



NAVIYASUITE[®]

INTEGRATED ENTERPRISE IT SOLUTION FOR
SMART CITIES & CONVERGENCE PROGRAMS



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Introduction to Smart Cities

The ministry of housing and Urban affairs, Government of India have launched the Smart City Initiative for 100 cities with objectives of City Improvement (Retrofitting), City renewal (Redevelopment) and city extension (greenfield development). The initiatives include –

- Creation of housing and inclusiveness for all.
- Giving a brand identity to the city.
- Making Governance citizen friendly and cost effective.
- Applying Smart solutions to infrastructure.
- Promoting Eco-friendly solutions to major problems like transport, preserving open spaces etc.

Mission and Objectives

- Long term Planning, followed by Execution of Strategic Projects for achieving great improvement in various sectors likes Transport (Metro & Multi Modal),Infrastructure, Environment, Housing, eGovernance, Social Development (R&R),Water supply and Sanitation and Innovation.
- Promotion of new growth centres.
- Robust IT connectivity and digitization.
- Convergence of the Smart City Program with AMRUT, Swachh Bharat Mission (SBM), National Heritage City Development and Augmentation Yojana (HRIDAY), Digital India, Skill development, Housing for All, construction of Museums funded by the Culture Department and other programs connected to social infrastructure such as Health, Education and Culture.

Why IT Enterprise Solutions for Smart Cities?

Requirement of IT Application– NAVIYASUITE

- This initiative involves the biggest consultation exercise undertaken by MOUD with requirement for participation of multiple stake holders.
- The design and implementation of the initiative will be done by examining and adopting global best practices.
- Program involves multiple stakeholders and hence bringing the entire eco system under one umbrella will be a critical success factor.
- An end to end IT enterprise solution will be one of the critical success factors to manage the entire life cycle of planning and execution engines.

- The IT solution should be user friendly, robust, scalable and secured to bring a common e-program execution in the entire life cycle.
- Real time visibility and transparency of the progress to proactively identify the deviations and exceptions.
- Estimation Techniques, predictive analytics (BI) and seamless communication across the complex vendor eco system and life cycle are the other critical success factors.
- The program is completely data centric and hence an E-DMS (Document Management system) for collection, processing, storage and retrieval of information is absolutely critical.
- Implementation of standard templates, metrics, operating procedures, for creating virtual primary supplier role(SIAM-Service Integration& Management) to monitor and control SLA's, OLA's & KPI's.

About Ceaselez

Ceaselez Consulting LLP was established by an industry veteran and consultants across different industries, having thirty years' experience in the IT Industry. Their time in the industry was fraught with many challenges due to lack of processes, systems, tools and metrics. Their experiences with these problems lead them to conceptualize solutions to overcome these challenges and constraints and come up with Ceaselez. One of the primary loopholes and constraints they found is the lack of proper strategy implementation – This is very critical for any business to align mission and vision with its operations. Ceaselez offerings are unique because they offer consulting services combined with their privately owned industrial solutions (Four products) and using these solutions, Ceaselez helps in designing, building and implementing IT solutions for end to end Business Operations. These IT solutions will help businesses in driving their performance, productivity & profitability.

VENKATESAN PADMANABHAN (Venkat) – CEO & PRINCIPAL CONSULTANT

Venkat is the founder of Ceaselez Consulting LLP and is currently heading the company as Principal Consultant & CEO. Venkat's vision led to the growth of Ceaselez by leaps and bounds globally.

Venkat was working for Tieto heading the global solutions for all Large & Strategic deals. Prior to this he was Global Head of Transition & Service Performance across all large deals. He has significant experience in the marketplace of the Nordics.

