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United Nations Office for Sustainable Development

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India: Smart Cities Mission, Present Status, Outlook

(Presentation for EST Plenary Session 5 of the Provisional Programme)

Final Draft

This presentation has been prepared by Mr. Mukund Kumar Sinha, Ministry of Urban Development, India for the Tenth Regional EST Forum in Asia. The views expressed herein are those of the author only and do not necessarily reflect the views of the United Nations.

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India: Smart Cities Mission

Present Status, Outlook



Smart City
MISSION
WISDOM ACTION

March 2017

India Smart Cities Mission – Guiding Principles

Integrated Urban Development driven by **Citizens' Expectations & Private Participation**

Competition for Cities Selection...A Bottom-Up Model!

Practical Objectives –

- Focus on Core infrastructure and **Quality of life**
- Commitment to **Environment Sustainability**
- **Technology** to enhance efficiency of services delivery

Smart Elements -

- **Core Infrastructure** (Electricity, Water, Waste, Solar)
- **Smart solutions** (Smart Metering, Smart Traffic)
- **Area based approach** (compact area to entire city)



Smart Solutions

ILLUSTRATIVE LIST

E-Governance and Citizen Services

- 1 Public Information, Grievance Redressal
- 2 Electronic Service Delivery
- 3 Citizen Engagement
- 4 Citizens - City's Eyes and Ears
- 5 Video Crime Monitoring

Waste Management

- 6 Waste to Energy & fuel
- 7 Waste to Compost
- 8 Every Drop to be Treated
- 9 Treatment of C&D Waste

Water Management

- 10 Smart meters & management
- 11 Leakage Identification, Preventive Maint.
- 12 Water Quality Monitoring

Energy Management

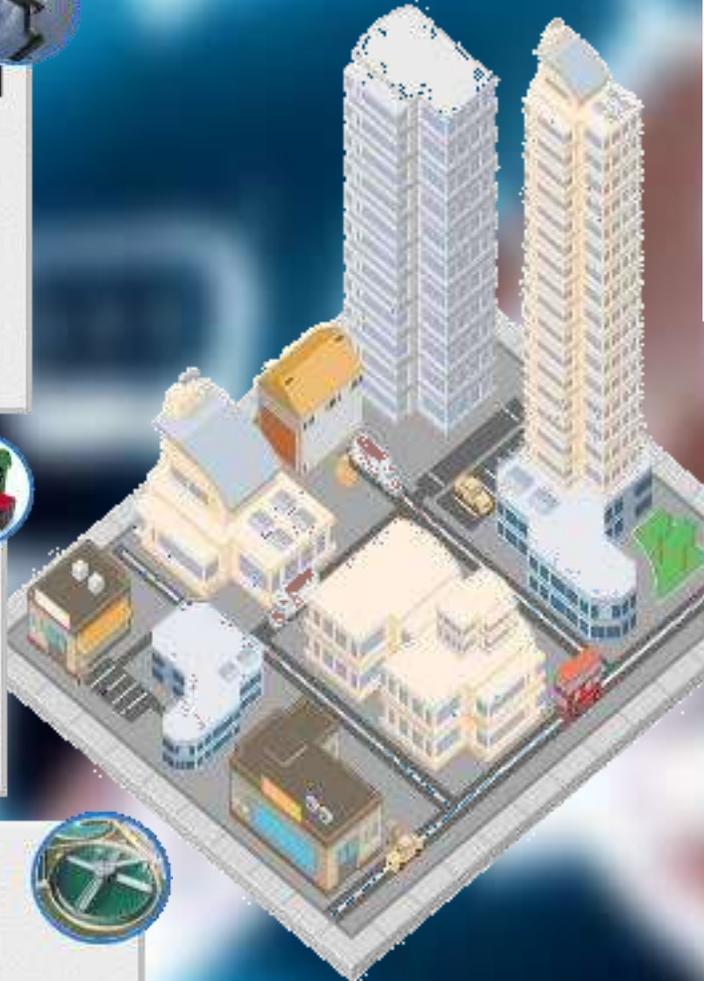
- 13 Smart Meters & Management
- 14 Renewable Sources of Energy
- 15 Energy Efficient & Green Buildings

