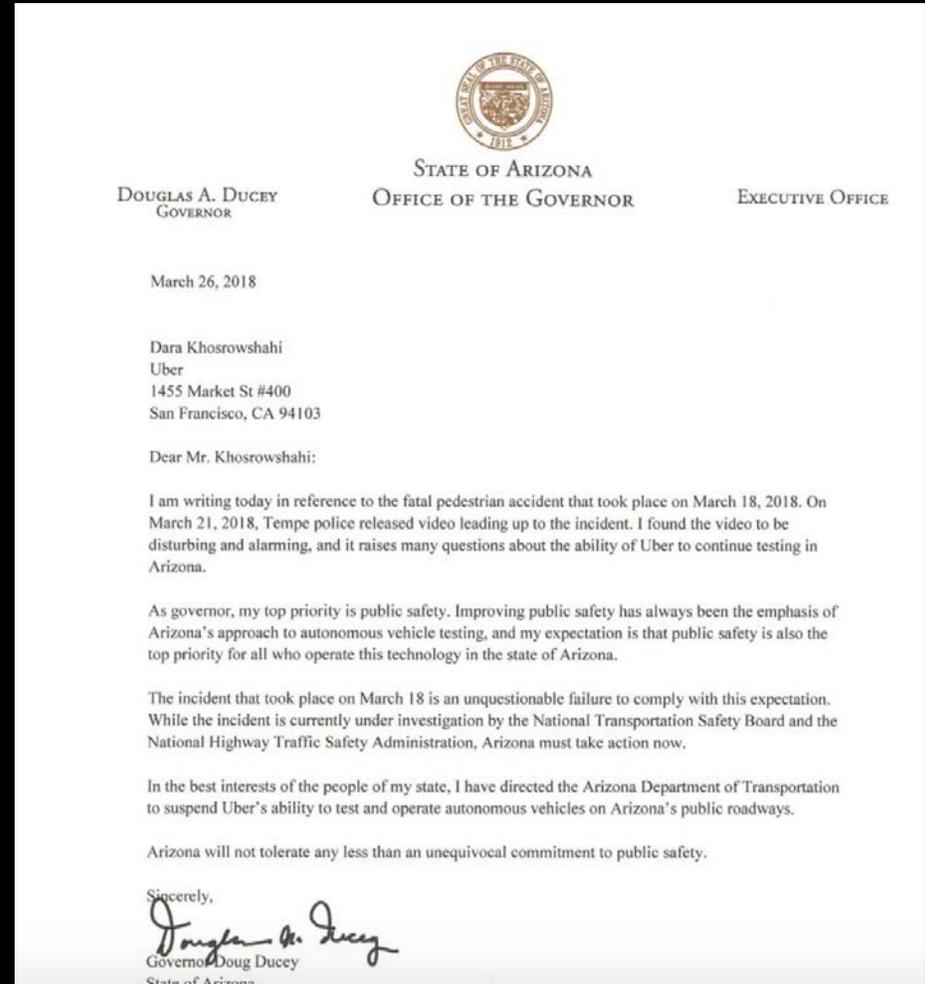
Testing Centres: Roll Out the Red Carpet



“It’s not our role to throw up regulations or limit companies like Uber” said Bill Peduto, Pittsburgh’s mayor...”You can either put up red tape or roll out the red carpet. If you want to be a 21st century laboratory for technology, you put out the carpet.”

-- New York Times, November 11, 2016

Testing Centres: Rescind the Red Carpet




DOUGLAS A. DUCEY
GOVERNOR

STATE OF ARIZONA
OFFICE OF THE GOVERNOR

EXECUTIVE OFFICE

March 26, 2018

Dara Khosrowshahi
Uber
1455 Market St #400
San Francisco, CA 94103

Dear Mr. Khosrowshahi:

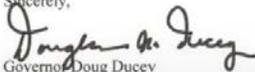
I am writing today in reference to the fatal pedestrian accident that took place on March 18, 2018. On March 21, 2018, Tempe police released video leading up to the incident. I found the video to be disturbing and alarming, and it raises many questions about the ability of Uber to continue testing in Arizona.

As governor, my top priority is public safety. Improving public safety has always been the emphasis of Arizona's approach to autonomous vehicle testing, and my expectation is that public safety is also the top priority for all who operate this technology in the state of Arizona.

The incident that took place on March 18 is an unquestionable failure to comply with this expectation. While the incident is currently under investigation by the National Transportation Safety Board and the National Highway Traffic Safety Administration, Arizona must take action now.

In the best interests of the people of my state, I have directed the Arizona Department of Transportation to suspend Uber's ability to test and operate autonomous vehicles on Arizona's public roadways.

Arizona will not tolerate any less than an unequivocal commitment to public safety.

Sincerely,

Governor Doug Ducey
State of Arizona

Operations: Global Reach, Regional Variation





Does Ridehailing Create Digital
Opportunity in Canada?

From Renegade to Regulated: Ridehailing in Canada

Ride-hailing Regulated / Permitted to Operate



Uber Operations





**VECTOR
INSTITUTE**



**TORONTO REGION
RESPONSE TO AMAZON HQ2 RFP**





INNOVATION CENTRE



BUICK

GMC

TORONTO GM MOBILITY CAMPUS

World Cities & Ridehailing

- **Decidedly urban**
 - Automotive sector has discovered cities, concepts of clustering & spillover effects, benefits of population density, transition to mobility services
- **Dizzying pace of change**
 - Cities & urban infrastructure characterized by physical inertia
 - Responses to platform economy by cities characterized by dynamism & speed
- **Key concerns around participation:**
 - Inclusivity in winner cities
 - Intentional policy / decisions to support other cities
- **New rounds of industrial structuring & restructuring**
 - Overhaul in automotive
 - Opportunity for change & responsiveness
 - Connected to innovation, convergence, mobility as a service

Thank you



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