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Smart Cities Data Exchange

Cities and Industry Partnering for the Future

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Current Situation

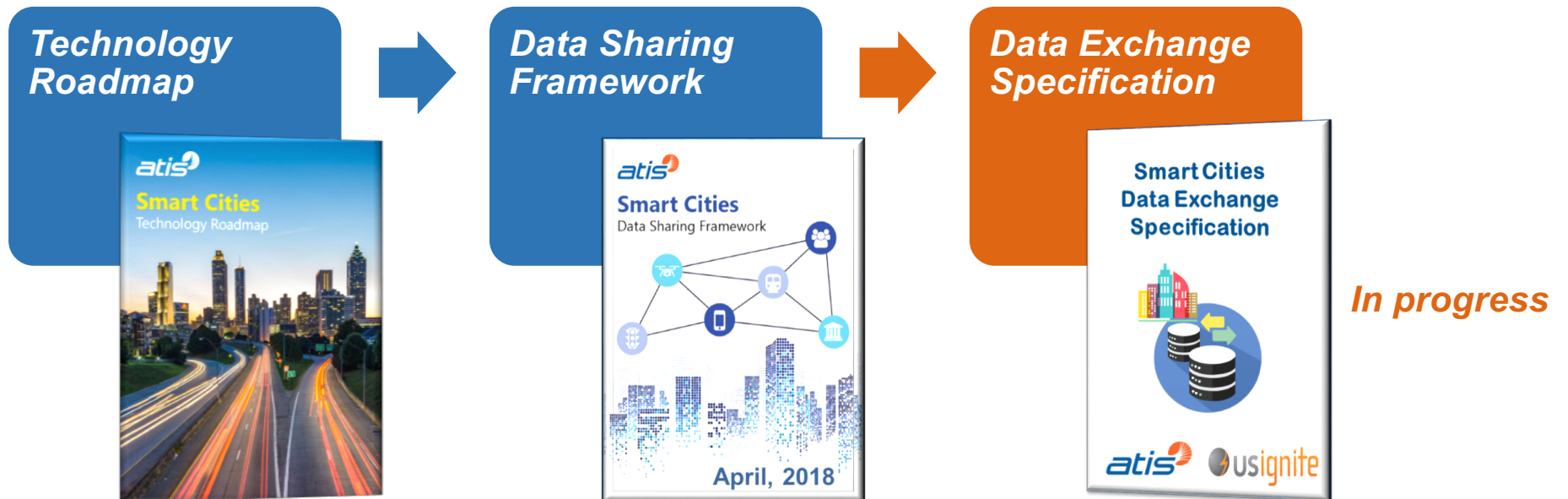
- Cities are deploying innovative applications to meet their local needs and priorities.
- Industry and academic partners are already working with many cities on infrastructure and solutions.
- Data management platforms are providing integration of data across city operations and (in some cases) open data portals.



But...

- ↪ No common approach to exchanging data beyond city operational boundaries.
- ↪ Smart cities are rapidly evolving to smart regions and city-to-city partnerships.
- ↪ Cities are beginning to recognize the value of data sharing with other data entities.

ATIS Engagement with Smart Cities



Starting in 2016, ATIS began to engage industry and city officials to:

- Create stronger partnerships
- Promote new investments
- Assess challenges and opportunities
- Provide technology guidance to cities

In late 2018, ATIS and US Ignite created a partnership with cities to focus on a common approach for a *Smart City data exchange*.

