All India Mayors’ Conference
New Urban India

Presented by:
Secretary, Ministry of Housing & Urban Affairs
Varanasi | 17th December 2021
<table>
<thead>
<tr>
<th>Outline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid Urbanization – Challenges &amp; Opportunities</td>
</tr>
<tr>
<td>Vision and Strategy for Urban Transformation</td>
</tr>
<tr>
<td>Sanitation &amp; Cleanliness</td>
</tr>
<tr>
<td>Housing For All</td>
</tr>
<tr>
<td>Urban Water</td>
</tr>
<tr>
<td>Urban Livelihood</td>
</tr>
<tr>
<td>Smart Urbanization</td>
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<tr>
<td>Urban Mobility</td>
</tr>
<tr>
<td>Way Forward</td>
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</table>
"There was a time in our country when urbanization was considered a big problem. But I feel differently. We should not consider urbanization as a problem but consider it as an opportunity."

"Cities have the strength to 'digest' poverty and provide economic opportunities for the poorest coming from other less-developed areas. We must further strengthen the cities to increase this 'digestive' ability, make it faster and wider... economic prosperity will automatically follow"
Urbanization offers challenges & opportunities
Urbanization has challenges

- Unplanned Settlement
- Urban Flooding
- Health Disaster/ Pandemic
- Filthy, Unsanitary Conditions
- Traffic Congestion
- Air Pollution

Haphazard Development - Pollution/ Congestion/ Disasters
Urbanization creates opportunities for better living

Good quality Housing

Education Facilities

Shopping

Good Health Care facilities

Happy Streets

Economic Opportunities

Planned Development, happy people, prosperous lives
Urbanization Trend

**Million+ Cities (Numbers)**

<table>
<thead>
<tr>
<th>Year</th>
<th>2011</th>
<th>2030</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cities</td>
<td>53</td>
<td>87</td>
<td>103</td>
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</tbody>
</table>

**Population (in Crore)**

- **Urban population**
  - 2011: 37.7 Cr. (31%)
  - 2030: 60 Cr. (40%)
  - 2050: 88 Cr. (54%)

- **Rural population**

**GDP**

- 2011: 60 %
- 2030: 70 %
- 2050: 80 %

**Gross Domestic Product (GDP)**

- 2011: 53
- 2030: 87
- 2050: 103
MoHUA’s Vision

- **Ease of Living**
- **Responsive Governance**
- **Clean & Sustainable Environment**
- **Economic Growth & Livelihood Opportunities**
### Strategy for Urban Transformation

<table>
<thead>
<tr>
<th>Liveability</th>
<th>Economic-ability</th>
<th>Sustainability</th>
</tr>
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<tbody>
<tr>
<td>All Cities (4,800+)</td>
<td>27 Metro Rail</td>
<td>100 Smart Cities</td>
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<tr>
<td>SBM (U) 2.0, AMRUT 2.0, PMAY (U), DAY-NULM, PM-SVANidhi</td>
<td>27 Metro Rail</td>
<td>100 Smart Cities</td>
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Sanitation & Cleanliness (SBM-U)

Dignity, Safety, Health & Hygiene For All

QR-1: SBM-U 2.0 Operational Guidelines

QR-2: Swachh Survekshan 2021 Dashboard
Swachh Bharat Mission - Urban

100% Access to Toilets

66.90 Lakh Household Toilets

6.42 lakh Community & Public Toilet seats

36* States/UTs ODF

(*Excluding Purulia in WB)
Journey of Sanitation under SBM-U

Before

Now

Bhopal

Ambikapur

Navi Mumbai
Scientific Solid Waste Management

Waste Entrepreneurship & Formalization of Informal Sector

- **97%** wards have 100% Door to Door Collection of MSW
- **87%** wards have 100% Segregation of MSW
- **9** cities 5-Star
- **166** cities 3-Star
- **167** cities 1-Star

Four-fold increase in Waste Processing (%)

- **70%**
- **18%**

- **2004-2014**
- **2014-2021**
Journey of Solid Waste Management under SBM-U

Bio-Remediation in Indore, Madhya Pradesh
Journey of Solid Waste Management under SBM-U

