



picacity

AI DRIVEN INSIGHTS



DistrictNex

Product Overview



Mega Trends in Digitizing Cities & Real Estate

The City Assets and Real Estate world is rapidly transitioning to a **digital-centric future** scaling from Real Estate developments to Districts to entire Cities.

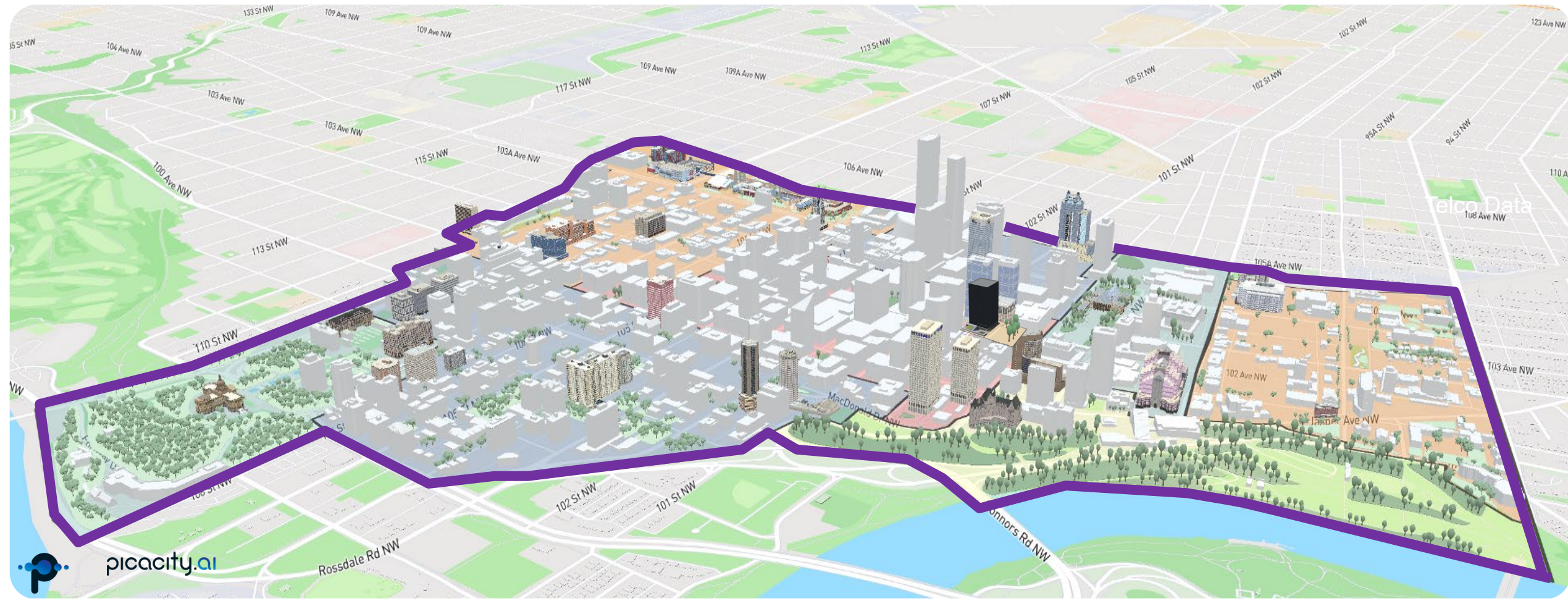
Various **Mega trends** are now a need to have vs. a nice to have within New Greenfield Developments and older Brownfield Transformation Projects.

These Mega Trends are the driving forces behind this transformation.

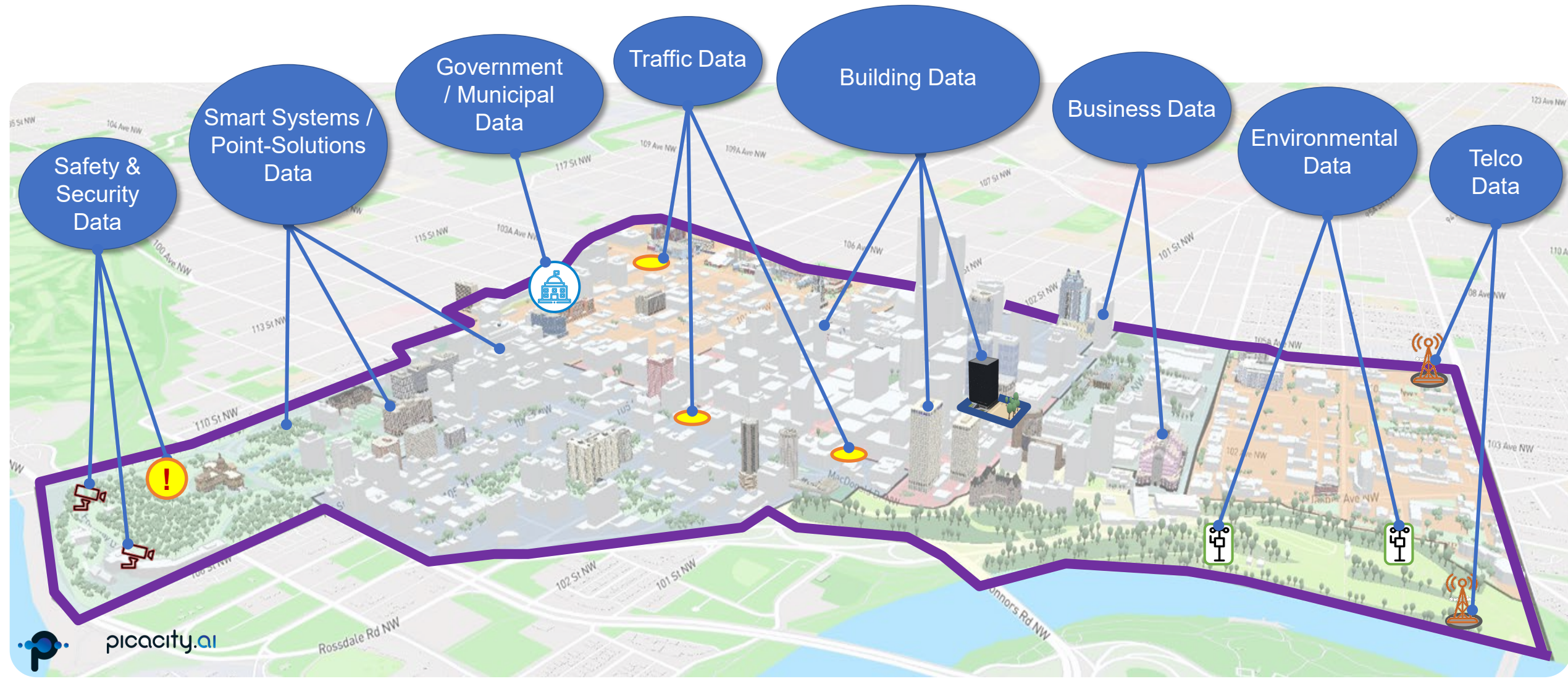
DistrictNex, our leading-edge **City AI as a Service** digital Platform directly addresses and helps our customer deliver the outcomes related to these Mega Trends.



