

SMART SUSTAINABLE CITIES

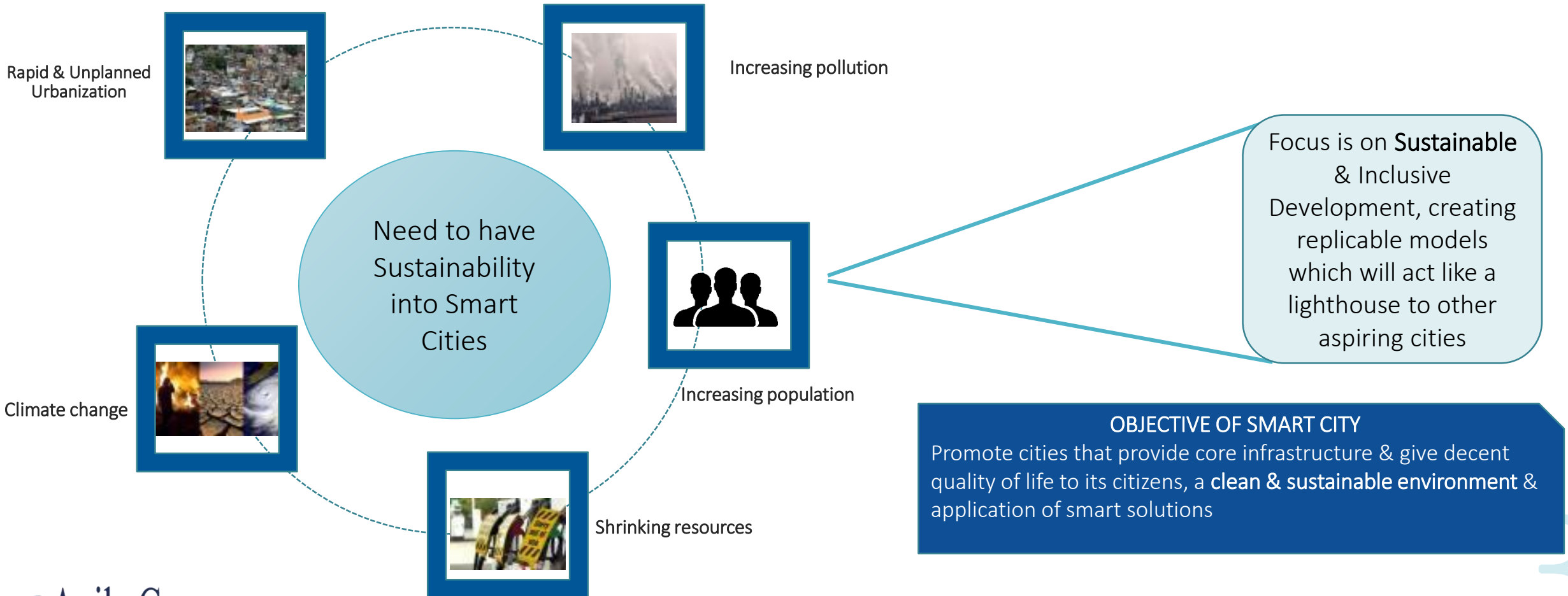
'Innovations, Sustainability Surveillance & Development'