Before

Now

Dumping Yard to Sanitary Park in Ambikapur, Chhattisgarh
Swachh Bharat Mission

World’s Largest Behavioral Change Programme in Sanitation
".... स्वच्छ भारत मिशन (शहरी) २.० का लक्ष्य है गार्बेज फ्री शहर, कचरे के ढेर से पूरी तरह मुक्त, ऐसा शहर बनाना"

Shri Narendra Modi
Prime Minister of India

(Excerpt from the address of the Prime Minister on the occasion of launch of Swachh Bharat Mission – Urban 2.0, on 1st October 2021)
SBM- Urban 2.0 Vision: Garbage Free Cities

100% scientific solid waste management

Remediation of legacy dumpsites

In 154 cities:
- Mechanized sweeping
- C&D waste processing

Treatment of used water, including fecal sludge

‘Manhole to Machinehole’ (Occupational Safety for SafaiMitras)

Phased reduction in usage of Single-use plastic (SUP)

Clean Air, Clean Water, Clean Land
SBM- Urban 2.0: Expected Outcomes

- Cities to be certified at least 3-star Garbage Free, or higher
- All cities to become at least ODF++ (Management of faecal sludge)
- At least 50% of all cities to become Water+ (Safe treatment and reuse of treated wastewater)
Housing For All (PMAY-U)
PMAY (U): Key Features

- Cafeteria Approach
- Cooperative Federalism
- Technological interventions
- Women Empowerment
- Promoting Private Investment
- Inclusive Cities
- Economic Growth
PMAY(U): Achievements at a Glance

**Houses Sanctioned (Lakh)***

- 2015-16: 6.2
- 2016-17: 15.1
- 2017-18: 36.7
- 2018-19: 71.1
- 2019-20: 95.4
- 2020-21: 112.5
- 2021-22: 114.06

**Total Investment**

- ₹ 7.52 Lakh Cr

**Central Assistance Approved**

- ₹ 1.85 Lakh Cr

**Central Assistance Released**

- ₹ 1.14 Lakh Cr

**2.6 Crore**

- Estimated Jobs Created

**169 Lakh MT**

- Estimated Steel Consumption

**744 Lakh MT**

- Estimated Cement Consumption

**Homes under PMAY(U)**

- Assessed Demand: 1.12 Cr
- Grounded for Construction: 90.05 Lakh
- Sanctioned: 1.14 Cr
- Completed/Delivered: 53.12 Lakh
- CLSS Beneficiaries: 17.35 Lakh
- New technology houses: 16 Lakh

**Estimated Cement Consumption**

- 2.6 Crore

**Estimated Steel Consumption**

- 169 Lakh MT

**Estimated Jobs Created**

- 2.6 Crore
Affordable Rental Housing Complexes - ARHCs

**ARHCs Expected Outcomes**
- Safe & affordable living space
- Close to Workplace
- Assured availability of workforce
- No proliferation of slums

**Model - 1**
- 4,444 vacant houses converted into ARHCs
- Conversion of 8,384 vacant houses into ARHC is under progress

**Model - 2**
- 66 Proposals for 1.34 Lakh units - 18 States/UTs
- 79,885 Units sanctioned for release of ₹ 175 Cr. as TIG for use Innovative Technologies
- Construction started for 20,000 units

**Progress**

- QR-5: ARHC
- QR-6: ARHC Introduction Video
Technological Interventions

Use of Resource Efficient, Rapid Paced, Disaster Resilient Construction Technologies
Light House Project

**LHP CHENNAI**
- **Technology:** Precast Concrete Construction System - Precast Components Assembled at Site
- **No. of Houses:** 1,152
- **Country of Origin:** Finland/USA

**LHP RAJKOT**
- **Technology:** Monolithic Concrete Construction using Tunnel Formwork
- **No. of Houses:** 1,144
- **Country of Origin:** France

**LHP INDORE**
- **Technology:** Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System
- **No. of Houses:** 1,024
- **Country of Origin:** China/Japan

**LHP LUCKNOW**
- **Technology:** Stay In Place PVC Formwork with Pre-Engineered Steel Structural System
- **No. of Houses:** 1,040
- **Country of Origin:** Canada

**LHP AGARTALA**
- **Technology:** Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System
- **No. of Houses:** 1,000
- **Country of Origin:** New Zealand/Kenya

**LHP RANCHI**
- **Technology:** Precast Concrete Construction System - 3D Volumetric
- **No. of Houses:** 1,008
- **Country of Origin:** Germany
Transformation Journey under PMAY (U)