Urban Mobility

- 16 Smart Parking
- 17 Intelligent Traffic Management
- 18 Integrated Multi-Modal Transport

Others

- 19 Tele-Medicine
- 20 Incubation/Trade Facilitation Centers
- 21 Skill Development Centers



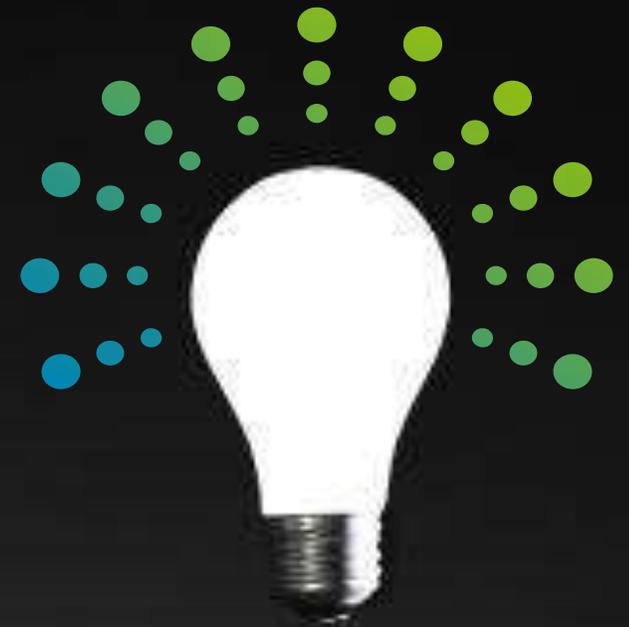
60 Lighthouse Cities Selected!



Bhubaneswar	Pune	Jaipur	Surat	Kochi	Vellore	Tumakuru
Ahmedabad	Jabalpur	Vizag	Solapur	Davangere	Thane	Kota
Indore	New Delhi (NDMC)	Coimbatore	Kakinada	Belgaum	Gwalior	Thanjavur
Udaipur	Guwahati	Chennai	Ludhiana	Bhopal	Agra	Namchi
Lucknow	Warangal	Dharamshala	Chandigarh	Raipur	Nashik	Jalandhar
Newtown Kolkata	Bhagalpur	Panaji	Port Blair	Imphal	Rourkela	Shivamogga
Ranchi	Agartala	Faridabad	Amritsar	Aurangabad	Kanpur	Salem
Kalyan-Dombivali	Ujjai	Tirupati	Nagpur	Mangaluru	Madurai	Ajmer
	Varanasi	Kohima	Hubbali-Dharwad	Vadodara		

Several 'Firsts'

