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Smart Cities Use-Cases

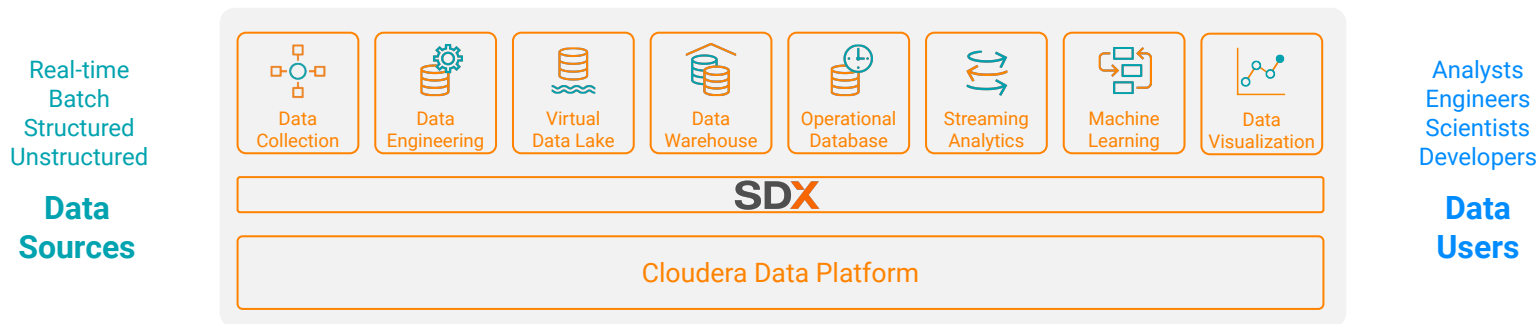
Why data is key to Smart Cities


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8th of November 2021