Data, Systems, and Stakeholders – in a ‘District’

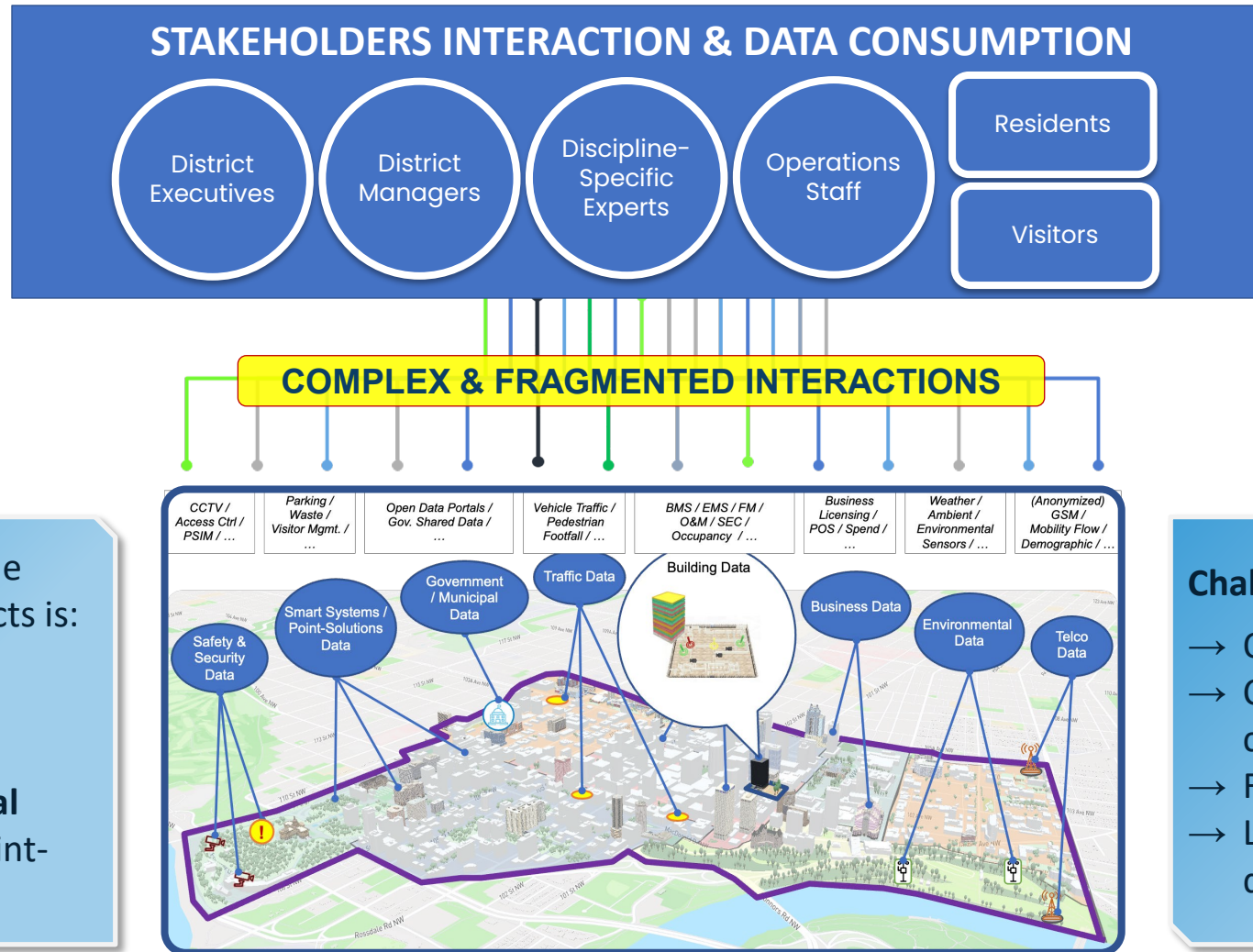


Data, Systems, and Stakeholders – across Smart Sustainability, Security, Mobility, Living, ...



Data, Systems, and Stakeholders – across Smart Sustainability, Security, Mobility, Living, ...

Stakeholders have different needs and interests when it comes to decision making and day-to-day operation



Data that is relevant to the **insightful operation** of districts is:

Vastly heterogenous
+
Typically resides in **several systems** and associated point-solutions

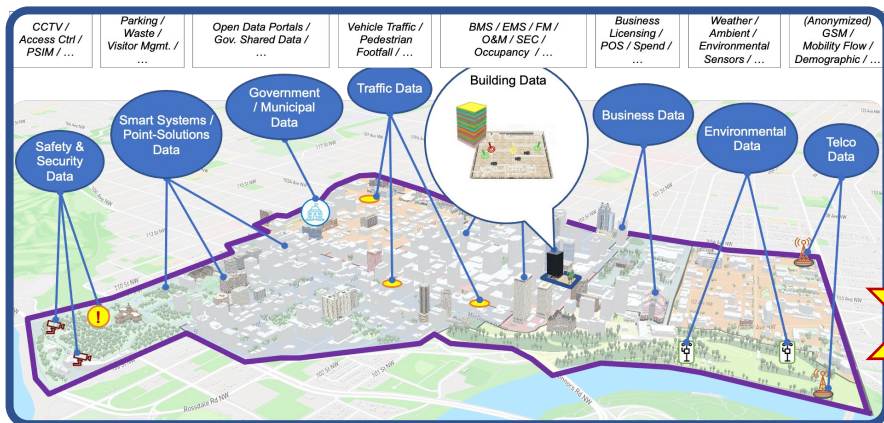
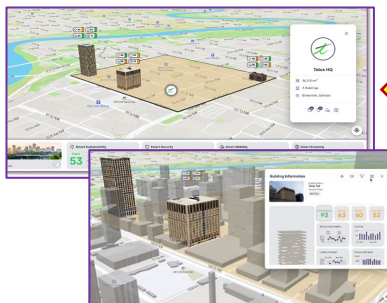
Challenges Posed:

