






Project Design Phase Problem Solution Fit

Date	30 June 2025
Team ID	LTVIP2025TMID38464
Project Name	Sustainable Smartcity Assistant Using IBM Granite LLM
Maximum Marks	

Problem – Solution Fit: Sustainable Smart City Assistant

The **Problem–Solution Fit** ensures that the **Smart City Assistant** directly addresses real challenges faced by city stakeholders and that the AI-driven solution genuinely improves governance, citizen participation, and sustainability outcomes. This alignment helps urban innovators, civic tech teams, and municipal planners design smarter systems that citizens will adopt and trust.

Purpose:

-  **Solve critical urban challenges** like policy inaccessibility, lack of real-time insights, and limited citizen feedback using AI-powered tools that align with the needs of both administrators and residents.
-  **Accelerate digital transformation in city management** by tapping into how users already engage with civic systems (dashboards, feedback forms, service portals) and embedding intelligence where it fits naturally.
-  **Sharpen stakeholder engagement strategies** by delivering timely, understandable, and actionable content (like policy summaries, KPI forecasts, eco-tips) using familiar interfaces and natural language.
-  **Build trust and increase civic adoption** by solving recurring, high-impact problems such as unreadable policies, ignored feedback, or delayed city services—improving satisfaction for citizens and performance for administrators.
-  **Deeply understand current pain points and workflows** to improve them through generative AI, resulting in smarter decisions, faster service delivery, and a more sustainable urban environment.



Sustainable Smart City Assistant

AI-Powered Urban Innovation & Civic Engagement Platform

01

Key Partners

Who are our key partners?

Municipal Governments & City Councils

AI/ML Technology Providers

Sustainability Consultants

Data Analytics Partners

Urban Planning Firms

Cloud Infrastructure Providers

02

Key Activities

What key activities does our value proposition require?

AI Model Development & Training

Real-time Urban Data Processing

Policy Translation & Summarization

Predictive Analytics Development

Citizen Feedback Analysis

03

Key Resources

What key resources does our value proposition require?

Advanced AI/NLP Models

Urban Data Infrastructure

Data Scientists & Urban Experts

04

Value Propositions

What value do we deliver to our customers?

Complex Policies Made Simple & Accessible

Real-time Urban Insights & KPI Monitoring

Personalized Sustainability Recommendations

Enhanced Citizen Voice & Feedback Loop

Accelerated Digital City Transformation

Predictive Urban Planning Support

05

Customer Relationships

What type of relationship does each customer segment expect?

Dedicated Municipal Account Management

Community-driven Support Forums

Educational Workshops & Training

Continuous Feedback Integration

24/7 AI-Powered Citizen Support

06

Channels

Through which channels do our customers want to be reached?

Web-based City Dashboards

Mobile Civic Engagement Apps

Municipal Admin Portals

Voice-activated City

07

Customer Segments

For whom are we creating value?

City Administrators & Planners

Elected Officials & Policy Makers

Citizens & Community Groups

Local Businesses & Developers

Academic & Research Institutions

Environmental Organizations