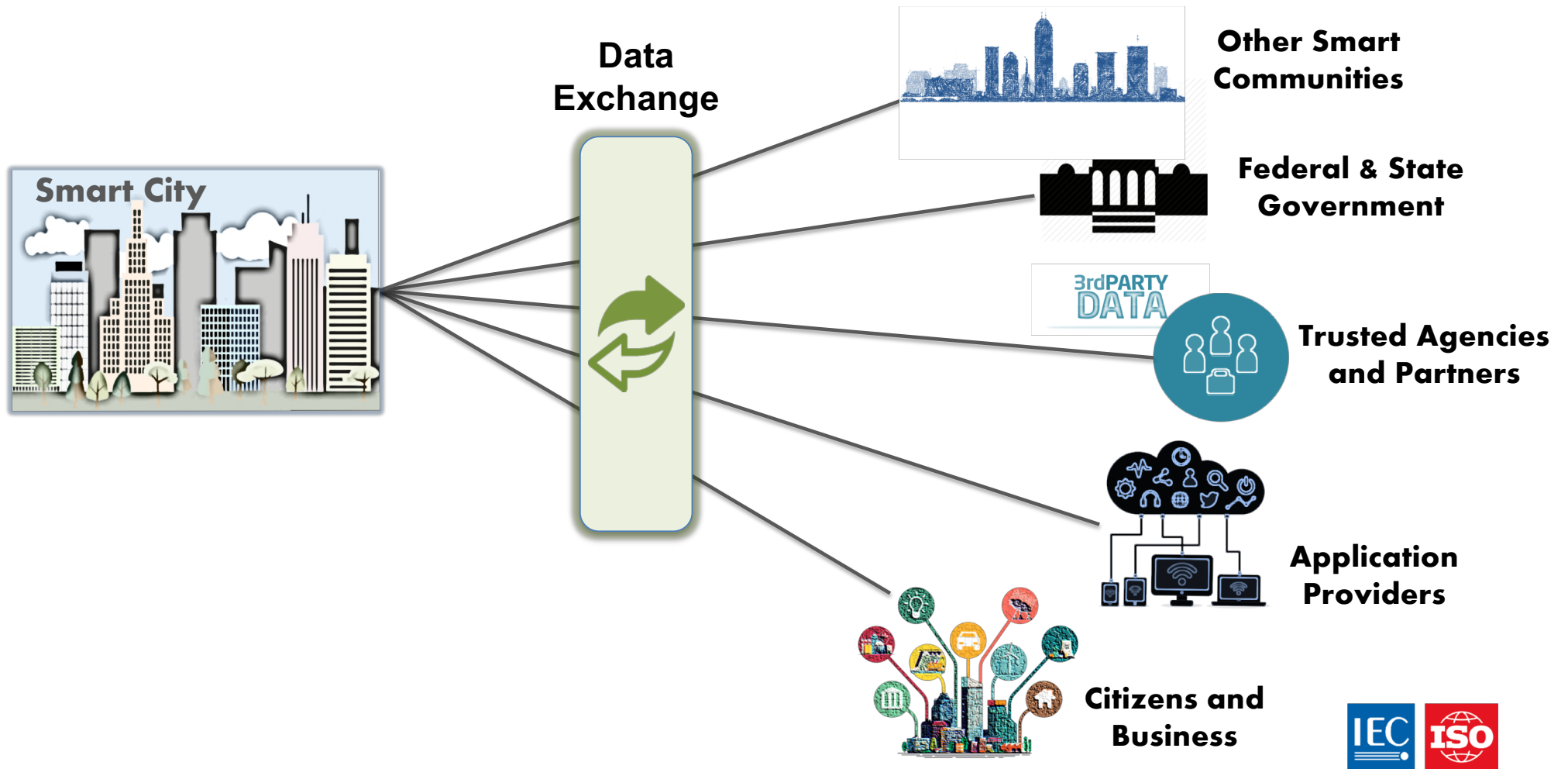
Scope and Objectives

- ATIS and US Ignite working with leading data-centric cities to develop a *blueprint* specification that promotes interoperability and data sharing.
- Data exchange specification will include:
 - Architectural framework
 - Technical requirements
 - Business framework alternatives
- Cities have joined this initiative and sharing their data perspectives and future challenges.
- Technology and business framework will be applied across a set of primary use cases.