- Operational Silos
- Complex and/or manual data collection & reporting workflows
- Fragmented analytics use-cases
- Lack of timely, comprehensive data for decision support

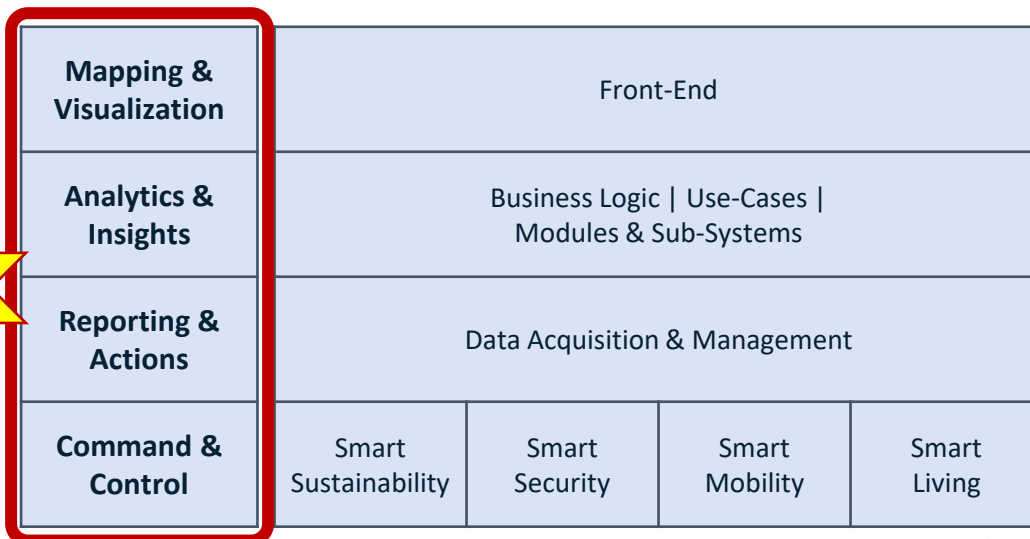
End-Users



- Current and historical view of District performance.
- Cross-system business intelligence and decision-support insights.
- Operational data, KPIs, and performance Indices across Smart Dimensions.
- Command & Control operational integration.



districtnex Platform



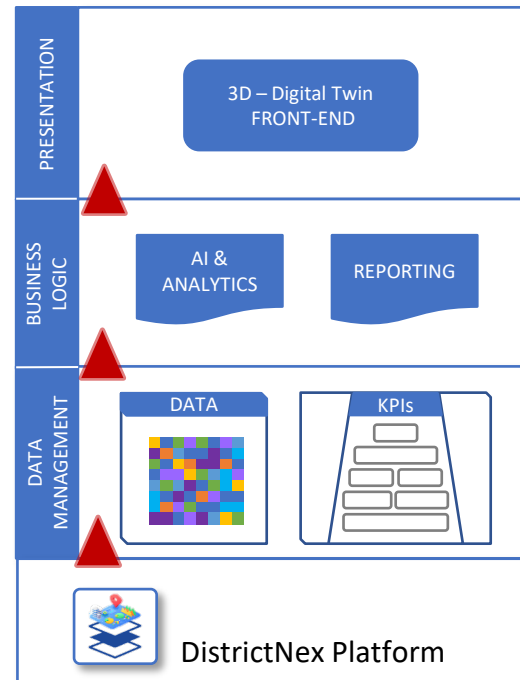
Data Management Services



Cloud Infrastructure

How we do it – Cloud Native City AI As A Service Digital Platform

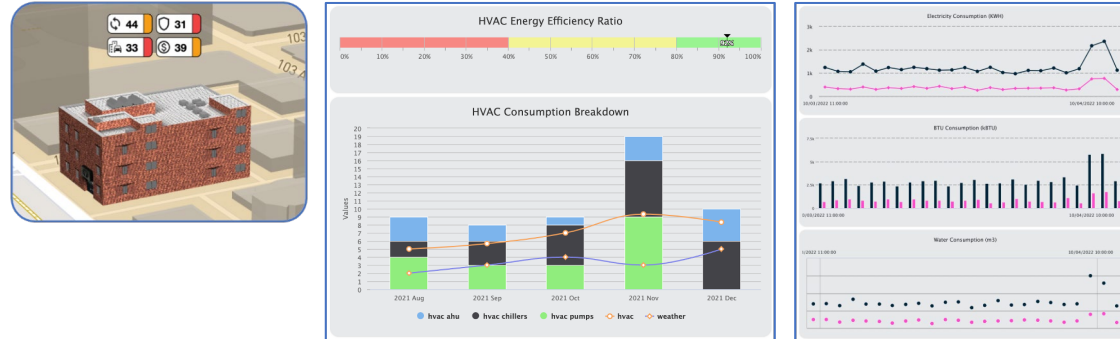
districtnex



DistrictNex Platform

Digitize Physical Assets
(Digital twin)

Holistic Visibility, KPI Trending, Reporting, and Visualization



Real Time View

Historical / Trending

Comparative Performance

Discipline Specific (sustainability, security, mobility, etc.) Functional Integration