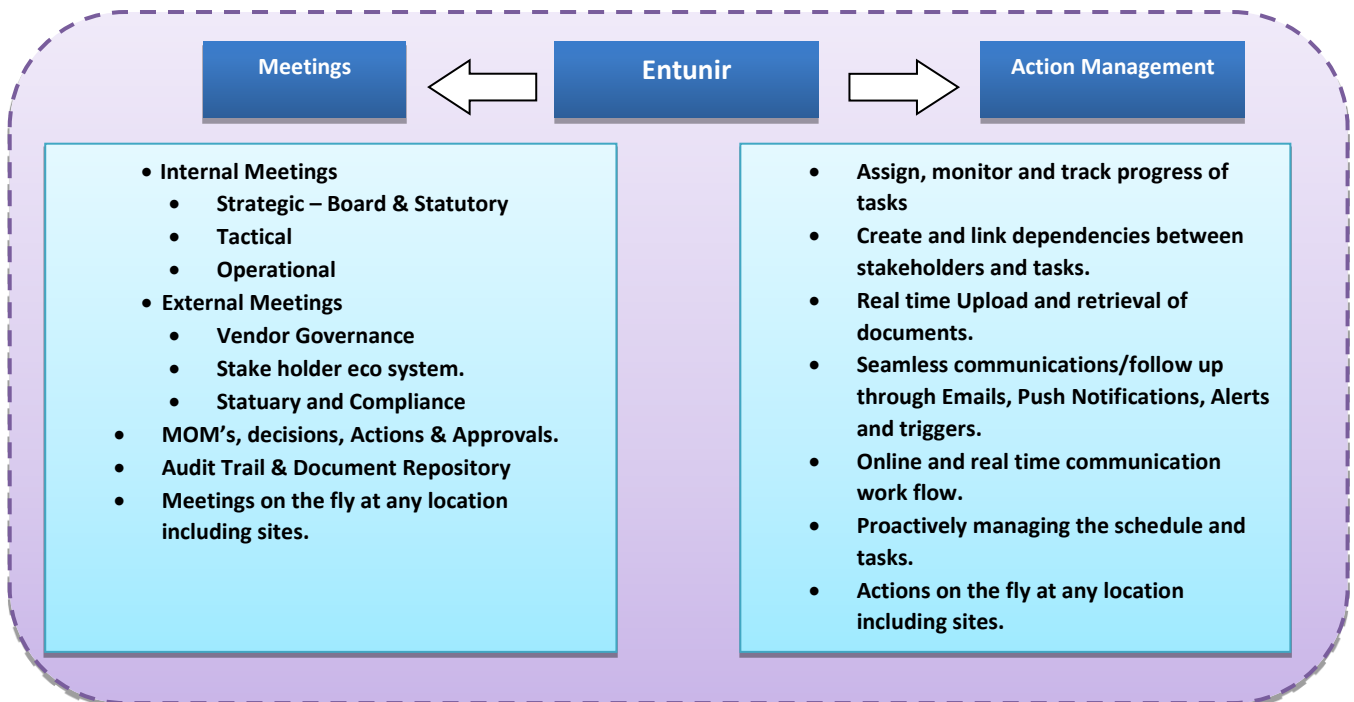
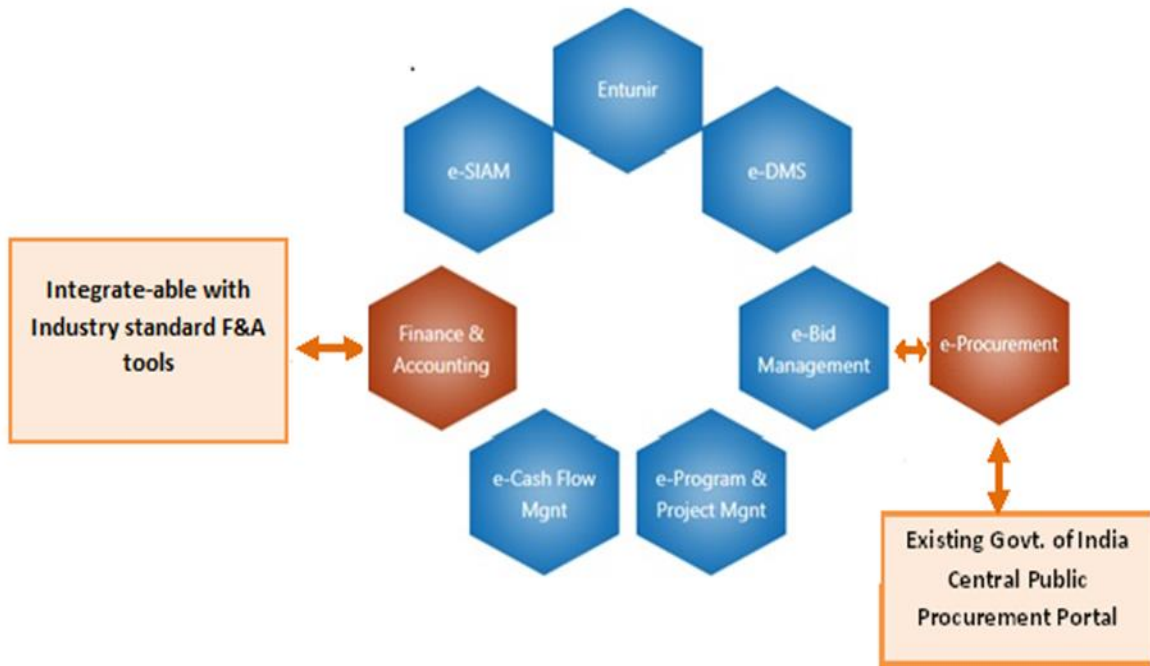
Prior to joining Tieto, Venkat worked with Logica (now CGI) for more than 10 years. He was heading the global application management operations across 9 European countries & 4 offshore locations (10,000 employees and revenue around 900 million GBP per annum). He also held various global management roles which included end to end service delivery for mega programs, large complex transition & transformation for AON, AB Inbev, Michelin, Nokia & many other clients. He was instrumental in the success of outsourcing delivery &

