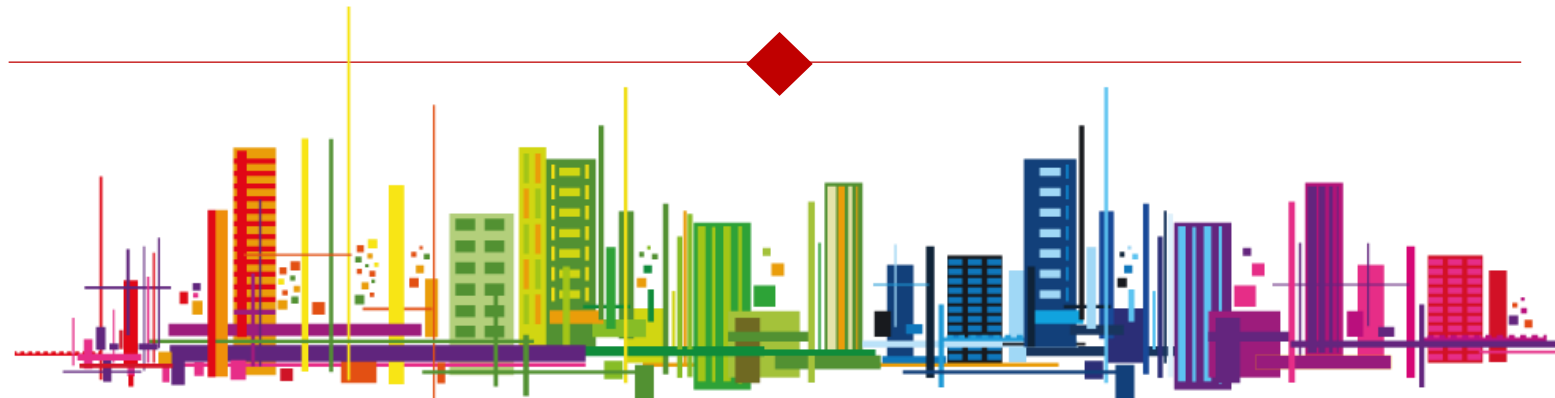




Sustainable Smart Cities

Enabling smart communities with smarter services

Sandeep Bohidar, Senior Solutions Consultant, CSG



ADDRESS PUZZLE



Default Navigator for common man on the street



App Based Taxi Service



Location based Food Delivery

Gave birth to new age industries and businesses

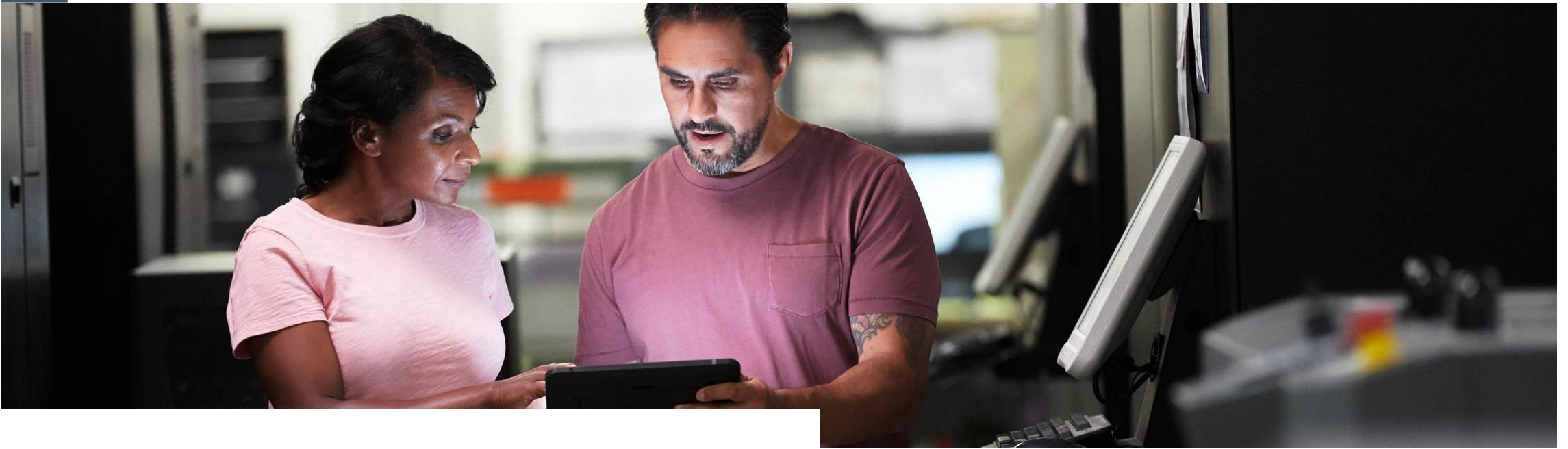
Google Maps expected to generate \$ 5 Bn by 2020; most of which would potentially be re-invested to sustain and lead in market place