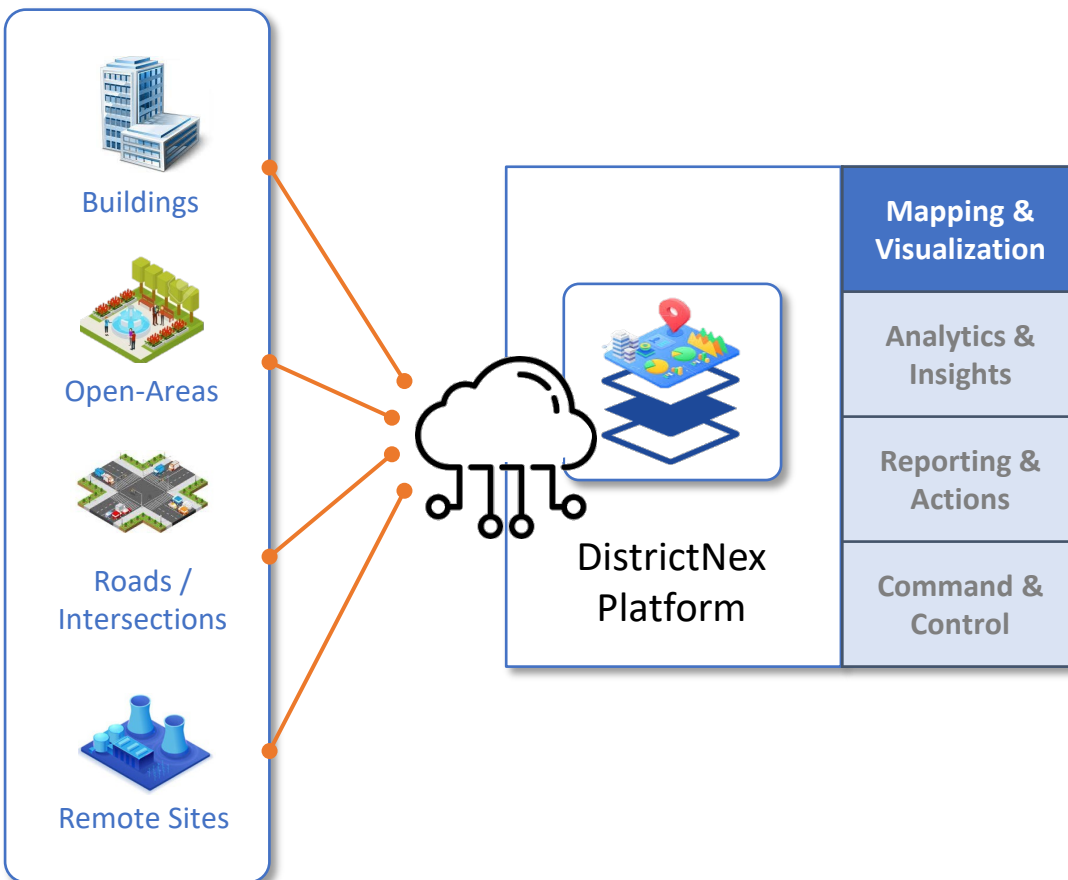
Analysis

Performance

Control

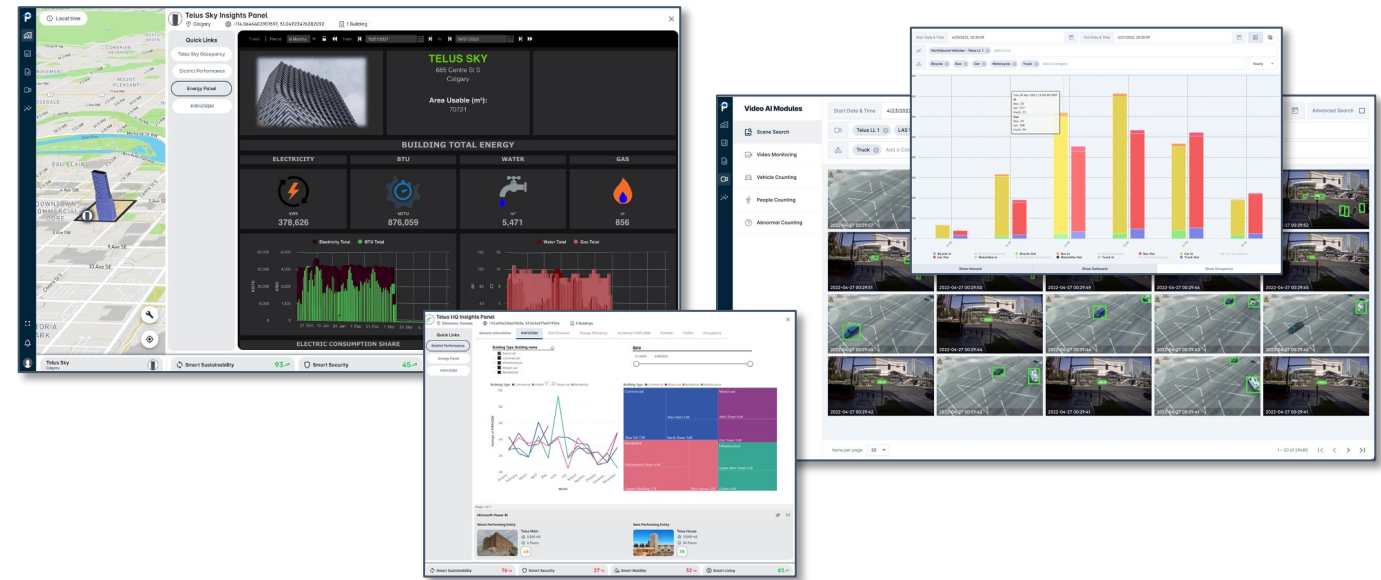
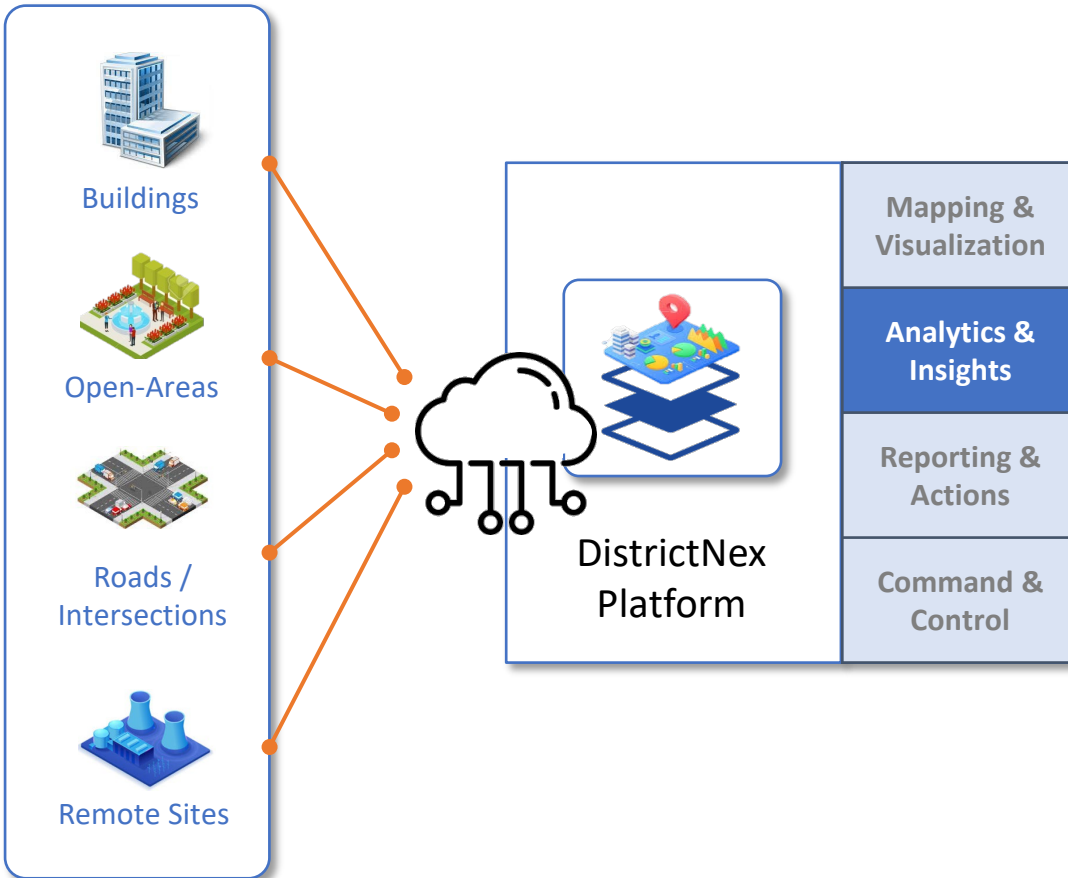
Reporting

