IN THE FRAMEWORK OF:

















7th December 2023 | The LaLiT, New Delhi, India

POLICY & STANDARDS

A CASE STUDY:

SMART CITY LIVING LAB

Prof.Ramesh Loganathan, IIIT Hyderabad

Experiment at IIIT Campus.. A LIVING LAB



Partner key objectives:

 Facilitating smart city Living Lab for business and societal impact

Living Lab objectives:

- Bringing innovative parties & stakeholders to
- Extending field of research
- Acting as a role model for Indian scenario as a industry- academia collaboration



Partner key objectives:

Implementing solutions to urban challenges which improve the quality of life for the

Living Lab objectives:

- · Solving challenges of the Municipality of
- Improve the liveability for inhabitants



Partner key objectives:

- 100 Smart Cities across India
- Improve quality of life for Indian citizens

Small-scale testing and research for

Living Lab objectives:

- Provide handholding and mentorship through R&D and innovation ecosystem of IIT HYD and from MSH and partners





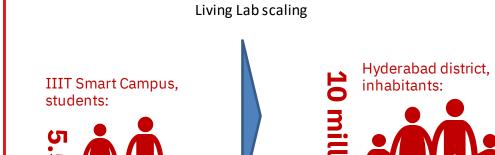
Partner key objectives:

Transforming India into a knowledge-based economy and digitally empowered society based on technology

Living Lab objectives:

• Living Lab research as input for the Smart City Mission





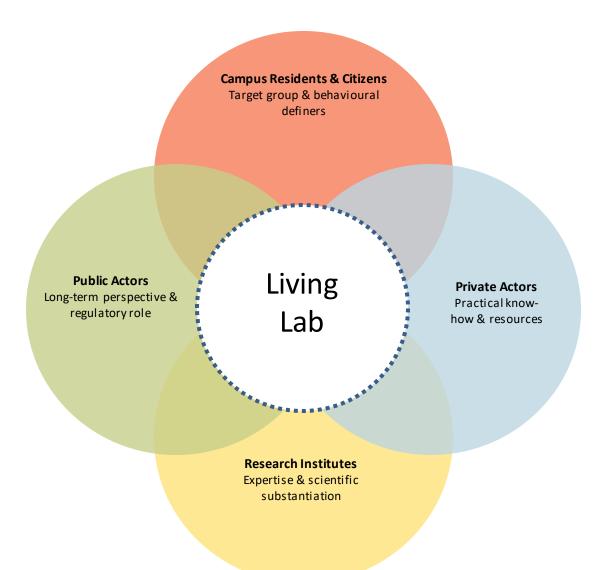




The Living Lab brings together a dynamic ecosystem



Campus residents and citizens, private actors, knowledge institutes and public actors in real life context



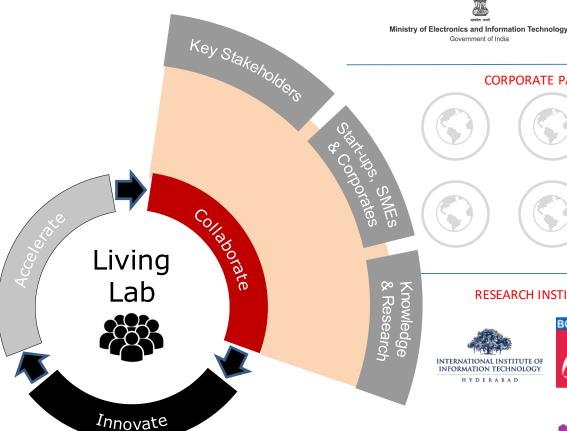
Innovation. Solutions to specific problems. Cross stakeholder deliberations. Policy dialogs.







