



Attractive and sustainable city

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SMART. CLEAN. SUSTAINABLE.

Our Mission

Our solution enables cities to master the quality of urban cleanliness, use less resources, and reduce the environmental footprint.

Residents benefit from attractive cities and the environment is preserved.



Clean and attractive city

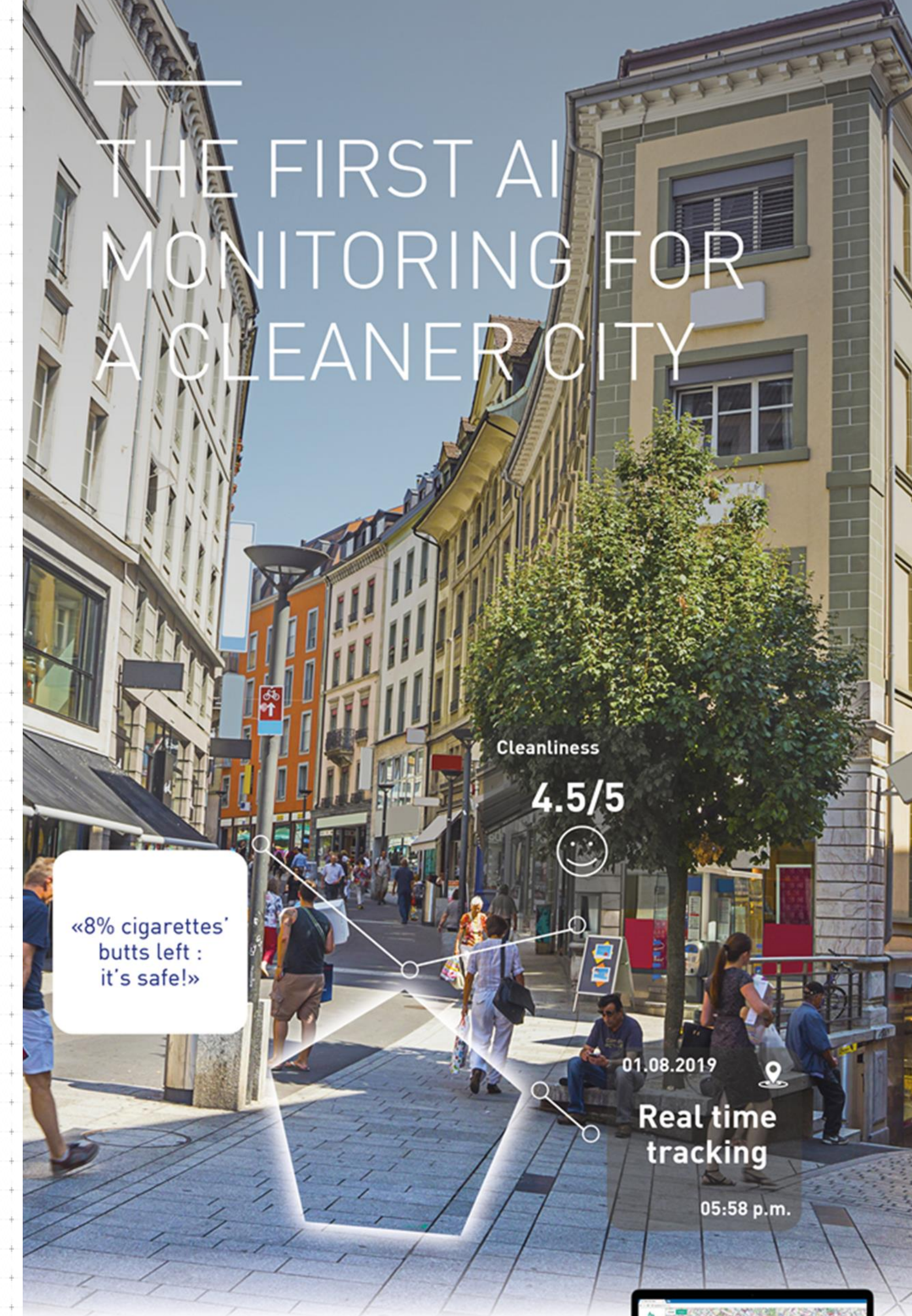


Resource savings



Environment preservation

THE FIRST AI MONITORING FOR A CLEANER CITY