districtnex – 'Smart-City as a Service'



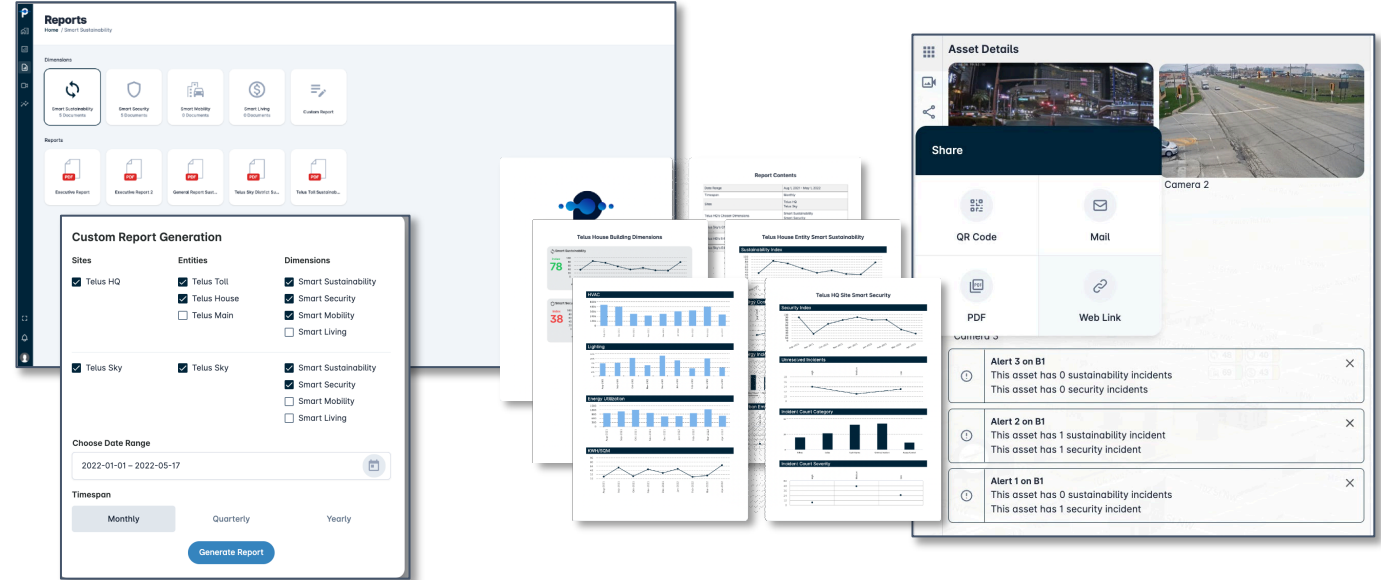
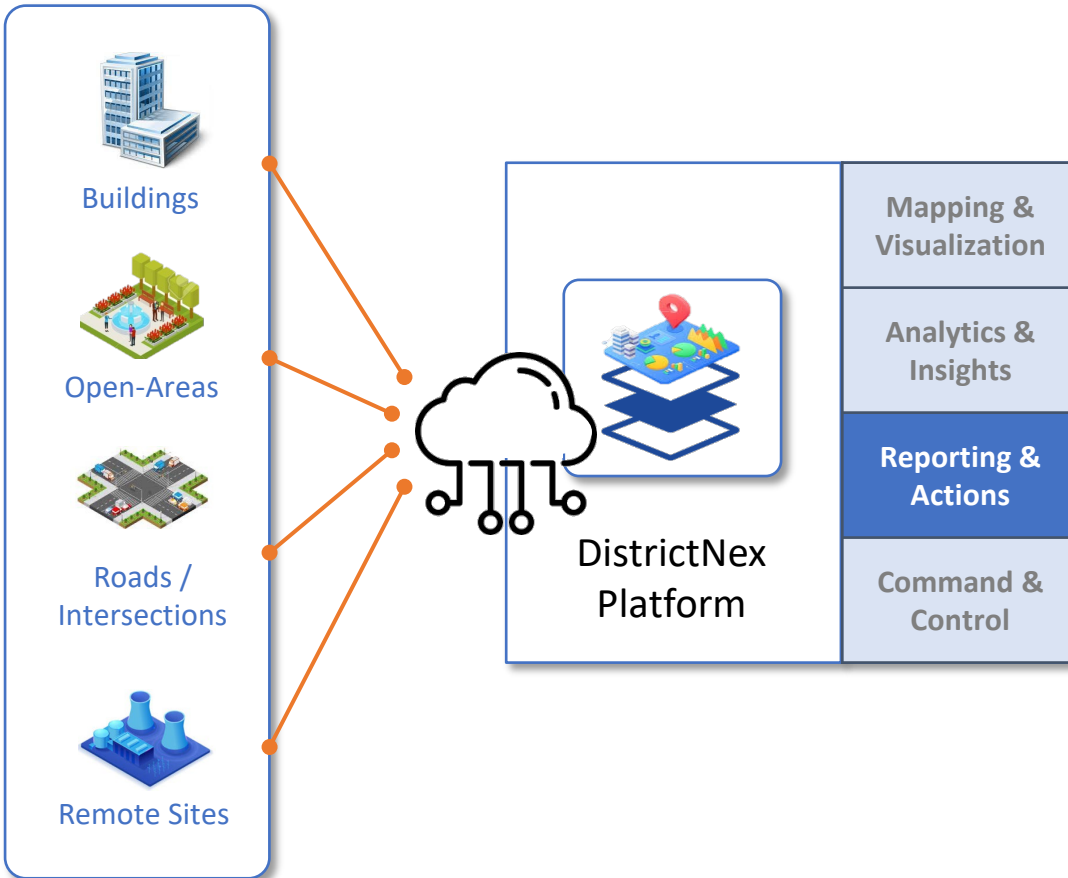
- 3D Digital Twin visualization, navigation, and drilldown across regions, cities, and sites.
- Geospatial significance and hierarchy for all data
- Intuitive presentation, visual consumption of current and historical data.

