

CT&DT – SPSU - “TEAM ANONYMOUS” - TASK#02

S.NO	APPLICATION DOMAIN	COMPLEX PROBLEM IDENTIFIED	JUSTIFICATION
1.	ROAD CONSTRUCTION	<p>Geotechnical issues.</p> <p>Cost management and Budget overruns.</p> <p>Traffic Management and Public Disruption.</p>	<p>Understanding and addressing soil and ground conditions are crucial for ensuring structural stability and preventing costly failures.</p> <p>Effective cost management is vital to stay within budget and avoid financial strain.</p> <p>Minimizing disruption to traffic and local communities is important for maintaining public support and ensuring smooth daily operations.</p>
2.	IT SECTOR	<p>Cybersecurity Threats.</p> <p>Data Privacy and Compliance .</p> <p>Skills Shortage</p>	<p>As cyber threats evolve, protecting sensitive data and systems from breaches, ransomware and other attacks is critical to maintain trust.</p> <p>Compliance with data protection laws is essential to avoid legal penalties and protect user privacy.</p> <p>The IT sector frequently faces a shortage of skilled professionals in areas like cybersecurity, data science and software development.</p>
3.			

	Water Purification Centers	Waste Management.	Water purification generates waste byproducts that need proper handling and disposal.
		Infrastructure and Maintenance.	Aging or inadequate infrastructure can lead to inefficiencies and failures in water purification systems.
		Cost of Advanced Technologies.	Advanced purification technologies, such as reverse osmosis or advanced oxidation processes, can be expensive.

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