growth in these assignments. Consequently, he gained extensive experience working in the European market.

Prior to joining Logica, Venkat served as General Manager- Projects & Business development for Idea Space Solutions in USA (Independently setup & managed the country operations in USA) for 4 years. Before Idea Space, he was heading the IT for a business conglomerate (one of India's largest) & worked with other reputed IT firms in various consulting roles. He thus has a vast experience close to 3 decades in the industry (with 14 years abroad).

Venkat has been working on the requirements of Smart cities over the last three years and conceptualized his products to also support the implementation of the Smart City initiative. One of the pillars for India's growth rests on a robust and successful implementation of Smart cities where Urbanization is viewed as an opportunity and urban centres should be viewed as growth engines. These schemes involve perhaps the biggest consultation exercise undertaken by the union Government involving multiple Stakeholders through examining global best practices. So Venkat wants to bring his three decades of consulting experience bundled with NAVIYASUITE, a tailor made end to end IT solution for successful execution of smart city projects.

Overview & Landscape of NAVIYASUITE IT Solution



E-DMS Document Management System

- Enterprise centralised document repository solutions – dynamic workflow update.
- Access to all stakeholders in the eco system.
- Grouping under unlimited categories (State, City, Program & Project).
- Highly secured with configurable access controls.
- Version control, indexing & retrieval.
- Static and Dynamic Upload.

E-Bid Management.

- Initial BOQ integrated from E-Procurement portal as per contract.
- Activities hierarchy – Detailed BOQ.
- Past data analytics, estimation techniques.
- Tendering Management process – Tender documents from e-procurement.
- BOQ drawings, GFC drawings, AS-built drawings.
- BOQ revisions.
- Common final BOM template for all stake holders.
- Contractual Scope, LOI & PO's.

E-Procurement

- *Existing Government of India central public procurement portal* - The Scope of Smart city and convergence projects will be integrated to Project execution engine through NAVIYASUITE Solution E-Bid Management module.

E- Project Management and Execution

- Creation of programs PAN India, States and Cities.
- Creation of projects.
- Project initiation and kick-off.
- Project Budgeting.
- Resource Allocation (People & Material) & Utilization.
- Creation of third Parties and sub projects.

- Labour attendance
- Internal and external activity planner
- Dependencies
- Progress update and tracking – DPR/WPR/MPR.
- Project Scope change
- Project Financial status – Budget versus actual expenses.
- Project closure, handover
- Maintenance

E- Cash flow Management

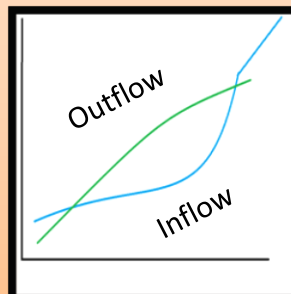
Inflow

- Source of funds – SPV's and others.
- Program & Project planned inflow – source wise with milestones.
- Program & Project actual inflow – source wise with milestones.
- Planned versus actual – overdue, due for today, due for a defined future period.
- Integrated to program and Project Budget