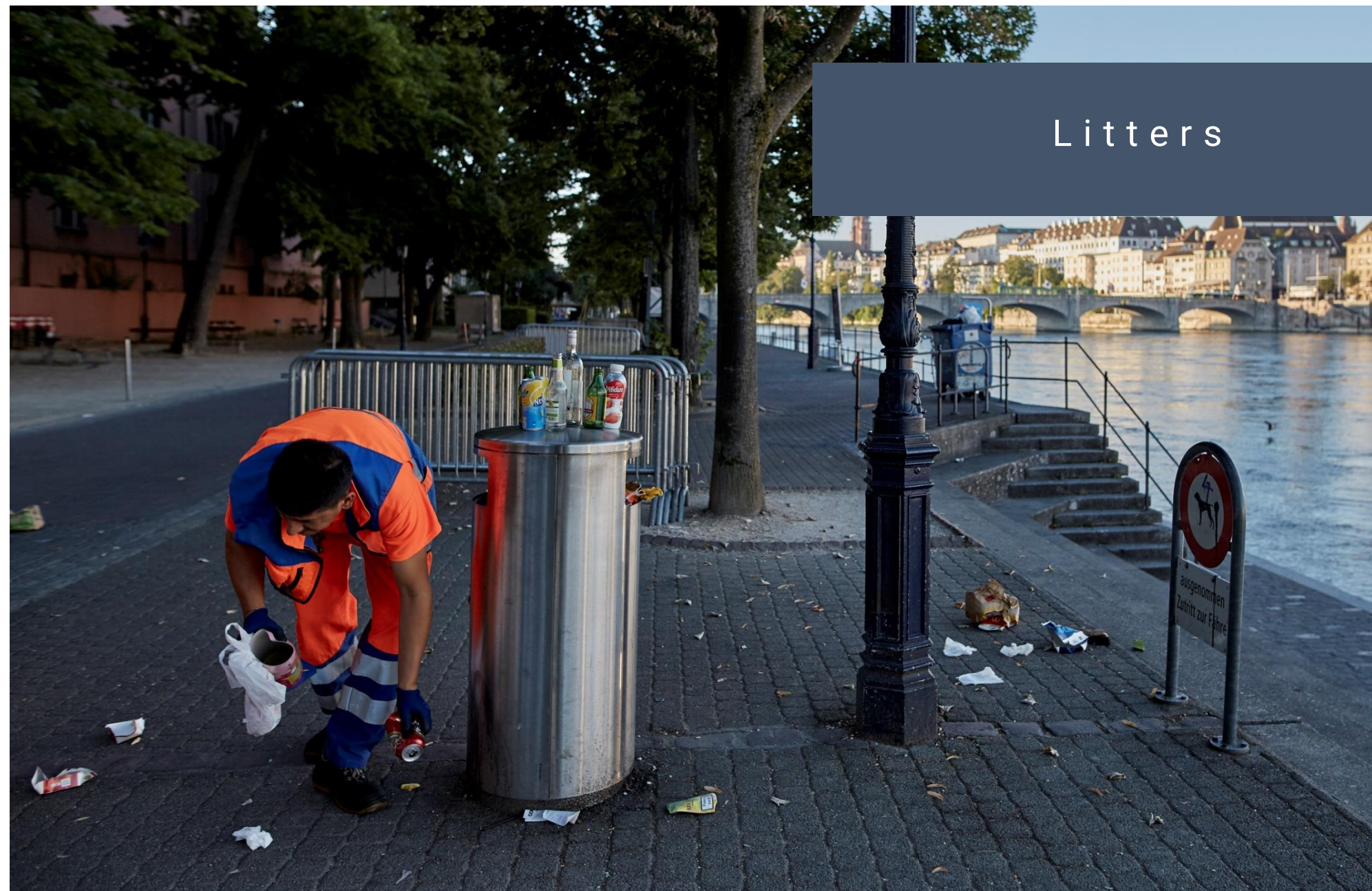


CORTEX AI
smart. clean. sustainable.





Environmental Impact



Litters

200 tCO₂/100,000 inhab /year

+ Emissions of noise, dust,
and water consumption

**200'000-500'000 butts /day
with 2% release rate**

Measured in Geneva (200'000 inhab)



Cleaning



High Cleaning Costs



- EU: > 50€ / inhab / year
- Vary by a ratio from 1 to 4 between different cities in a same country (CH, ES, FR)
- A cleaner city does not mean higher costs!