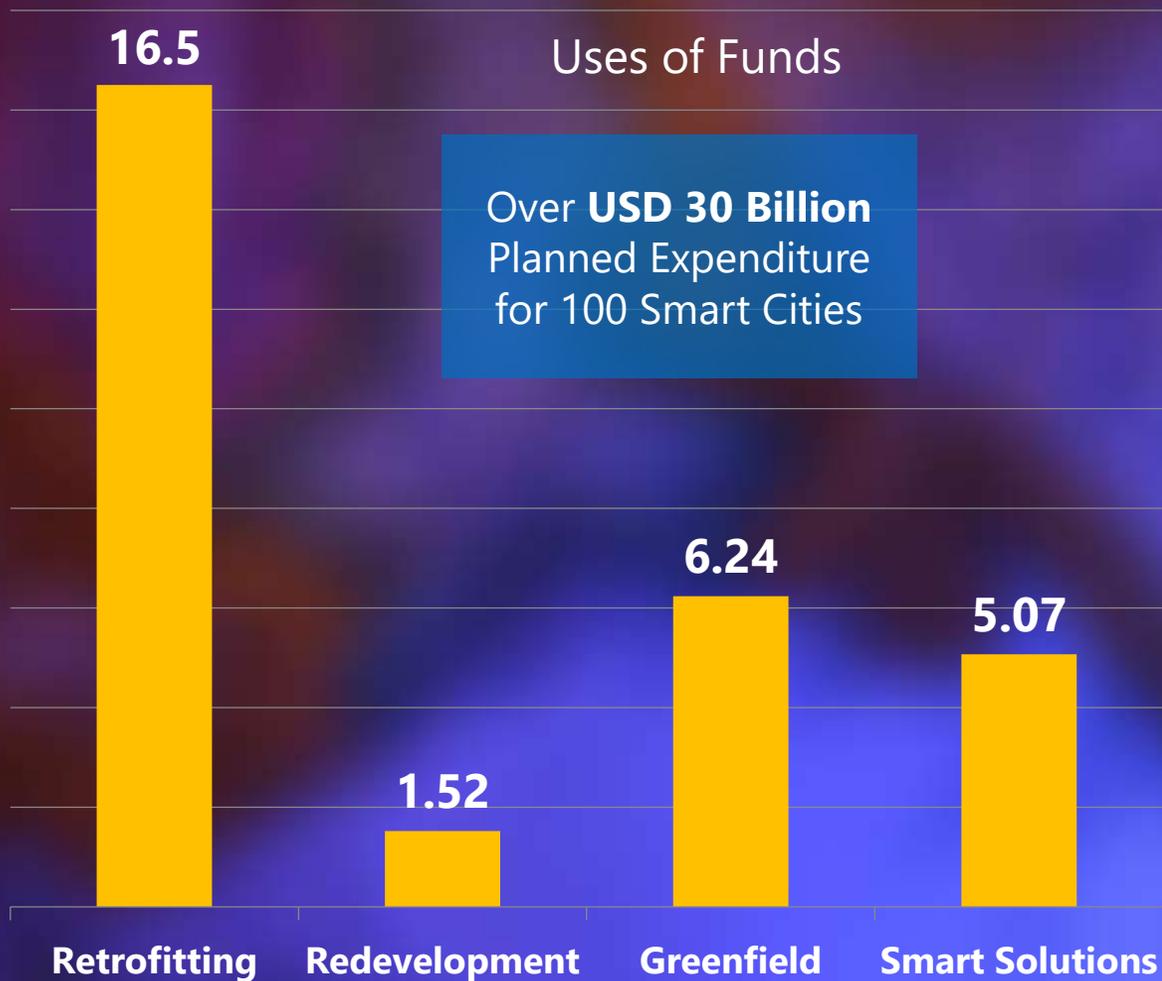
- **Integrated area development** in the cities through convergence and qualitative improvements.
- Extensive **citizen consultations** to align the development agenda of the cities with people priorities and needs.
- Over **2.5 million people** participated in contests, discussions, polls, blogs and talks on **MyGov** platform.
- '**Cities Decide**' their own Smart Journey.
- From 'Project' based to '**Area** based approach
- Allocation of funds in a Government scheme on the basis of **competitive selection**, resulting in the spirit of cooperative and competitive federalism.



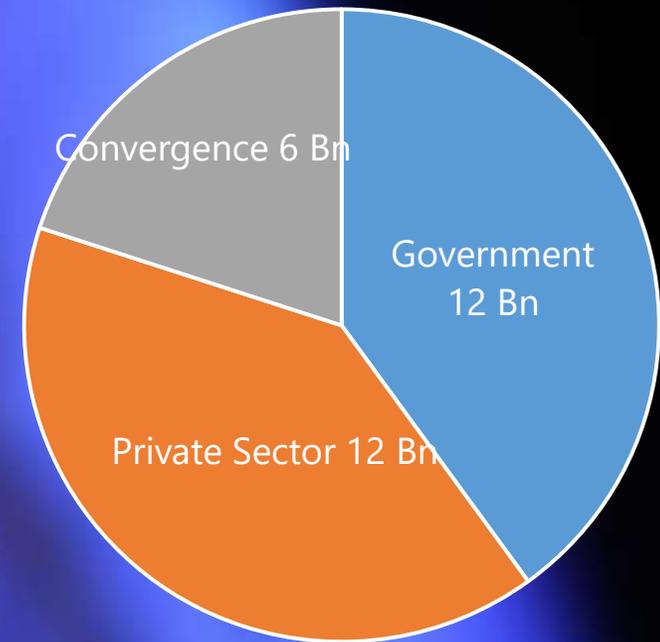
A close-up photograph of two hands, one from the top and one from the bottom, with their index and thumb fingers extended to form a square frame. The text "Financing Smart Cities" is centered within this frame. The background is a plain, light color.