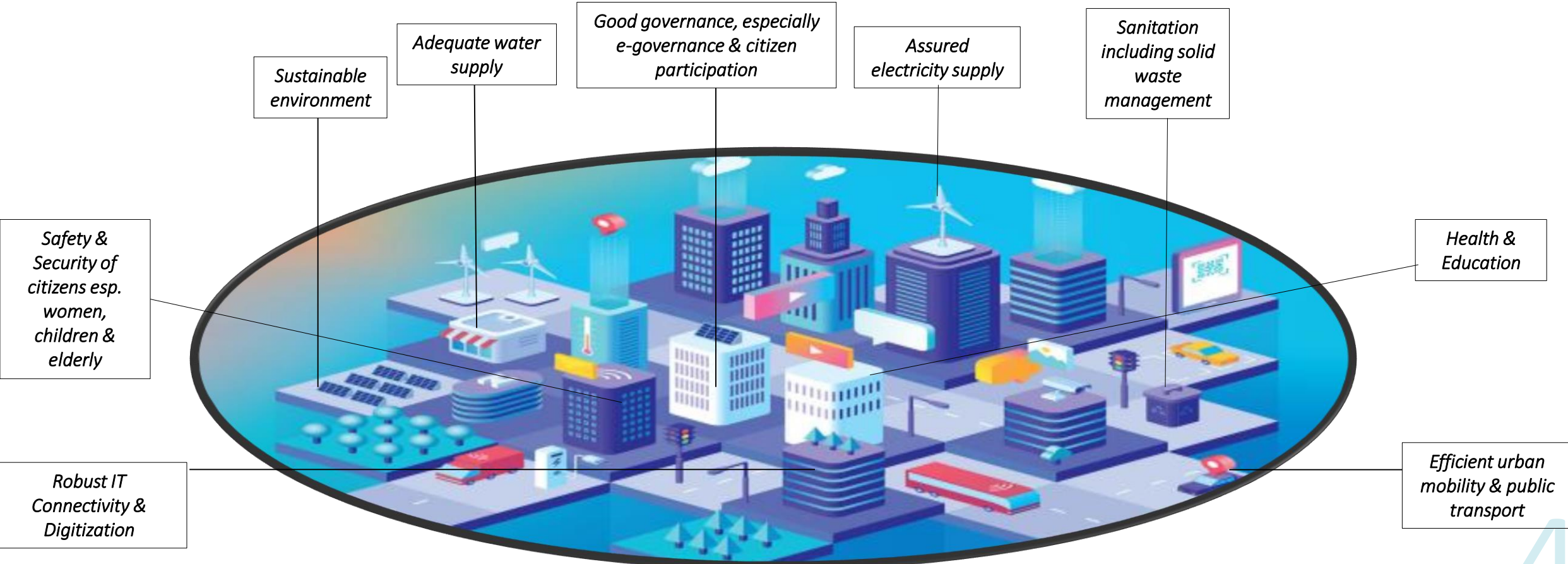
Sustainability and Smart



Smart City - Need & Focus



Sustainability Elements In Smart Cities



Smart Features & Solutions



Robust IT Connectivity & Digitization

Hygiene and Sanitation :
 • Solid waste management
 • Waste water recycling

Sustained water solutions
 • Adequate portable water
 • Storm water re-use
 • Rainwater harvesting
 • Smart Metering

Adequate Clean Power Solutions
 • At least 10% Solar Power
 • At least 80% Energy efficient & Green Buildings

• Pedestrian Friendly Pathways,
 • Intelligent Traffic Management,
 • Non-vehicle streets or zones,
 • Energy efficient street lighting

• Innovative use of open spaces;
 • Visible improvement in area

Sustainable Initiatives By Smart Cities



Rajkot

First smart city in India to achieve IGBC Green Cities Platinum rating for the green initiatives being taken up in design & implementation. It covers efficient land use, water conservation, various infrastructural improvements w.r.t. water supply, energy efficiency, waste management, green cover etc.



Installation of LED Street lights in several Smart Cities



Monitoring of Environmental Parameters in several smart cities. These are implemented through environmental sensors.



The citizens of Surat have covered more than 7lakh Km on Chartered bikes saving almost 1.5 lakh Kgs of CO2 from being released into atmosphere, equivalent to planting almost 25000 trees



Mangaluru

Promoting renewable sources of energy by setting up solar roof top projects on Govt. buildings & cooperatives. Target: 1088kW



Construction of footpaths, easy walkways & footover bridges have been undertaken under NMT to reduce vehicle dependency & pollution in Gujarat, Sikkim, Karnataka etc.



Pune

Pune Metro: Aluminium bodied metro rail coaches that are energy efficient (low carbon footprint), infrared fire detection unit



Coimbatore

Completed Lake rejuvenation

Sustainable Initiatives By Smart Cities

SPECIAL INITIATIVES

Promoting Tourism

- 8 MLD STP are providing treated waste water to Jal Mahal Lake, Jaipur.
- Enhanced water level in lake has augmented Tourism.