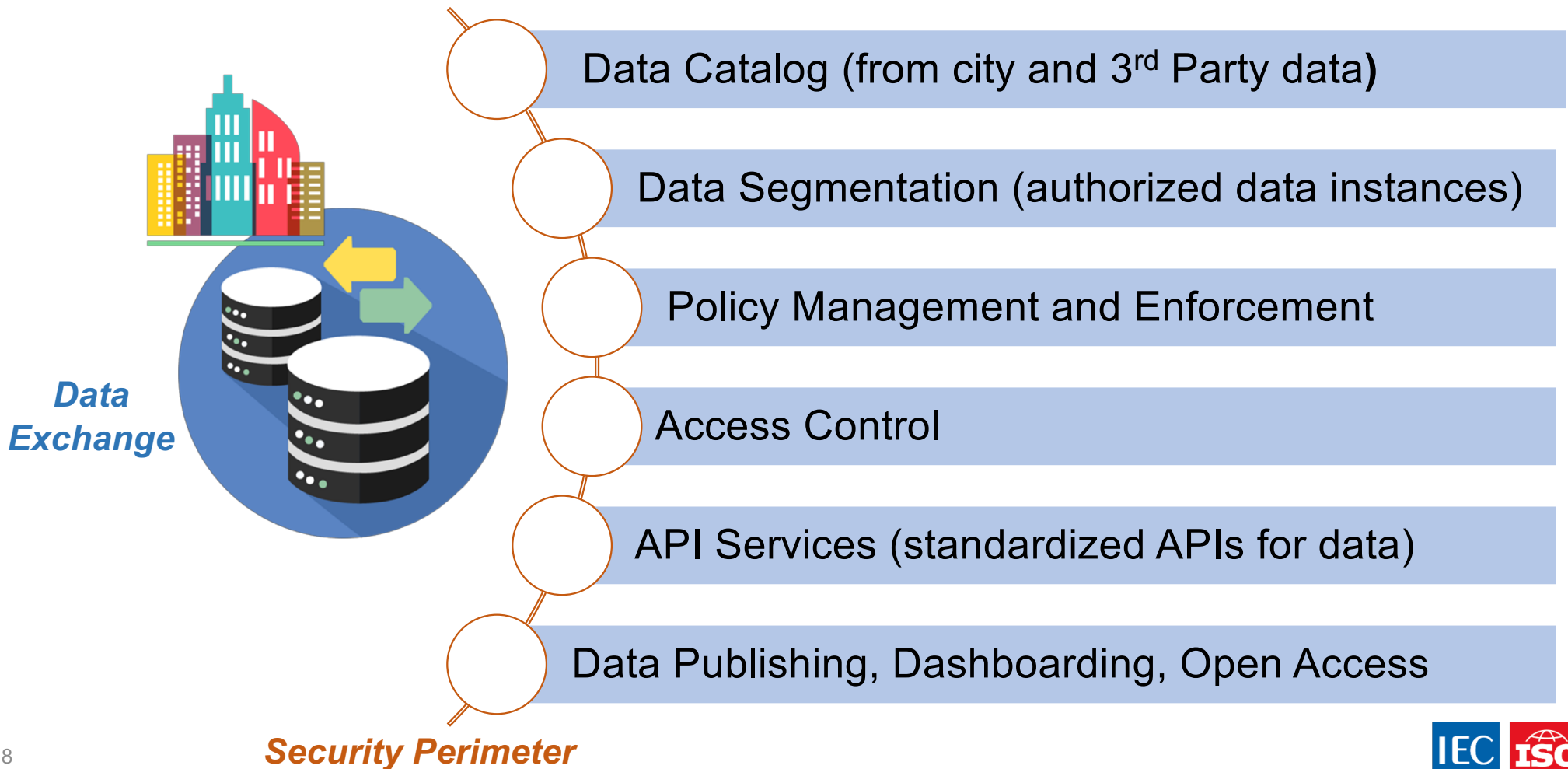
Current Participating Cities



Application Space for a Data Exchange



Basic Elements of a Smart City Data Exchange



Economic Development Use Case

- Preliminary discussions with cities identified this use case as a key target.
- For economic development, data can be leveraged to provide:
 - Tools for well-informed policy decisions
 - Highly visible applications for development community to explore multiple scenarios
 - Opportunity for citizens to be engaged with walkability, drivability and livability
- Demonstrates to developers and citizens the lucrative benefits of cooperative public/private city planning by quantifying the positive impacts.
- Data from multiple city departments is joined with private sector data to assess and promote new economic development initiatives.



Conclusions

- Data exchanges represent a future dimension of Smart City investments and opportunity.
- Cities are beginning to recognize the value of data and the need to exchange this data beyond city operational boundaries.
- Standards will act as a powerful enabler by advancing interoperability between cities and other data entities (government and private sector).
- Data monetization and public/private partnerships will be accelerated by a common approach across local governments.
- Publication of Smart City data exchange specification is targeted for 2019 with plans to explore proof of concept testing with cities.