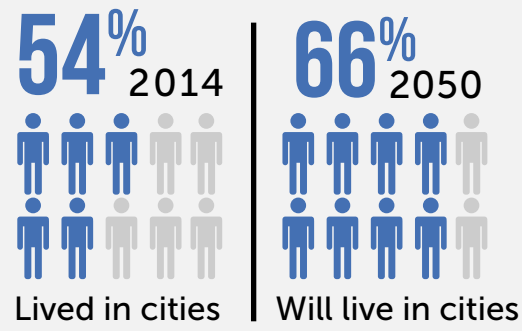


SHAPING CITIES AND THEIR ECONOMIES

smart cities - smart regions- smart world



2.5 BILLION
additional people are expected to live in cities by 2050

**↑ INFRASTRUCTURE
RESOURCES**

HOW WE DO MORE WITH LESS?

HOW WE ATTRACT BUSINESS
AND INNOVATORS?



DATA CAN CHANGE AND SHAPE CITIES AND THEIR ECONOMIES

EFFICIENCY

Government data available online saves time and endless repetition, also helping to identify actionable intelligence.

CITIZEN CONNECTION AND TRANSPARENCY

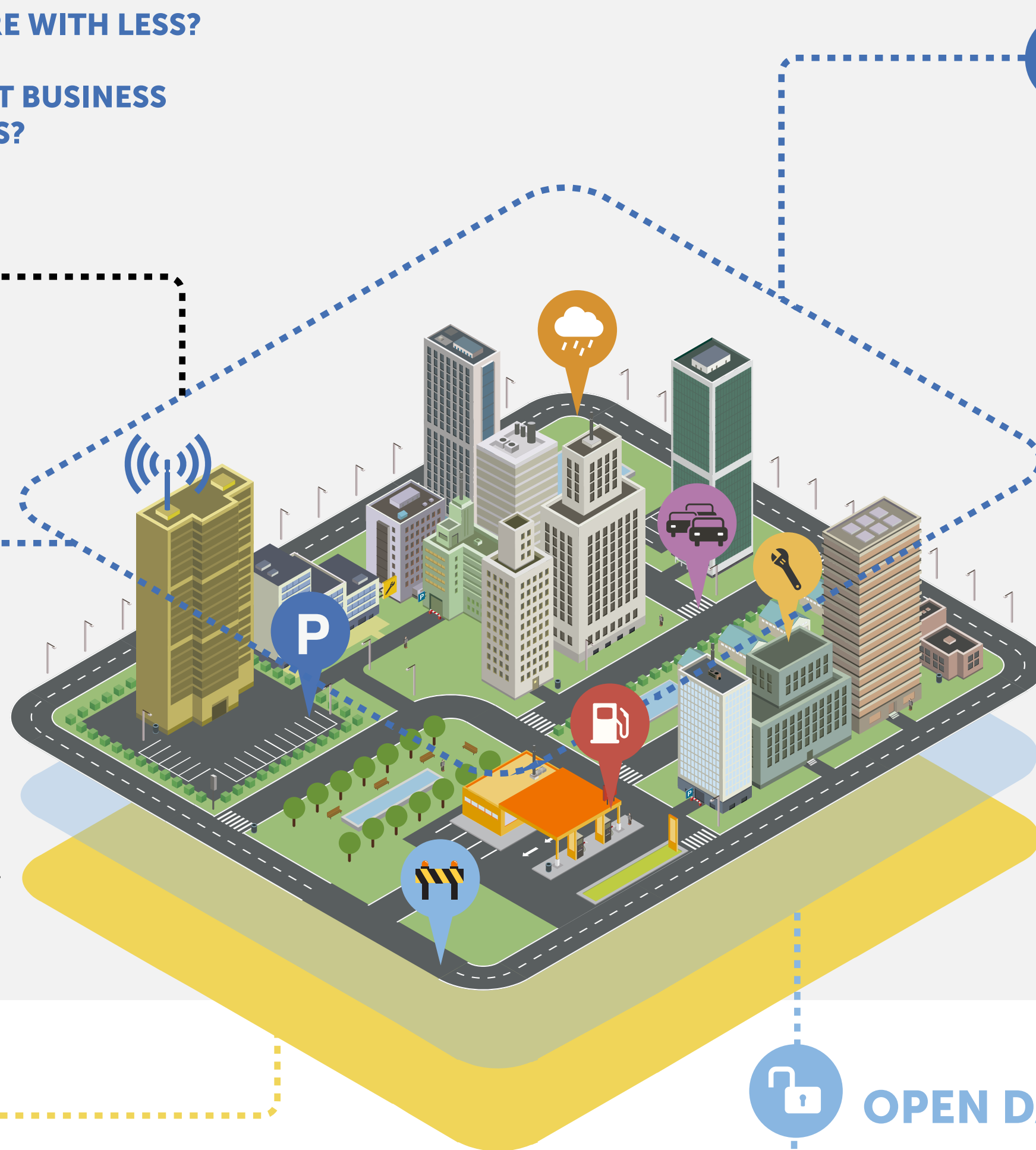
Publishing data demonstrates government transparency and builds trust and relationship with citizens.

INNOVATION

Revenue and savings can come from the applications built on shared data.

REACT, PREDICT, PLAN

- Trends and behaviors.
- Insights into historical patterns.
- Better informed policy and planning decisions.



DATA multiples sources

OPPORTUNITIES FOR USING OPEN DATA

Free for anyone to access, use and share.



CREATING AN ECONOMY OF DATA

Paid-for third party data from businesses can create an economy of data.

ECONOMY OF DATA ECOSYSTEM

ACTORS

PUBLISHERS:

Those who make data available freely or at a cost.



USERS:

Citizens or developers that create services with open data made available by others in a common platform.



ENABLERS:

Those who train or advise on working with open data.



Putting the technology and systems in place to allow data to be monetized.

APIS ARE THE KEY

APIs enable developers, enterprises, organizations, cities, suppliers and partners to share and leverage data services of others and more readily create new products, applications and services.

DATA HUBS

BRINGS TOGETHER:

- end users
- service providers
- sensor network providers
- data providers
- developers
- government representatives.

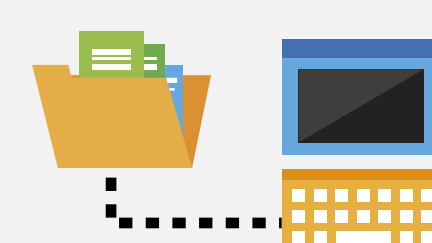
GATHERS ALL
THE SENSOR DATA.

SMART CITY MARKETPLACE PLATFORM

SC data services from different partners can be exposed, priced, monetized and consumed

THE FIWARE BUSINESS FRAMEWORK

Management and monetization of different kinds of digital assets involving multiple partners.



TM FORUM APIS:

Product Catalog, Ordering, Inventory, Party, Customer, Billing, Usage

FIWARE Business Framework Components:

Store GE, revenue-settlement-and-sharing-system, (new) APIs Orchestrator

OPEN DATA ENVIROMENT



Enhancing Agile Data Openness.

PUT DATA ONLINE AS A PLATFORM FOR INNOVATION

Data Governance: strategies, policies, processes and standards driven by city goals.

Sustainability and Scale:

Data Publishing: constancy and consistency.
Automation: APIs + Data Management tools.

Security and Privacy.

DATA SHARED ACROSS CITIES TO SUPPORT WIDER INNOVATIONS



CO-CREATION

COLLABORATION

SHARING

SERVICES BUILT ON TOP OF DATA