Transformation of Areas into Green Spaces

Vehicle dumping yard transformed to a park equipped with restrooms, cafeteria, and parking at Kollam, Kerala.

COMMAND & CONTROL

A Smart City Centre is a platform where information from various urban agencies is collected, analyzed and used for decision making by the agencies involved in the city management and planning.

- Improved quality of services to the citizens
- Safety of citizens
- Making cities more inclusive
- Improved decision making for (local and other levels of) governments
- Improved environmental sustainability and climate change outcomes
- Better public services management



Completed
47 Projects

Progress
33 Projects

SPECIAL INITIATIVES



Reuse of treated Waste-Water

- Two Tertiary-Treatment plants of 45 MLD each based on Reverse Osmosis established at Kodungaiyur & Koyambedu, Tamil Nadu.



Water ATM

Water ATMs dispense drinking water as cheap as Re.1 per litre and facilitate people to get 24x7 clean and safe drinking water.



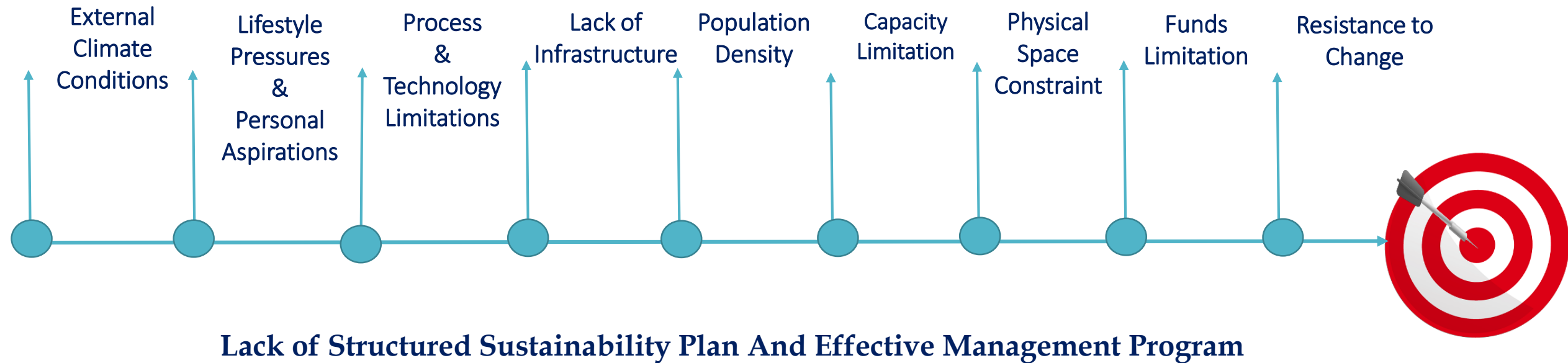
Low Cost Treatment Plant

- Fecal Sludge Treatment Plant is low-cost option for treatment of fecal sludge & septage.
- FSTP projects successfully taken up in Chhattisgarh, J&K, Meghalaya, Mizoram, Odisha and Uttar Pradesh.



30 | 1 YEAR OF TRANSFORMING URBAN LANDSCAPE

Roadblocks to Sustainable Development



Recent Sustainable Launches



C3 (Climate Centre for Cities) launched on 25th June 2020



Cycles 4 Change launched on 10th July 2020

“Climatesmart Cities” Assessment Framework








Assessment titles	CSC Score
Climate Champions	950-1000
Climate Leaders	750-949
Climate Emerging Leaders	450-749
Climate Initiators	250-449
Climate Beginners	0-249

“ClimateSMART Cities Assessment Framework”