**Before**

Laximinagar slum, Ahmedabad, Gujarat through ISSR

No. of dwelling units: 609 Nos; Construction Period: Aug. 2016 to Sep 2017

**Now**
Transformation Journey under PMAY (U)

Before

Now

BLC House – MUNGI SANTHI ; Andhra Pradesh
Urban Water (AMRUT 2.0)

Making Cities Water Secure
First Water focused Mission launched on 25th June 2015

Universal water supply, improvement in sewerage & septage management in 500 Mission cities

**Project components**

- Water Supply
- Sewerage & Septage Management
- Storm Water Drainage
- Non-motorized Urban Transport
- Green Spaces and Parks

**Allocation:** ₹77,640 crore
<table>
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<th>115 Lakh HH water tap connections</th>
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<tr>
<td>87 Lakh HH sewer connections/ septage coverage</td>
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<tr>
<td>1,850 MLD Sewage Treatment capacity added</td>
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<tr>
<td>907 MLD recycled / reused</td>
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<tr>
<td>1,900 Green Spaces &amp; Parks with 3,900 acre area developed</td>
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<td>2,250 water logging points eliminated</td>
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**Green mobility-** Projects worth ₹400 cr completed
AMRUT Achievements - Reforms

Credit Rating
- 470 completed
- 15 in progress
- Non-IGR Cities 306
- IGR Cities 164

O.B.P.S.
- Implemented in 2,471 cities overall
- 455 AMRUT cities

Energy Audit of Pumps
- 678 pumps replaced out of 11,940 pumps identified for replacement
- In lakhs
  - Target: 101
  - Achievement: 91

Municipal Bonds
- 10 Mission cities have raised ₹3,840 crores:
  - Ahmedabad
  - Indore
  - Amaravati
  - Lucknow
  - Bhopal
  - Pune
  - Ghaziabad
  - Surat & Vizag

Energy efficiency (LED for Street lights)
- 396 cities
- 200 Cr power units (kWh) energy savings (₹1,000 Cr)
- 15.92 lakh tonnes CO₂ emission reduced per year

Global Rank of India
- DBR 2017: 185
- DBR 2018: 181
- DBR 2019: 52
- DBR 2020: 27

AMRUT Achievements - Reforms
- DBR 2017
- DBR 2018
- DBR 2019
- DBR 2020

Achievement
- Target
- Energy efficiency (LED for Street lights)
- 200 Cr power units (kWh) energy savings (₹1,000 Cr)
- 15.92 lakh tonnes CO₂ emission reduced per year

AMRUT Achievements - Reforms
- DBR 2017
- DBR 2018
- DBR 2019
- DBR 2020

Audit Completed
- Streetlights replacement with LEDs, Gandhinagar, Gujarat
Universal coverage of water supply in all statutory towns

100% Sewerage and septage management in 500 AMRUT cities

Water secure cities
- Rejuvenation of water bodies
- Urban Aquifer Management
- Rain water harvesting
- PeyJal Survekshan

Key Objectives

AMRUT 2.0 - Launched on 1st October 2021

QR-10: Internship AICTE India
Transformation Journey under AMRUT

**Before**

Garbage dump site

**Now**

Park developed at Deogarh, Jharkhand

Garbage dump site transformed to green space spread over 3.50 acres of land
Vehicle dumping yard transformed to a vibrant park at Kollam, Kerala
Transformation Journey under AMRUT

Before

Now

Shantikanan Park, Balasore, Odisha
Transformation Journey under AMRUT

Before

Now

Shantikunj Garden, Surat, Gujarat
A two kilometer stretch of river Saraswati in Indore has been made 100% sewage free by tapping sewage outfalls through operational STPs.
Transformation Journey under AMRUT

Before

Storm Water Drainage and disposal project, Rajamahendravaram, Andhra Pradesh

Now
RERA: A New Era of Transparency & Accountability

• Enacted in 2016 - marked the beginning of a new era in Real Estate Sector

• Ensures:
  • Fair transactions
  • Timely delivery
  • Quality construction
  • Speedy adjudication of disputes
RERA: Implementation Progress