Financing Smart Cities

Financial Landscape for 100 Smart Cities

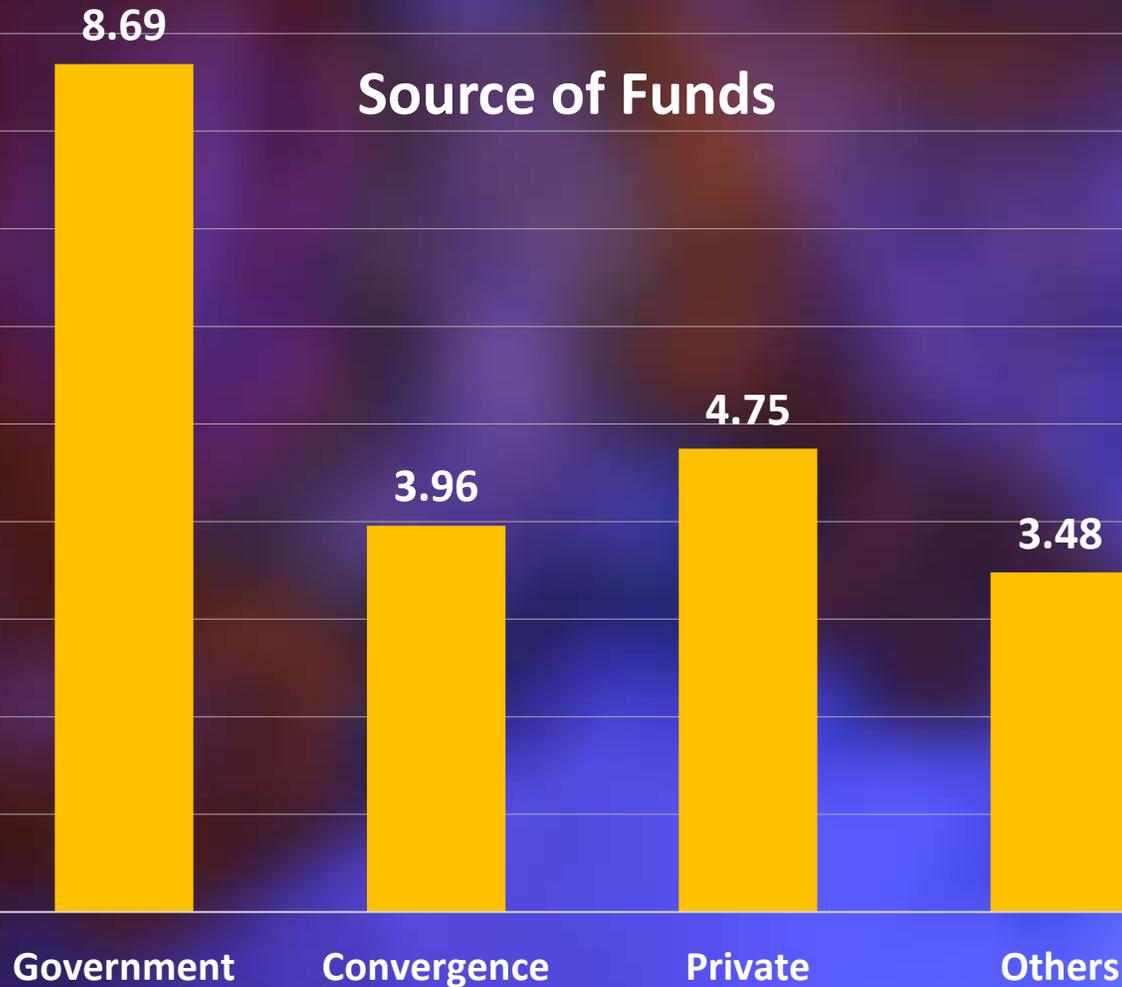


Sources of Funds