**70% OF THE WORLD'S POPULATION WILL LIVE IN
URBAN AREAS BY 2050,
and so will in
INDIA**

Thriving Economy

Enriched lives

Smart services



WE THEREFORE NEED...

An ecosystem which enables our smart cities self sustain in long run and meet expectations of smart communities...

ELEMENTS OF SMART ECOSYSTEM

Strong sustainable model



Citizen Service

Governance
Public services



Infrastructure

Smart WIFI
Smart Vehicle systems



Smart resources

Renewable Energy
Smart Health

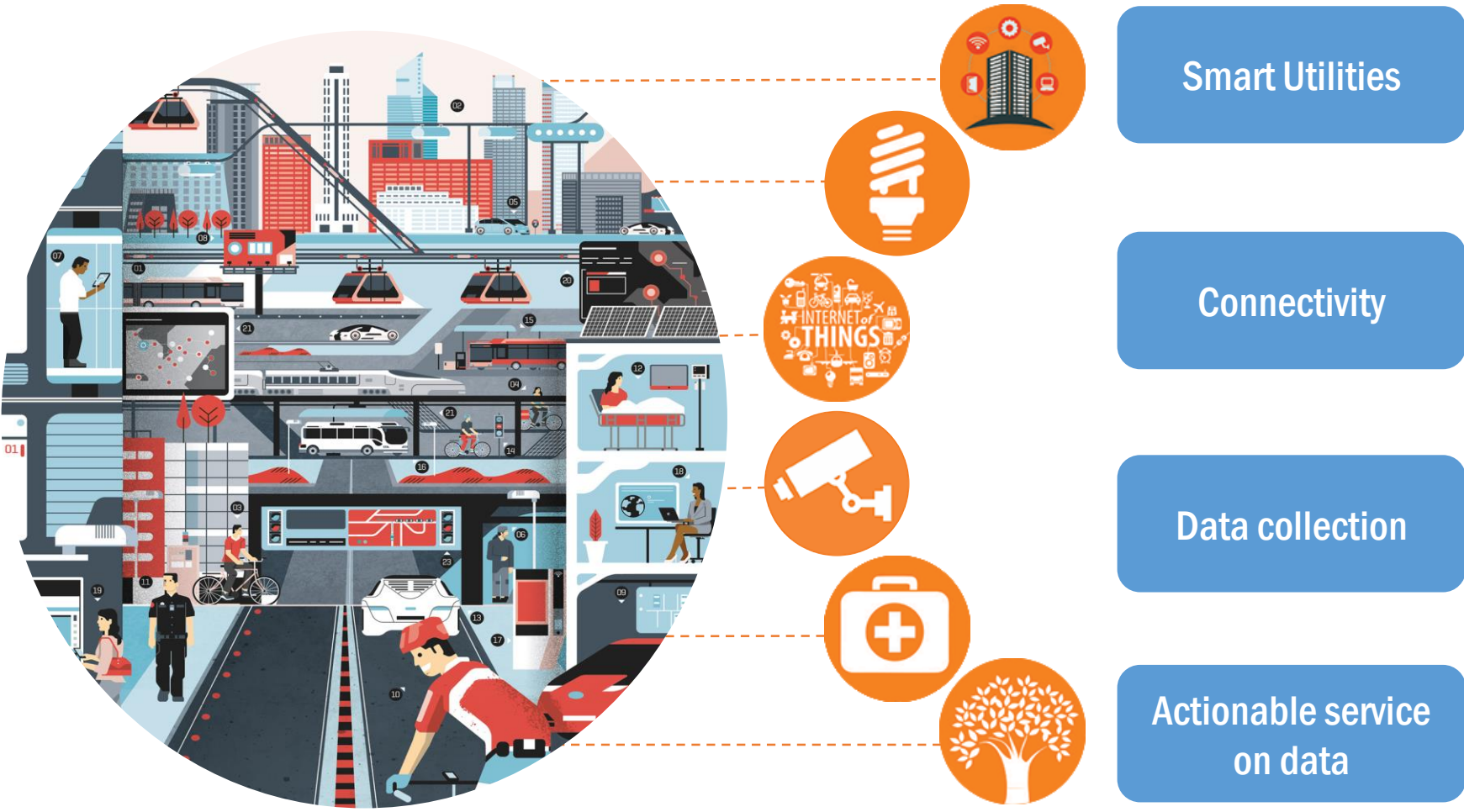


Smart Economy

Monetize Utilities
Data as service
Enterprise Marketplace

Smart Services