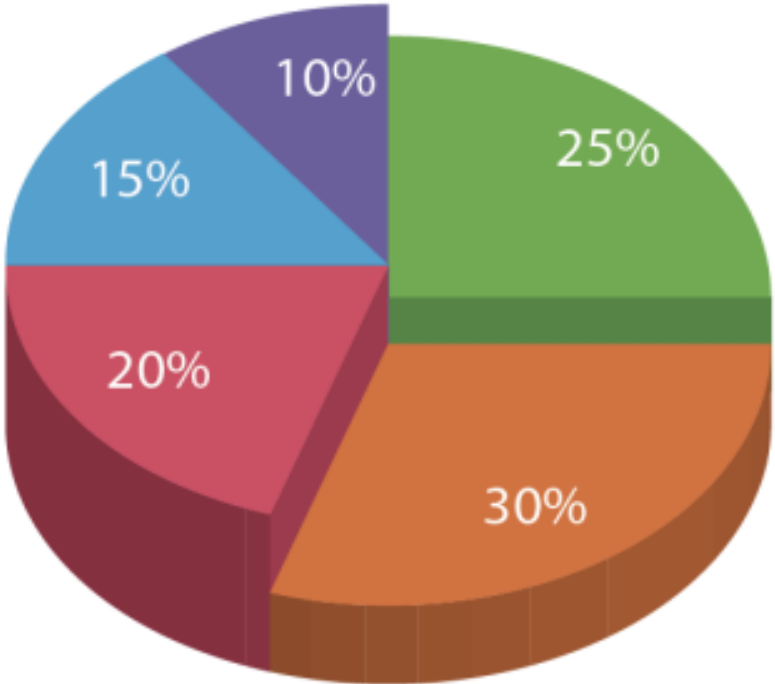
Ministry of Housing and Urban Affairs initiated to:

- Provide a Clear Roadmap for Combating Climate Change
- Incentivize a holistic, climate responsive development in the 100 Smart Cities
- First-of-its-kind public assessment framework on climate-relevant parameters.



 Energy & Green Buildings	 Urban Planning, Green Cover, & Biodiversity	 Mobility and Air Quality	 Water Resource Management	 Waste Management
1. Total electrical energy in city derived from renewable energy sources	1. Climate Action Plan	1. Low Carbon Mobility	1. Water Resources Assessment and Management	1. City demonstrates reduction of solid waste generation in last 5 years
2. Per capita and Per unit area electricity consumption for municipal services	2. Disaster Resilience	2. Low Carbon Shared Vehicles	2. Extent of Non-Revenue Water	2. Extent of recyclables recovered, and Segregated Combustible Fractions (SCF) / Refused Derived Fuel (RDF) Utilised
3. Per capita fossil fuel (Diesel, Petrol, CNG, LPG) consumption for municipal services*	3. Rejuvenation and Conservation of Urban Environment (water bodies, open spaces and built-up area)	3. Availability of Public Transport	3. Flood risk assessment and management	3. Recycled Aggregates (RA) and Recycled Concrete Aggregates (RCA) derived from City Construction and Demolition (C&D) waste are utilised.
4. Energy efficient street lighting in the city	4. Proportion of Green Cover	4. Percentage of coverage of Non-Motorized Transport network (pedestrian and bicycle) in the city	4. Wastewater Recycle and Reuse	4. Greenhouse Gases (GHGs) emission reduced due to improved Municipal Waste processing and treatment facilities
5. Level of compliance, implementation procedures and stakeholder co-operation in place for green buildings	5. Proportion of Native Tree Species	5. Clean Air Action Plan (Pollutants Monitoring, Planning and Implementation)	5. Energy-efficient wastewater management system in the city	5. Scientific Landfill is available with city as per SWM Rules, 2016
6. Percentage of buildings securing green building pre-certification and final certification up to minimum level	6. Urban Biodiversity	6. Level of Air Pollution	6. Energy-efficient water supply system in the city	6. Plan prepared and implemented for scientific landfill/dumpsite closure considering GHG emissions

Sector-wise Weightage



- 25% Urban Planning, Green cover & Biodiversity
- 30% Energy & Green Building
- 20% Mobility & Air Quality
- 15% Water Resource Management
- 10% Waste Management



Agile Sustainable Smart Cities

Baselining – Undertake a Baseline Assessment and Identify Operational sustainable initiatives

Awareness Enhancement – Establish & Enhance competence of the Core team

Document Framework - Facilitation development of Sustainability framework for the smart city aligned with smart City mission and SCPs