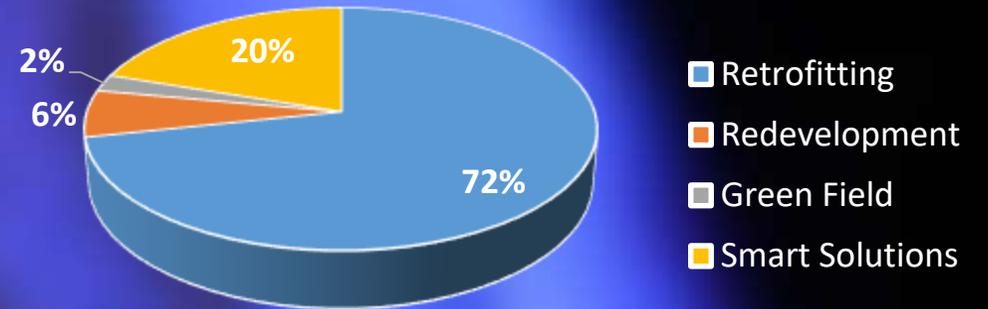
Financial Landscape for 60 Cities

Source of Funds

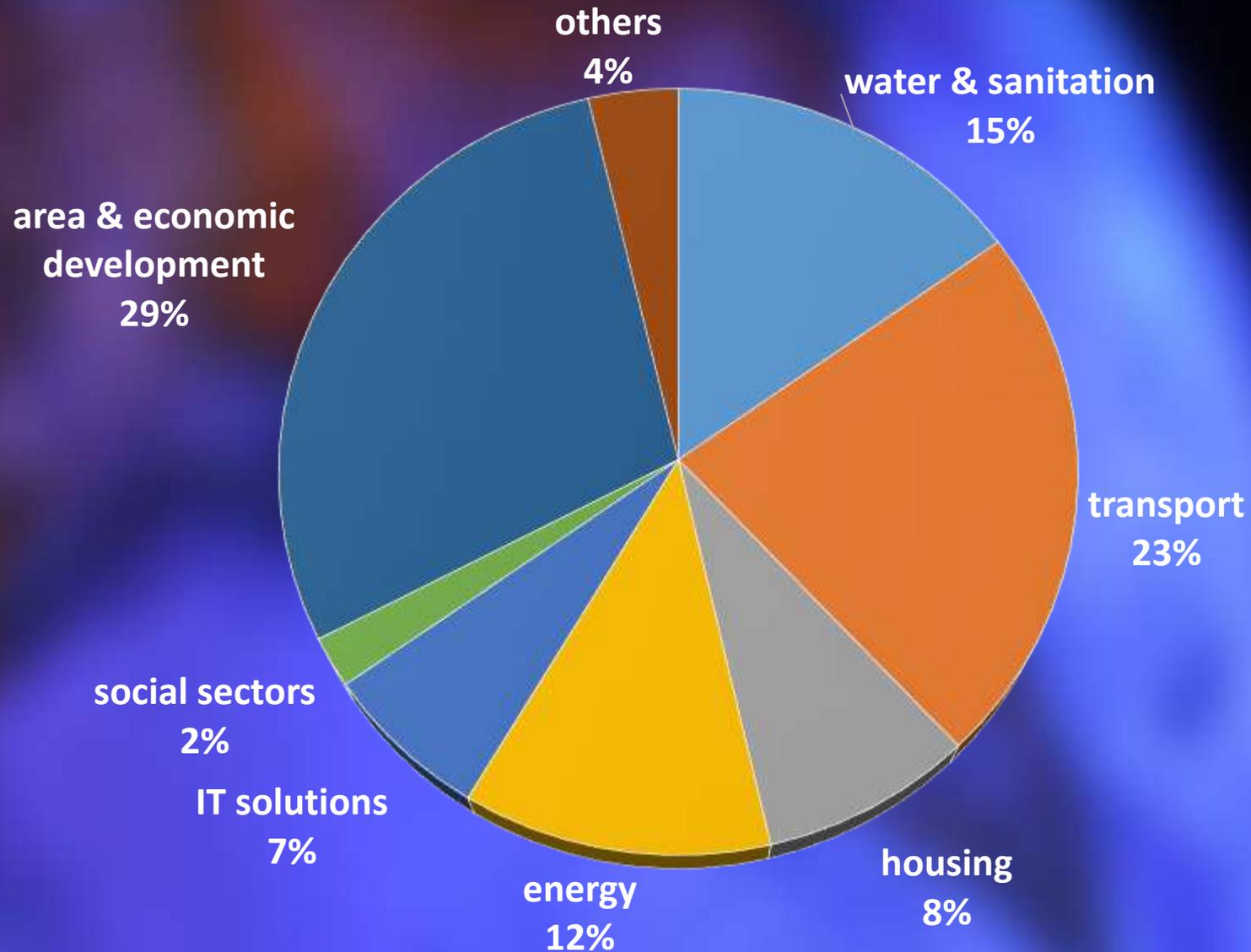


Over **USD 20.87 Billion** Planned