

06-03-2014



Public Works Management System for Corporation of Chennai – Case Study

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Technology for Social Change



Introduction

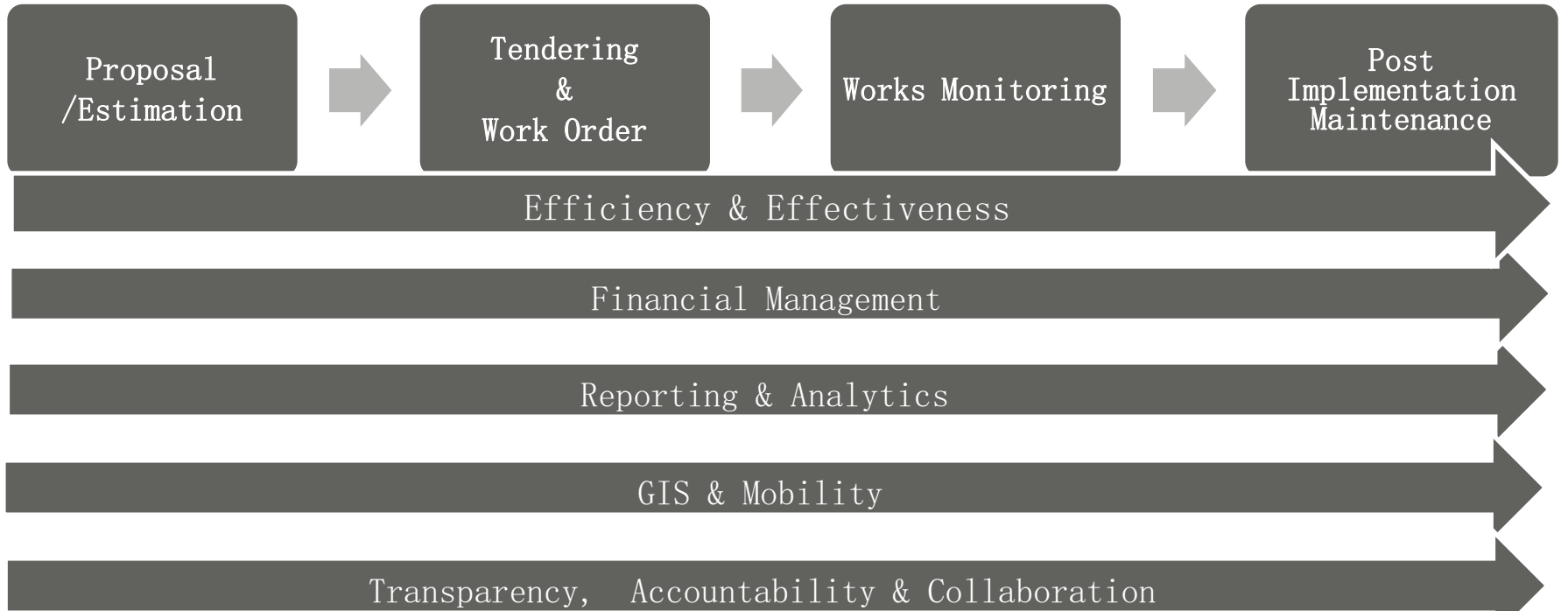
- Public Works Management System as a Solution for managing the public works of Government Bodies
- Solution was partially rolled out in 2010
- Full Rollout in Corporation of Chennai in April 2013
- Discussion on Corporation of Chennai implementation