Deployment Facilitation – Facilitate execution of the identified sustainability initiatives

Review and Verification – To ensure effective deployment of the established plans, periodic reviews and verification shall be undertaken

Assessment – Undertake Assessment to the Climate Smart Cities Assessment Framework 2.0



AGILE GROUP



Customized Business Solutions

Business Results Redefined

About AGILE GROUP

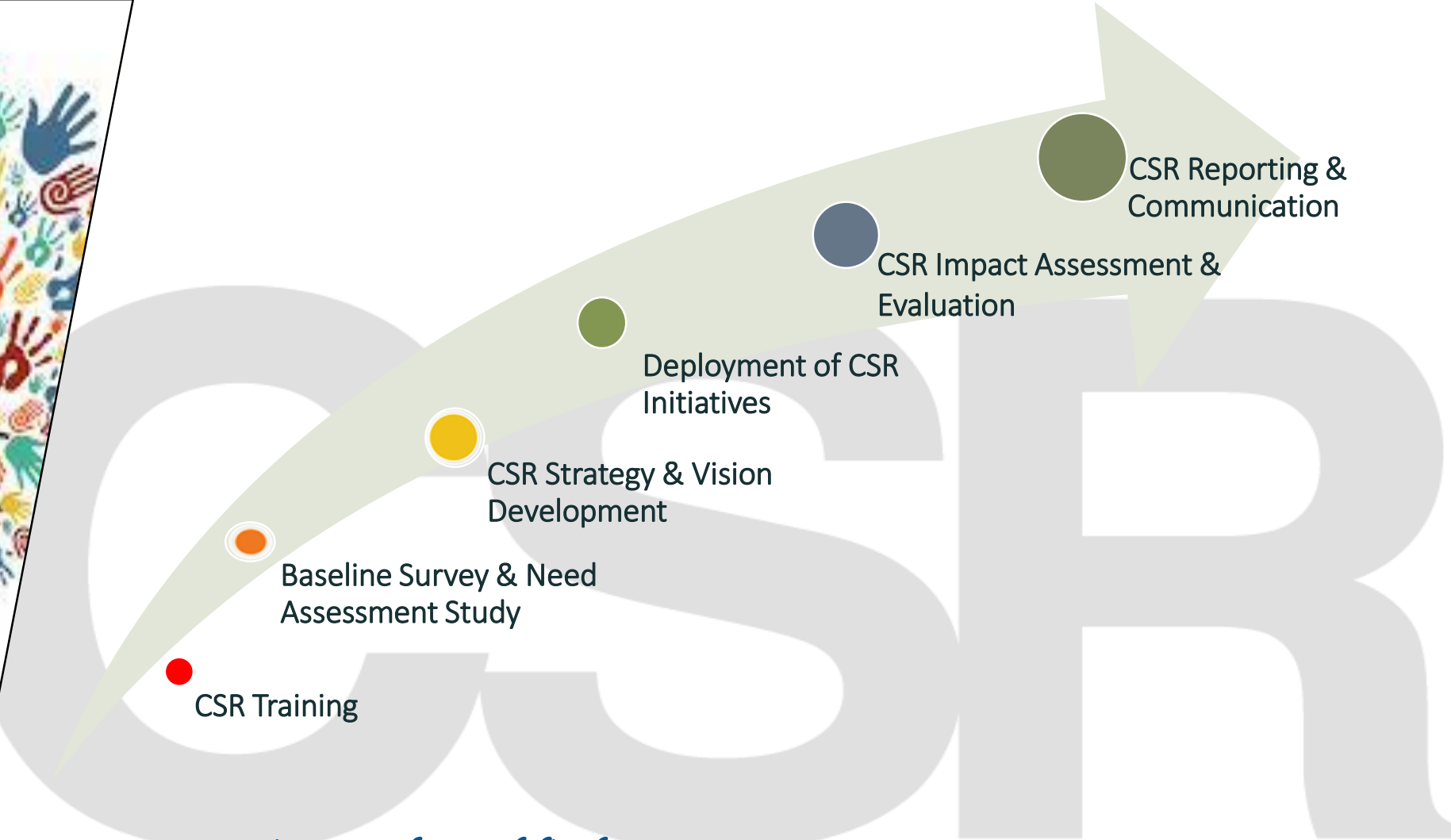
- ❖ Established in 2008, Agile Group comprises several complementary business lines, each one intensely focused on serving the needs of its target clients with technology-based expert knowledge services while leveraging the overall resources of the group; operational excellence - global infrastructure - capital.
- ❖ Agile Group offers Advisory, Training and Assessment services to organizations seeking higher operational effectiveness, greater flexibility and lower operating costs to gain a competitive advantage.
- ❖ Our Consultants and Auditors are mainly Post-Graduates from premier institutions with excellent blend of academic records and corporate experience.
- ❖ We nurture fresh talent and provide Research Opportunities to the meritorious students from premier academic institutions. A few of our joint research activities have found successful acceptance in the industry and have been published by leading international publishers. Agile Group has to its credit, publishing the first book on “Determination and Evaluation of Carbon Foot Print for the IT Industry”.