MBG

PBG

RBG

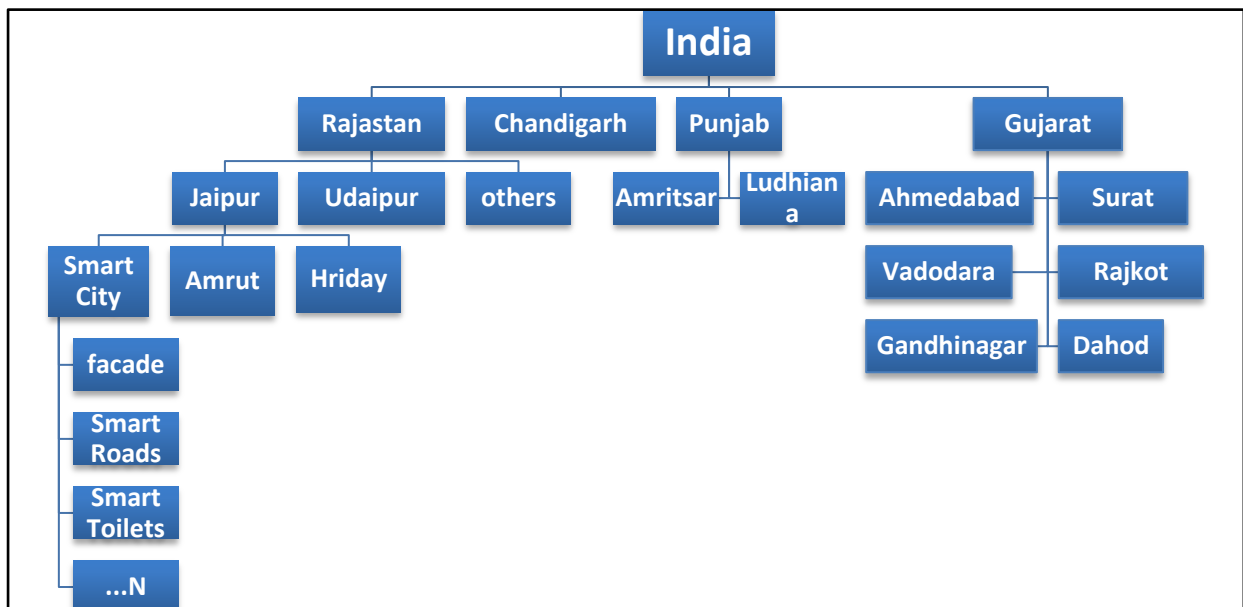


Outflow

- Work Orders.
- 3rd Party & Vendors Running Bills
- Approvals and Certificate of Payment.
- Tax Invoices.
- Schedules and payments.