A HYBRID / MULTI-CLOUD DATA PLATFORM **AND** AN INTEGRATED SUITE OF SECURE ANALYTIC APPS

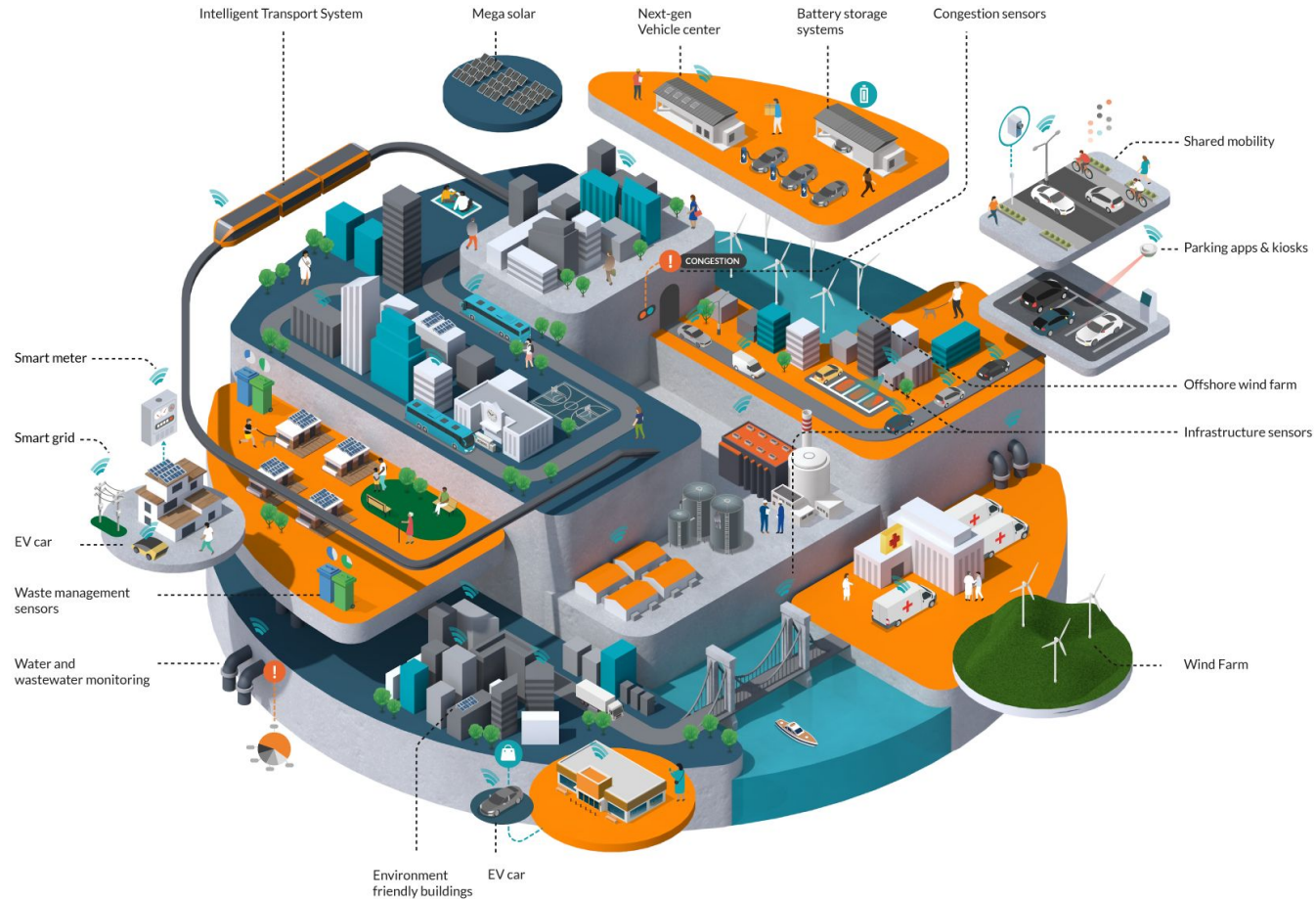


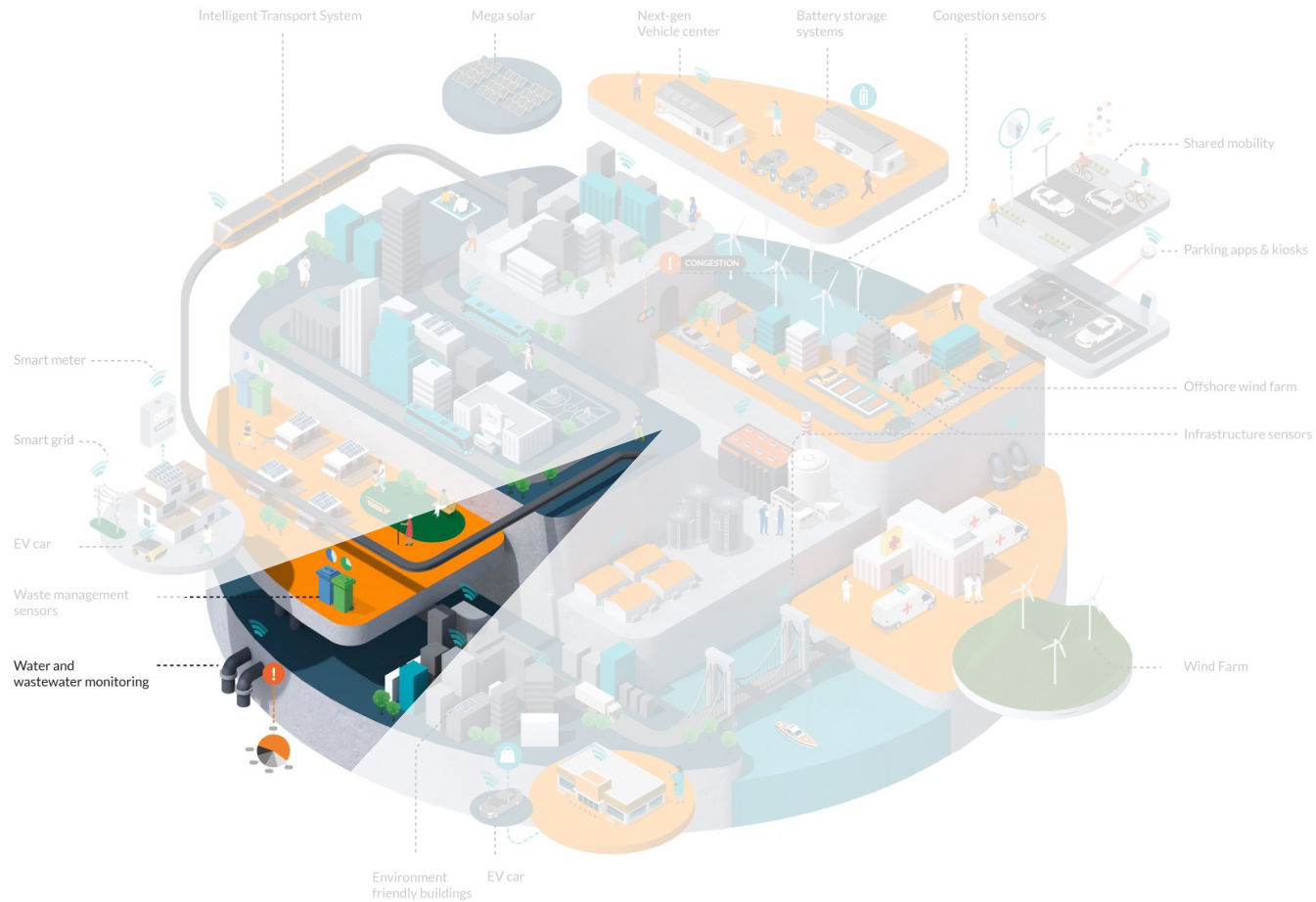

Data Lifecycle
integration for better
user productivity and
faster time to value

  Google Cloud
  Red Hat
Hybrid & Multi-Cloud
to leverage existing
investments and
reduce risk

CLOUDERA
SDX
Secure & Governed
to simplify data
protection, sharing
and compliance