SMART SERVICE MONETIZATION



Smart Utilities

- Parking ticket systems
- Smart Energy/Water
- Enterprise business

Connectivity

- Public WIFI
- Gated community Broadband
- Enterprise lease line

Data collection

- Apps based services
- Government data services
- Medical advise services

Actionable service on data

- Optimal decision Making
- Traffic decisions
- IOT device actions



CSG SMART SERVICE SOLUTION

SMART DATA ORCHESTRATION

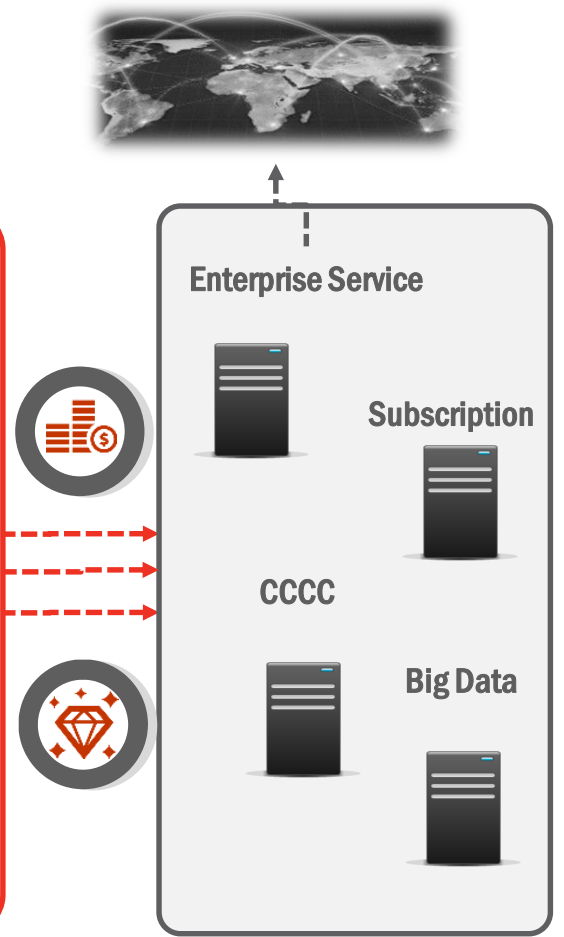
- All Sensors data
- Energy utilities
- Healthcare
- Automotive / transport
- Security / surveillance
- Citizen Feedback
- Public sector / connected cities

