Imagine...
a day when you and your friends are paid—to leave your car at home and instead walk or cycle to work, to school and to errands.
... the day when employers pay employees to leave their car at home and instead walk, cycle and ride public transport to and from work
Imagine...

... the day when local businesses are paid to switch from polluting delivery trucks that clog streets and block sidewalks – to clean, quiet and healthy cycle logistics.
now

Imagine...

... the impact on carbon emissions, pollution, noise – and ultimately your physical shape and your health.

Just imagine how much more liveable we can make our cities
What are the challenges?
Congestion
Car pollution & noise
The High Costs of Free Parking
Sprawling & suburbanization
Sedentary Diseases
Social inequality
Autonomous Vehicles
US cities alone bleed $1.4 Trillion a year due to lack of proper management of urban sustainability.
SDGs tackled

3 Good Health and Well-being

7 Affordable and Clean Energy

8 Decent Work and Economic Growth

9 Industry, Innovation and Infrastructure

10 Reduced Inequalities

11 Sustainable Cities and Communities

13 Climate Action

umo
Smarter cities. Happier people.
Al for real urban sustainability
Umö’s AI solution helps cities save billions of $, using AI & machine learning to predict & solve sustainability challenges.
Umō’s AI solution enables cities to engage their people, incentivize & reward them for lowering use of private cars & increasing use of sustainable urban mobility; walking, cycling, public transport and carpooling.
Enforcing city strategy on autonomous vehicles

Umo's AI solution enables cities to enforce strategies, policies and regulations on self-driving cars, guaranteeing they move through streets in the pre-determined sustainable manner.
Umō’s AI solution brings together cities and their people, local businesses, corporate employers and employees – to benefit from sustainable commuting.
Mapping urban strategy mismatches

- Automatically floating strategy gaps, by geographies, by populations and by urgency

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Smarter cities. Happier people.

AI for real urban sustainability
Optimizing & action

• Recommendations – how to optimize & resolve mismatches
• Generated by machine learning predictive analysis, best practices and shared knowledge with cities globally

Smarter cities. Happier people.
AI for real urban sustainability
Cycle to work 1 more day each week and win a $50 cash bonus each month.
Thrive instead of drive!
Cycle 1-day a week instead of driving, win $50 a month for shopping + your health!
Solution flow – city strategy

[Diagram showing various city strategy metrics such as current state, city goals, walkability, self-driving cars & AVs, bike-ability, bike-share, future, car-pooling, parking policy, public transport (buses, subway, LTR & street car).]
Solution flow – data sources

City data
Transportation, transit, bike-share, demographics, 911, utilities, revenues, education, parking, parks, culture, sports, events, welfare, engineering, etc.

Mobile devices / city app

Metro IoT grids

3rd –parties
Google Maps, Waze, Uber, FourSquare, Moovit, etc.
Solution flow – AI processing & analysis

Fusing data with city strategy
Solution flow – the AI-based Smart Dashboard
Solution flow – ML-based Actionable Insights
Creating a global network of shared urban knowledge
Cars damage our cities & urban society

<table>
<thead>
<tr>
<th>Cars per day</th>
<th>$1,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>$200,000,000</td>
</tr>
<tr>
<td>Annual damage</td>
<td>$400,000,000</td>
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</table>
Moving to sustainable urban mobility

<table>
<thead>
<tr>
<th>Reduced cars per day</th>
<th>$5,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily savings</td>
<td>$15,000</td>
</tr>
<tr>
<td>Annual savings</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>
Each citizen switching only once a week a 10-km drive-commute into cycling & public transit, is worth for the city $800-1,400 a year.
Each employee switching only once a week a 10-km drive-commute into cycling & public transit, is worth for the employer $3,000-4,000 a year.
Local businesses

Each local business switching its delivery & logistics from diesel trucks into cargo e-bikes, is worth for the city more than $3,000 a year.
A typical mid-size city, with $\frac{1}{2}M$ cars entering it daily, can

- save $25M for just 5% once a week modal share
- generate additional $25M revenue for its local economy
- Save $30M by moving its local businesses to cycle logistics
Flow Scenario – Smart City

City launches campaign to recruit
Build user cases & aggregate rewards
Collect data, Process, Monitor, Optimize
Flow Scenario – Corporate

Register with city

Build Corporate Sustainable Commuting Program

Monitor, optimize, save, reward

Redeem rewards with local stores
Future ready

... for self-driving cars
Future ready

... for self-driving cars
Future ready
... for self-driving cars
Changing the world; One city at a time