

Astrikos Consulting

STRATEGIZE - ELUCIDATE - DELIVER - ENHANCE

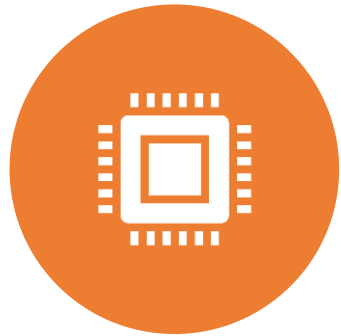
Wellbeing, Happiness & Liveability Index for Smart Cities



Topics Covered:

- About Us
- Global Governance Gaps
- Government Performance Management
- Public Policy Spectrum
- National Wellbeing in Government Policy
- City Liveability Index
- World Happiness Index
- Role of Smart City Consultants
- Solution from Astrikos Consulting





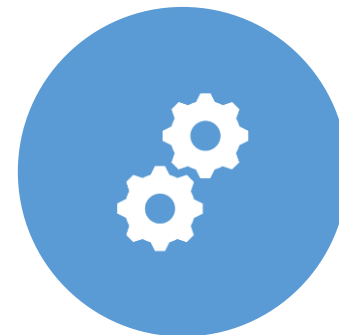
We are into the areas of Technology (ICT/IoT) Consulting, Management Consulting and Technological applicability to Public Policy. Areas of focus are Smart Cities, Smart Infrastructure, Smart Industries and Smart Analytics.



We provide estimation, implementation, deployment and administering of ICT systems and software solutions as per customers requirement.

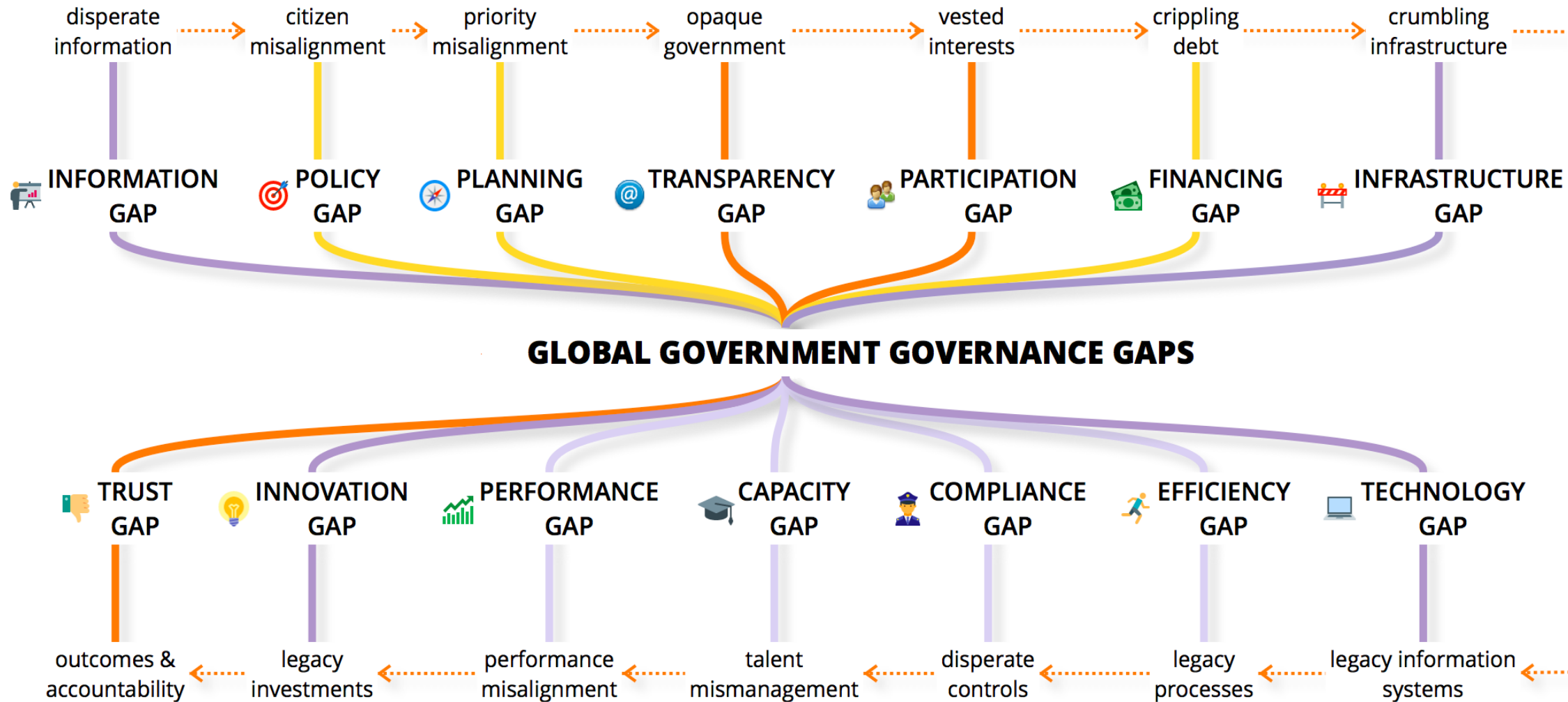


We are a team of experts specializing in research, modelling, conceptualizing solution platform and consulting for Smart Cities, Smart Villages, Smart Utilities and Intelligent Systems. As Technical Consultants Astrikos Consulting focus on advising organizations on how best to use Information and Communication Technology (ICT) in achieving their business objectives.

