Urban freight and climate change

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Session: Stopping Climate Change with Sustainable Transport, June 25, 2019
A huge carbon footprint

Share of freight in total transport emissions in Paris

<table>
<thead>
<tr>
<th></th>
<th>Total region</th>
<th>Paris</th>
<th>Dense suburbs</th>
<th>Far suburbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2</td>
<td>19.4</td>
<td>33.9</td>
<td>17.6</td>
<td>6.6</td>
</tr>
<tr>
<td>PM10</td>
<td>29.6</td>
<td>46.4</td>
<td>27.8</td>
<td>11.3</td>
</tr>
<tr>
<td>NOx</td>
<td>29.3</td>
<td>51.4</td>
<td>26.5</td>
<td>9.3</td>
</tr>
</tbody>
</table>
13% electric delivery vehicles in Paris by 2032 (all things being equal…)

(Camilleri, 2018)
Visible innovations

Cargobikes
Urban Consolidation Centres
Cargotrams
Urban freight barges
Drones
Street delivery robots
Nuro+Kroger, Arizona

Piaggio FastForward (Boston)

FexEx delivery bot

Robo-dogs
Continental AG

Domino’s Pizza, NZ

Starship/Amazon scout

Dispatch, San Francisco
Invisible innovations

Pollution pricing, Low Emission Zones, night deliveries: changing the global ecosystem of city logistics

Urban logistics facilities

Amazon Prime Now in Paris

Electric vans on roof
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