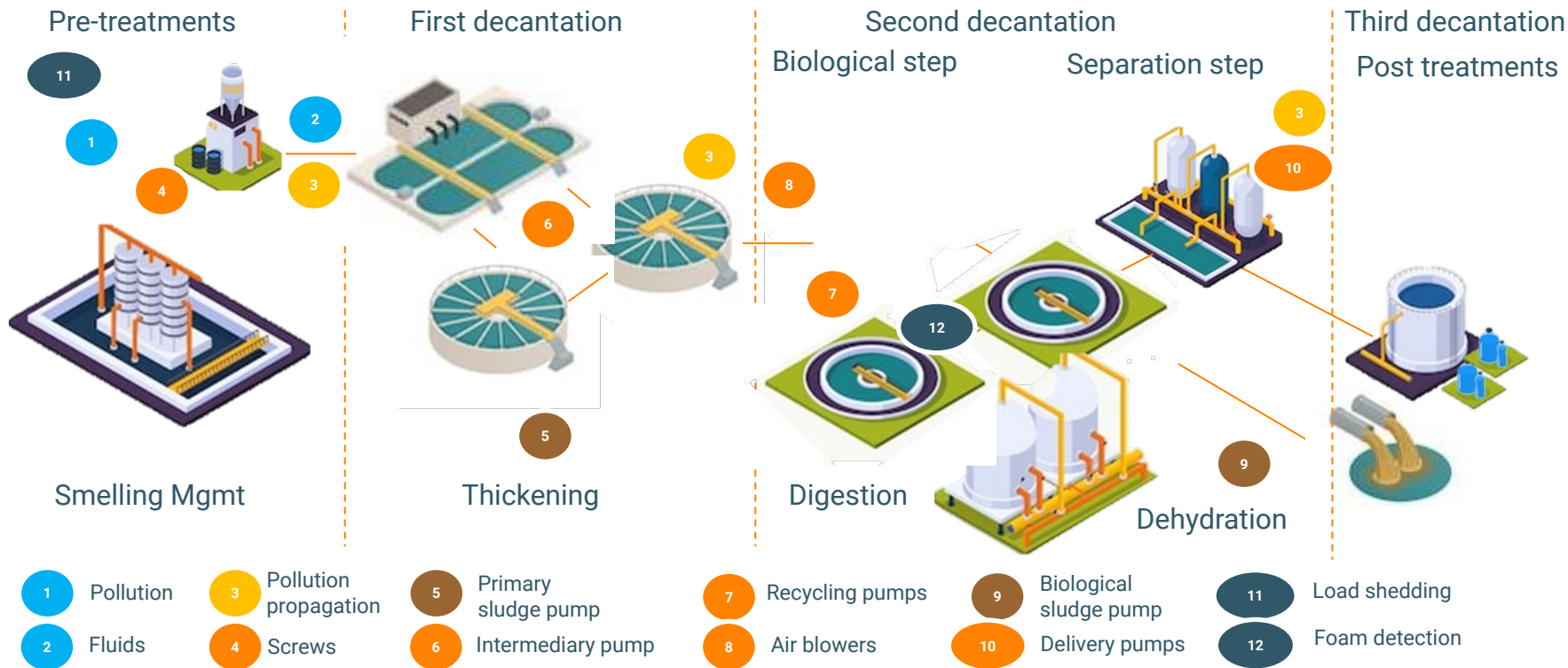

Open & Extensible
to support more
use cases faster
and at lower cost





Waste Water Treatment Optimization

Analytics roll-out all along the value chain



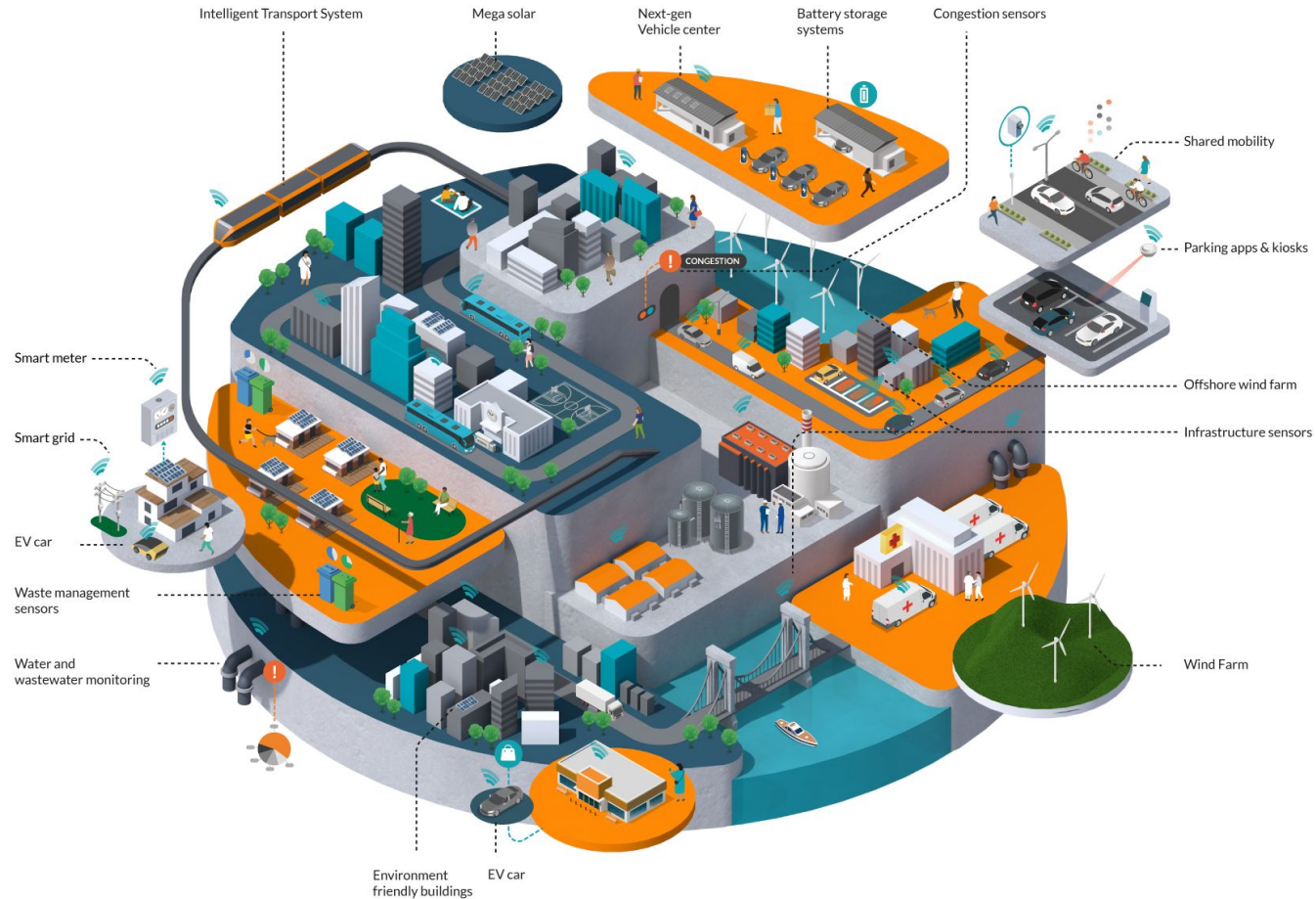
Waste Water Treatment Optimization

Testimony and results

“ The aim of the EVE innovation project is to develop a smart solution for operation support in wastewater treatment plant. It is funded by the French Development Agency (ADEME), as part of the Future Investment Program. Atos and Suez work together to build a predictive solution based upon the processing of hundred of thousands of data elements that can be either internal or external to the plant, like weather forecast, variations of population, or any kind of data that might impact its functioning. The integration of heterogeneous data is made possible thanks to the Atos processing platform, the heart of which is the Codex Datalake Engine. Predictive and optimization algorithms have been developed with the machine learning and deep learning tools of the platform. **The goal of the project is to demonstrate that Big Data technologies can reduce by about 20% the energy cost and the chemical reagent cost in the wastewater treatment plants**

”

Françoise Petitpain Perrin
SUEZ Treatment Infrastructure
Chef de projet innovation / Innovation project manager