Expenditure for 60 Smart Cities

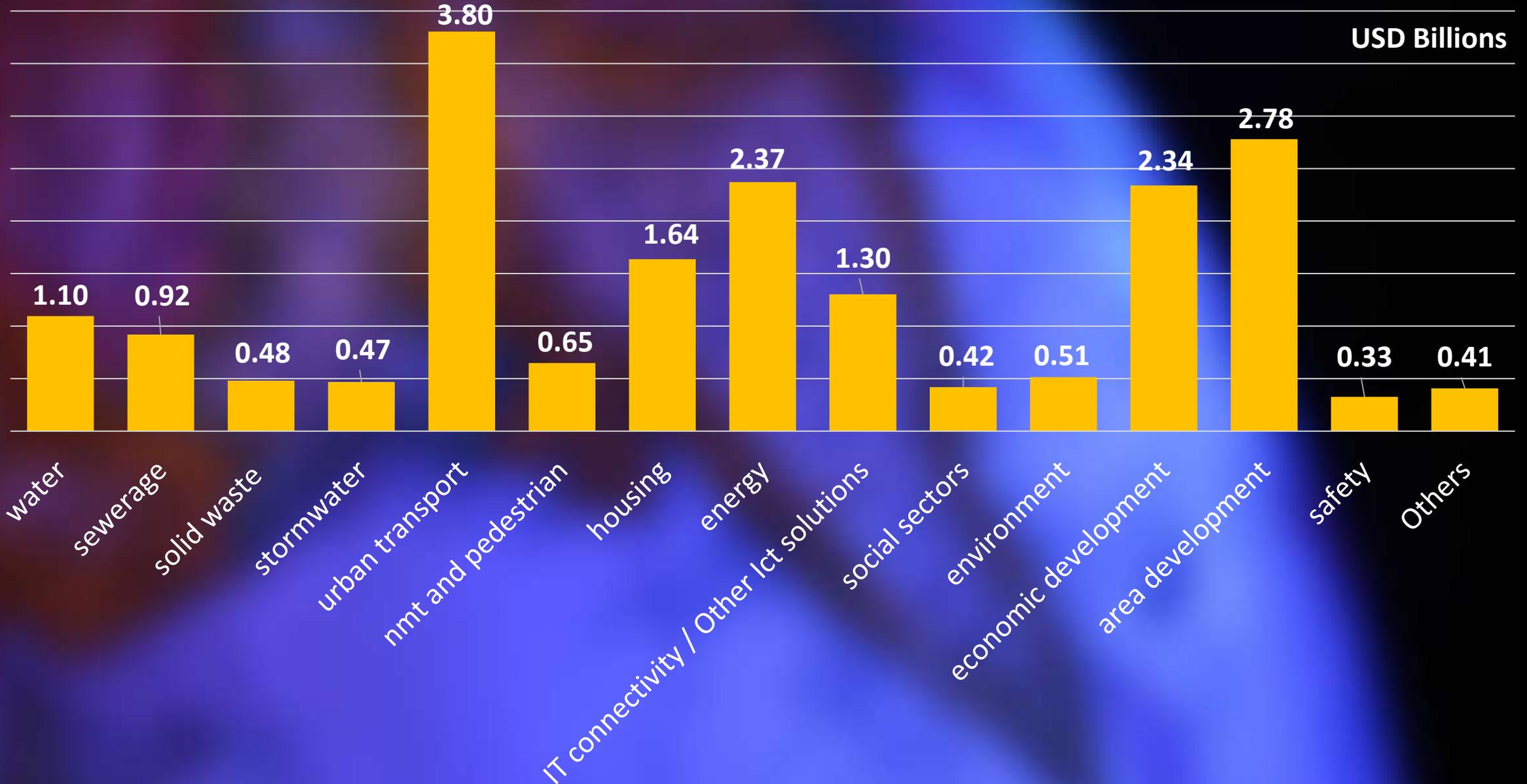
Retrofitting Redevelopment Green Field Smart Solutions USD in Bn