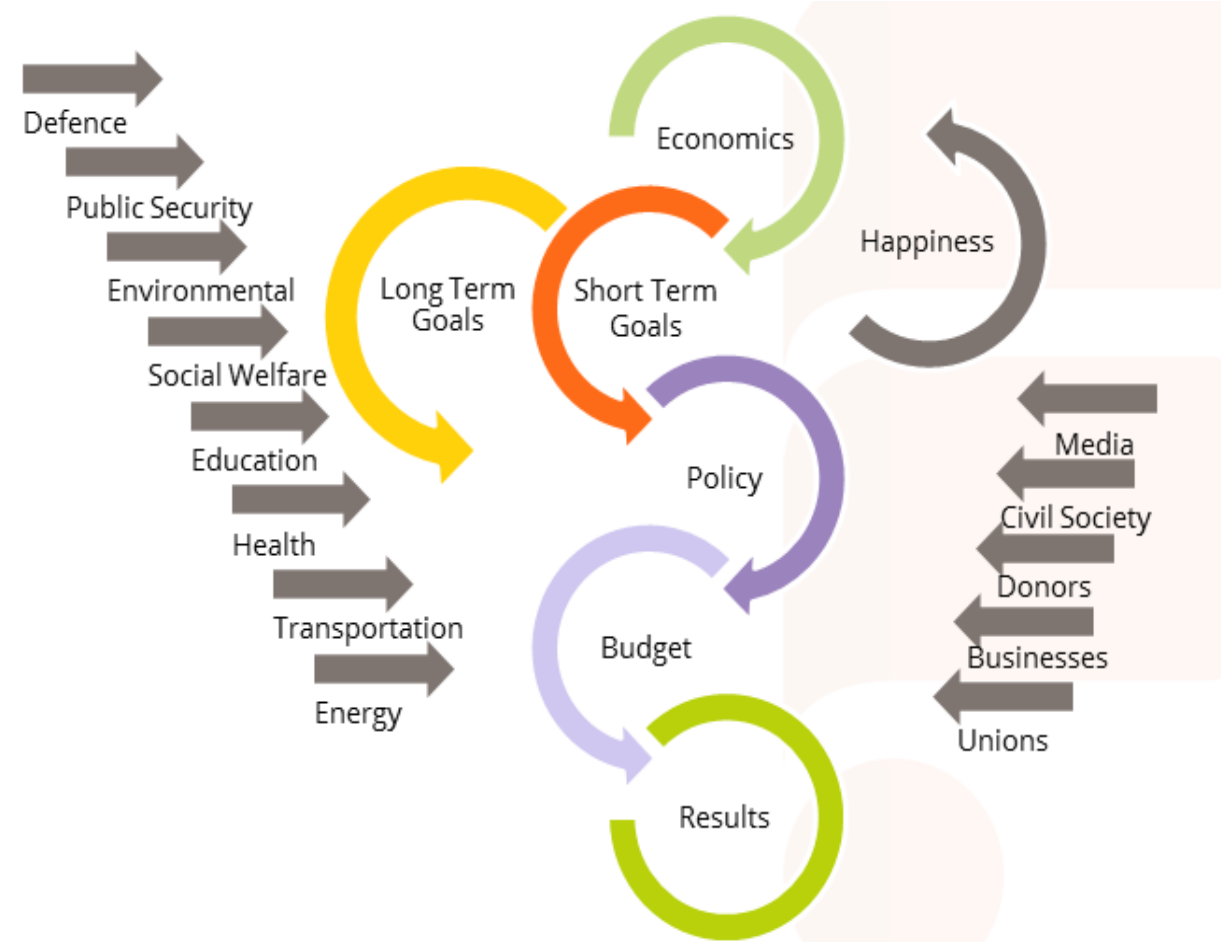
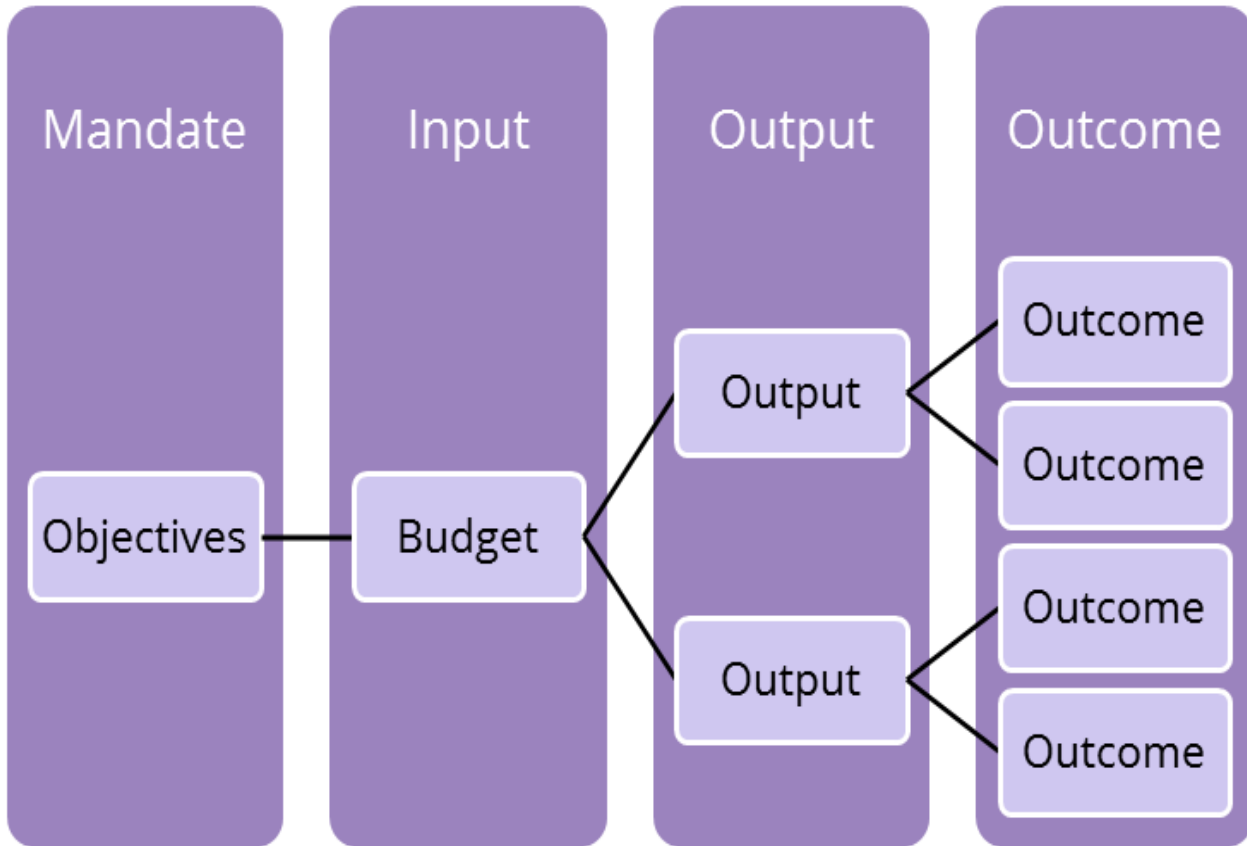


We provide advisory and implementation efforts to industries on migration/ implementation of Industrial Automation and IIoT