Platform for collaboration, to realise the vision and values









CORPORATE PARTNERS









SME/STARTUP PARTNER











LAAS











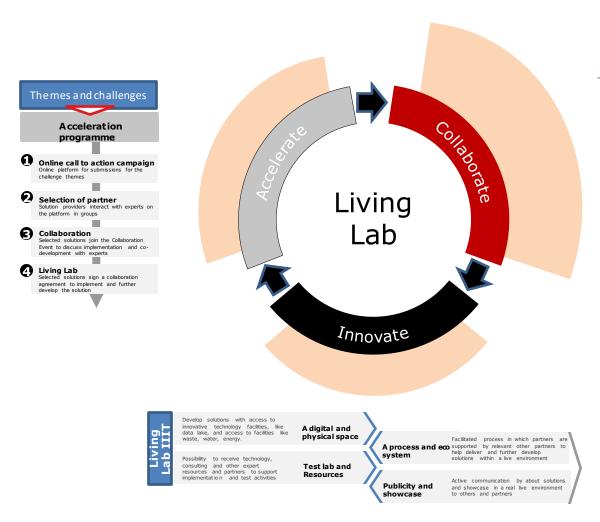
KNOWLEDGE PARTNERS

NETWORK PARTNERS





.. and, Enable Innovation





True business development for **ecosystem partners**

- Creating new solutions
- Criteria-based selection of solutions
- · Validation of business cases / valuation tooling
- Tested PoCs, scalable solutions
- · Global communication campaign
- Showcase solutions and business to others

= True Value (economical, social and sustainable value for business, organization and brand)

Research Projects, in addition to startup challenges

Research Projects Commenced.

More to follow.

Smart Buildings

- Smart home research activity in progress
- · Wireless smart motion sensors
- Indoor air quality monitoring
- Evaluating task control systems for integration with smart grid
- Test bed enhancement for smart room research

Energy

• Research on energy analytics and developing interactive voice-based interfaces

Pollution monitoring System

- IoT Network-Based Analysis of Variations in Particulate Matter Due to COVID-19 Lockdown
- Hierarchical Clustering based Spatial Sampling of Particulate Matter Nodes in IoT Network
- Comparative evaluation of new low-cost particulate matter sensors
- · Low-Cost Air Qulaity Monitoring device.

Pollution modelling

• Security Analysis of Large Scale IoT Network for Pollution Monitoring in Urban India