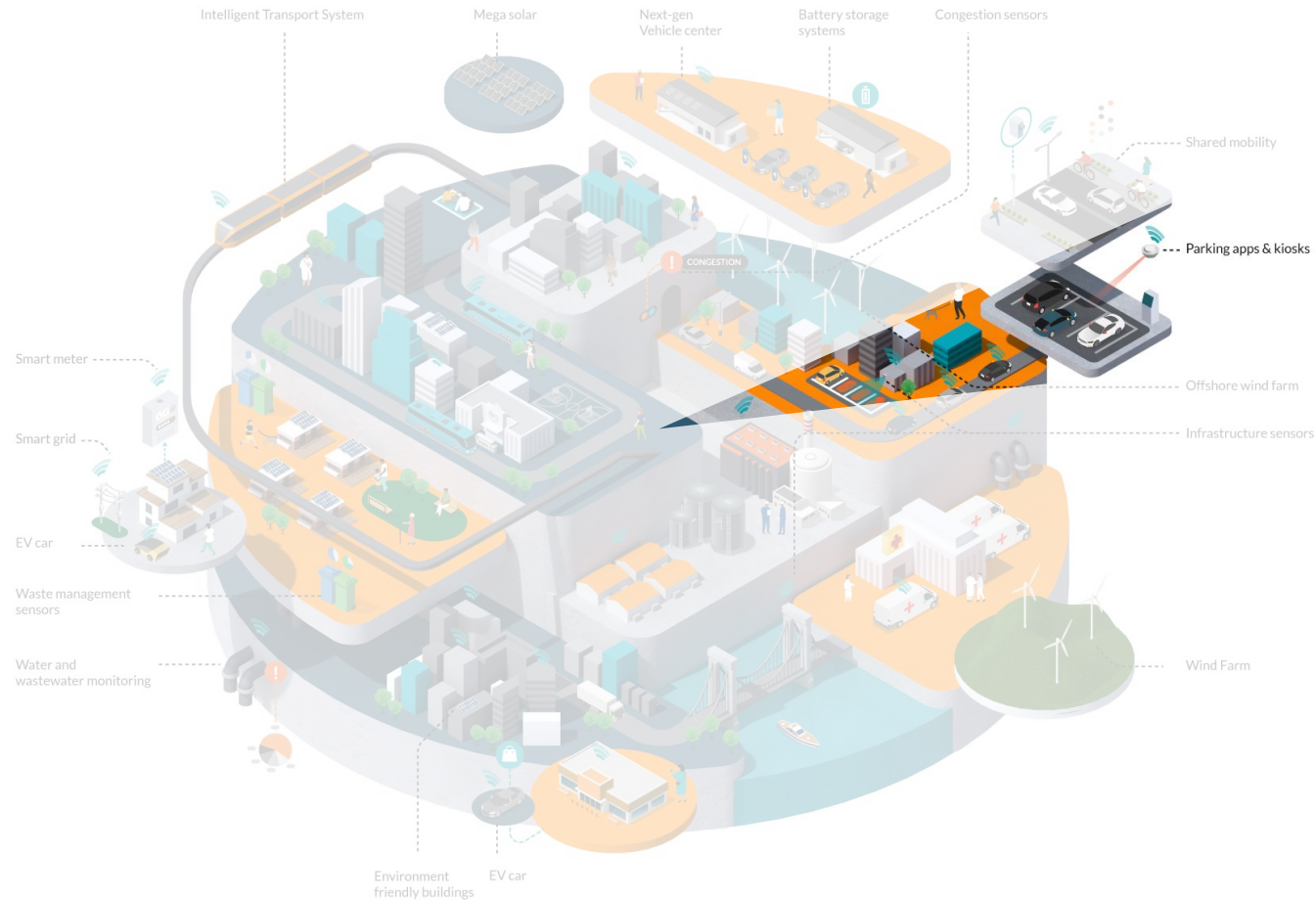




Image Credit: Current by GE

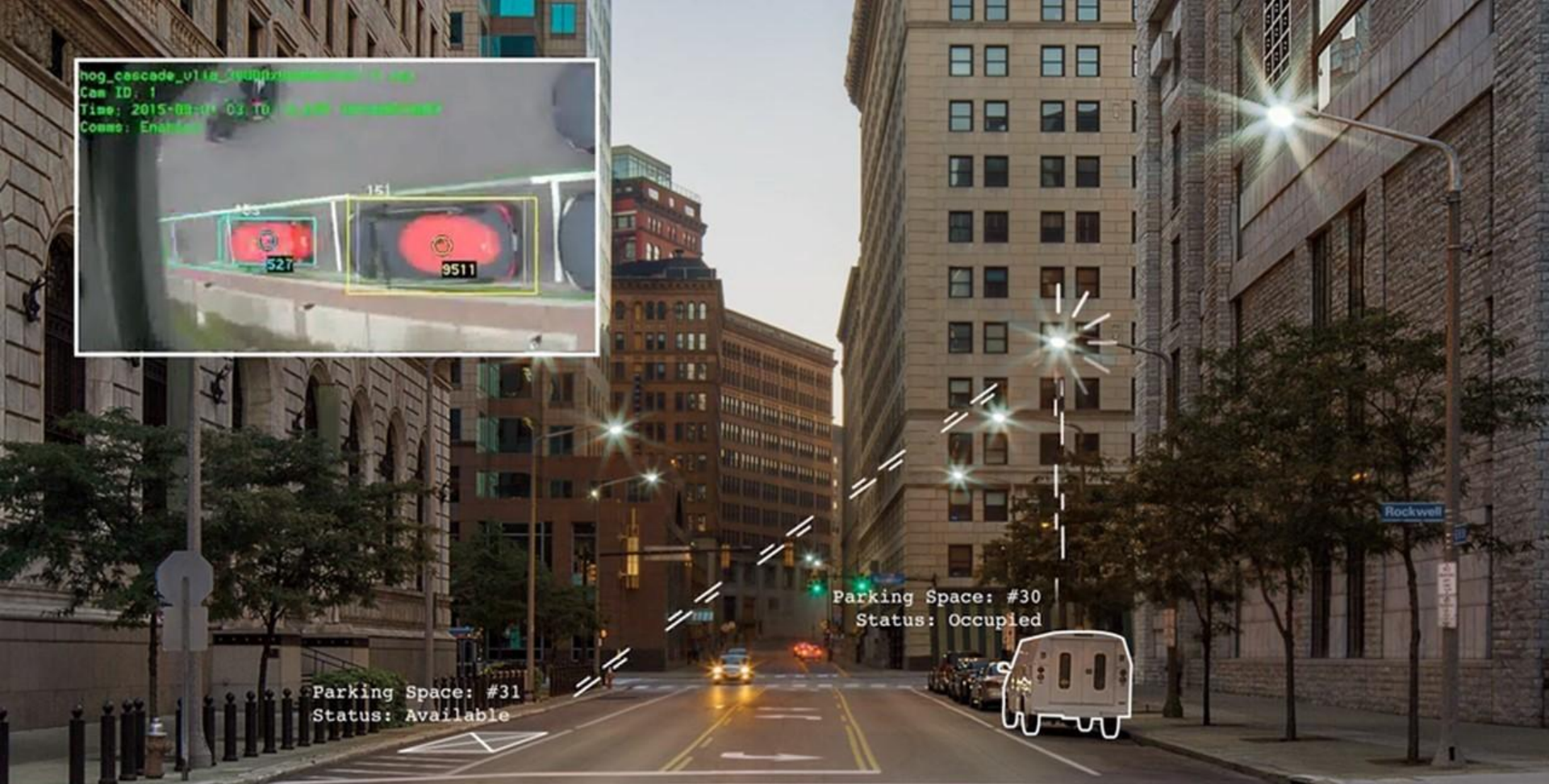


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