districtnex – 'Smart-City as a Service'



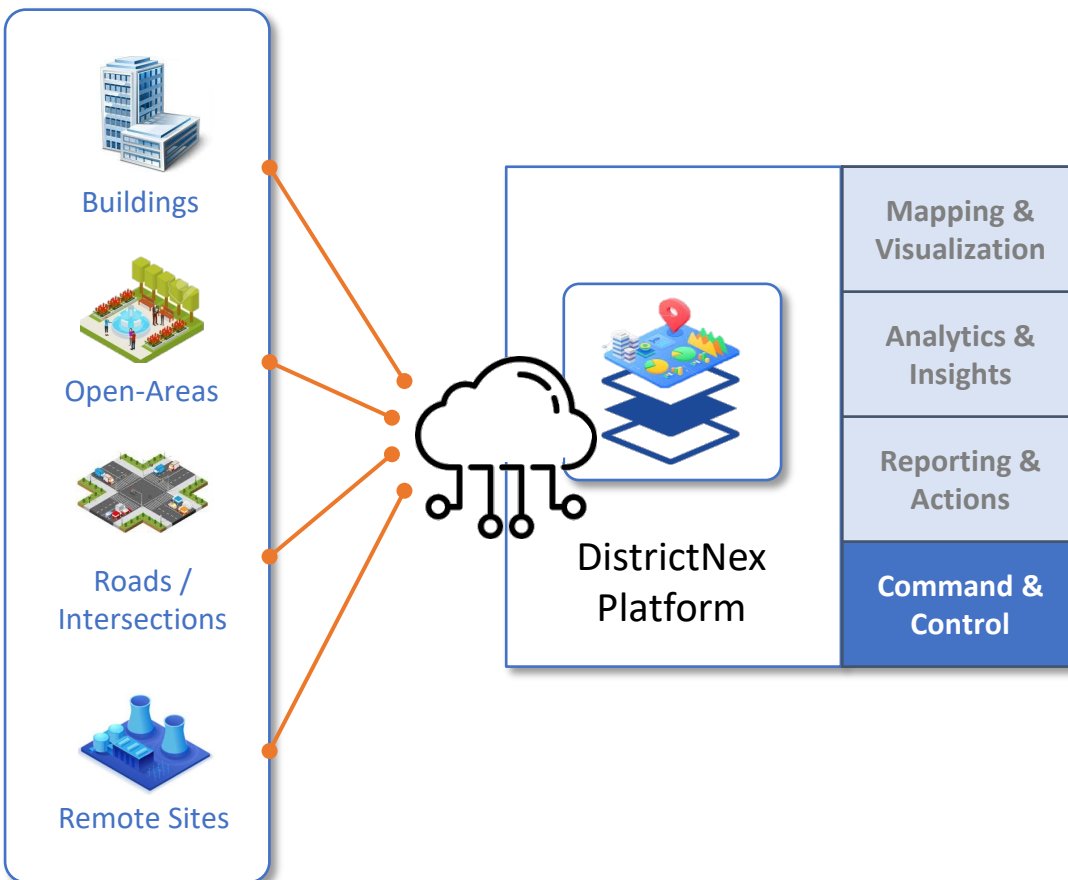
- *Data Model with horizontal integration of heterogeneous systems and data-sources, across smart dimensions.*
- *Data Model hierarchy that mimics the geospatial hierarchy, from buildings & floors, to sites, cities, and regions.*
- *Broad span of analytics use-cases, with trending, comparative, correlation, anomaly detection and predictive insights.*

districtnex – 'Smart-City as a Service'



- *Pre-built reports.*
- *Custom-report generation function.*
- *Seamless sharing of both reports and situational information to concerned stakeholders, for a clear action / outcome.*

districtnex – 'Smart-City as a Service'



Integration of discipline-specific command-and-control for a two-way interaction with systems and assets.