Clean City Index

Developed by the city of Zurich in 2000

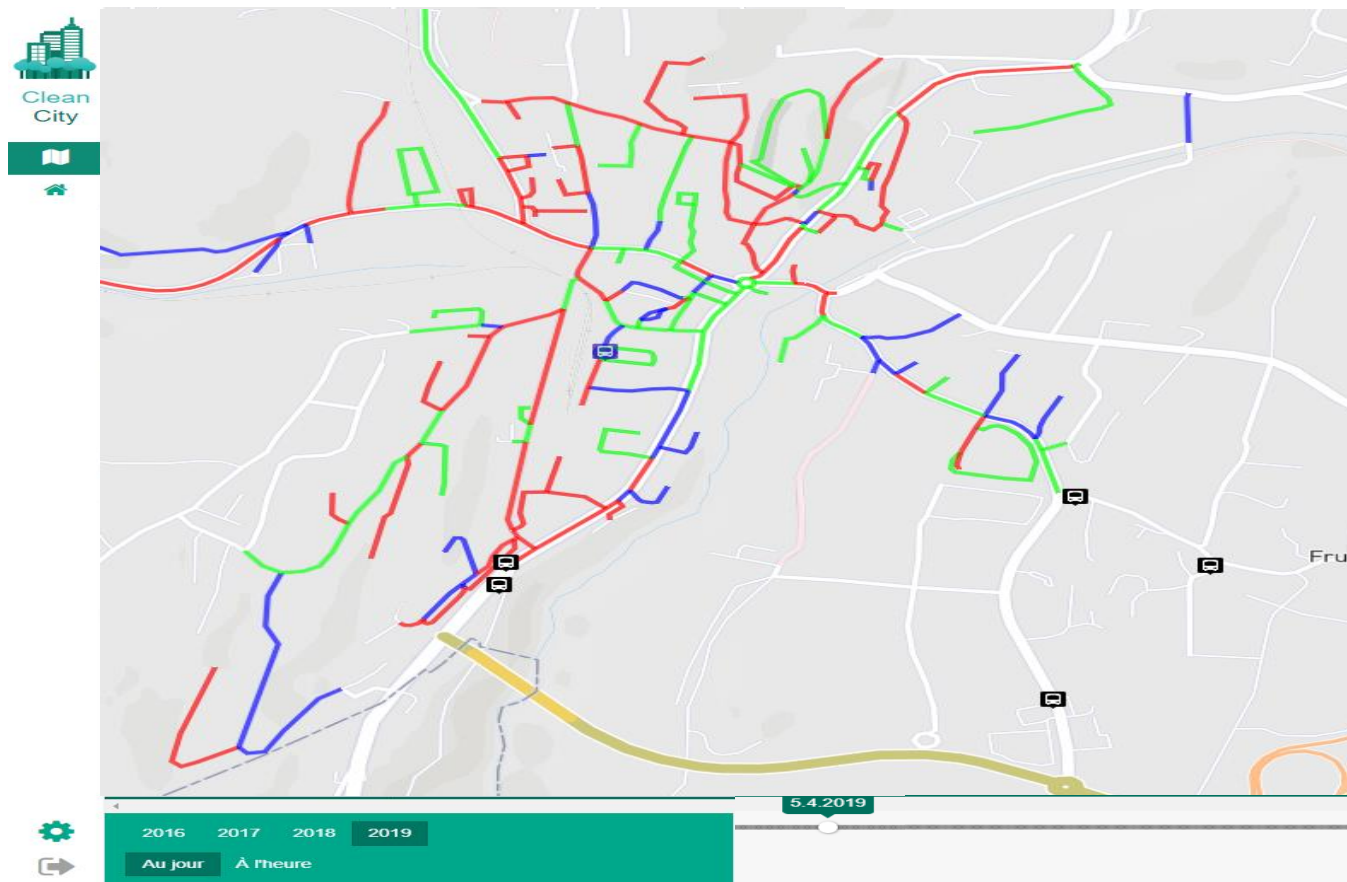
Objective cleanliness indicator on a scale from 0 (dirty) to 5 (clean)



Clean City Index	Weight
Foliage and flowers	1
Cigarettes, cigarette butts	1
Chewing gum	1
Filling rate of the baskets	2
Wild Posting	2
Paper, Cardboard, Plastics	2
Stones, Gravel, Sand	2
Bottles, cans and other containers	3
Illegal residues	3
Tags, Graffiti	3
Cleanliness of the bins	3
Excrements	4
Glass shards and syringes	4

Monitoring urban cleanliness

Quality management and data driven result-oriented cleaning



Manage urban cleaning...

- Cleanliness level monitoring
- Resource savings
- Environment preservation

... thanks to automatic litter detection...

AI Computer Vision and continuous learning for precise litter recognition

... onboard any vehicle.

