Modern NetZero

Modern®

Modern NetZero Urban Data Science

The climate crisis is an urgent problem that we must address. To cope with it effectively, cities and corporations will need new policies, plans, and initiatives. But what are the right ones?

Formulation of sound policy for cities, buildings, districts, and property portfolios is informed by effective analysis. But effective analysis can only be done when we have complete data. Without solid data, policy and strategy are merely guesswork.

Without the right data, we are lost.

The problem has been data availability. Perhaps they exist, but they're in many different sources, largely inaccessible, in incompatible formats, and of greatly varying quality. So we can't use them — until now.

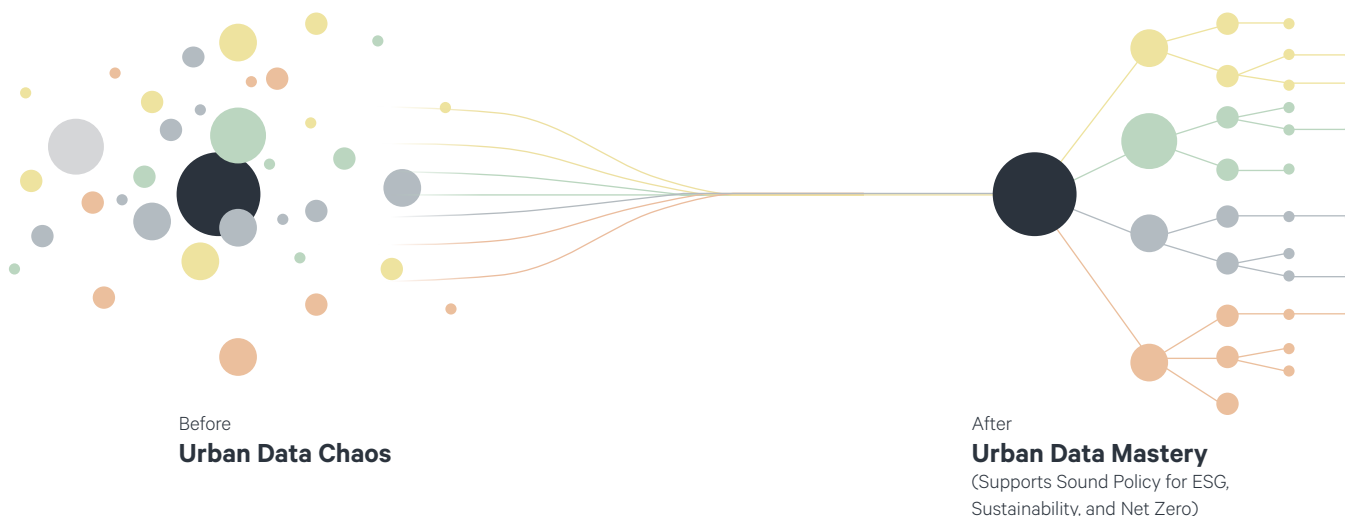**Modern NetZero Urban Data Science has been established to solve exactly this problem.**

Sample Data Types

- Energy Production
- Energy Distribution
- Energy Consumption
- Public and Private Transport
- Building Performance
- Climate
- Weather
- Sunlight
- Food and Water Production
- Food and Water Consumption
- Scope 1, 2, and 3 Emissions

- Manufacturing
- Distribution
- Construction Materials
- Construction Processes
- Imports and Exports
- Taxes and Fees
- Waste
- Carbon Accounting
- Carbon Capture and Storage
- Policies and Regulations
- Resource Conservation

... together with any other data you need.

Climate Change is Here: Net Zero is the Necessary Response

To solve the problem of urban data chaos, we need a data management platform that can take in data from any source, unify it, organize it, and provide secure access.

Before
Urban Data Chaos

After
Urban Data Mastery
(Supports Sound Policy for ESG, Sustainability, and Net Zero)

What do you get when you put all these data into a single, comprehensive, and secure platform?

You get an "Urban Twin," with all the benefits of being able to thoroughly analyze and model the city's performance of a city, a district, a building, or a property portfolio. Now you really can devise effective policy to address climate change, all based on reliable data and solid analytics.

Net Zero Urban Data Science runs on the Modern DataOS Platform, the advanced, third generation data management system from The Modern Data Company.

The DataOS Platform is designed for comprehensive data management across enormous and diverse data sets.

Users and Use Cases

City Leaders

- Supports policy makers and leaders in finding solutions to intractable problems
- Creates a comprehensive, city-wide understanding of the city's performance
- Aggregates data across all departments and across the entire private sector
- Protects all sensitive data
- Provides critical insight into all aspects of a city's performance to facilitate the identification of areas for improvement

Neighborhoods & Districts

- Creates a precise view of the performance of all buildings in any district
- Aggregates data across all facets of any neighborhood
- Provides vital insights into how a district functions, where improvement is needed, and how to optimize performance

Property Owners

- Creates a portfolio-level view of the performance of each building asset
- Aggregates data across all properties for an integrated perspective
- Provides key insights into energy performance to facilitate effective investment
- Facilitates achievement of rigorous ESG and sustainability goals

DataOS® Platform

- Advanced, 3rd generation platform architecture
- Cloud-based or on-premises functionality
- Automatic data intake
- Automatic sorting and cleansing of huge data sets
- Domain and persona specific data aggregation and accelerated analysis features
- Seamless data sharing
- Full data protection and security
- Built-in app store functionality
- Built-in tools for comparing, visualizing, analyzing, and modeling
- Built-in advanced analytic capabilities, including AI and ML
- Full integration with analytic tools, including Tableau, R, and Python
- Real-time functionality without lags
- Dashboard-driven
- Launch to value capture in 40 days or less

Net Zero Urban Data Science enables cities to easily collect, manage, and analyze huge sets of data from unlimited and even incompatible sources.

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