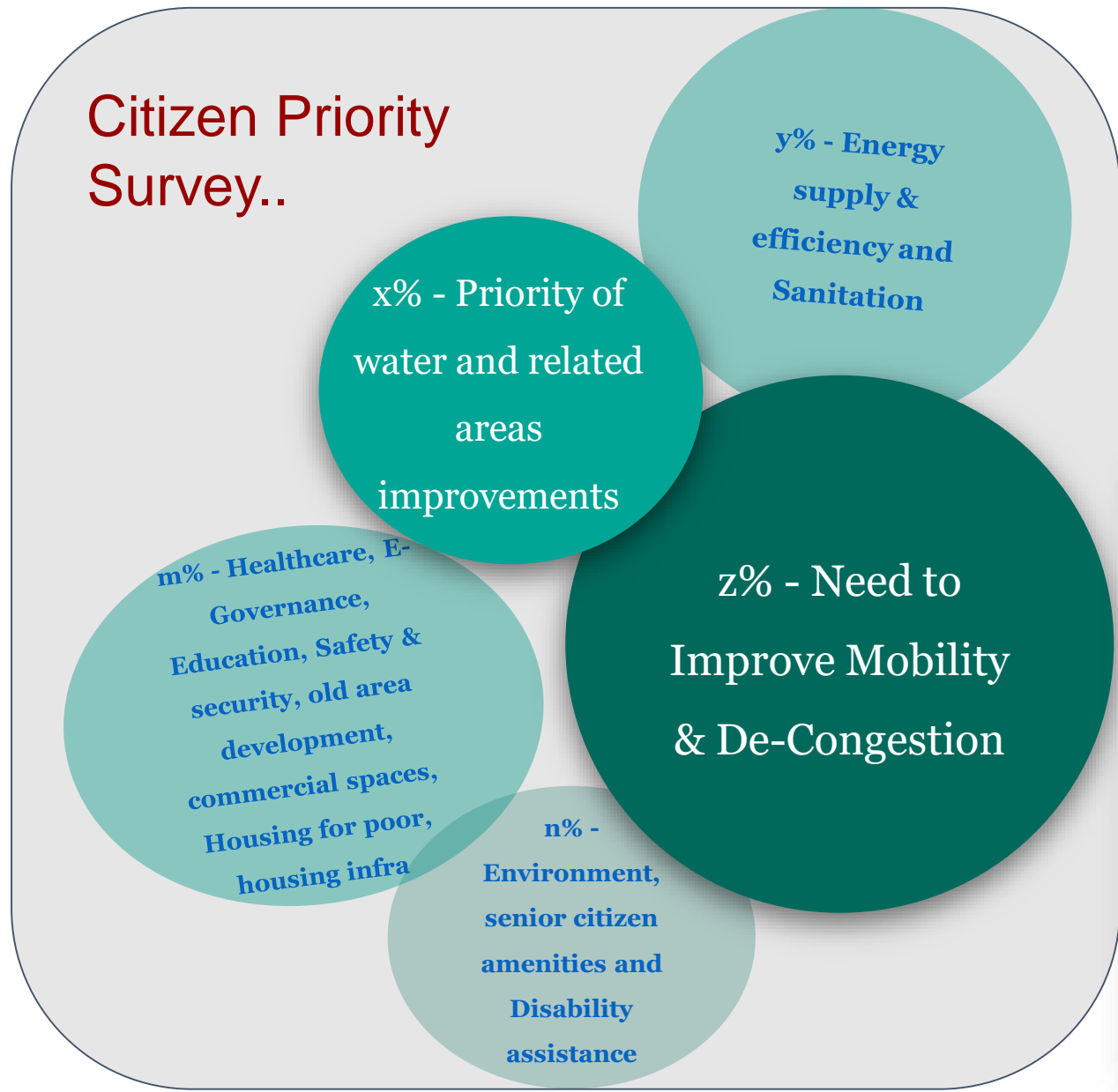
Global Governance Gaps



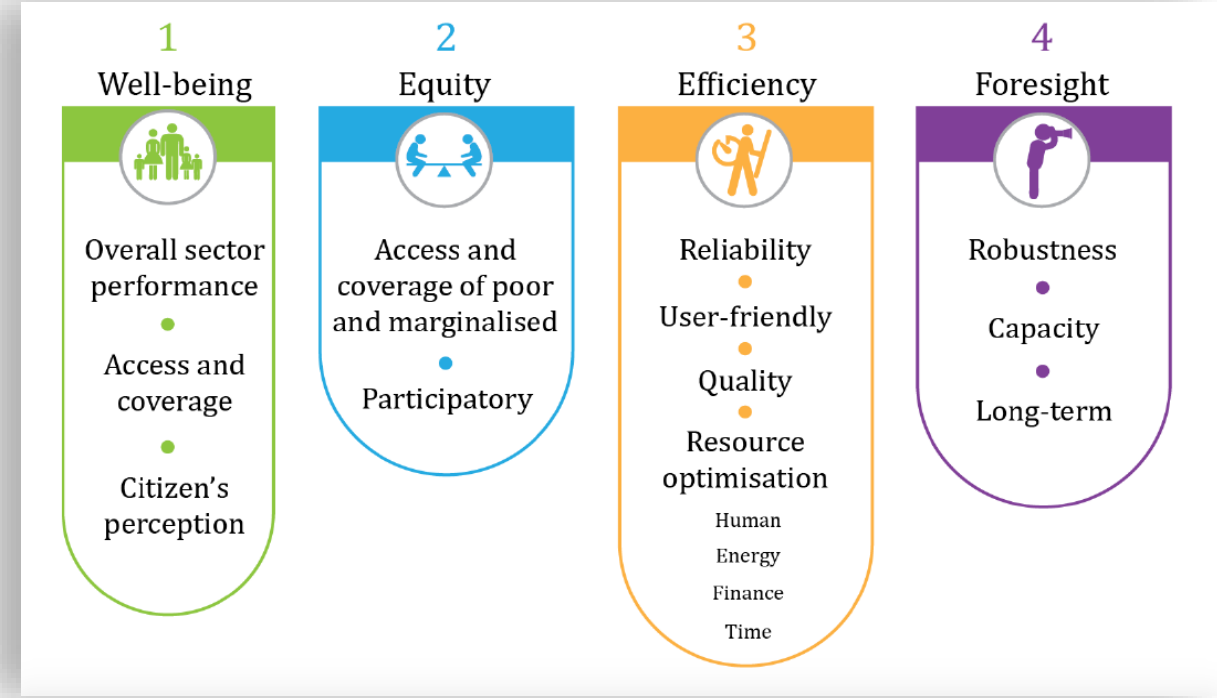
Government Performance Management



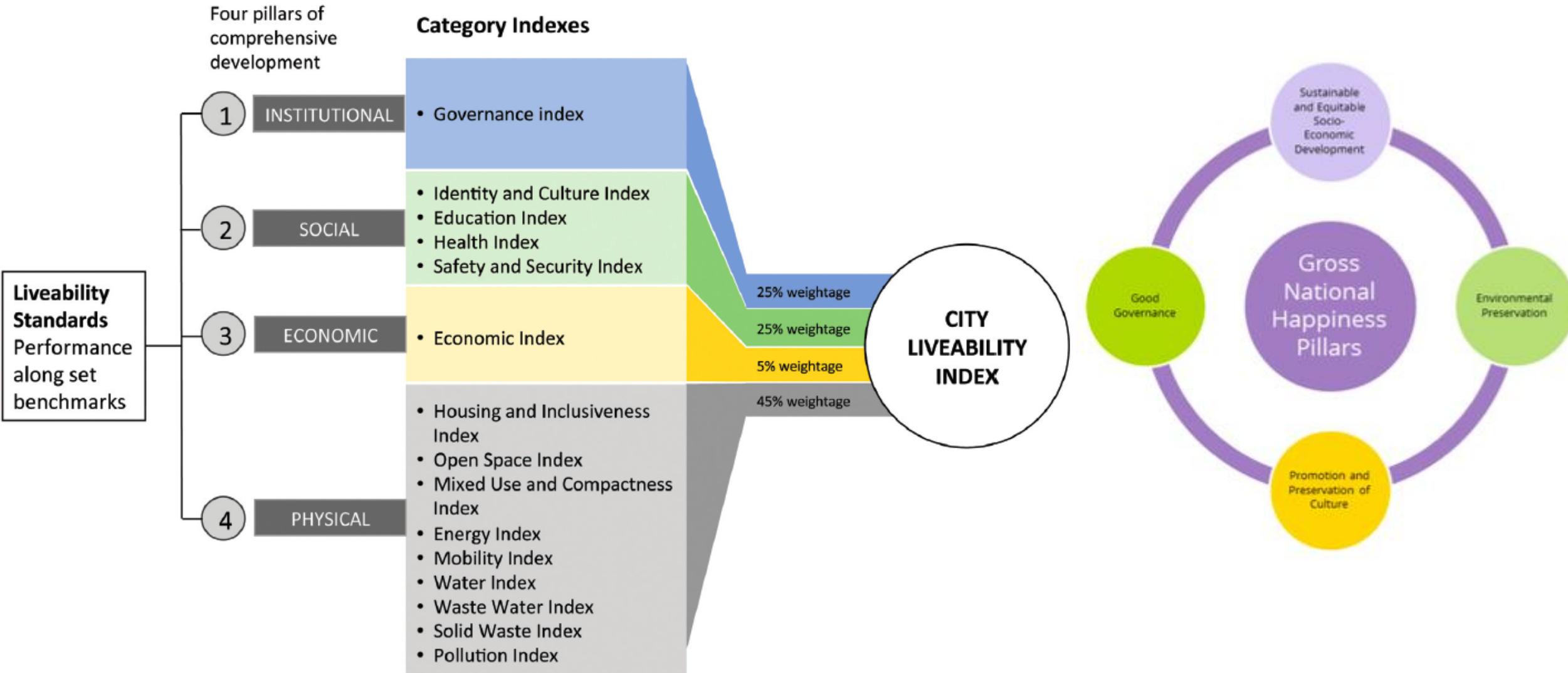
Public Policy Spectrum



MoHUA and NITI Aayog Guiding Principles

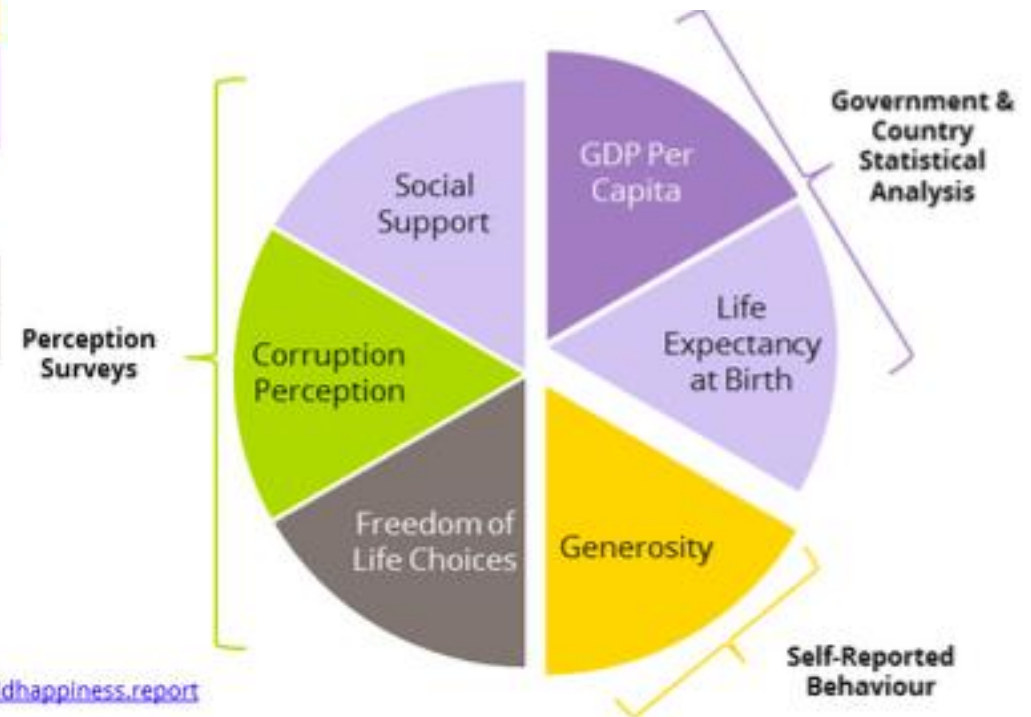


City Liveability Index



The HAPPINESS and WELLBEING BSC for achieving SUSTAINABLE DEVELOPMENT GOALS

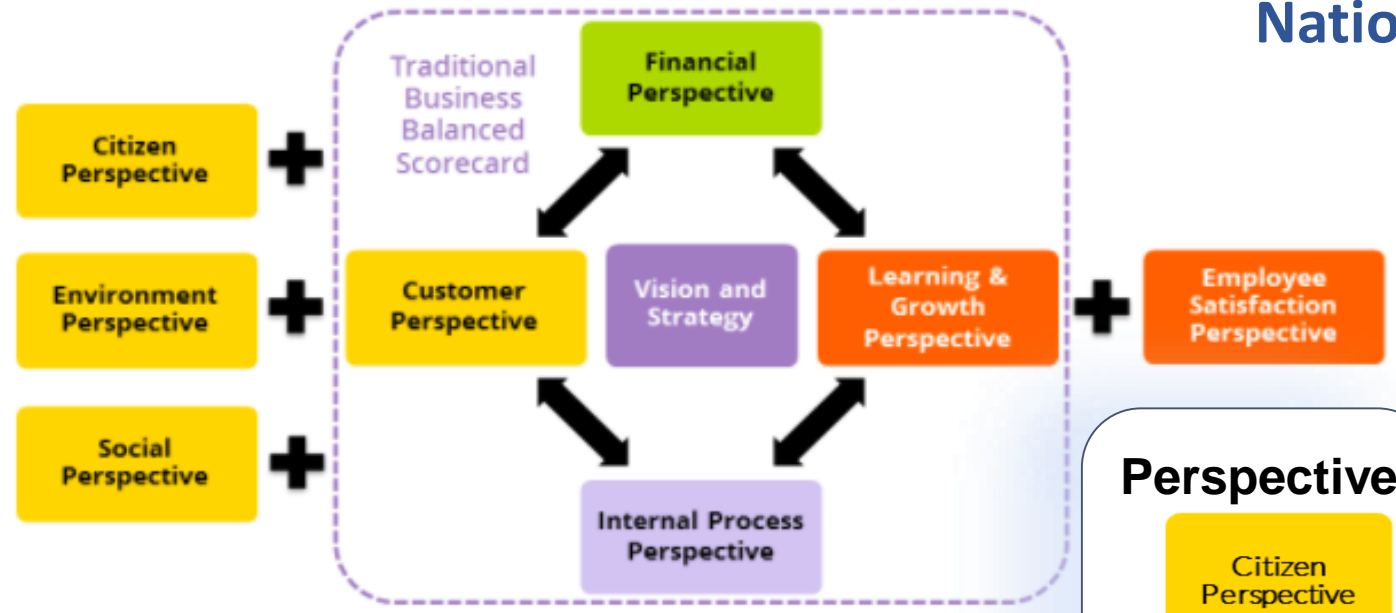
	World Happiness Index	Happy Planet Index	Gross National Happiness	World Happiness Summit
Governance	Corruption Perception	Justice	Good Governance	
Social	Social Support	Health	Sustainable & Equitable Socio-Economic Development	Social
	Life Expectancy			Physical
Cultural	Generosity		Promotion & Preservation of Culture	Community
Economic	GDP Per Capita		Sustainable & Equitable Socio-Economic Development	Financial
Environmental		Ecological Footprint	Environmental Preservation	
Personal	Freedom of Life Choices			Purpose
				Mindfulness



Source: <http://worldhappiness.report>

Integrating Balanced Scorecard with Happiness Index to get City Liveability Index