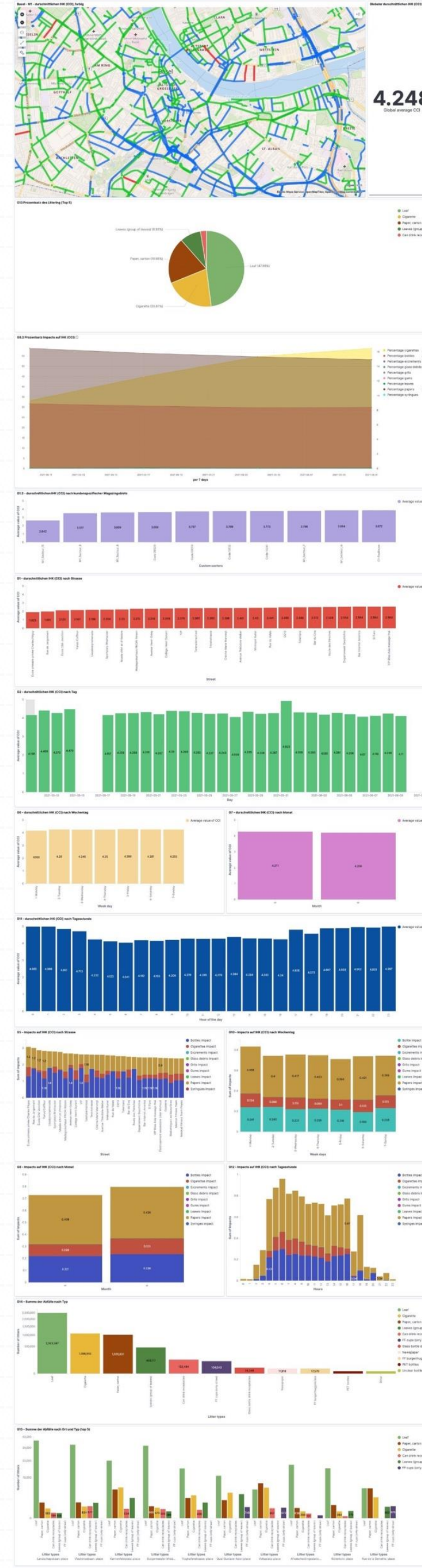
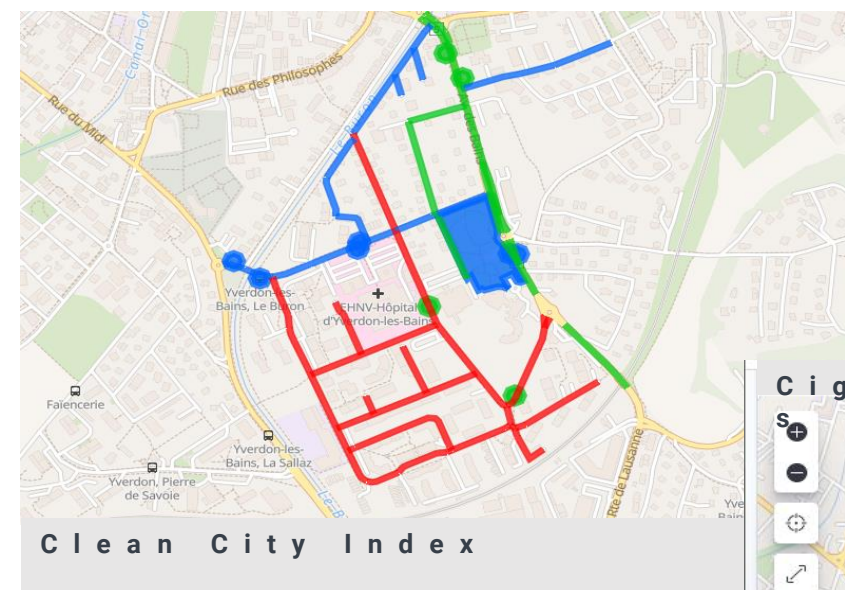
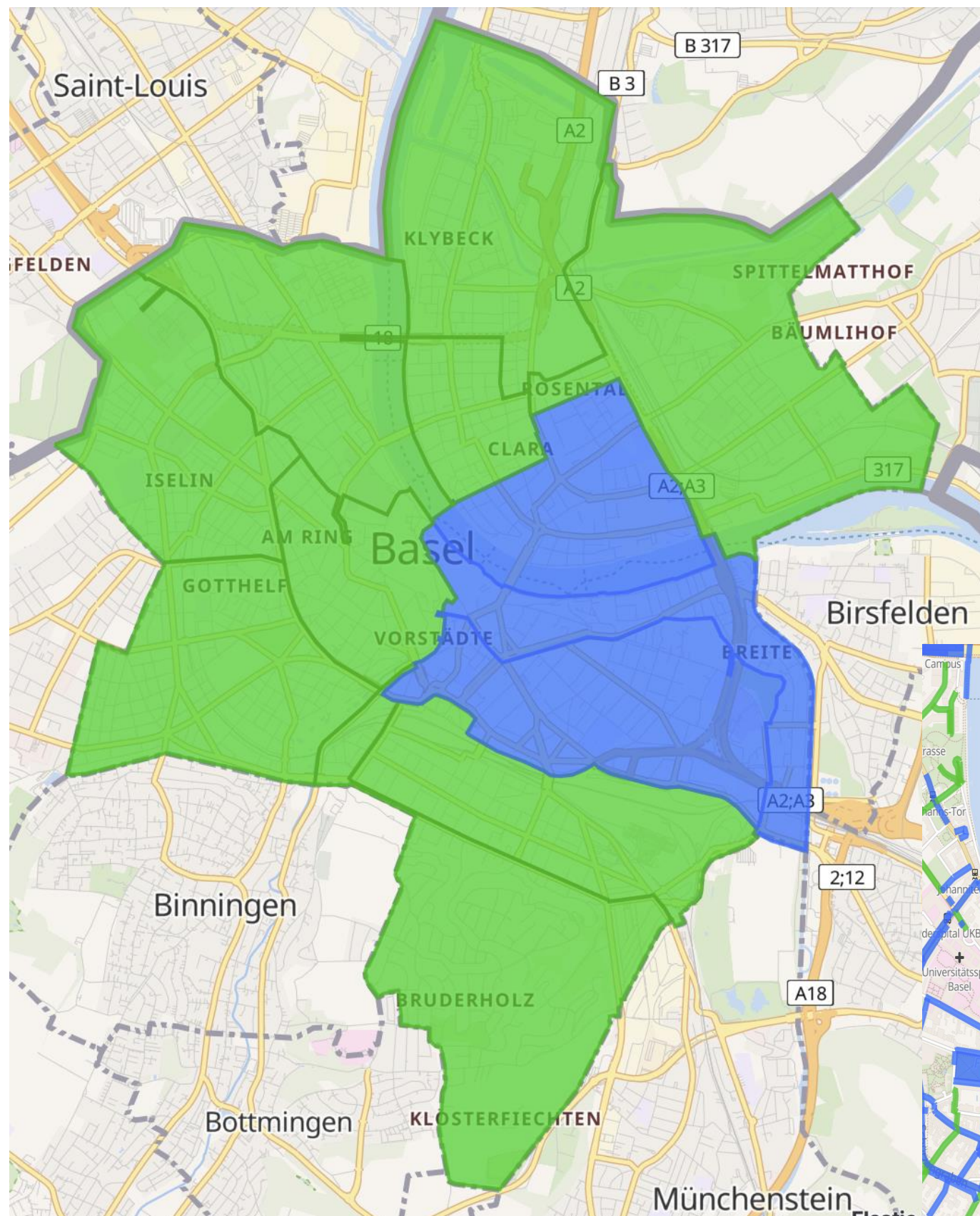
Real-time detection with data privacy.



