

Oracle's Primavera Smart City Solution

Operational excellence through transformational projects

Globally, more people live in urban areas than in rural areas, with 54 percent of the world's population residing in urban areas in 2014. In 1950, 30 percent of the world's population was urban, and by 2050, 66 percent of the world's population is projected to be urban¹. City infrastructure, established during the previous century, was not designed to cope with the rapid increase in population density. In many instances, established infrastructure has reached the end of its economic life and is in need of an upgrade or replacement. Yet in others, like developing economies, there's an urgent need to plan for greenfield cities. Regardless of whether a mature or emerging economy, city leaders face revenue challenges, reductions in staff, and an increased expectation from the citizens for excellence in service delivery.

Challenges facing the Smart City

Smart city transformation initiatives could easily span 5 to 15 years, transcending multiple election cycles for officials. Defining a Smart City transformation roadmap at the outset of the initiative will guide the city administration to achieve the big picture outcomes originally envisioned for the city.

Transformation initiatives identified in the roadmap could cross many of the city's responsibility, like energy, telecommunications, transportation, water, health and public safety. Coordinating investment across these areas and eliminating wasteful duplication of effort could prove a key success factor in the transformation. Prioritizing identified initiatives and developing project plans, milestones and evaluation metrics to assess progress must be formalized and monitored on an ongoing basis.

Cities face significant global and local competition for obtaining finance for their transformational projects and infrastructure development. Public infrastructure investments often attract multiple funding sources ranging from donations, foreign direct investment (FDI), Public Private Partnerships (PPP), development financial institutions and self-funding. Investors require not only investment grade projects but also traceability in how funding was appropriated to projects and vendors. Sound financial management and governance must be implemented and maintained across the project life cycle of the smart city transformation initiatives.

A proven portfolio management & project delivery solution for Smart Cities

As an associate member of the Smart Cities Council, Oracle has developed a Smart City Platform to accelerate transformation for its public sector customers.

Adding to the already well-established Oracle Smart City Platform, the Oracle Smart City Project Portfolio Management (PPM) modules provide city administrators with a

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"rapid and unplanned urban growth threatens sustainable development when the necessary infrastructure is not developed or when policies are not implemented to ensure that the benefits of city life are equitably shared"

As the world continues to urbanize, sustainable development challenges will be increasingly concentrated in cities, particularly in the lower-middle-income countries where the pace of urbanization is fastest. At the same time, cities offer opportunities to expand access to services, such as health care and education, for large number of people in an economically efficient manner. Providing public transportation, as well as housing, electricity, water and sanitation for a densely settled population is typically cheaper and less environmentally damaging than providing a similar level of services to a predominantly rural household. Urban dwellers also have access to larger and more diversified labor markets, and enjoy healthier lives overall

United Nations, Department of Economic and Social Affairs, Population Division (2014).
World Urbanization Prospects: The 2014 Revision, Highlights

proven public infrastructure project delivery and facilities maintenance platform.

The Oracle Smart City PPM platform is focused on three main objectives to ensure that sustainable public infrastructure life cycle management can be achieved

- Align the project portfolio with the Smart City transformation agenda
- Ensure operational excellence in project delivery
- Enable sustainability of infrastructure through maintenance

The Oracle Smart City PPM platform is a complete solution built on high performance Oracle technology.

Key characteristics of the Oracle Smart City PPM solution

Smart City infrastructure projects can range in complexity from small low value initiatives to complex long duration projects with global supply chain requirements. In response to these requirements, the Oracle Smart City PPM solution is based on Oracle's Primavera applications, proven in large capital and infrastructure development projects in the private and public sector for over 30 years.

The solution deals effectively with the complexity of working across multiple verticals or responsibilities in the city through its easy to use web based interface. Role based security models allow for the deployment of the solution to all role players associated with the Smart City transformational projects while maintaining strong governance on business processes and workflow related changes and approvals. The solution's ability to manage a program level critical path schedule across multiple projects simplifies the co-ordination of delivery dates and milestones between various contractors and suppliers.

Primavera Analytics enable the city administration to monitor trends in project performance and implement timely corrective action and course correction based on identified metrics and KPIs.

In addition to a traditional on-premise deployment, the Oracle Smart City PPM solution is available as a Software as a Service (SaaS) offering from Oracle. The SaaS model presents the Smart City with a cost effective deployment model leveraging the advances in cloud computing to rapidly scale the solution across the city.

Project team members and managers can leverage the mobile applications on smart devices to status project tasks in the field or access analytical data remotely. The mobile technology rapidly improves on operational efficiency through the elimination of double administration.

¹ United Nations, Department of Economic and Social Affairs, Population Division (2014). *World Urbanization Prospects: The 2014 Revision, Highlights (ST/ESA/SER.A/352)*.

ABOUT ORACLE'S PRIMAVERA

Oracle is the leading worldwide provider of project portfolio management solutions for project-intensive industries. Oracle's Primavera enterprise project portfolio management applications help public sector organizations propose, prioritize, and select project investments and plan, manage, and control the most-complex projects and project portfolios.

Oracle's solutions are in use globally by governments and public sector agencies, bringing about faster transformation through better project management performance and control.

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Primavera P6 EPPM
 Primavera Analytics
 Primavera Unifier
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 Project risk management
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 Project documentation management

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