Balanced Scorecard Framework for Policy Guidelines

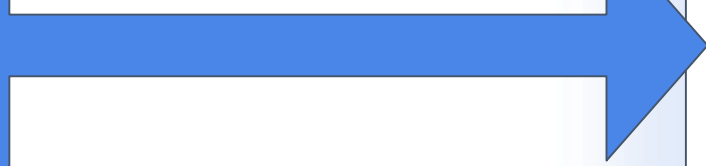


National Wellbeing in Government Policy

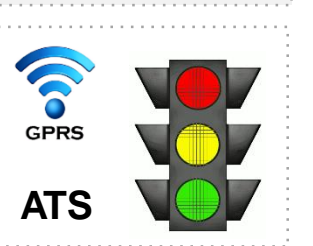
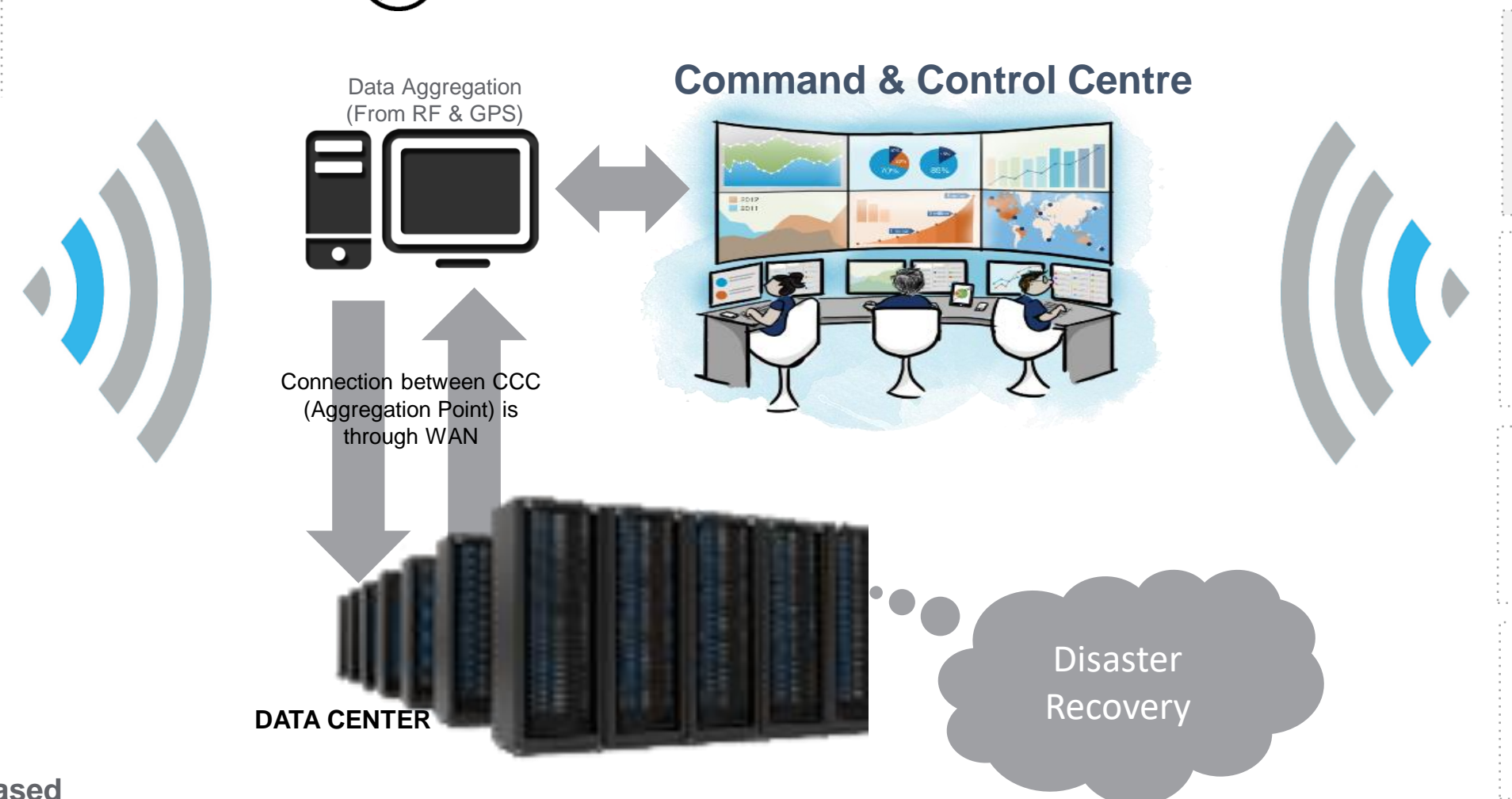
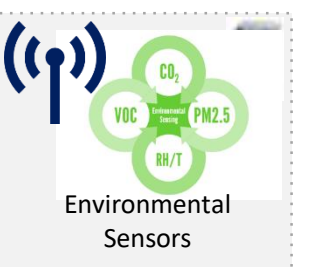
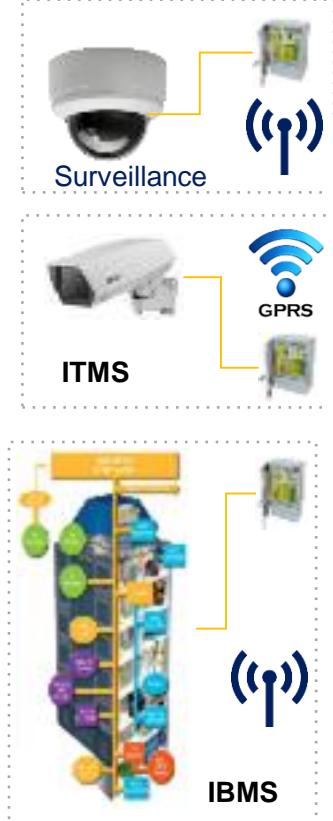
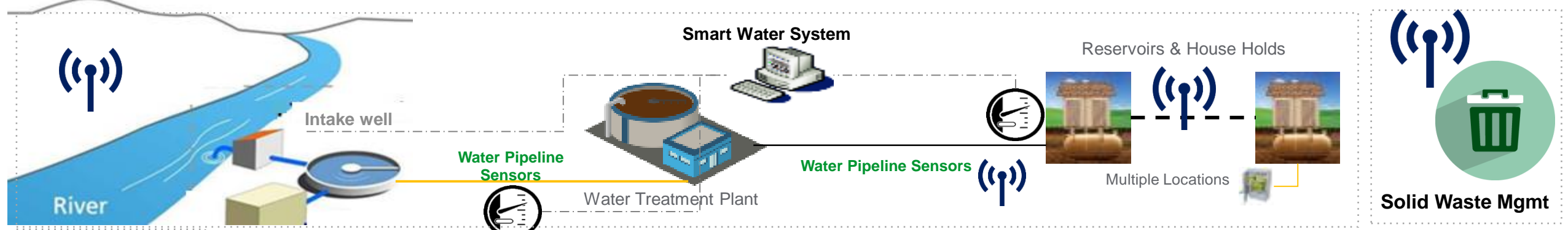
**Analytics & Intelligence
Delivered by the Intelligent
Operations Platform or City's
Digital Services Platform**



Perspectives are Defined by Citizen Engagement Study and Departmental Operational Analysis



Perspective	Tangible Key Performance Indicators & Measures				
Citizen Perspective	Government Transparency & Accountability	Government Service Delivery	Employment	Health & Education	Equity
Internal Process Perspective	Scenario Planning	Automation & Efficiency	Decision Support	Policy Coherence	Program Management
Learning & Growth Perspective	Learning & Promotion Opportunities	Organizational Change Management	Adequate Compensation	Job Satisfaction	Empowerment
Financial Perspective	Budget Credibility	Debt Management	Value for Money	Taxation	Public Investments



MEASURING PERFORMANCE— HOW?

BUILD
(Base Infra)

ENABLE
(ICT)

INTEGRATE
(Create Collaborative Environment)

