



SHIJAY PROJECTS

WELCOME TO GEOSMART 2025



“Join us at GeoSmart 2025—where intelligence meets innovation.”



DETAILS :-

Booth Number : A9

Date: Dec 02nd – 04th
2025

Venue : Bharat
Mandapam, Hall no 14
New Delhi

SCAN TO REGISTER



Use Code: shijayprojects-GSI

SHIJAY PROJECTS INDIA PRIVATE LIMITED

Shijay Projects is a specialised geophysical solutions partner, delivering end-to-end instrumentation, survey and consulting support for mining, infrastructure and groundwater projects. Leveraging a strong network of globally reputed OEMs, Shijay integrates advanced technologies such as GPR, seismic, EM, ERT/SRT, MT and structural health monitoring systems to design application-specific solutions rather than just supply hardware.



Email Address

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Address

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Nodia Sector 132, Uttar Pradesh - 201301



Contact Number

+91 9709374940

PERSONAL INTRODUCTION

GOALS

To act as a bridge between industry and research to make them give better output



ABOUT ME

Passionate Geologist with a strong academic foundation in Engineering Geology coupled with hands-on experience in geophysical surveys and project management.



HOBBIES

Multiple hobbies trying something new always



EDUCATION

Ph.D.in Mining Engineering (Part time)
M.Tech. in Engineering Geology
M.Sc. Geology (Integrated)