Broad sector wise spending proposed for 60 Cities



Detailed sector wise spending proposed for 60 Cities



Institutional Framework - Special Purpose Vehicle (SPV)

A limited company under Companies Act, 2013

State/UT & ULBs with 50:50 equity shareholding
(private sector participation permissible with State/ULB as major stakeholders)

New forms of procurement - enter into JVs and PPPs

Regulated by the Companies Act

Access to finance from External sources



Sources of Funds



Municipal Bonds

Public Private Partnerships

Line of Credit

Loans

Land Monetization

Land Based Fiscal Tools

Non Tax Revenues

Investment Routes

National Level

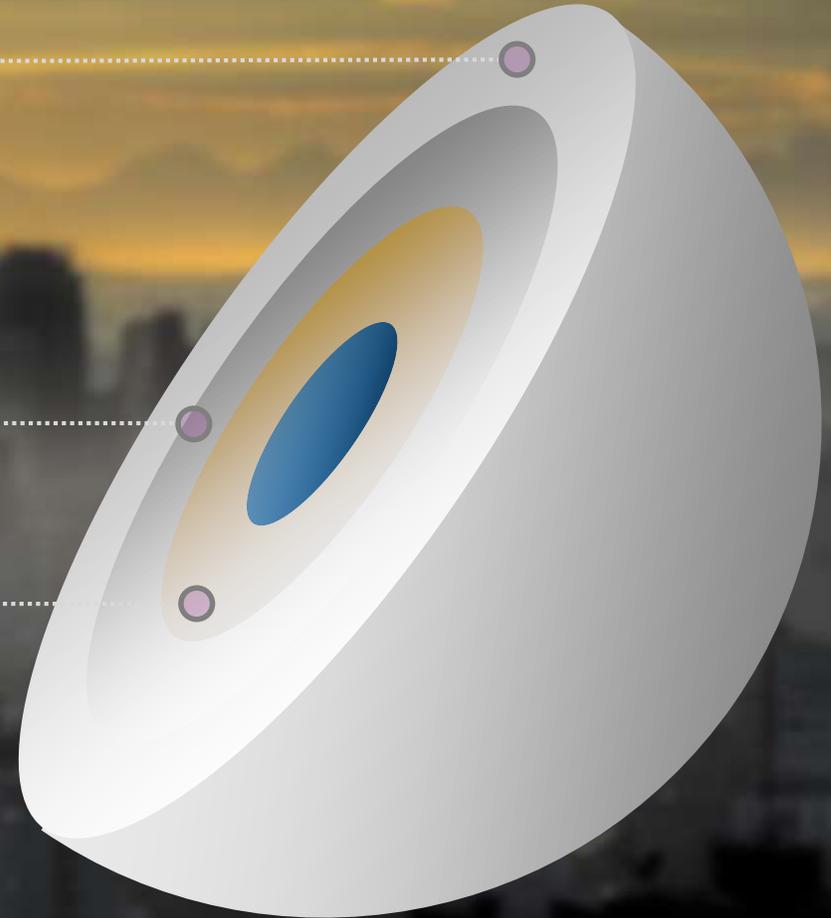
NIIF, Domestic and Foreign Financial Institutions

