SWARCO MYCITY HOW TO SOLVE BAD AIR QUALITY IN URBAN AREAS?

THE PROBLEM BAD AIR QUALI

3.4 Million deaths linked to outdoor air pollution globally

97% of cities in low and middle-income countries do NOT meet WHO air quality guidelines

49% of cities in high-income countries do NOT meet WHO air quality guidelines

Costs 1 Trillion Euros per year

POLLUTION AS NOISE, BAD AIR, LIGHT CAUSES:

- The risk of stroke
- Heart disease
- Lung cancer

 Chronic and acute respiratory diseases, incl. asthma

Pollution is causing more than three million premature deaths worldwide

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HOW DID IT GET SO POLLUTED?

Urbanization: More and more crowded cities

Pollution from human waste as cooking, heating etc. and it will increase even more

Day to day traffic

 In the past, pollution was an acceptable by-product of urbanization

Today, it's not the case

MYCITY AS A SOLUTION

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Sensor: **TRAFFIC DATA**

Third-party data e.g APPS, IN-VEHICLE DATA

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PROCESSING & STORAGE

DATA VISUALIZATION





ALERTS & NOTIFICATIONS e.g. too high CO2 levels

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REPORTING TO ANALYZE IMPROVE-MENTS

ACTIONS

SIGNAL PLAN ADJUSTMENT

E.G. Make green-time shorter in the suburb for cars entering the city center

REROUTING TRAFFIC

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E.G. Trigger new scenarios where traffic is steered away from highly congested areas

SPEED <u>ADJUSTMENT</u>

High speed & CO2 are higly connected. Lower the speed for less emission

REAL-TIME DATA SHARING

E.G. Tolling system get informed about the air pollution leading to a dynamic price

adjustment

STAKEHOLDEF BENEFITS

TRAVELER

- + Health
- + Smoother journeys
- + Multimodal
 - alternatives
- + Less noise
- + No congestion

DECISION

MAKER

- Meet WHO goals
- + Sustainable city
- + Save money
- + Attractive city
- + Image

OPERATOR

June 1

- + Easier work
- Less hours spend on monitoring
- + Easy to use system
- + Can add needed features at any time

E-SCOOTER PT PROVIDER

- + Increase in multimodal travelers
- + Increased income
- + More space

