

Chicago is home to the second largest transportation system in the U.S.<sup>1</sup>

+/600 bus riders<sup>2</sup> (on an average weekday)

8 bus stops<sup>1</sup>

bus routes1

Yet from 2019 to 2020, city bus ridership fell by almost 50%.2

Everyday life in Chicago revolves around public transportation. However, social distancing measures amid COVID-19 as well as traffic, weather, and other everyday logistical hiccups, can lead to crowded buses, long wait times, and unplanned delays.<sup>3</sup>

To deliver better rider experiences, cities like Chicago need to simplify

operations and create better data — now and in the future.

Edge technology is helping CTA riders get from point A to point B — faster, smoother, and more safely.

sensors and onboard Wi-Fi beacons — is installed and integrated with existing fare systems and onboard video feeds. Al aggregates and analyzes data at the

New IoT technology — such as LIDAR

operators in near-real time.

edge, then shares the data with CTA



transit demand as they happen.

their current fleet management system. This flexible, open-architecture solution can be easily expanded to other vehicles to deliver long-term improvements citywide.



The Chicago Transit Authority is using one of its busiest locations — the 79th Street bus corridor — as a test bed for measuring transit occupancy.

City Tech Collaborative is leveraging its expertise as an urban solutions

accelerator to create a scalable, open-architecture fleet-monitoring platform.



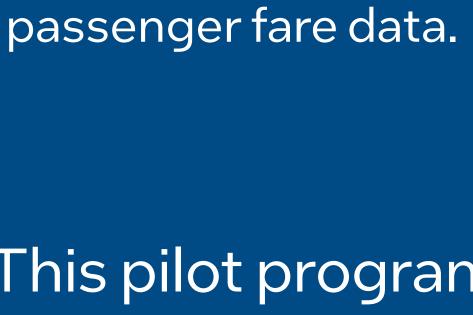
intel

**Intel Corporation** is enabling the transformation of CTA buses into IoT ecosystems that use video and sensor feeds to show up-to-the-minute vehicle utilization.

**Genetec** is creating projection models that leverage new and existing data streams —

including weather data, time of day, and events — to proactively manage fluctuations in

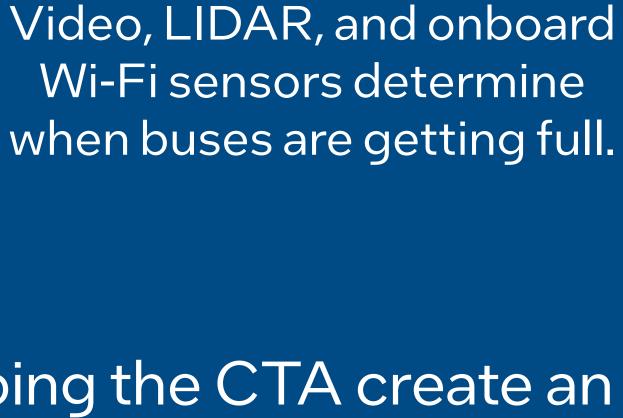




Al tracks and analyzes rider

demand in real time using

This pilot program is helping the CTA create an agile, adaptable platform for tackling short-term operational challenges and pursuing future





innovation and growth.

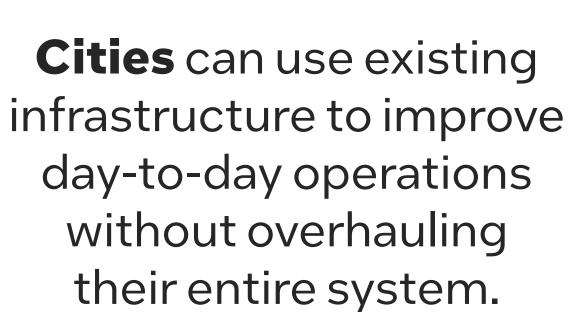
systems flexible, seamless, and scalable

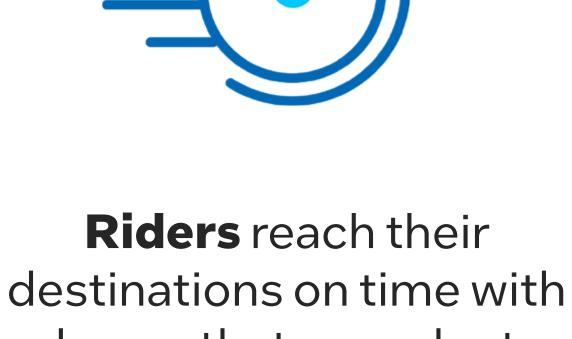
**SEAMLESS** 

Technology at the edge makes city transit

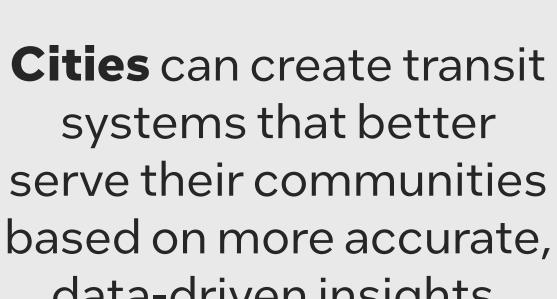
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**FLEXIBLE** 





buses that can adapt to weather, ridership spikes, and traffic.

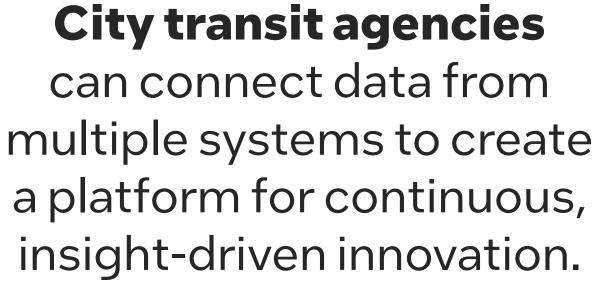


data-driven insights.

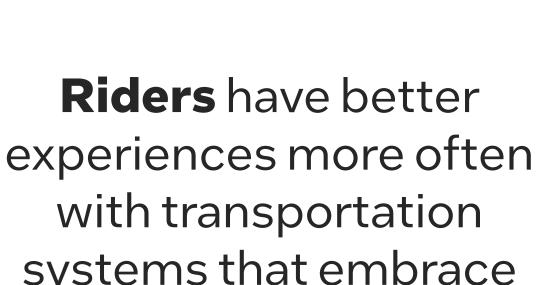


Riders can use accurate bus capacity data to follow social distancing guidelines

more consistently.



**SCALABLE** 



systems that embrace innovative technologies.

By transforming legacy infrastructure with technology at the edge, cities can use their data as a vehicle for change.

Learn more at intel.com/SmartTransportation

1. Chicago Transit Authority, <u>"Facts at a Glance"</u> 2017. 2. Chicago Transit Authority, <u>"Annual Ridership Report, Calendar Year 2019"</u> January, 16, 2020.

3. City Tech, <u>"Finding a Space of Your Own, Together"</u> December 14, 2020.

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