State Level

State Financial Intermediaries, Bonds, Pension Funds

City Level

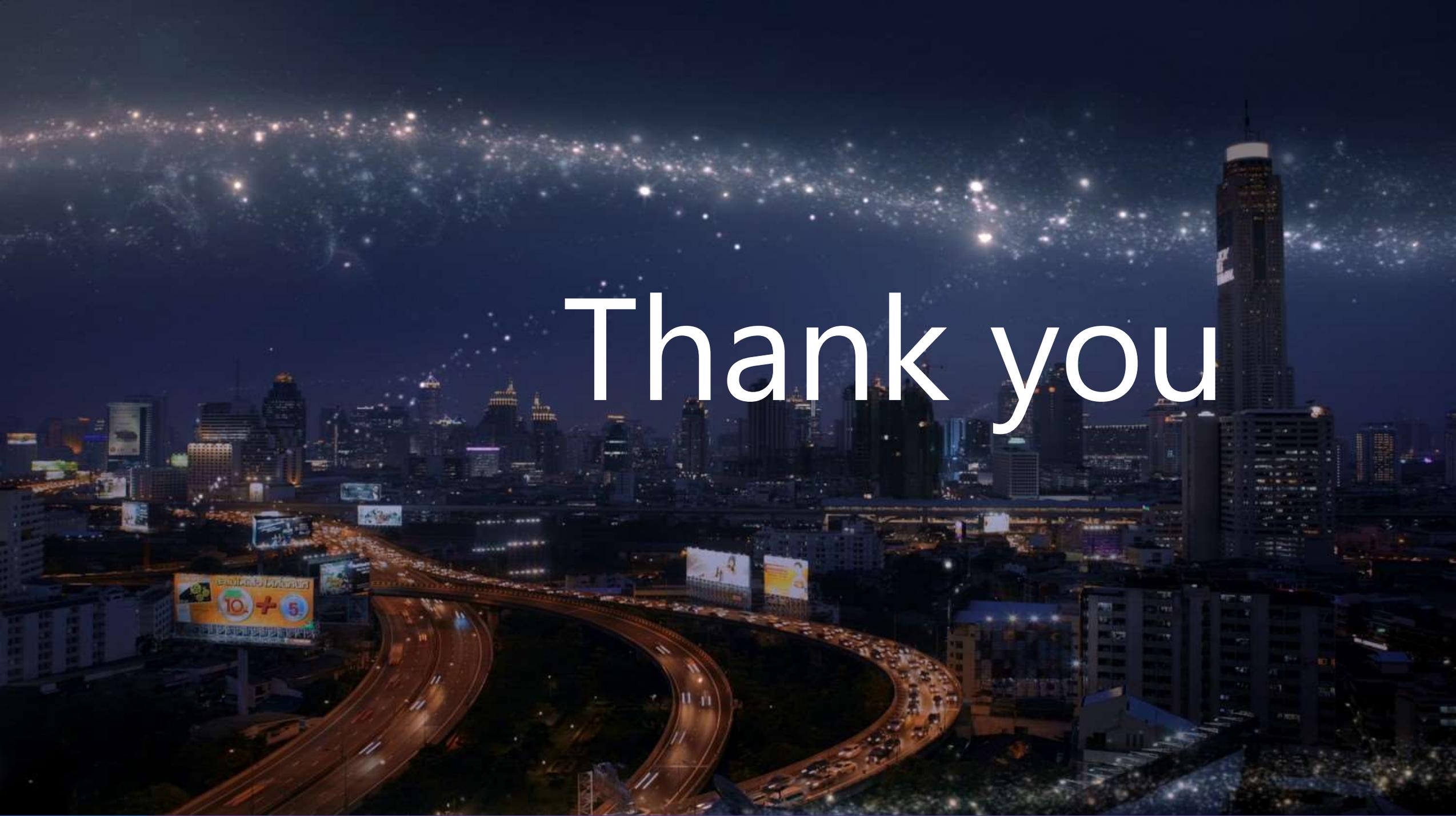
SPV – Equity, PPP, JVs



De-risking Investments

- Complete **flexibility** for SPV to appraise, plan, approve, finance, implement, manage, and monitor projects.
- **Autonomy** to SPV to raise funds
- SPV can enter into **relevant commercial arrangement**, like contracts, partnerships and service delivery arrangements (e.g. hybrid PPPs)
- Relative **independence** of SPV from red-tape
- **State support**: Dedicated and substantial revenue stream to the SPV to make it self sustainable and creditworthy –
- **Cities' commitment** to improve their internal revenues and debt service capacities
- **Predictability and consistency**: Commercial agreements with other State/parastatals entities



A night cityscape with a starry sky overlay and the text "Thank you". The scene shows a highway interchange with traffic, illuminated buildings, and a prominent skyscraper on the right. The sky is filled with numerous bright stars, creating a celestial atmosphere.

Thank you