Dedicated core and radio networks

large volumes of **Raw Data**

CSG Data Integration Layer
Cost effective scalability and intelligence realization

Validation	Transformation
Aggregation	Enrichment
Duplicate Detection	Correlation
Normalization	Routing



Aggregated **Charging Data** and **Actionable Insights**

SMART DATA BILLING

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



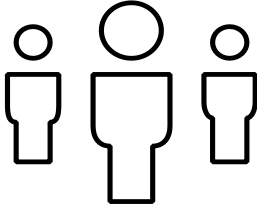
CHARGING AND BILLING

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

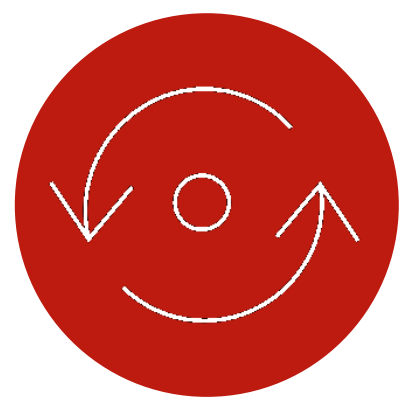


REVENUE ASSURANCE

Usage to cash auditing and reconciliation

YOUR WORKFORCE -YOUR SMART CITY

INCREASED
EFFICIENCIES



Integrate
Operationalize
& Automate

SERVICE THE “NOW”



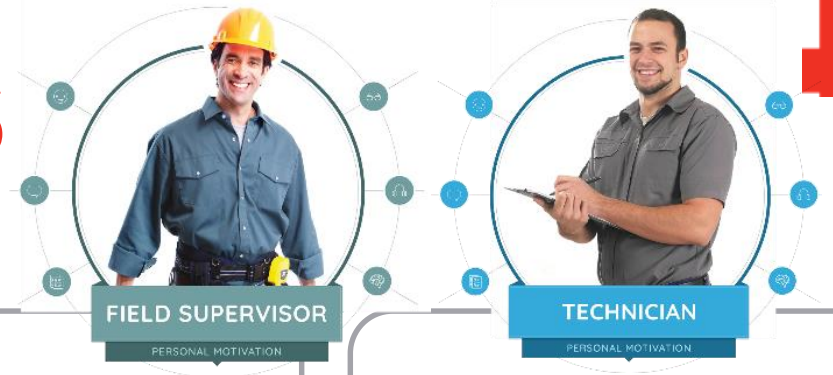
Smarter & Faster
Dynamic Awareness &
Continuous Optimization

SAFETY OF YOUR
WORKFORCE



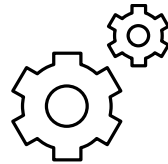
Realtime ‘Live’ Tracking
Get the Right Person to the
Right Job!

CSG WORKFORCE EXPRESS



RESOURCE PLANNING & SCHEDULING

- Workforce shift profiles
- Appointment scheduling
- Contractor management
- Forecasting



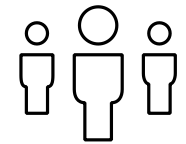
ROUTE OPTIMIZATION

- Continuous route optimization
- Dynamic dispatch



FIELD/MOBILE EXECUTION

- TechNet**
Job, equipment, payments
- Messaging
- Workforce Tracking & Safety
- Order confirmation, signature capture, receipts
- Supervisor Module**

