Reimagining Local Delivery
An introduction to Nuro’s autonomous delivery technology and vision.

Greg Rogers
Introducing Nuro

- Our goal is to provide fast and affordable deliveries to consumers.

- Partnerships with Kroger, CVS Pharmacy, Walmart, and Domino’s Pizza.

- Our custom-built vehicle, R2, is autonomous, electric, and designed exclusively to carry goods.
Self-driving can meet the demand for low-cost, on-demand last-mile delivery.
The Retail Transformation

Consumer commerce is shifting online.
- People are receiving more and more Amazon packages every day
- Meanwhile, local retail stores must innovate in order to compete

On-demand services are a fraction of overall delivery volumes.
- DoorDash is becoming the largest player in prepared food.
- Instacart is becoming the largest in groceries.

As a society, must evaluate how this replacement of our trips to the store affects:
- Emissions
- Local economy
- Jobs in our community
- Access for those who cannot afford delivery
The Retail Transformation

Affordable deliveries from local stores

Electric delivery = fewer emissions

Better health outcomes

Supporting local economy, jobs in the community

Safer streets for everyone
Local economic growth and job creation

CREATE NEW JOBS
3.4M jobs created and sustained annually.
To illustrate the size of this new labor force, that’s more than the 3.2 million public school teachers in the U.S.

STIMULATE LOCAL ECONOMIES
$4.1T in U.S. economic activity.
That is more than the total $3.5 trillion in economic activity from the oil and gas extraction industry over the last decade.

Source: “Economic Impacts of Autonomous Delivery Services in the US,” Steer Group, Sept. 2020
Improving transportation outcomes

**Reduce Crashes**

fewer injuries resulting from crashes.
And help prevent 4,800 Americans from dying in car crashes. That’s as many people as could fit on 22 Boeing 737 planes.

**Give People Time Back**

21B hours of time saved.
That’s the amount of time Americans would save driving to and from the store over the ten year period. It’s equivalent to every customer recouping 1.5 hours every week.

**Decrease Emissions**

407M less tons of CO₂ emitted into the air.
That would offset the emissions from powering every household in NYC, LA, Chicago, and Houston combined, for ten years.

Source: “Economic Impacts of Autonomous Delivery Services in the US,” Steer Group, Sept. 2020
Avoiding as much CO\textsuperscript{2} emissions as 10 coal-fired power plants

<table>
<thead>
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<th>Emissions avoided</th>
<th>CO\textsubscript{2}</th>
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<tr>
<td></td>
<td>Particulate Matter 2.5</td>
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<tr>
<td></td>
<td>Nitrous Oxide (NOx)</td>
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<tr>
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<td>Volatile Organic Compounds (VOC)</td>
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Based on emissions avoided by reducing total US VMT by 72B miles, plus replacing 119B miles of driving by gas-powered personal vehicles with electric delivery AVs over 10 years.

Advancing equity through better access

Low Income Food Desert Population

20M

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New York State Total Population

19.5M
THANK YOU