

Internet of Things (IoT) Public Sector

A Case for Change

As virtually everything becomes connected and data proliferates, organizations should address three great opportunities around IoT:

- Enabling deeper stakeholder relationships
- Finding new sources of value through data
- Accelerating the digital transformation of their operations

Those leading the way are amplifying their performance – capturing numerous diverse forms of data from a variety of interconnected devices – and leveraging that data using AI-based applications to reach new levels of operational and financial proficiency. They are developing personalized services and experiences that transform their organizations. They are applying intelligence to the data deluge from connected things.

Building a Platform for Growth

Bringing data together from a variety of sources enables a data platform of growth. Tapping into a network of IoT devices combined with data coming from traditional data sets and data services is the foundation of an enabled data platform. This enables organizations to capture and explore the mountain that is within the operational reach of an organization.

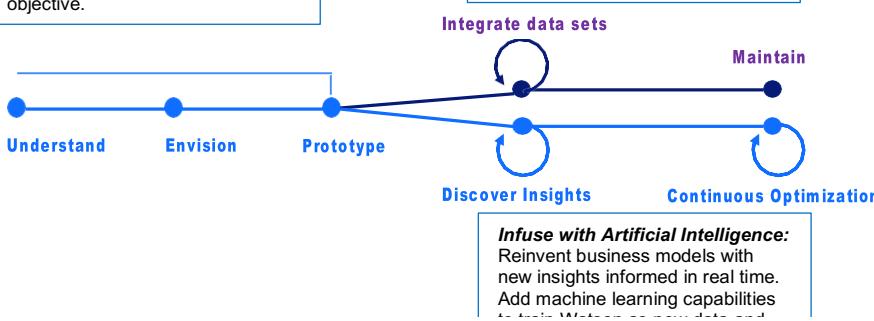
In order for organizations to optimize their platform they must advance much further in one critical area – creating a highly scalable IoT infrastructure with a robust platform that is engineered to scale.

Infusing data with Cognitive and AI

IBM has focused our IoT offerings by infusing the data that has been integrated in the IoT data platform with the advanced analytics, AI, and Cognitive Technologies. Leaders in IoT adoption understand that with the addition of AI, the full potential of IoT can be leveraged for business model reinvention. With intelligence, they can introduce new business models, discover new opportunities, reduce risk and increase efficiency.

Develop a clear vision: Design, create, and equip the team to build a capability with a shared objective.

Enable the Data Platform:
Integrate the data sets to needed for the capability. As timeliness of data, data, availability grows, continuously optimize the data platform.



Many types of IoT Solutions

IBM has focused its offering for public sector clients based on where we see value in the market. Some examples of relevant use cases include but are not limited to:

Transportation and Travel: Many of the “smart city” use cases fall into this category. IBM is working with cities and partners to deliver capabilities to manage traffic, public transportation (rail, air, bus), and parking.

Typically, IBM is bringing multiple types of data from a client (i.e. city, transportation department, airport, port authority, etc.) and combining both internal and external data sets to bring an understanding of the client's operating environment.

IoT for Buildings: Buildings are often an organization's largest asset with multiple opportunities for optimization:

- **Energy Savings**
Identify e.g. air condition and heating being powered on at the same time, automate light control.
- **Space Optimization**
Identify free and occupied office space, meeting rooms, and assist in finding the right room quickly.

IoT for Asset Management: Aggregate relevant sources of operational data and apply machine learning and physics-based models to:

- Determine likelihood of asset failure
- Calculate “time to failure” based on statistical modeling
- Provide insight into equipment failure by identifying top failure modes
- Recommended optimal maintenance schedules
- Integrate cognitive analytics insights to support continuous process

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