Tencent 腾讯

Data middle-Platform in IoT & SSCs

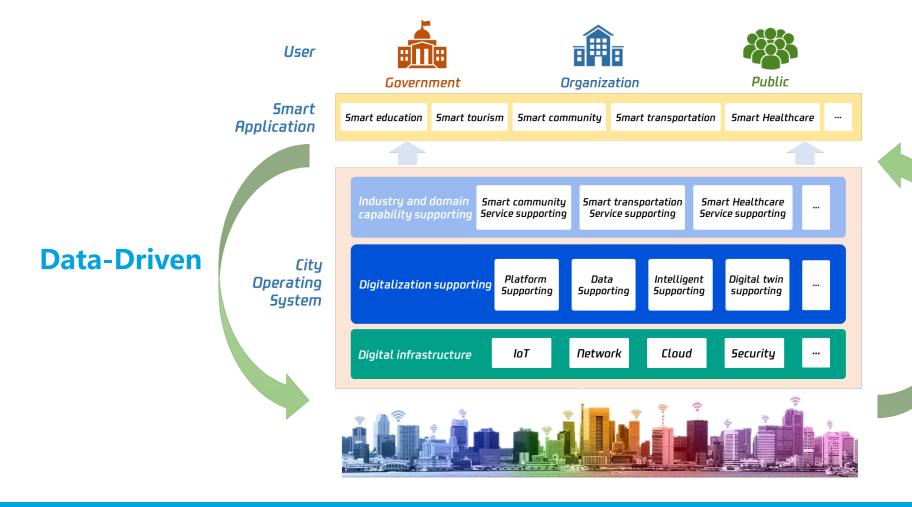
—— Digital transformation for cities and communities

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Digital transformation for cities







Rich scenarios

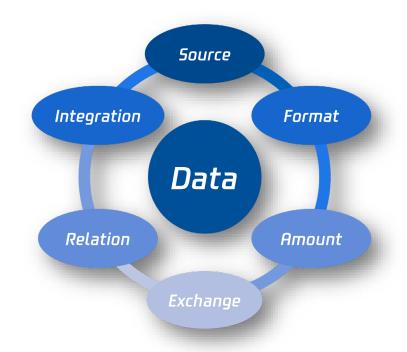
Light applications

Solid foundation



Data capability enhanced by IoT







Strategy Governance Architecture

Processing

Analysis Service



Digital silos

 Duplication of ICT system developments to support data collection and processing from various data sources.
 Explosive data volume, repeated system maintenance, and high operational cost



Same task, multiple processes

 Independent deployment with complicated and non-unified data collaboration strategies and data processing requirements, less standard data formats or schemas.
 Low level of data interoperability and process efficiency for cross-department or cross-domain scenarios



Same concept, different expression

 Non-reusable data service with inflexible interaction and less management transparency.
 Low level of public cooperation and lagging reaction to business innovation and requirements



Related data, hard to cooperate

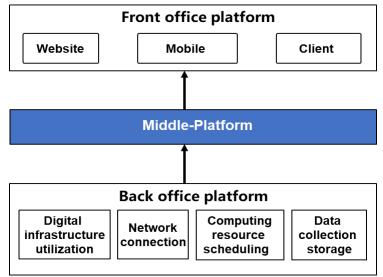


Motivation & Solution



User/system

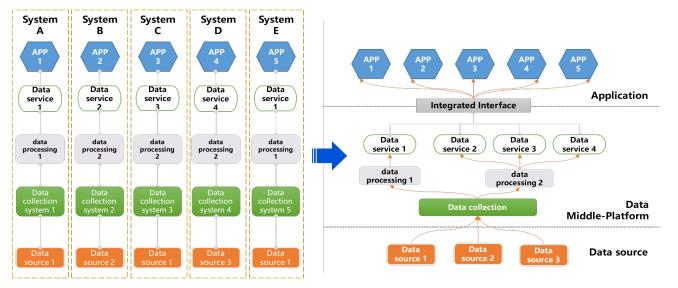
Direct user interaction: innovationdriven rapid change



technical supporting: reliable-driven stable lifecycle management

Data processing

break down silos, abstract generic data model, provide unified data management and governance



improve data processing efficiency, explore data value, promote data openness and sharing, and deliver high quality data services



Q2 / SG 20: ITU-T Y.data-MP



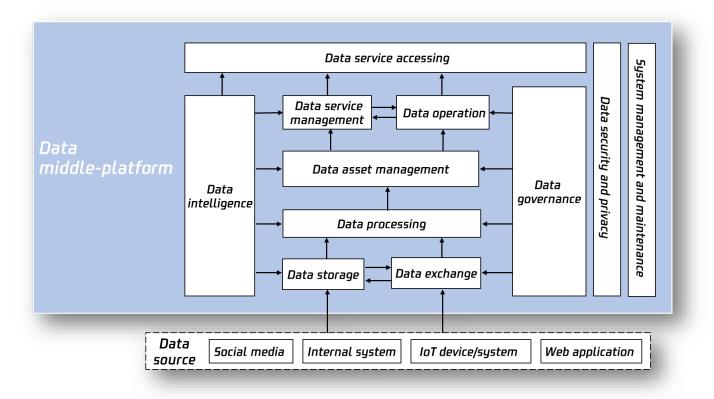
Title Framework for data middle-platform in IoT and smart sustainable cities

This Recommendation introduces concept of data middle-platform in IoT and Smart Sustainable Cities, identify high-level requirements, then brings a capability framework of the data middle-platform in IoT and SSCs.

The scope of this Recommendation includes:

- concept of the DM in IoT and SSCs,
- requirements for the DM in IoT and SSCs,
- capability framework for the DM in IoT and SSCs.

In additional, use cases of DM in IoT and SSCs are provided in appendix.





Thanks