SOLUTION

Real-time accurate data

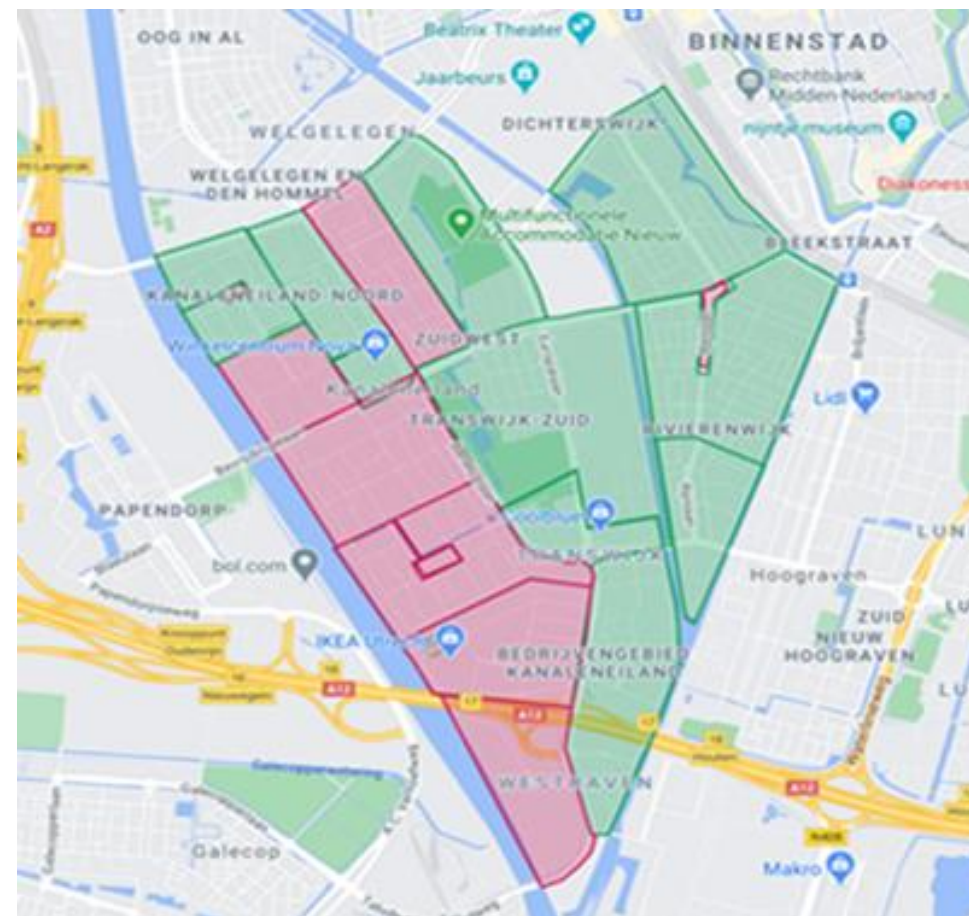
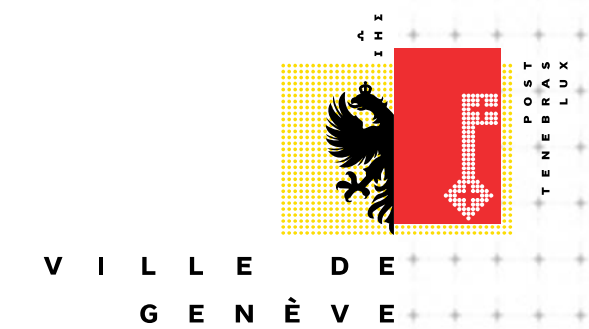
Dashboarding to manage, analyze and improve