EXPERIENCE

3 years of experience in business development and lead generation



SKILLS

Project Management

Client relationship management

Lead generation & prospecting

Sales strategy development



COMPONENTS OF A SMART CITY



**Intelligent
Infrastructure**



**Connected
Mobility**



**Sustainable
Energy**



**Digital
Governance**



**Advanced
Healthcare**



**Green
Environment**



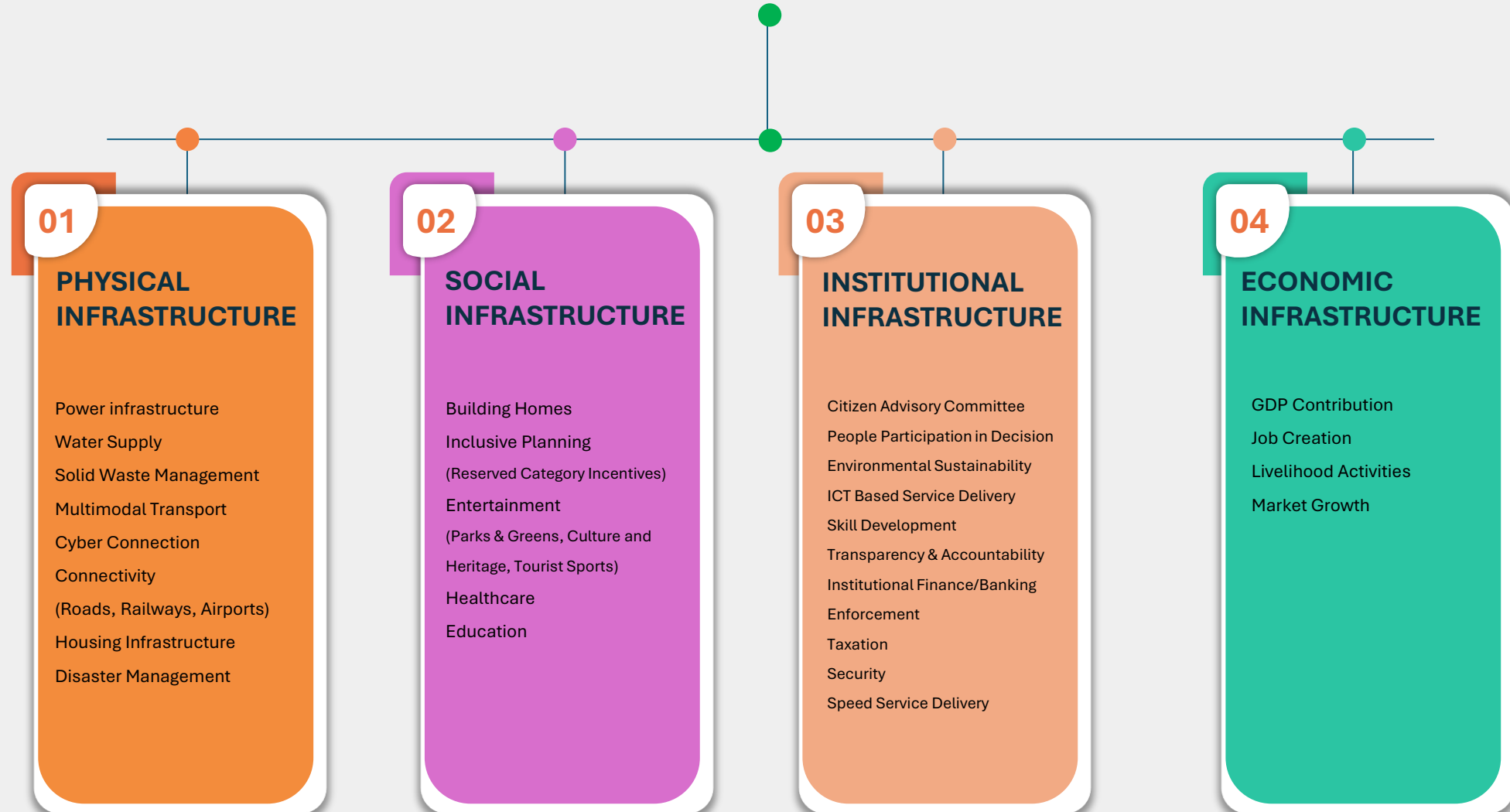
**Secure
Cityscape**



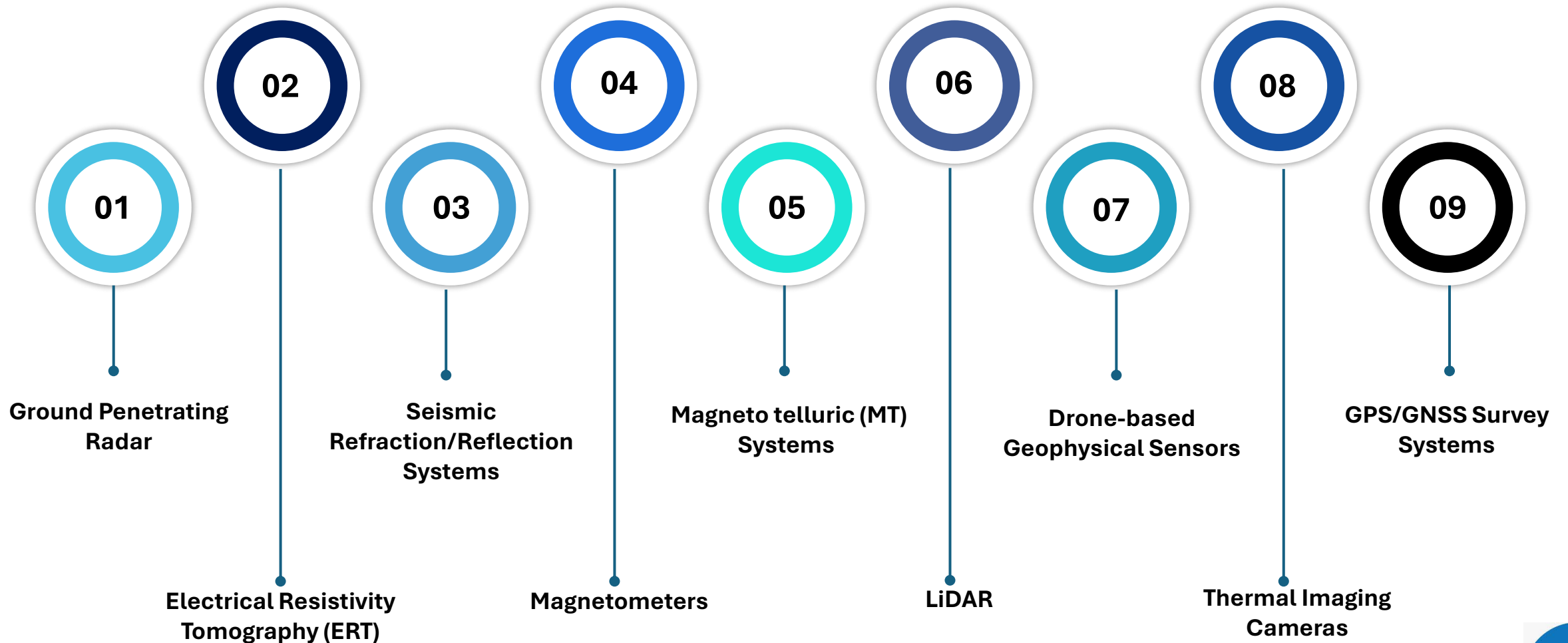
**Thriving
Economy**



SOLUTIONS FOR SMART CITY



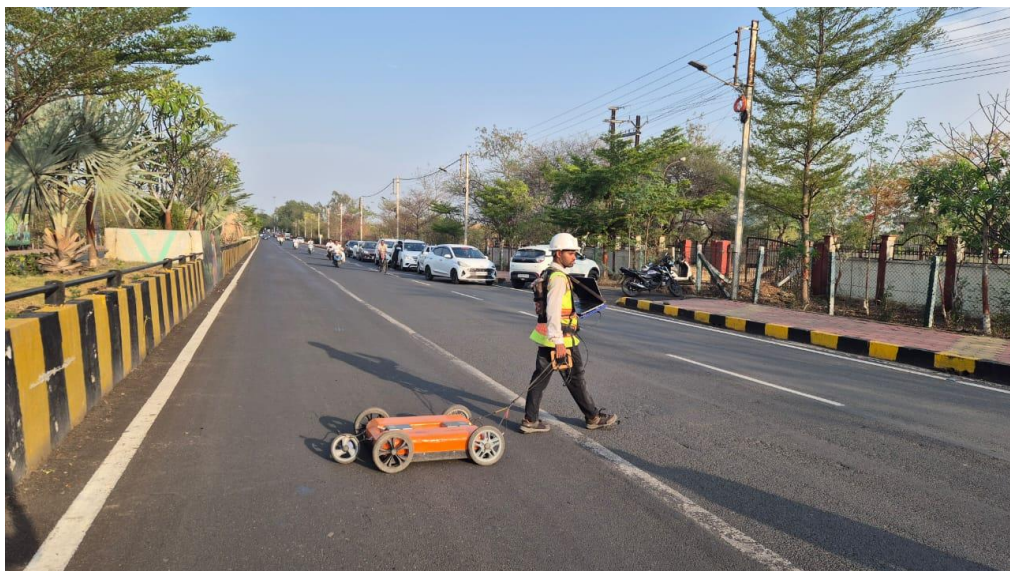
GEOPHYSICAL SOLUTIONS FOR SMART CITY





GEOPHYSICAL SOLUTIONS FOR SMART CITY

Ground Penetrating Radar



Sends electromagnetic waves underground; receives reflected signals



Detects buried objects without digging



- Locating water pipelines, power cables, telecom ducts
- Detecting voids below roads to prevent sinkholes
- Studying pavement thickness and road health



Measures electrical resistance of soil layers using electrodes.



Non-invasive, high-resolution imaging of subsurface structures by measuring variations in electrical resistivity



- Identifying groundwater zones
- Monitoring landfill leakage
- Soil suitability testing before construction
- Detecting weak/loose subsurface zones in industrial areas



GEOPHYSICAL SOLUTIONS FOR SMART CITY



**Seismic
Refraction/Reflection
Systems**

**Magnetometers & Electromagnetic
Induction (EMI) Systems**



Measures travel time of seismic waves through underground layers



High-resolution imaging of layered structures



- Planning metro or underground tunnels
- Earthquake-resilient urban planning
- Rock quality assessment before building foundations



Detect variations in natural magnetic fields



.To get an idea on applications in hydrogeology, geothermal energy, and infrastructure planning



- Magnetotelluric (MT) equipment plays a crucial, though specialized, role in smart city development by providing essential subsurface imaging and data for managing foundational urban infrastructure and resources



GEOPHYSICAL SOLUTIONS FOR SMART CITY

LiDAR & Drone-based Sensors



Uses laser pulses to generate 3D surface maps



Carry GPR, LiDAR, magnetometers, thermal cameras.



- City mapping, traffic monitoring, drainage network planning, flood modelling.
- Fast surveying of large city areas, monitoring structural damage after disasters.

Thermal Cameras & GPS/GNSS Systems



Measures electrical resistance of soil layers using electrodes.



Non-invasive, high-resolution imaging of subsurface structures by measuring variations in electrical resistivity



- Identifying water leakage, powerline overheating, building insulation issues, monitoring urban heat islands
- Geo-tagging underground utilities, asset management, real-time construction monitoring

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Thank You