Consolidated, streamlined operation across sites.

districtnex – ‘Smart-City as a Service’



AGILE DATA ACQUISITION

UNIFIED DATA
REPOSITORY

VALUE PROPOSITION FOR
DIFFERENT PERSONAS



Buildings



Open-Areas



Roads /
Intersections



Remote Sites



DistrictNex
Platform

Mapping & Visualization	Front-End			
Analytics & Insights	Business Logic Use-Cases Modules & Sub-Systems			
Reporting & Actions	Data Acquisition & Management			
Command & Control	Smart Sustainability	Smart Security	Smart Mobility	Smart Living

Data Management Services
Cloud Infrastructure

Mapping & Visualization

Analytics & Insights

Reporting & Actions

Command & Control

END-USER



End-User Devices

EXECUTIVE:

❖ Insights & Decision Support

MANAGER:

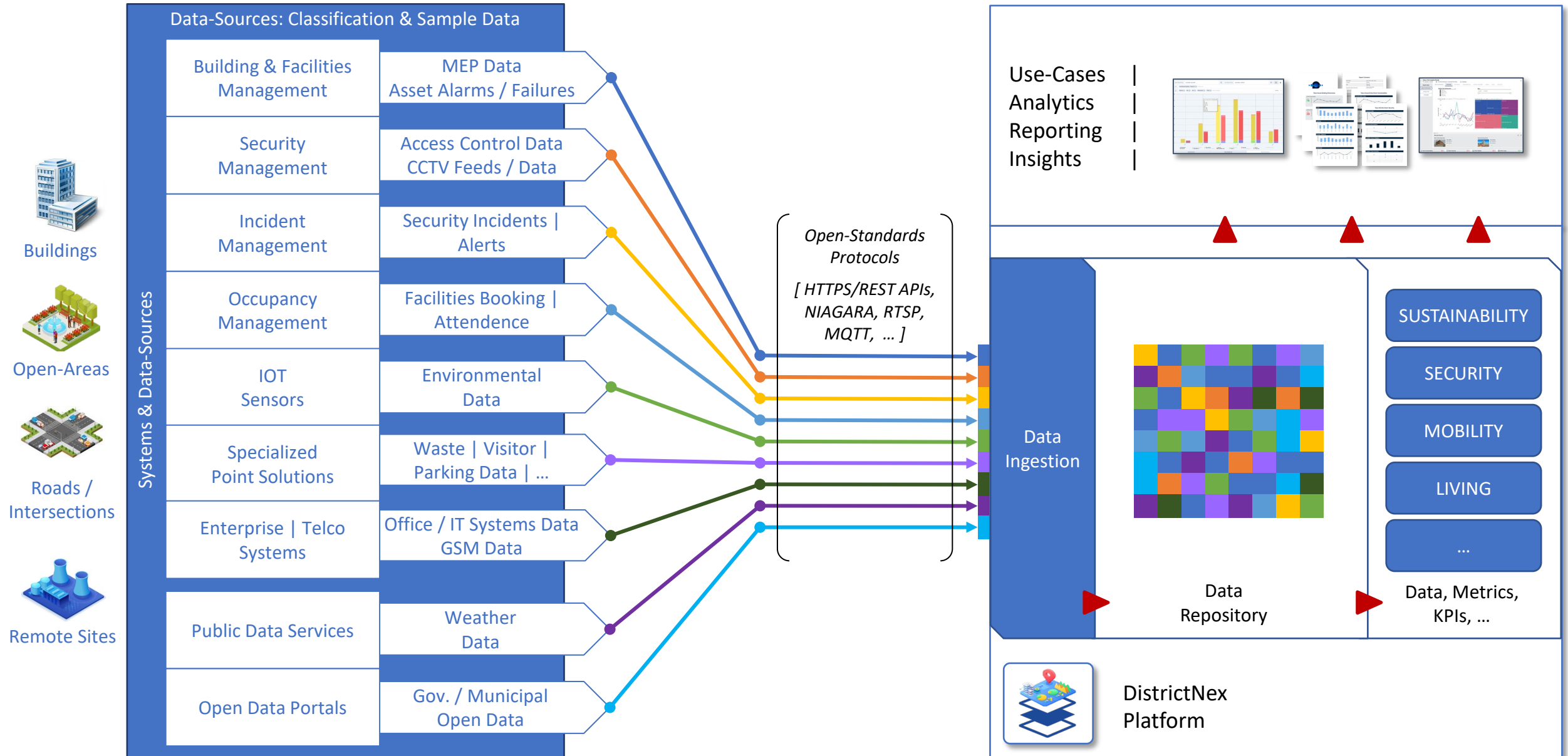
❖ Situational Awareness
❖ Performance Mgmt. & Reporting

OPERATOR:

❖ Operational Efficiency

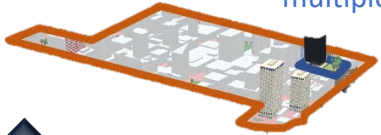


Command & Control
Center



- Abstraction of raw data into key metrics
- Normalization of data
- Data model that projects onto, and scales with the physical world

AREAS (geofence of multiple adjacent sites)



SITES (geofence of a combination of Buildings, Open Areas, and other objects)



