

A stylized illustration of a smart city skyline. The buildings are in various colors (blue, orange, grey) and some have Wi-Fi symbols above them. In the foreground, there are green trees and a road with several cars (orange, blue, red, dark blue) driving. The background is a light grey gradient.

Solutions for Sustainable Smart Cities

18th August, 2017

What Does SMART Mean?



Sustainable



Monetizable



Accessible



Responsive



Timely



What Drives the Smart City ?



- A Smart City is like a large engine generating an enormous amount of data
 - Sensors in every possible device
 - Smart meters
 - Broad communication network
 - Complex network of data generating systems

- What should we do with all this data?
 - Collect and Enrich the data
 - Monetize transactions
 - Enable informed data driven decisions
 - Help service the needs of the Smart Citizen



Data Collection and Management Powers the Smart City



But how do you collect, enrich and manage billions of data events and transactions?

Ensuring that it is highly

- Efficient
- Accurate
- Robust
- Centralized
- Actionable
- and Available Now

all of this is essential for informed decisions.

The CSG Answer

CSG's Data Orchestration solutions operate between sensors, devices and networks to efficiently monitor and operate the Smart City



ONLINE MEDIATION

Real-time event processing from any smart device



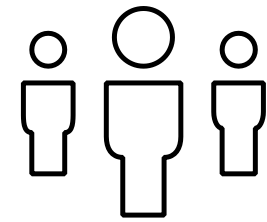
OFFLINE MEDIATION

Massively scalable, collection and marshalling, reporting and analytics.



ACTIVATION

Multi-device activation and work flow management.




CUSTOMER COMMUNICATION

Multi-channel, rules driven notification to users and other devices



Monetization Underpins the Evolution of Smart Cities



Why should you monetize relevant data events and

“Performance-based approaches for **revenue sharing should be built into delivery models for smart city systems**, whereby the public and private-sector investors share in the value of efficiency gains ...and revenue from value-added analytics services.”

Deloitte, 2017



all of this is essential for sustainability and evolution

CSG can help you

Monetization solutions for **Any Service, Any Customer** and **Any Payment Method**
Enabling and recognizing revenues from Two-sided business models



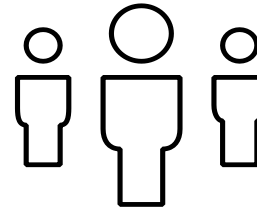
CHARGING AND BILLING

Prepaid, post-pay, real-time, subscription. Multi-service / device identities and hierarchies



NEW BUSINESS MODELS

Configurable catalogue, any product or service, bundling, rules driven



PARTNER MANAGEMENT

Automated onboarding, usage tracking, data sharing, reconciliations and settlements



REVENUE ASSURANCE

Usage to cash auditing and reconciliation

Monetizable

Sustainable



Smart Cities don't just build themselves....



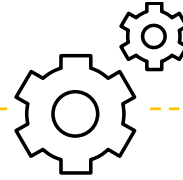
- Rapidly rollout Smart devices and Smart infrastructure efficiently
- Reduce the cost of service
- Improve responsiveness to customer demands & service issues
- Demand for greater uptime
- Ensure the Smart City is running seamlessly
- Directly impacting the quality of life of your citizens

Timely

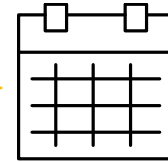
Responsive



Right Skills for the Right Job – *can make all the difference*



Skills, Time, Route (Area), Traffic,
Distance, Certification, Equipment,
Contractors



Capacity and Availability
Technician Schedules
Data and Performance Analytics



New Installs – Provisioning last-miles
Preventative Maintenance
Infrastructure and Network rollouts
Automated Fault call-outs and more



Communications with Technicians
Communications with Customers
Operations Reporting

Timely

Responsive



CSG can help you...

Field service management solution with best practices & advanced decision-making algorithms designed to help you manage and optimize your entire service operation - before, during, and after day of service

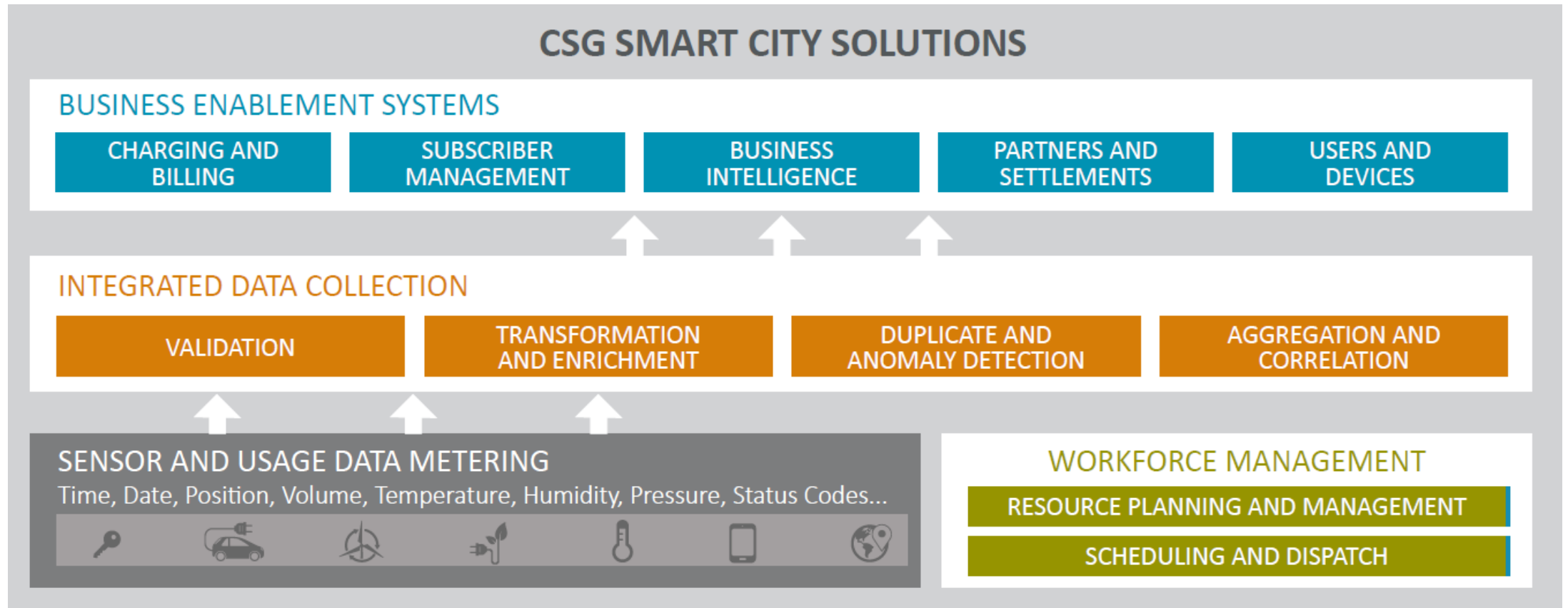
“a well-oiled field service organization can positively impact the bottom line, from two directions: **dramatically reducing operational expenses; and accessing new revenue streams** from the hyper-connected world of the Internet of Things (IoT), smart homes (buildings) and general interconnectedness” **Stratecast 2017**

Timely

Responsive



Talk to CSG and See How We Can Help



S M A R T





Thank You

Aditya Dholi
Aditya.Dholi@csgi.com

Ishqi Shuaib
Ishqi.Shuaib@csgi.com