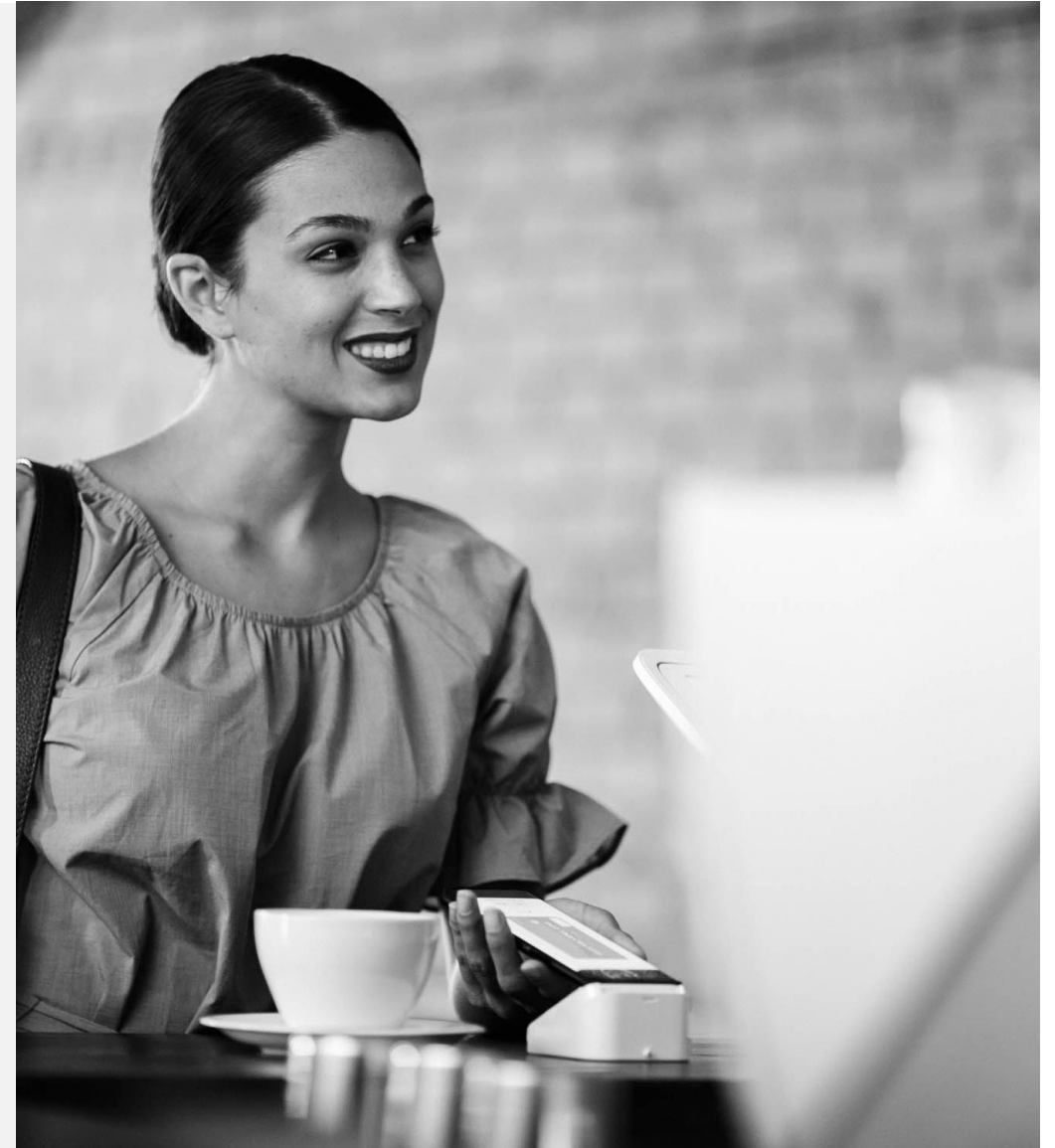


CUSTOMER EXPERIENCE

- Customer preferences
- Voice, SMS, email
- Self-service web portal
- In-bound IVR
- Uber-like app

CSG CAN HELP

To quickly and easily
put into place the
processes and systems
needed to transform to
a digital services based
city that isn't just
smart, but **SMARTER!**



THANK YOU!

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