Implementation Status: 27th November 2021

- Rules Notification: 35 States/UTs
- Regulatory Authorities constituted: 30 States/UTs
- Appellate Tribunals formed: 28 States/UTs
- Projects Registered: 71,565
- Agents Registered: 56,236
- Cases Disposed: 78,986
Urban Livelihood
(DAY-NULM & PM-SVANidhi)
Building Social Capital

Urban poor women → Self Help Groups → Area Level Federations → City Level Federations → 65 lakh Women mobilized into SHGs

- Local to Global markets
- Inculcating Entrepreneurship – subsidized loans
- Mayor led Community decision making
Creating Livelihoods

Skill Development for enhanced employability

- 11 lakh trained
- 6 lakh Placed

Industry Partnership
- IPSC
- NAREDCO
- NSDC
- CREDAI

Credit for Micro-Enterprises

- 11.1 lakh loans: ₹27,736 Crore
- DBT of interest subsidy, Revolving Fund and training fees
Supporting Urban Street Vendors

- 49.5 lakh Street Vendors
- 26 lakh Certificate of Vending
- 10,410 Vending Zones

Shelters for Urban Homeless

- 1,627 all-weather permanent shelters for 1.3 lakh persons

DAY-NULM: Vision 2024

- 1 Crore Women into Self Help Groups
- 40 Lakh livelihoods
- Certificate of Vending (CoV) to 50 Lakh street vendors
- Professionally managed City Livelihoods Centers (CLCs) in 75 cities
Collateral Free Loans for Working Capital & Business Expansion

- **Loans of** ₹10,000, ₹20,000 and ₹50,000
- **7% interest subsidy**
- **₹1,200 cashback on digital transactions**

**Disbursements**
- 27.18 lakh loans disbursed worth ₹2,728 crores

**Digital Transactions**
- 10.9 crore digital transactions by 9.8 lakh vendors

**Loans Repaid**
- By 2.85 lakh street vendors

**Women Empowerment**
- 40% beneficiaries are women vendors

QR-12: PM SVANidhi Website
PM SVANidhi: Performance Indicators

- **Small States & UTs**
  - Andaman & Nicobar
  - Ladakh
  - Jammu & Kashmir

- **Hilly & NE States**
  - Manipur
  - Himachal Pradesh
  - Arunachal Pradesh

- **Top Performing States & UTs**
  - Madhya Pradesh
  - Telangana
  - Uttar Pradesh

- **Large States**
  - Andaman & Nicobar
  - Ladakh
  - Jammu & Kashmir

- **Top Performing Cities**
  - Greater Hyderabad
  - Chennai
  - Ahmadabad

- **Mega Cities (> 40 lakh)**
  - Greater Hyderabad: 47,235
  - Chennai: 36,390
  - Ahmadabad: 34,733

- **Million Plus (>10 lakhs & < 40 lakhs)**
  - Lucknow: 64,050
  - Kanpur: 60,269
  - Indore: 51,287

- **Major (> 1 lakh & < 10 lakh)**
  - Greater Warangal: 27,743
  - Gorakhpur: 16,869
  - Aligarh: 16,822

- **Schemes Covered**
  - PM SBY, PM JJBY, PM Jan Dhan
  - ONORC
  - PM Shram Yogi, BoCW
  - PM Matru Vandana
  - Janani Suraksha

- **Street Vendor’s Profiled**
  - 7.5 lakh

- **Families Members Profiled**
  - 13.5 lakh

- **Scheme Benefits Sanctioned**
  - 13.5 lakh

- **SVANidhi Se Samriddhi – Safety Net for Entire Family**

- **Top Performing Cities**
  - Khandwa, MP
  - Ongole, AP
  - Karimnagar, TS
  - Adilabad, TS
  - Kurnool, AP
Smart Urbanization
(Smart Cities Mission)
Smart Cities Mission - Strategy

- No Standard Template
- Initiatives contributing to Ease of Living, Economic Growth and Sustainability
- Four pillars of comprehensive development—Institutional, Physical, Social and Economic

> Area Based Development

- **Redevelopment**
  - Area: 50 acres

- **Retrofitting**
  - Area: 500 acres

- **Greenfield**
  - Area: 250 acres

> Pan City Development

- City-wide Smart Solutions
  - ICCC

- 100 Smart Cities
- 5,151 Projects
- ₹ 2,05,018 crore
## Mission Progress (₹ crore)