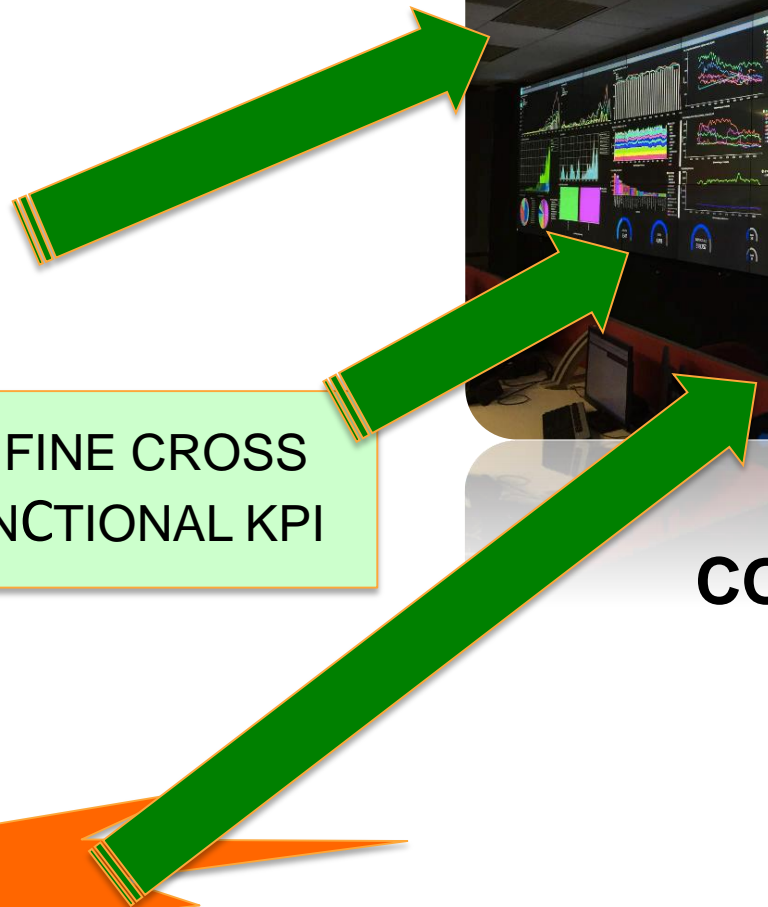
DEFINE CROSS FUNCTIONAL KRA

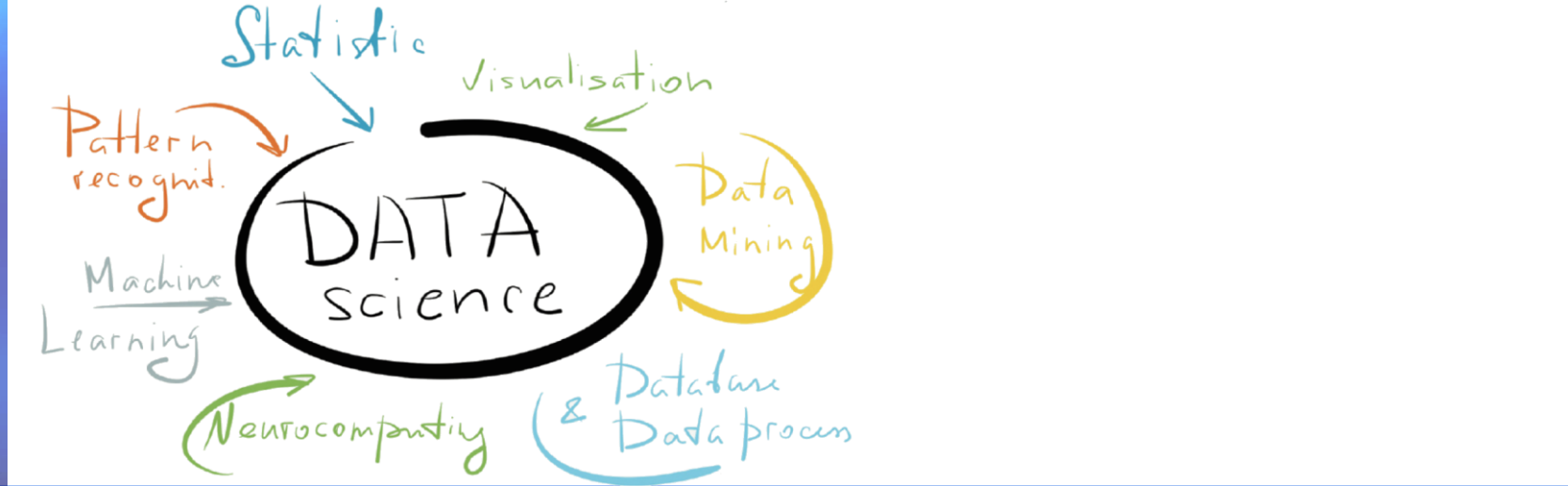
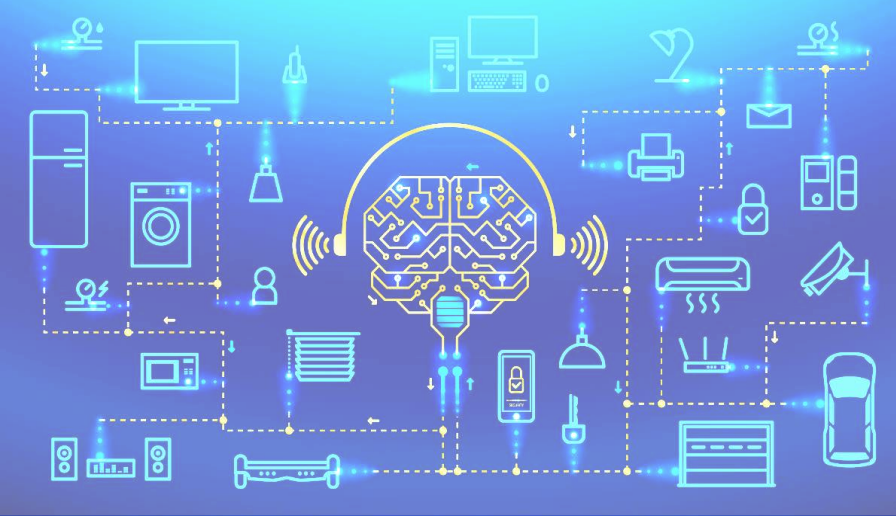
DEFINE CROSS FUNCTIONAL KPI

RESULTS AND LEARNINGS & ACTION



COMMAND AND CONTROL CENTER





Astrikos-SIAP

Smart Interop & Analytics Platform

Applications of Predictive Analytics

WHAT IS ASTRIKOS-SIAP...?



Intelligent platform that gathers and analyses the data collected by various smart/intelligent applications and builds a collaborative analytics and recommends/applies to operationalize it.

SALIENT FEATURES:

- Collaborative Analytics from applications' data - **Big Data Analytics & Intelligence**
- Built-in management of communication with IoT devices and device managers
- Operationalize analysed informational recommendations - **AI, Machine Learning, Deep Learning**
- IoT edge device firmware push and patching
- Collaborative dashboarding and data visualization - **Predictive Analytics Visualization like Liveability Index (as per MoHUA Guidelines) for Smart Cities**