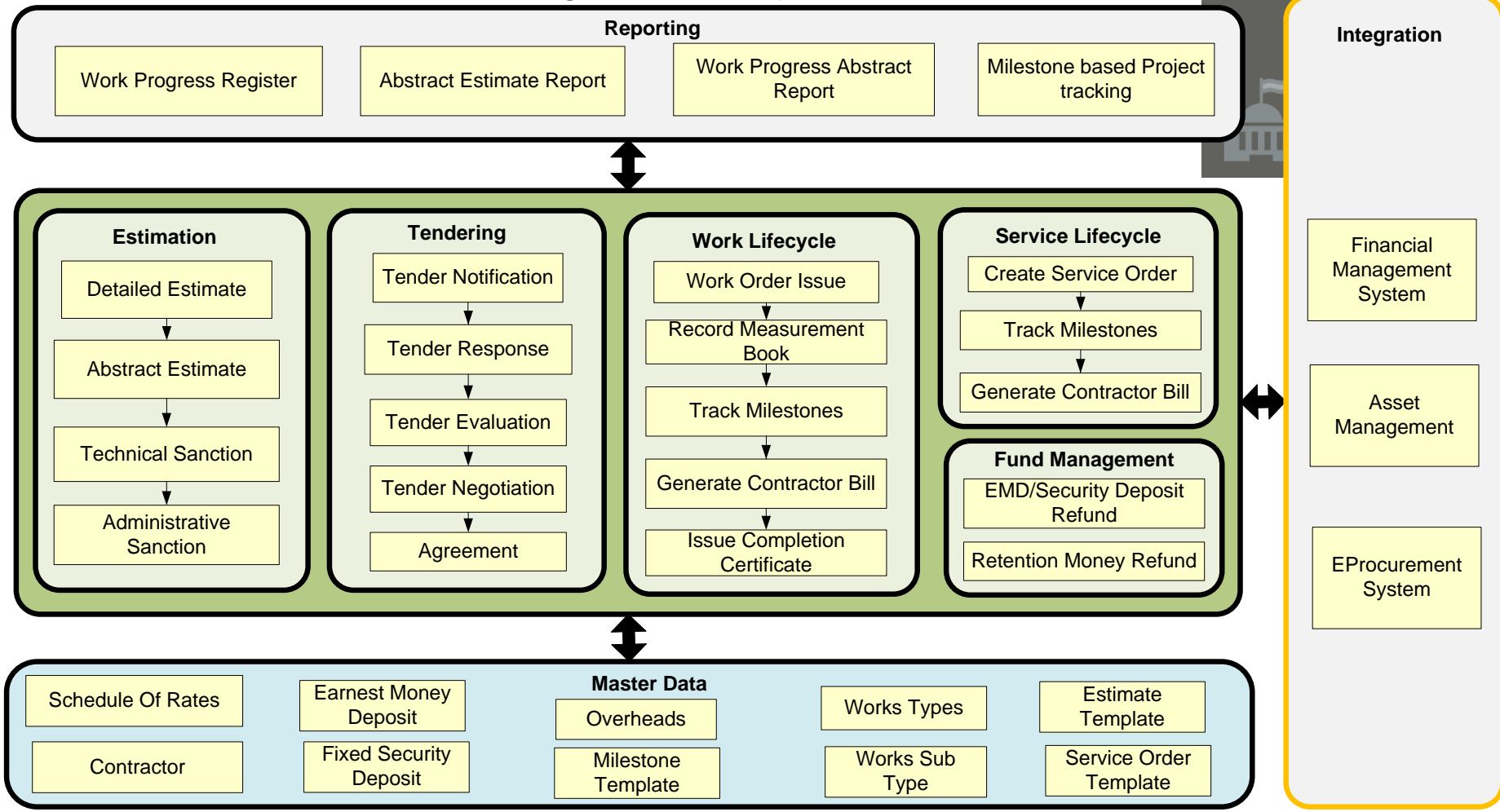
Agenda

- The Solution
- Timelines
- Usage & Benefits
- Impact
- Future
- Challenges & Learnings

Works Management System



Public Works Management System - Overview





Timelines

- All Estimates and Contractor Bills in System – April 2010
- April 2013 – All Measurement Book readings in the System
- Aug 2013 – Complete Process in the system