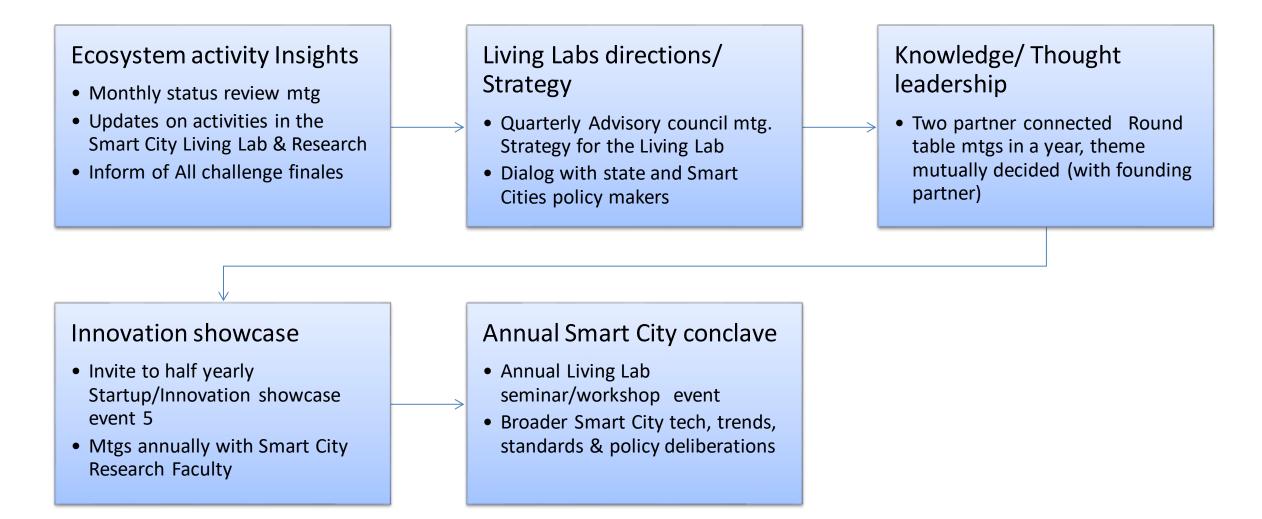
Water

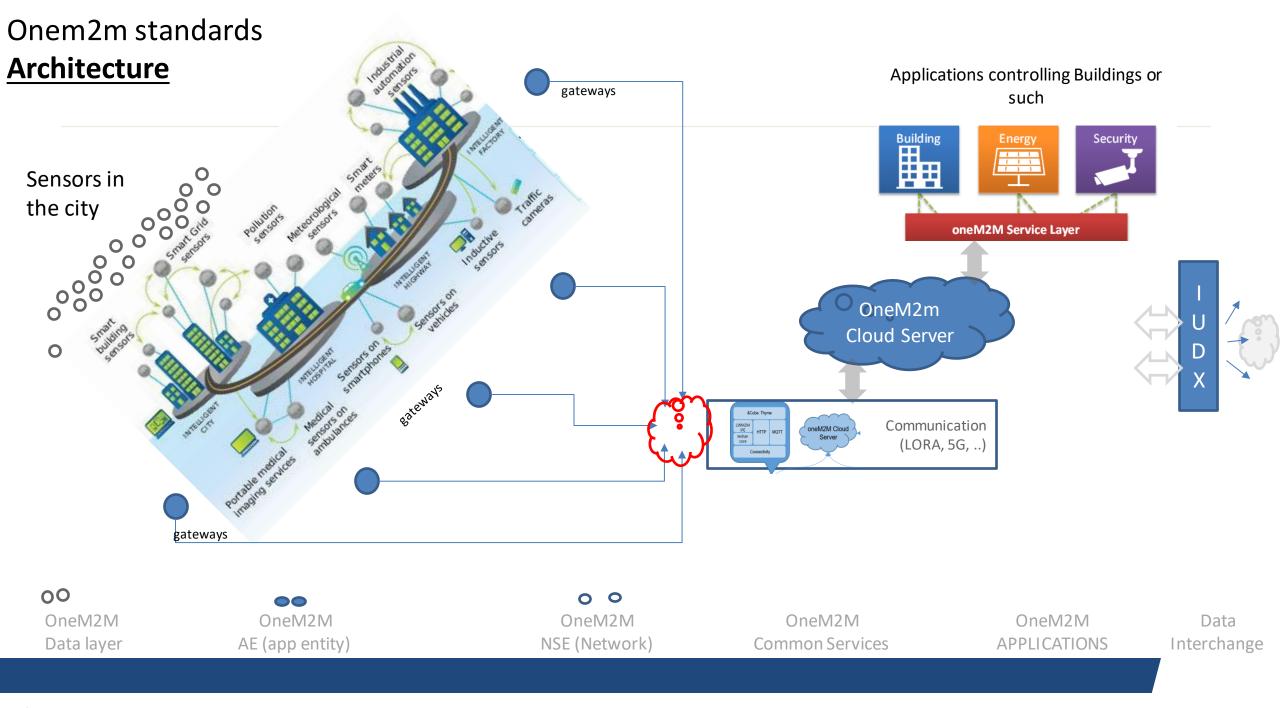
- Low-Cost Retrofitting of Analog Water Meter for Digitization.
- Non-invasive mechanism for water Quality analysis

Mosquito Corridor

• Modelling Mosquito movements for effective intervention

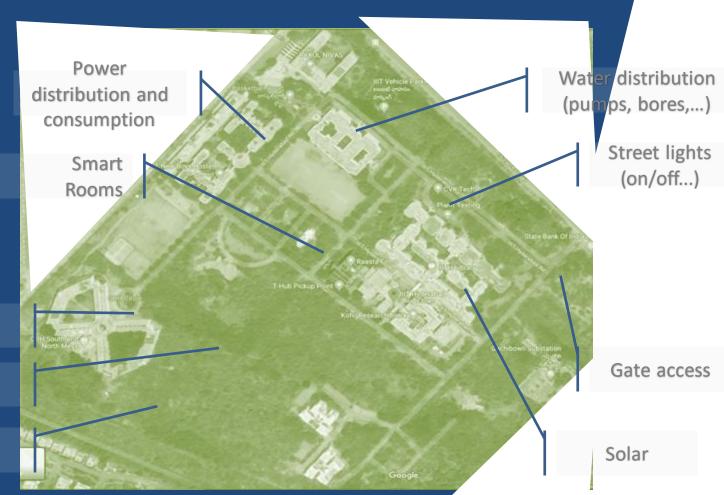
Strategic Conversations & Policy deliberations, at the Living Lab





Thanks

Ramesh.Loganathan@iiit.ac.in



Weather

Pollution

Smart Lamp post