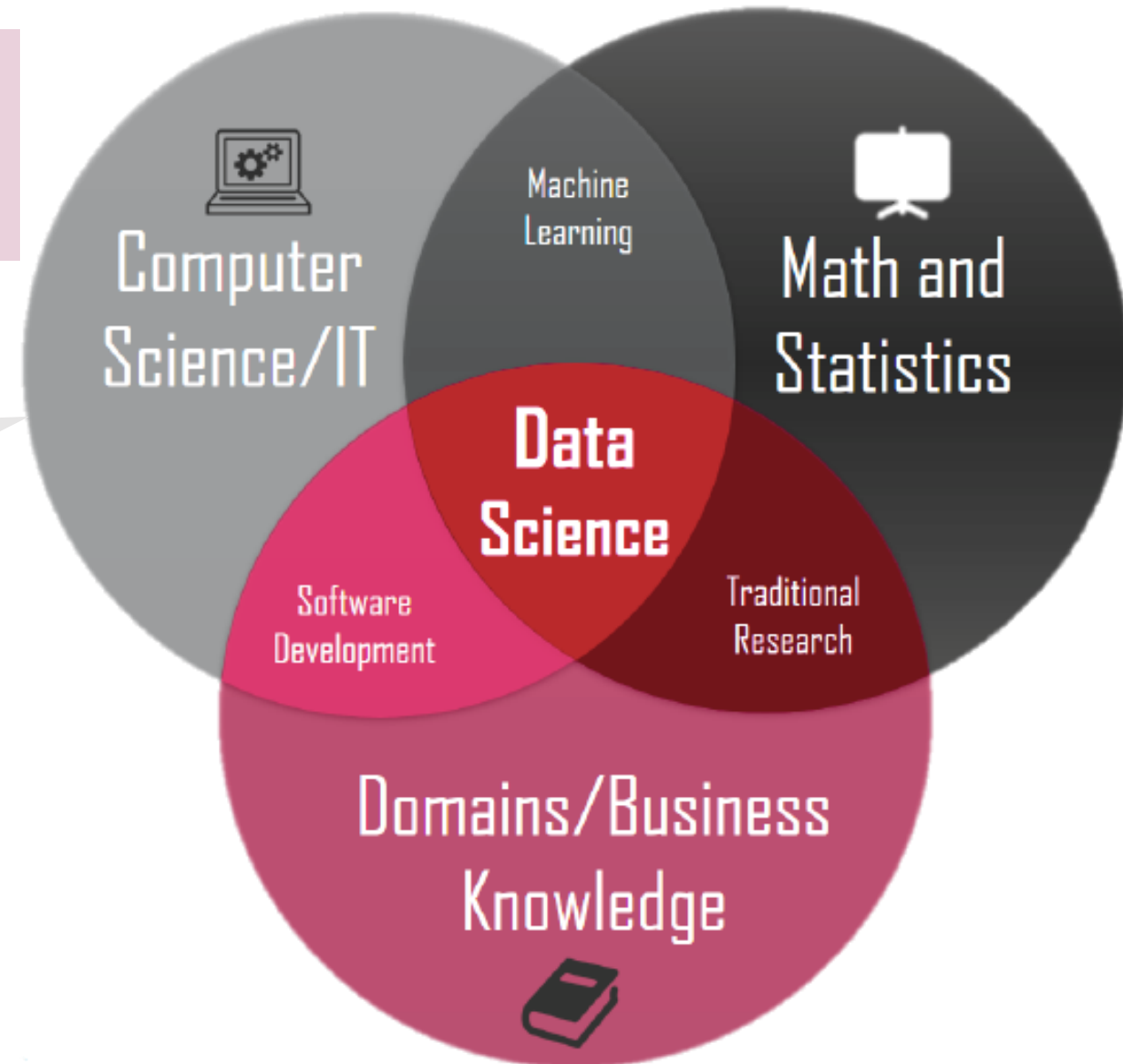


MULTI-DISCIPLINARY APPROACH MODEL

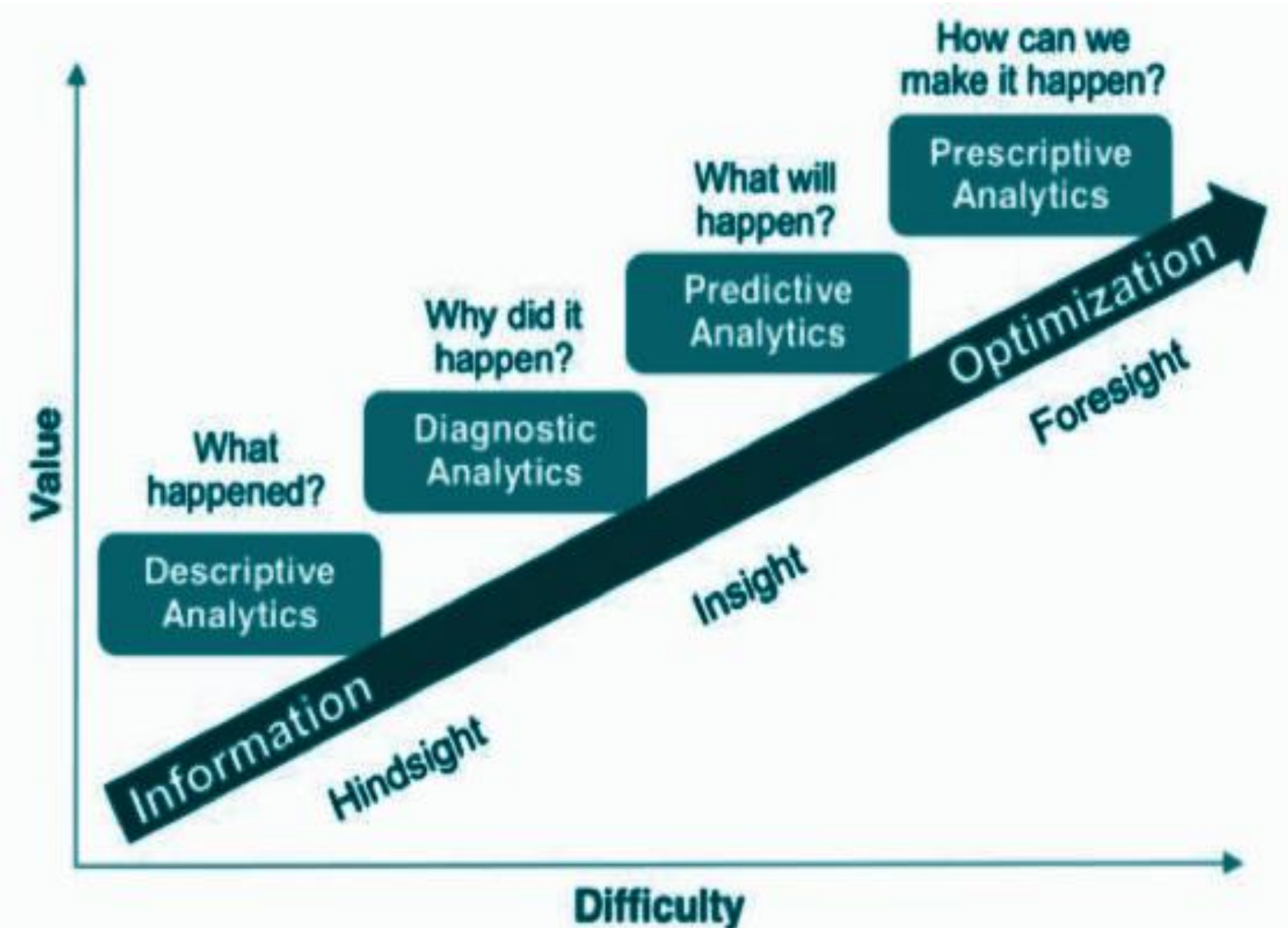
Astrikos SIAP uses *Drew Conway's Venn Diagram* approach effectively for application of data science - widely used across Data Science domain where heterogeneous data is involved.

APPLICATIONS:

- Heterogeneous data analytics : multi-pattern
- Advanced intelligence
- **Op-Intel** : Operational Intelligence
- Dynamic feedback mechanism