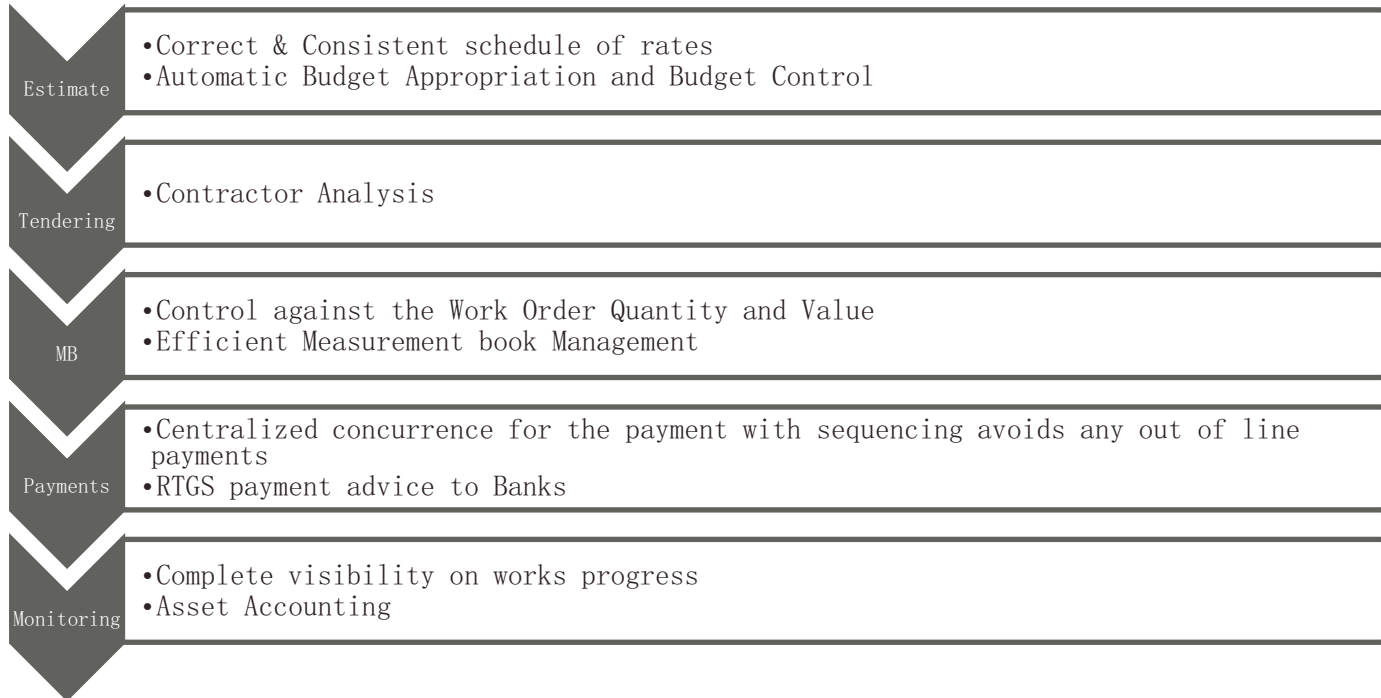


Usage *Data from Implementation in Chennai FY13-14*

- 19,310 estimates amounting to 2,646 crore approved
- 14,423 Measurement book entries recorded
- 10,645 work orders amounting to 2,928 crore generated
- 971 crore payments approved from the system
- Used by over 750 employees across 20 locations



Benefits





The Impact

*Data from Implementation in Chennai
FY13-14*

- Average estimate approval cycle reduced from 7-10 days to 1-2 days
- Over manual 1500 budget control registers eliminated
- Reduction in measurement book management from 2 hours to 15 minutes
- Road Cut process works online

Efficiency Gains of 80 man years. Equivalent to adding that effort in planning, decision making and ensuring quality work or adding 80 more engineers
*The impact of **real time availability of accurate information used to make key executive decisions is difficult to measure***



Replication

- Nagpur Municipal Corporation went live in 3 weeks
- Proof of concept for a major water supply and sewage board in one week



Future

- In Progress
 - Tender Analysis: Link to Market Rates
 - Open data to Public for Transparency & Accountability
 - Tablets/Mobile : POC completed
 - Road cut works reengineering
- Later
 - Public Works Coordination between agencies
 - Preventive Asset Maintenance: Implementation schedules
 - Participatory Democracy: Decision Making



Challenges

- Change in Leadership
- Resistance
- Capacity Building
- Making the change permanent



Learnings

- Commitment from the top
- System should aid in improving the efficiency of the end users
- Executives should rely on the system for their decision making
- Incremental rollout – Depending on the org. readiness
- Standard practices across different government departments – Product based approach will work

Thank You

Let's have a conversation.