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Urban Planning Laboratories

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**Partnership for Promotion and Popularization of Electrical Mobility through
Transformation and Modernization of WB HEIs Study Programs/PELMOB**

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Innovations in Urban Development and Research

- Test and implement urban policies
- Collaboration among academia, government, and citizens
- Address urban challenges: mobility, housing, sustainability, equity

Key Components

- Living Labs
- Urban Data Analytics
- Community Engagement
- Experimental Urban Design



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Methodologies Used

- Participatory planning
- GIS and spatial analysis
- Simulation modeling
- Pilot projects and prototyping

Notable Examples

- MIT City Science Lab (USA)
- Urban Lab Gothenburg (Sweden)
- Urban Living Lab Brussels (Belgium)
- Indian Urban Labs (IIT Roorkee, IIHS, etc.)

Technologies Involved

- Smart sensors and IoT
- Geographic Information Systems (GIS)
- AI and machine learning
- Digital twins and 3D modeling

Benefits of Urban Planning Labs

- - Evidence-based decision making
- - Better policy outcomes
- - Community empowerment
- - Innovation in governance

Challenges Faced

- - Funding and resource limitations
- - Stakeholder alignment
- - Scalability of solutions
- - Data privacy and ethical concerns

Future Directions

- Integration with smart city frameworks
- Open data and transparency
- Global networks of urban labs
- Sustainability and climate resilience

Conclusion

- UPLs as testbeds for resilient cities
- Shaping future urban environments
- Continued innovation and collaboration



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Thank you for your attention!