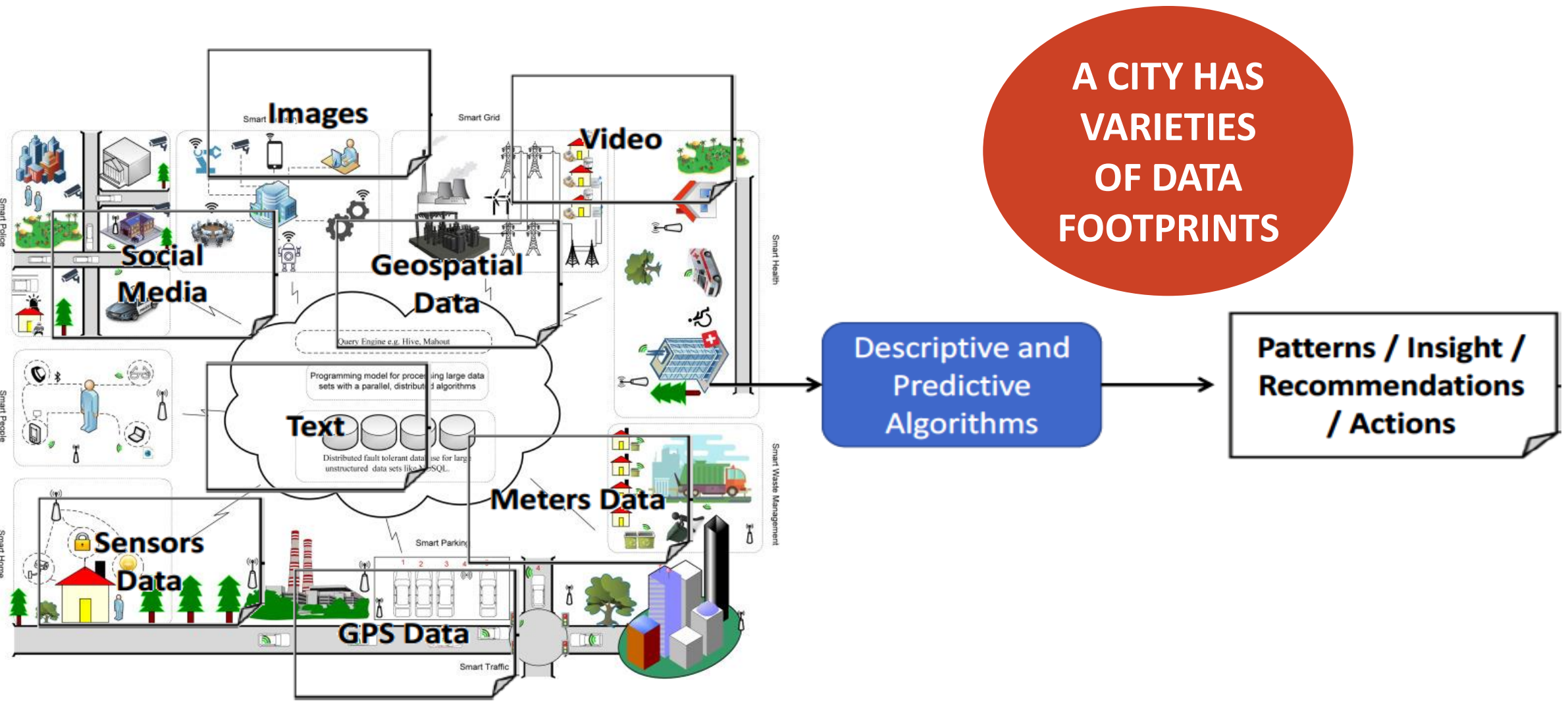


MODELING AND ALGORITHMS



- SIAP leverages based on the pre-defined model of continuous learning
- Quadruplet Approach
 - Historical Data
 - Current Profile
 - Heuristics based Prediction
 - Visualize
- Provides centralized -
Operational Policy Object Recommendations

USE CASE: SLAP IN A SMART CITY



A CITY HAS VARIETIES OF DATA FOOTPRINTS

USE CASE : SLAP PREDICTIVE ANALYTICS IN SMART CITY

Smart Transportation



Better utilization of parking space
Monitoring of parking spaces availability in the city.



Optimize traffic flow using traffic signals, the number of vehicles and pedestrians; Recognize traffic patterns by analysing the data

Reduce road congestions by predicting traffic conditions and adjusting traffic controls, alternative roads or informing commuters

Communicate to drivers using on-vehicle devices to inform them about traffic situation or to take action to alleviate the problem.



Better public transportation planning using the tap-in tap-out data

Traffic accident prediction (crash frequency and crash severity)

Pedestrian behaviour analysis
In different traffic situation, weather, etc. Crossing behaviour



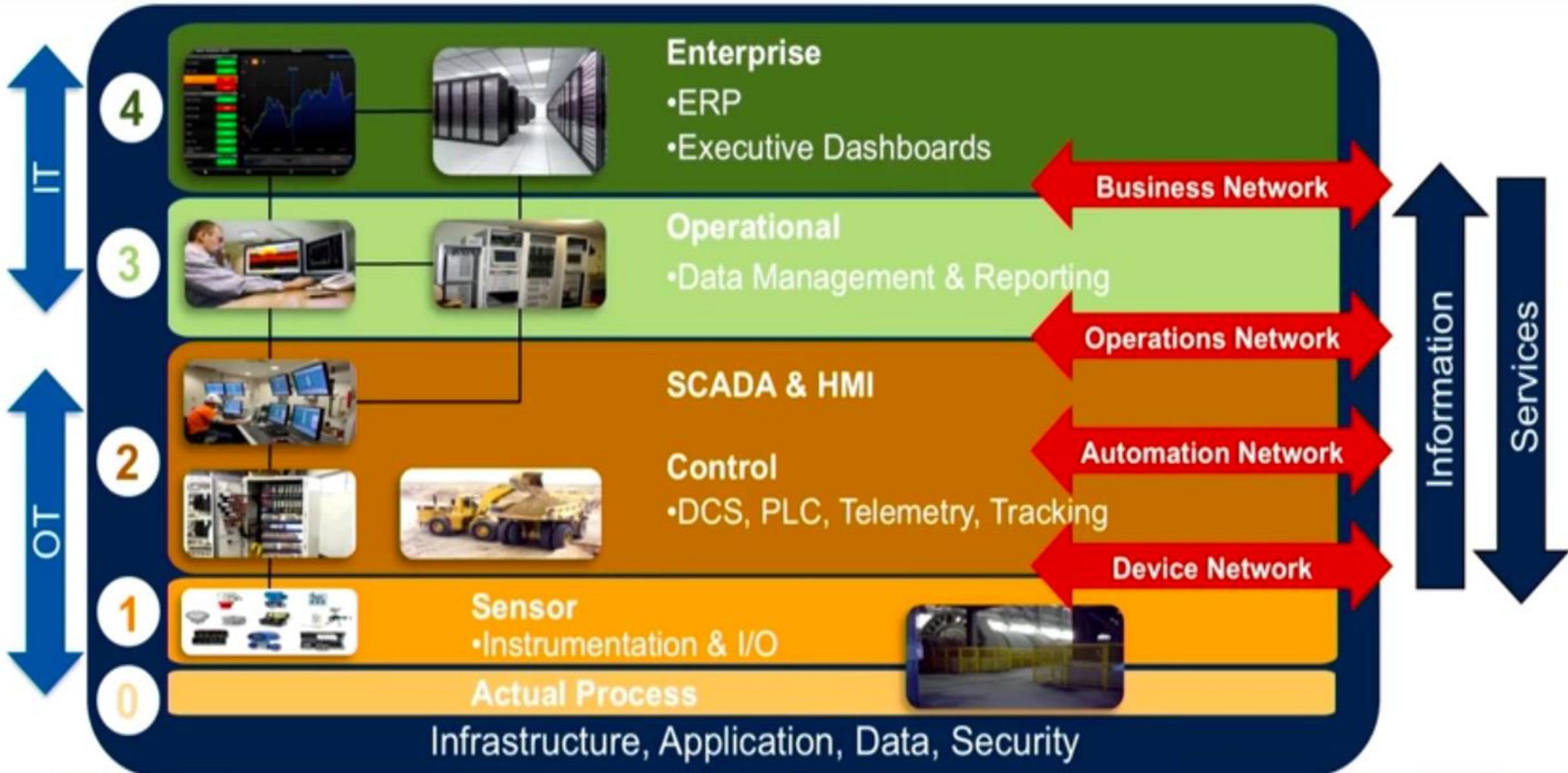
Transport infrastructure maintenance analysis



Travel time prediction using Bluetooth data and information on traffic situation



USE CASE: SIAP IN INDUSTRIES

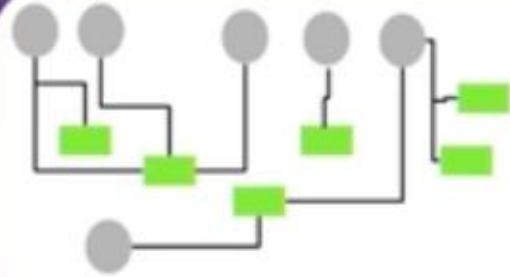


BENEFITS & ADVANTAGES



IT/OT Integration

- Acknowledge Differences
- Leverage Resources, Processes, Technology



Operational Data and Systems

- Eliminate Silos
- Data to Info to Action



Automation and Innovation

- Business Partner
- Promote Best Practices and Standardization



Integrated Operations

- Guidance and Support
- Leverage Data

Align, Champion, Communicate, Coordinate, Operational Excellence



QUESTIONS AND QUERIES...?

Contact: Vinod Krishna

Cell. +91 99860 57935

Email: vkrishna@astrikosconsulting.com/connect@astrikosconsulting.com

www.astrikosconsulting.com

SMEs and Consultants – Smart Cities, Smart Villages, Smart Systems and Cyber Security

THANK YOU !!!