

Automation of Buses

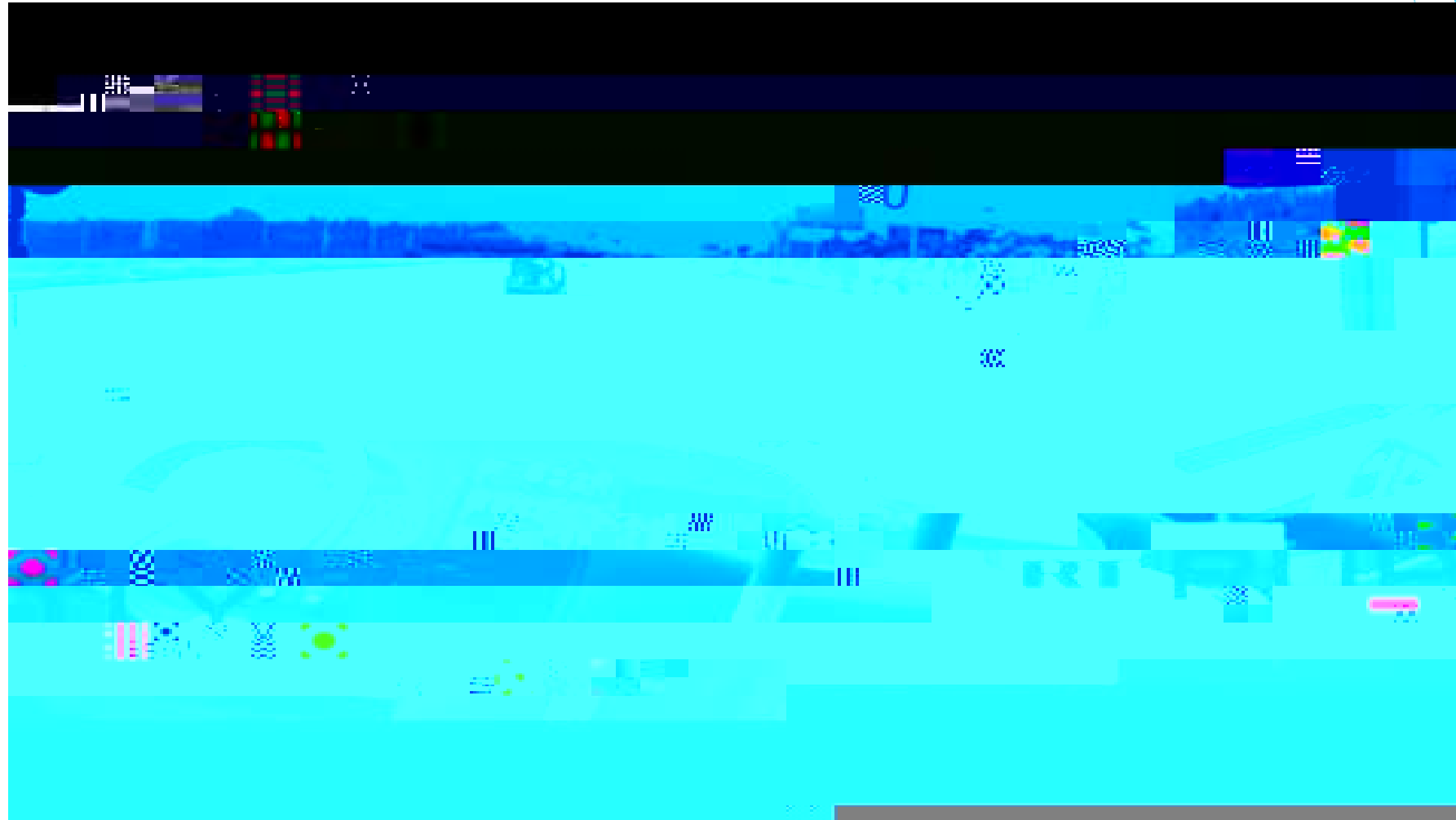
A Glance at the Future of Transportation

What Are Autonomous Buses?

- ▶ Electrically -powered
- ▶ Self-driving
- ▶ Transports twelve or more passengers
- ▶ Utilizes



Example of Autonomous Bus- China



Future of Autonomous Buses

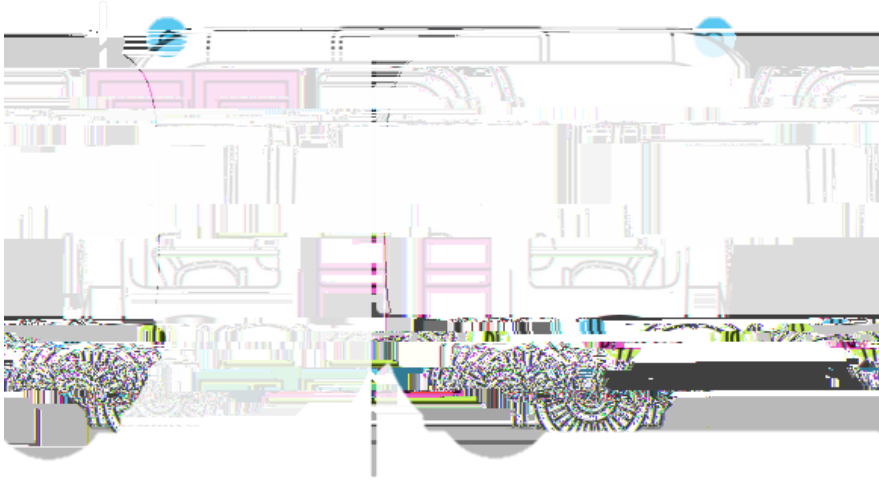
- ▶ Worldwide revenue from autonomous trucks and buses reached \$84 million in 2017.
- ▶ Market will develop at a strong pace over

Olli Shuttles

- ▶ 360 degree sensors with LiDAR technology (Light Detection and Ranging) and radar.
- ▶ Remote vehicle monitoring.
- ▶ Transport up to 8 passengers.
- ▶ Travel up to 25 miles per hour.
- ▶ Equipped with IBM's Watson Internet of Things Platform, enabling it to answer questions riders have and assist in locating places for them.



Safety is in the Details



- ▶ Sensors are not affected by lighting, dust, or fog.
- ▶ System checks automatically for safety in all modes and is continuously collected and monitored.

Transit Automation Research Funding Opportunities

- ▶ USDOT made up to \$60 million in federal funding available for grants in 2018.
- ▶ FTA made \$500,000 in Section 5312 funds available for agencies to begin research in 2019.
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