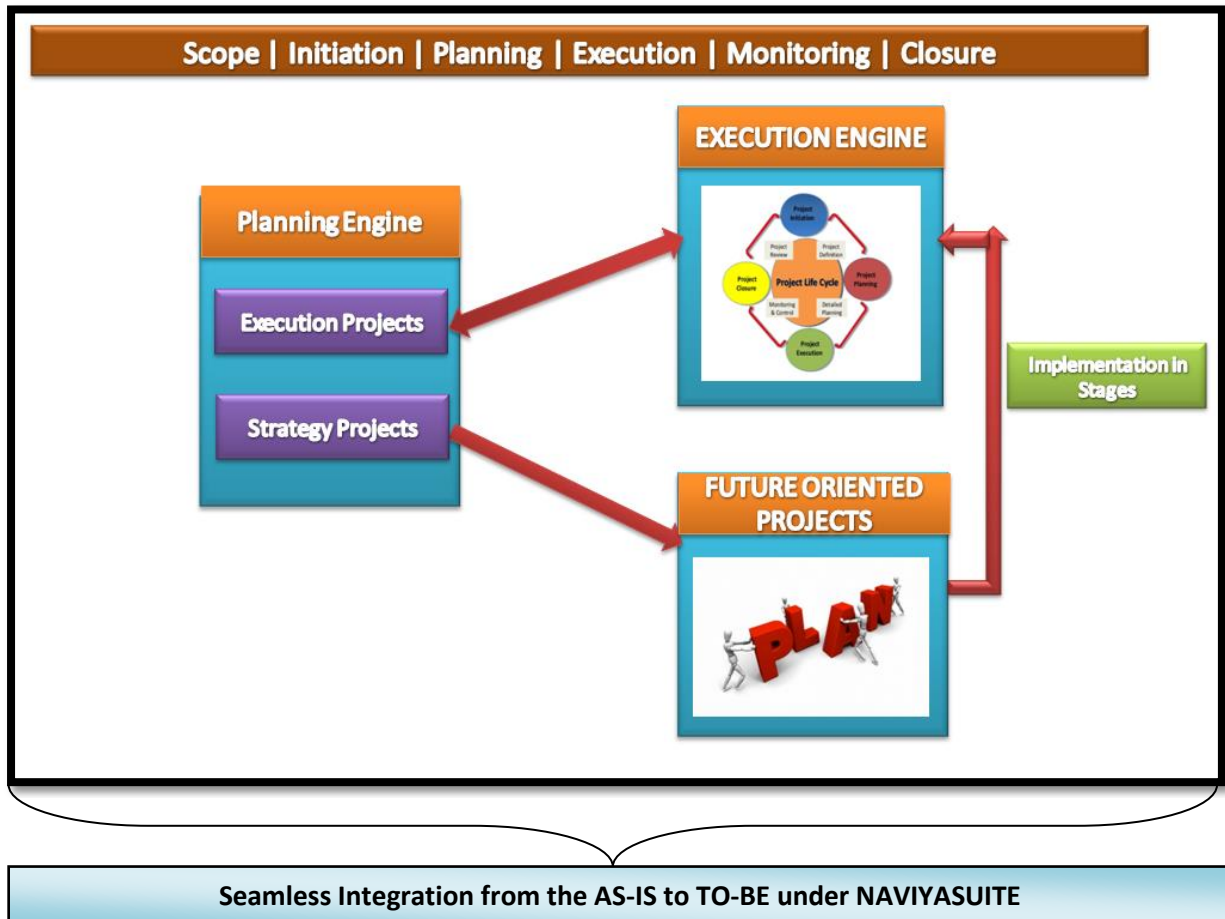


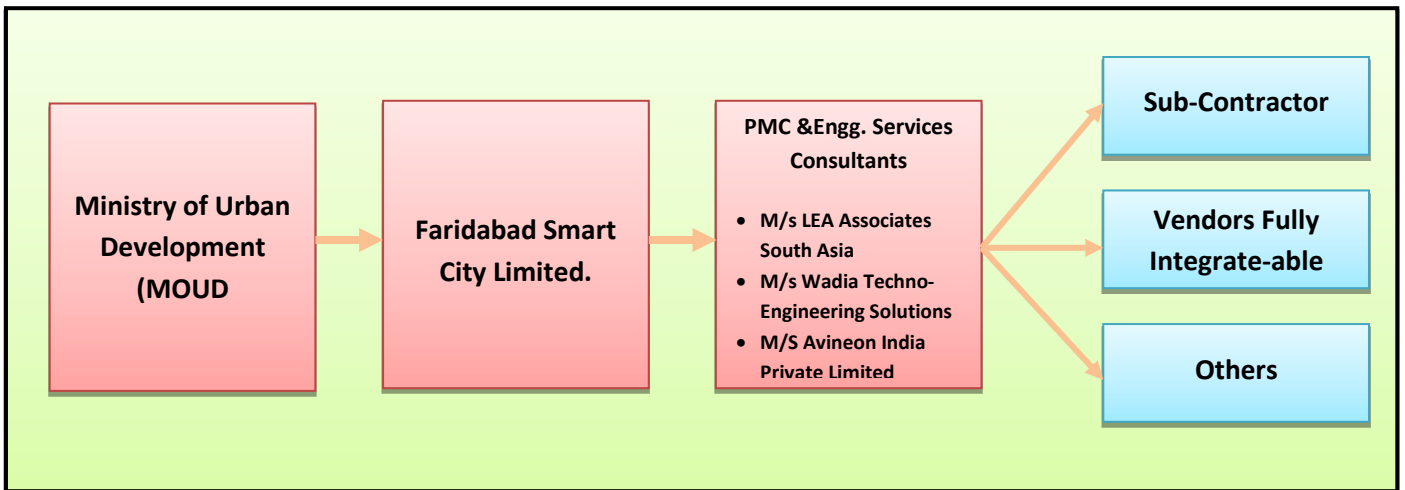
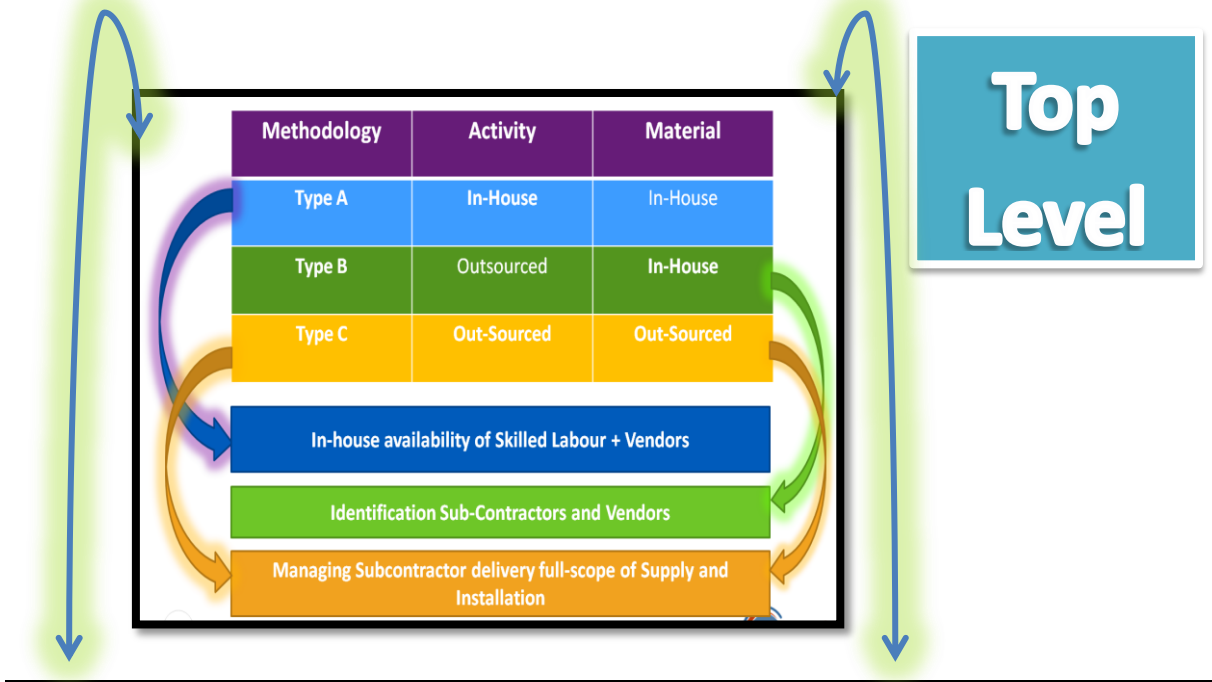
How NAVIYASUITE can support implementing programs across India



NAVIYASUITE is an End – End Integrated Intelligent & Analytical Solution

NAVIYASUITE Project Implementation Framework





Example – How all Stakeholders are managed under one Umbrella? And thus enabling implementation of standard processes, methodologies, tools & templates using NAVIYASUITE

Highlights and Benefits

- An ideal end-end integrated IT application for Smart City & Convergence Projects
- The IT Application is a complete end to end solution covering the entire project life-cycle from tendering phase to project closure and maintenance.
- Advanced analytics, controls, alerts and triggers.
- Works in a stakeholder eco-system and all stakeholders involved in the Smart City Project life-cycle will use the same application. This will ensure common templates, processes and also tracking accountability of all.
- Secure and Reliable Solution.
- Strict Controls and Access levels.
- Easy to integrate with existing tools and plugins with little customization required.
- NAVIYASUITE is also available on mobile app – both android and IOS.
- The cost of NAVIYASUITE Plus implementation can be shared by various stakeholders involved in the execution of smart city projects. The proposed financial model is designed with contribution from various stake holders and articulating the ROI and benefits.