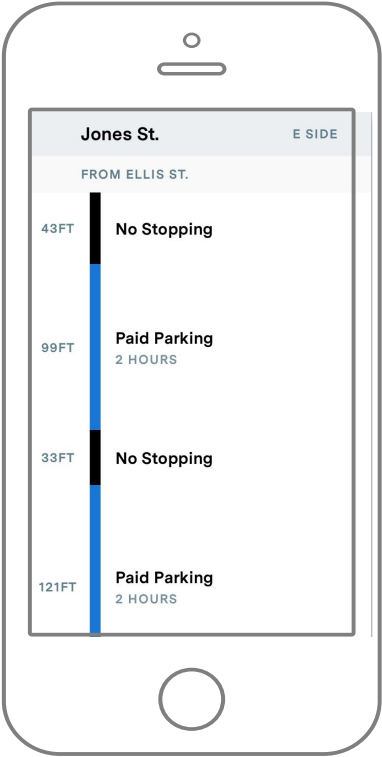
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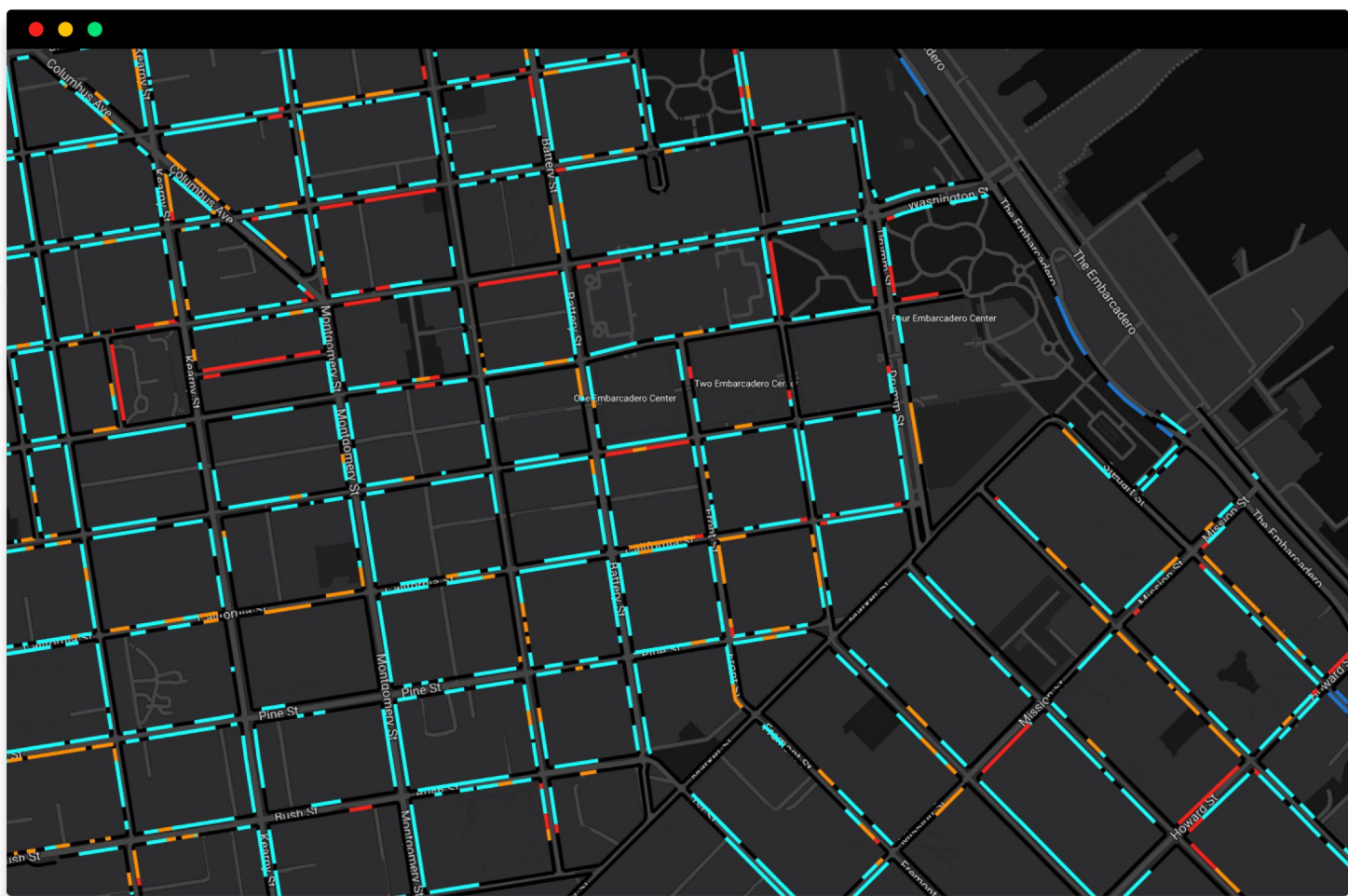
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Raw curb features



Translated rules





Source: Coord

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