



ICT4S

May 17, 2018

Sidewalk Toronto



Leveraging Quayside to begin something transformational



WATERFRONTToronto



A new approach

- Through conversations with city-builders around the world, a bold vision for Quayside came into focus.
- Quayside could become a globally noteworthy testbed for technological innovation.
- Focused on sustainability, resilience, transit, building innovation, and economic opportunity.
- Ideas piloted at Quayside could be brought to scale across the waterfront, replicated in neighborhoods throughout Toronto—and, ideally, be adopted by cities around the world.

A different kind of partner

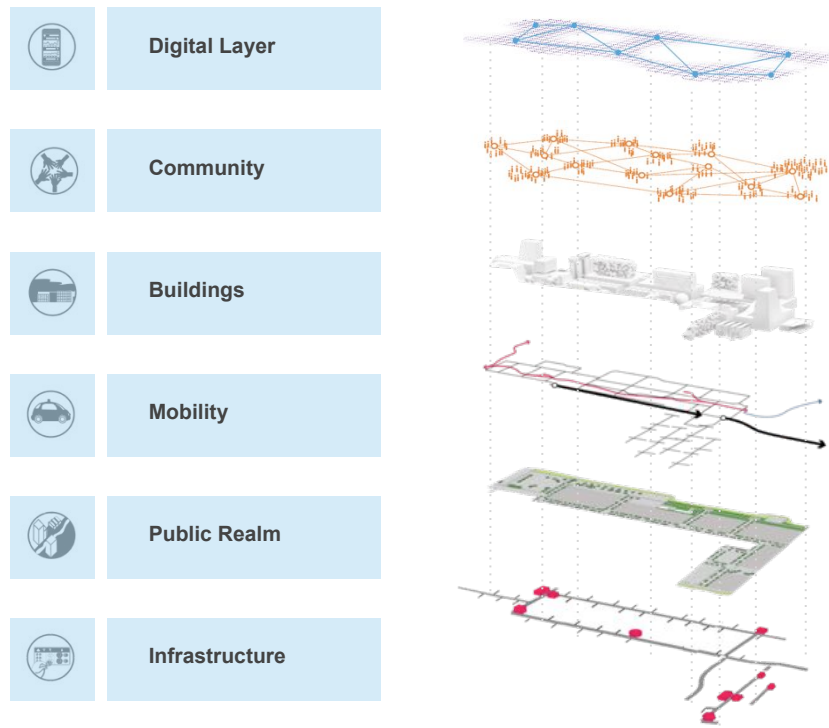
- Bringing this idea to life required a different kind of partner.
- RFP and robust procurement process to identify an “Innovation and Funding Partner.”
- Demonstrated expertise in the integration of real estate, city-building, and technology.
- Ambition to create a new kind of place with global impact—and willingness to invest in the idea.



The Sidewalk Toronto approach to innovation

- Cities are—and always have been—platforms upon which millions build, over decades and centuries.
- Sidewalk Toronto aims to update that platform for the 21st century, and create a combination of the digital and physical working together as one.
- The digital layer will be a new and transformative element that enables connectivity, access, and data integration across the components of the city's physical layer.
- Digital technology allows for new modes of service delivery, building innovation, mobility services, public realm design, and infrastructure systems. Each of these will be reimaged.

THE CITY AS A PLATFORM



DIGITAL LAYER

PHYSICAL LAYER

A truly climate positive community

By adopting distributed, decentralized infrastructure, building radically low-load buildings, utilizing robotics to increase automation, and implementing heat exchangers, we can create **new levels of environmental sustainability while maintaining reasonable costs.**

- Building Standards
- Active Demand Management
- Advanced Microgrid
- Thermal Grid
- Smart Disposal Chain
- Utility Channels

SUSTAINABILITY



A testbed for Toronto's future



AV Shuttle

Set up an autonomous shuttle service to and from downtown Toronto and Cherry Beach to create an exciting transit experience for Torontonians and begin putting driverless technology to work for the public good.



Dynamic Curb

Test technology to make regulations flexible in real time and thereby enable the curb to prioritize different needs and uses throughout the day, maximizing utility and improving flow.



Smart Chute

Implement pay-as-you-throw waste programs in private multi-family settings to improve rates of diversion.





Challenge question:

What conditions, rules and structures would make a place conducive to both academic and entrepreneurial experimentation while protecting privacy and preventing residents from the downsides of living in a “lab”?