FLOORS / BUILDINGS

OPEN AREAS

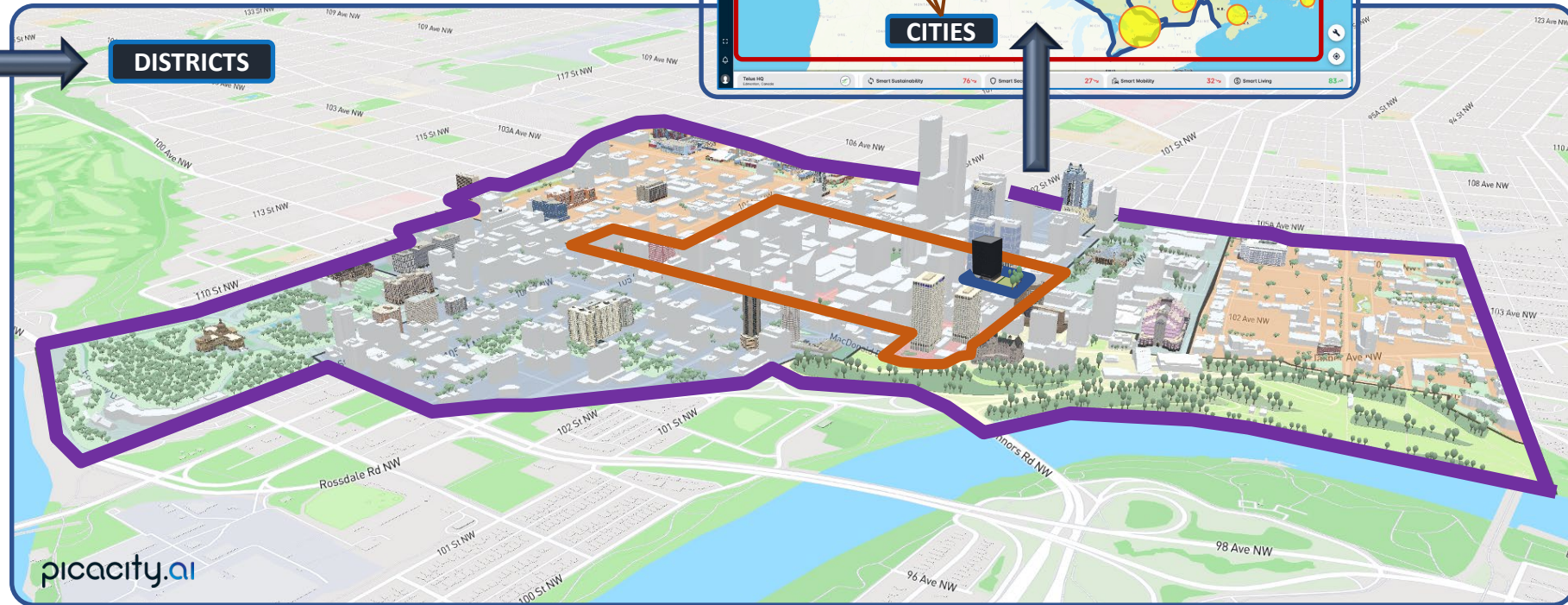
Space 1 Space 2
Space 3

Space 4
Space 5 Space 6

SPACES (Geospatial Tiles)

Space 1 Space 2 Space 3 ... Space n

DISTRICTS



OVERALL PORTFOLIO

REGIONS

CITIES

USE-CASES: Deliver on BUSINESS OBJECTIVES

HOLISTIC ASSET WIDE DATA DRIVEN INSIGHTS	SUSTAINABILITY / WELLNESS	SAFETY / SECURITY	MOBILITY
Asset Efficiency Analysis	Energy Consumption Analysis	Security Management Reporting	People Movement
Asset Cost / Productivity	Equipment Performance	Incident Management / Oversight	Occupancy / Space Utilization
Predictive Scenarios	CO2 Emissions	Video Management/ Video AI	Mobility Flow Analytics
Comparative Performance	ESG Reporting	Alerts / Failures	Vehicle / Parking Management
...	Air Quality



*Improved Planning and Decision
Making Through Insightful
district(s) wide information*

*Improved Operational Efficiency
Through Enhanced
Control/Visibility of all Assets*

*Potential Cost Savings
(10-15% Reduction in operating cost)*

*Reduced Resource Consumption
(15-20% Reduction in energy cost)*

*Optimized Sustainability, Security,
Mobility and Living*

Potential Revenue Generation

END-USER



End-User Devices

EXECUTIVE:

- ❖ Insights & Decision Support

MANAGER:

- ❖ Situational Awareness
- ❖ Performance Mgmt. & Reporting

OPERATOR:

- ❖ Operational Efficiency

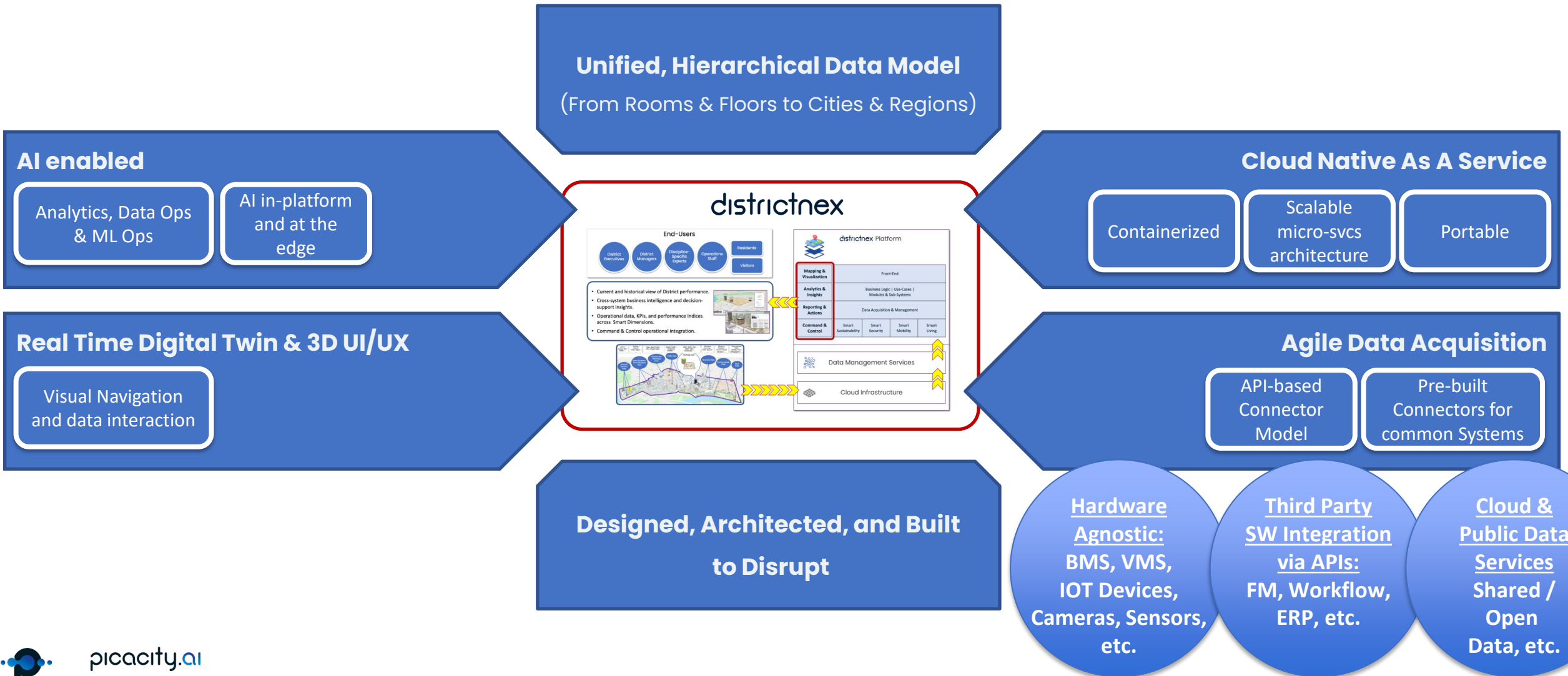


Command & Control
Center

districtnex – Summary



Delivering: Data Driven Insights, Sustainability, Safety/Security, Mobility, Wellness, and Operational Efficiency...



THANK YOU



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