AGILE's Leading Services



S TRATEGIC
UPPORT

CSR Services



CSR Training

Baseline Survey & Need Assessment Study

CSR Strategy & Vision Development

Deployment of CSR Initiatives

CSR Impact Assessment & Evaluation

CSR Reporting & Communication

Sustainability & Smart Cities



SUSTAINABILITY ADVISORY & REPORTING

SMART CITIES COMPLIANCE ADVISORY

SMART CITIES ASSESSMENT AND REPORTING

2nd PARTY SUSTAINABILITY AUDIT

BUSINESS RESPONSIBILITY REPORTING

PRODUCTS LIFE CYCLE ASSESSMENT

ENERGY AUDITS & REPORTING



Climate Change and Water Security



Information Security & IT Services



Agile Management System Deployment Services



Agile Provides Training, Advisory and Auditing Services for Deployment of:

- Quality Management System ISO 9001:2015
- Environment Management System ISO 14001:2015
- Occupational Health and Safety Management System 18001:2007
- Information Security Management System ISO 27001:2013
- Business Continuity Management System ISO 22313:2012
- Energy Management System ISO 50001:2011
- Enterprise Risk Management System ISO 31000:2009
- Food Safety Management System ISO 22000:2005
- Responsible Care Management System (Chemical Industry)
- National Building Code Assessment

Agile Risk And Compliance Management Services



AGILE Values



A TRUSTED PARTNER



CUSTOMER CENTRIC



AGILE & RESPONSIVE



CONFIDENTIALITY & INTEGRITY



KAIZEN LEARNING



PASSION & EXCELLENCE

Why AGILE?

*Collaborative
experience of
more than
100 years*

*Certified
Lead
Auditors*

*Our Consultants
have been
Member to
Standard
Development and
Review
Committees*

*99% of CDP
Reporting
Accuracy*

*Valuable
relationship
with clients*

*Global
Recognition*



Benefits Of Associating With AGILE

- ❖ Attract Capital/ Investors
- ❖ Enhance market reputation
- ❖ Stakeholders trust
- ❖ Employee Motivation



- ❖ Improved Operational and Financial Efficiency



- ❖ Sustainable Vision and Strategy
- ❖ Compliant Organization
- ❖ Established Management System



Our Differentiators



Partnership Approach
We drive our success from the success of the clients

Our Motto
Be Swift and Responsive to the Changing Needs and Requirements of our customer

Dedicated Client Management & Customized
consulting solution to ensure 100% coverage of requirements.

Global Best Practices
International experience and exposure of our Consultants help share Global Best Practices

Speed and Accuracy
We work round the clock to provide on time service delivery with its perfection, exactness and validity intact.

Ongoing learning
Knowledge being the key differentiator, we ensure to update our professionals with the best knowledge of the industry

Our Proprietary Tools
Information Risk Assessment, Carbon Foot Print Calculator and Fire Risk Compliance Assessment Toolkit are most trusted

Let's Aim Sustainable Smart-cities...



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8