<table>
<thead>
<tr>
<th>Category</th>
<th>Projects</th>
<th>Value</th>
<th>Progress %</th>
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<tbody>
<tr>
<td>Tendered</td>
<td>6,452</td>
<td>₹ 1,84,898</td>
<td>90%</td>
</tr>
<tr>
<td>Under Implementation</td>
<td>5,809</td>
<td>₹ 1,56,571</td>
<td>76%</td>
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<tr>
<td>Completed</td>
<td>3,131</td>
<td>₹ 53,175</td>
<td>26%</td>
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## Key Projects

### Smart Command & Control Centres
- **Completed**: 75 Cities
- **In Progress**: 25 Cities

### Vibrant Urban Spaces
- **Completed**: 78 Projects
- **In Progress**: 66 Projects

### Public Private Partnerships
- **Completed**: 140 Projects
- **In Progress**: 162 Projects

### Smart Water
- **Completed**: 118 Projects
- **In Progress**: 193 Projects

### Smart Roads
- **Completed**: 340 Projects
- **In Progress**: 437 Projects

### Smart Solar
- **Completed**: 63 Projects
- **In Progress**: 31 Projects

## Smart Cities Mission - Snapshot of Progress

[QR-14: Mission Website]
Technology - Important medium of transformation

ICCC
Integrated Command & Control Centers

DATA SMART CITIES
Empowering Cities Through Data

IUO
India Urban Observatory

NUDM
National Urban Digital Mission

TULIP
The Urban Learning Internship Program

QR-15
QR-16
QR-17
QR-18
QR-19
Re-imagining Cities: Campaigns in response to pandemic

1. INDIA CYCLES4CHANGE
2. STREETS 4PEOPLE
3. NURTURING NEIGHBORHOODS
4. EATSMART CITIES
5. TRANSPORT 4ALL
75 ICCCs serving as COVID War Rooms in Cities

Mapping of Positive cases, Cantonment Zones/ Hotspots, Hospital Bed availability, Tele-medicine, Public Address System, Variable Messaging
Growth of Metro Rail

Total: 27 cities

- Operational: 733 km - 18 cities
- Under Construction: 1046 km - 17 cities
- RRTS: 82.15 km

Daily ridership: 85 Lakhs (Pre-covid)
Regional Rapid Transit System (RRTS)

First RRTS connecting two cities in National Capital Region (Delhi – Meerut)

- Delhi - Meerut: 55 mins
- Operational speed: 160 kmph
- Delhi - Ghaziabad - Meerut
- 82 km under construction
- RRTS & Metro on same infra
- over 22 kms in Meerut
NEW TRANSITS - MetroLite

Low-cost Mass Rapid Transit System with same experience and ease of travel as conventional metro system

Salient Features

1. Suitable for Tier-2 cities
2. Cost - 40% of conventional metro (Speed - 60 kmph)
3. Low-cost Mobility Solution (up to PHPDT of 15,000)
4. Faster deployment
NEW TRANSITS - MetroNeo

Rubber tyred electric articulated coaches powered by overhead traction system running on a road slab with exclusive right of way

Salient Features

1. Suitable for Tier-2 cities with Less ridership
2. Cost- 25% of conventional metro (Speed- 70 kpmh)
3. Low-cost Mobility Solution (up to PHPDT of 8,000)
4. Faster deployment

MetroNeo being planned in Nasik
New Technologies

National Common Mobility Card (NCMC)

Indigenous Automatic Train System (IATS)

Automatic Fare Collection System

Driverless Train Operations
Towards AtmaNirbharBharat

Significantly reduced dependence of Indian Metros on Foreign Vendors

Metro Coaches manufactured in India are being exported
Way Forward
Way Forward (1/2)

Focused implementation of Urban Missions

Improved performance of cities

- Swachh Survekshan Ranking
- Star rating of Garbage Free Cities
- Safaimitra Suraksha Challange
- Ease of Living Index
- Municipal Performance Index
- ClimateSmart Cities Assessment Framework
- PeyJal Survekshan
Way Forward (2/2)

- Strengthen Urban Governance
- Improved Urban Planning
- Innovative Urban Financing
- Foster Urban Innovation
- Promote Urban Livelihood
Resurging New India

New Central Vista and Parliament Building
Thanks
<table>
<thead>
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