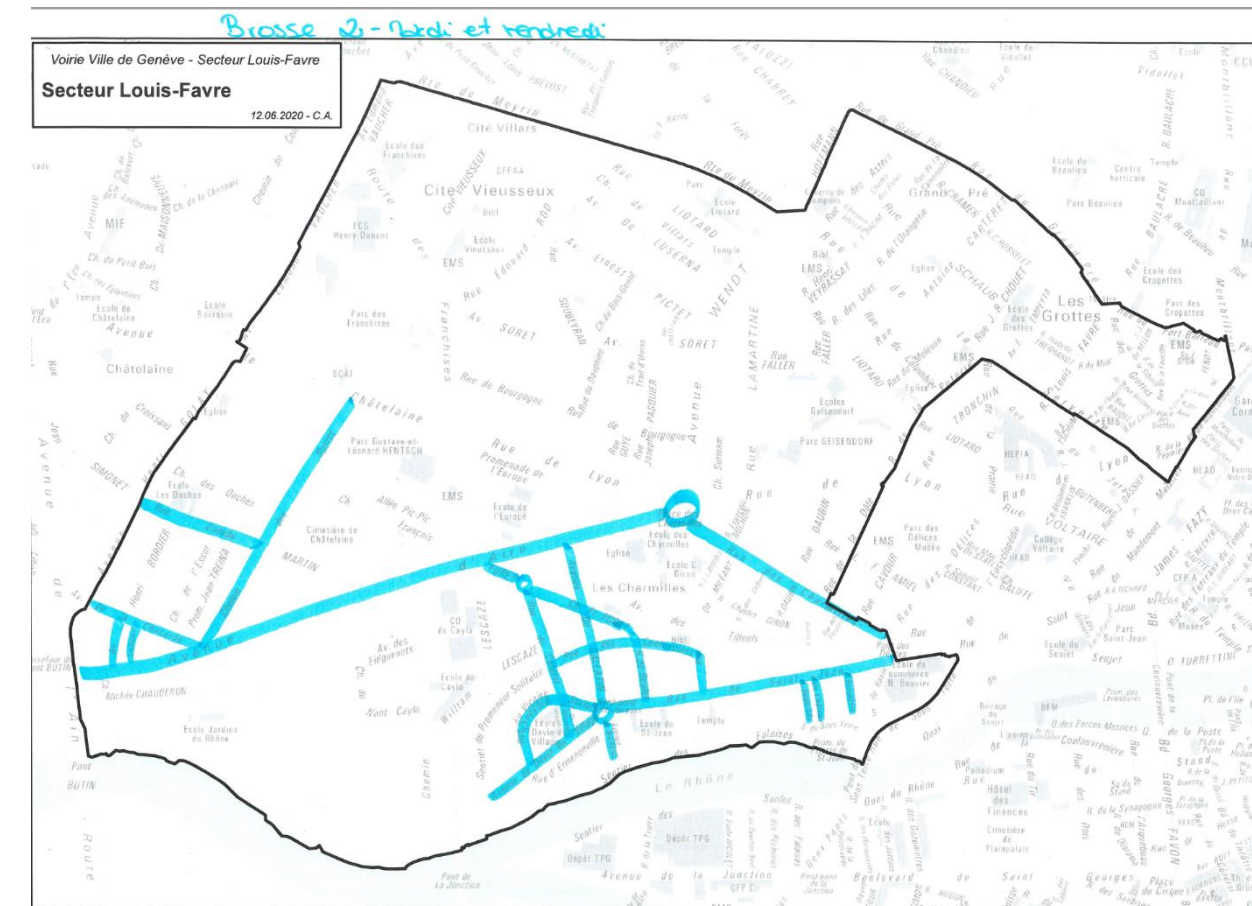


MEASURABLE RESULTS IN UTRECHT AND GENEVA

Cleaner with less Resources



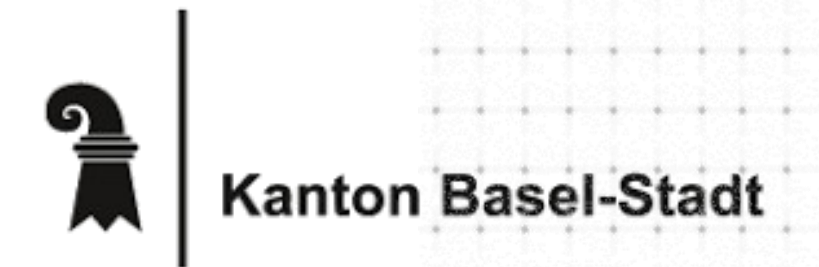
- Cleaner (from 3.7 to 4) and more uniform
- No more complains in shopping area
- 4 employees out of a team of 10 can be assigned to other tasks



- Reduction from 3 to 2 sweepers
- 20% less cleaning machine hours for the same level of cleanliness



SUSTAINABLE CITY OF BASEL



Basel drives its cleanliness and reports on the quality



- Zero-Carbon policy:
95% electric vehicles by 2025
- 15% fewer sweepers

“ Thanks to Cortexia, we report the quality of our service to the authorities. We also use the metrics to plan and allocate resources based on actual needs. ”

Vidéo:

<https://www.srf.ch/play/tv/schweiz-aktuell/video/basel-stadt-erfasst-illegalen-muell-mit-kamera-velos?id=32885cc1-26aa-4cad-b313-76d25872183d>



CITIES OF MONTREUX AND GENEVA

Reduce littering

COMMUNE DE
MONTREUX

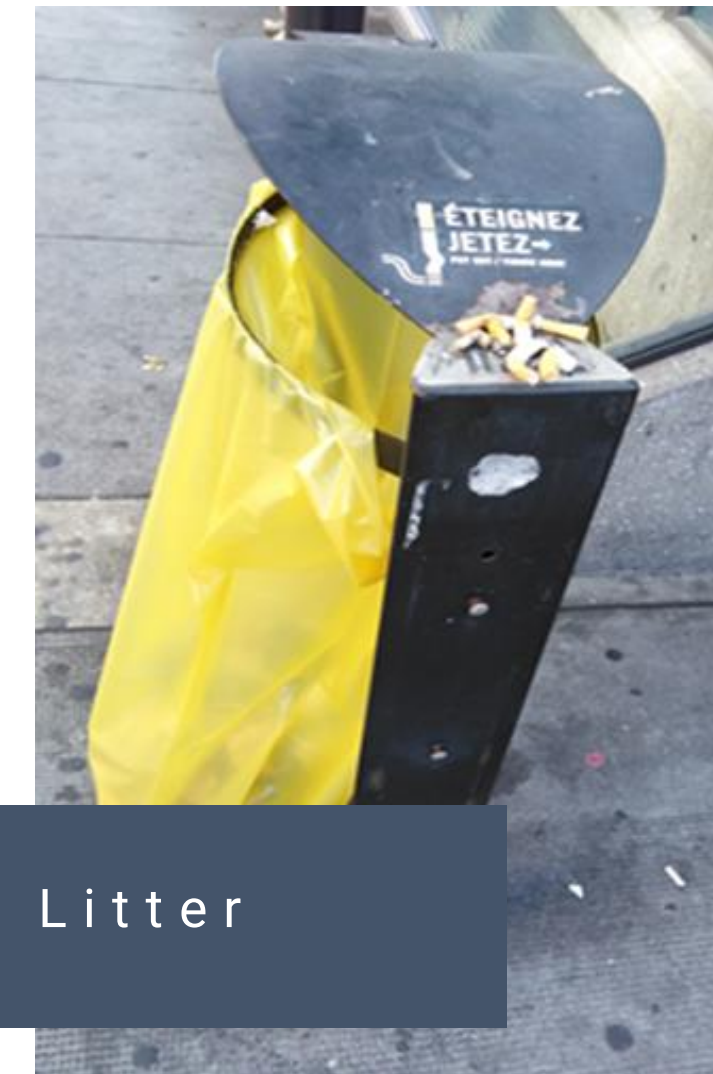
VILLE DE
GENÈVE



Cigarettes

2 times less papers and cigarette butts
Goal to reduce 1/3 of existing 2'000 trash bins

- Identification of hot-spots
- 200 strategically placed ashtrays instead of 900



Litter





SMART. CLEAN. SUSTAINABLE.

Expert in Urban Cleaning Management

CUSTOMERS

LABELS

PARTNERS

VILLE
DE
CAROUGE

VILLE
DE
GENÈVE

RÉPUBLIQUE
ET CANTON
DE GENÈVE

Kanton Basel-Stadt

COMMUNE DE
MONTREUX

Yverdon-
les-Bains

Stadt Bern

toulouse
métropole

City of Utrecht

DIE POST

Geoptis
COLLECTER, ANALYSER, CONSEILLER

ASP

Amsa
GRUPPO 323

simpliciti

DIE POST

suez

VEOLIA

PAPREC
GROUP



Solar Impulse



EU Seal of
Excellence

DeepTech
4Good

DeepTech4Good

Kanton Basel-Stadt

Stadt Zürich

EPFL
ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

Hewlett Packard
Enterprise

VILLE
DE
GENÈVE

AVPU
Association des Villes
pour la Propreté Urbaine

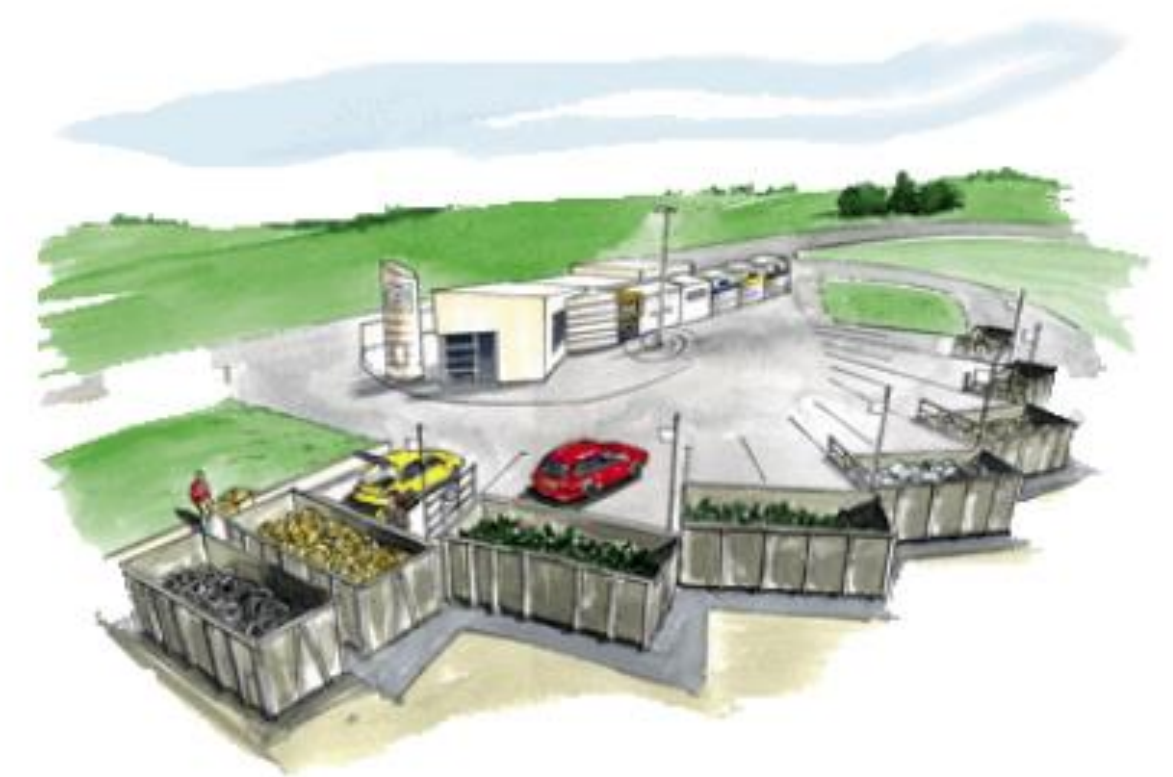
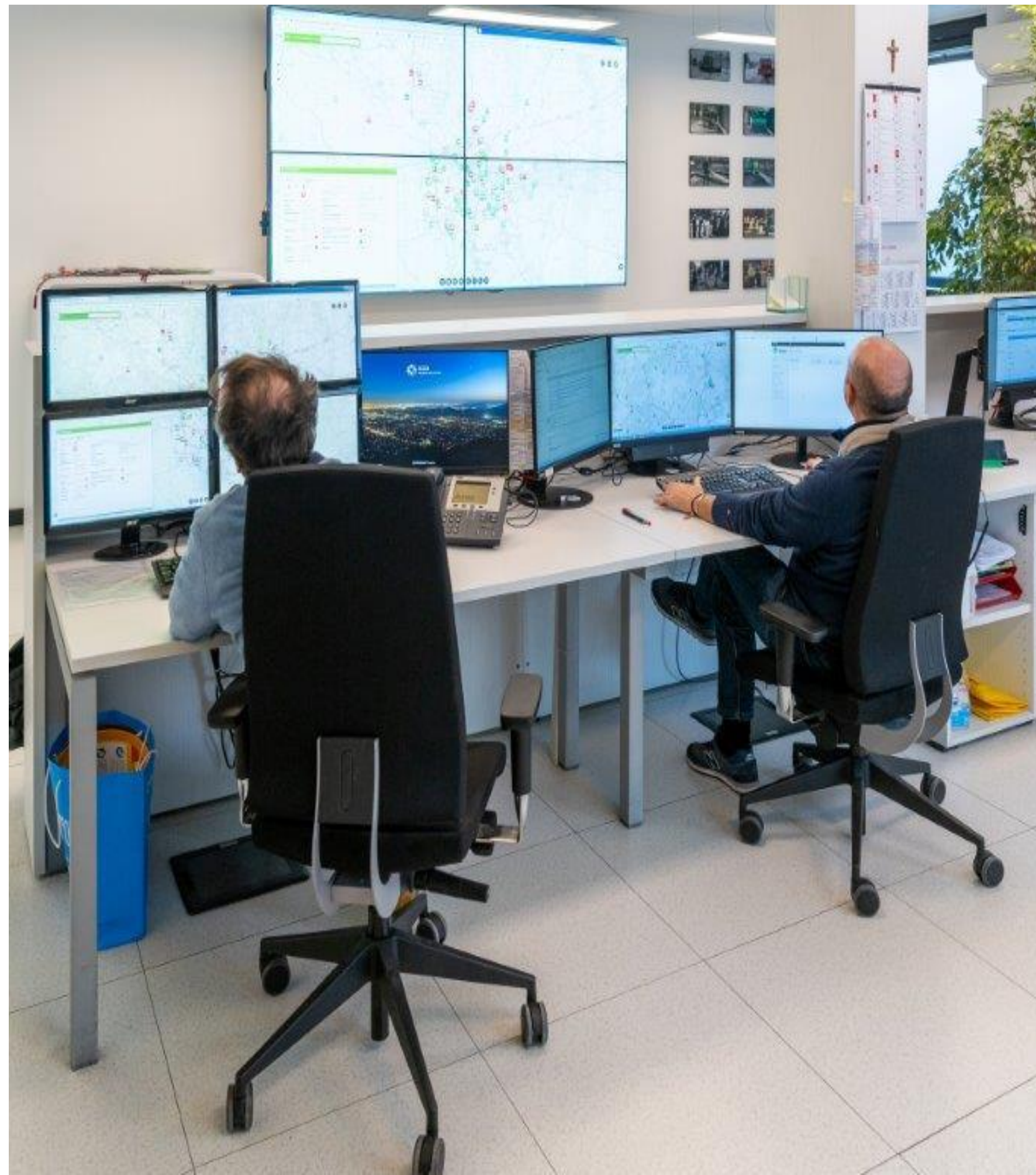
Microsoft
for Startups

NVIDIA



SMART CITY AND WASTE MANAGEMENT

Perspectives





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Clean and attractive city



Resource savings



Environment preservation

