

Strategy to projectivize smart city proposals

November 24, 2016



**Smart city
implementation
is all about
creating citizen
facing solutions
that will change
the city**



Making projects happen is based on critical inputs & outputs

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**Speed of award – 9 projects in execution
and 6 where RFP released**



**Ensuring right cost and participation –
ensuring best in class vendors as partners**



**Thinking beyond just initial award i.e., O&M – 16
projects with O&M component considered**



**Holistic impact; not just awarding projects –
moving people to 1550 buses**

8 best practices to get these outputs

I N P U T S

1. Quick win projects delivered in first 12 months
2. Early attention to 4-5 most important project
3. Citizen involvement beyond phase 1
4. Vendor/ partner inputs including global
5. Right package strategy
6. Combining solutions to get maximum impact
7. Bold funding decision
8. Hiring world class team to help

Pune divided all the projects in strategic & quick wins

On-going

✓ Phase 1 completed

Prioritisation for next wave

Strategic	<div> <div>1. Place making and open spaces</div> <div>2. Street re-design (inc. footpaths, road widening, junction re-design) non-motorized street)</div> <div>3. Transit hub</div> <div>4. Solid waste management</div> <div>5. Making 1,550 buses successful for Pune city</div> <div>6. River front development</div> </div>	<div> <div>8. Public bi-cycle sharing and bi-cycle tracks</div> <div>9. Low income skill development</div> <div>10. Build affordable housing</div> <div>11. Water 24X7</div> </div>	<div> <div>1. Innovation hub</div> <div>2. Start-up hub</div> <div>3. Smart element</div> <div>4. ATCS, RLVD & e-challan</div> <div>5. ABB Area Infrastructure master-planning</div> <div>6. Electricity distribution – smart grid & metering</div> <div>7. Storm water use</div> <div>8. Waste water re-cycling</div> </div>
Quick Wins in 12 months	<div> <div>1. Pune city connect App & e-gov ✓</div> <div>2. Bus ITMS ✓</div> <div>3. Transport CCC ✓</div> <div>4. Express airport service</div> <div>5. 100 e-buses</div> <div>6. E-rickshaws</div> <div>7. Smart parking</div> <div>8. Bus stops</div> <div>9. Fire stations</div> <div>10. Rain water harvesting</div> </div>	<div> <div>11. Security ✓</div> <div>12. Sanitation ✓</div> </div>	<div> <div>1. Smart street lights</div> <div>2. Road asset management</div> <div>3. MoUD capability building efforts <div>VCF</div> <div>Property tax</div> <div>Ad. Revenue</div> </div> <div>4. Intelligent traffic management</div> <div>5. Solar energy supply</div> </div>
	Direct impact to citizens		Indirect impact to citizens

1 Good traction in quick wins

Overall progress on projects achieved across Pune Smart City

26

Consulting
hiring/pre-
feasibility

- e-buses and rickshaws
- Transit hub
- Startup hub

10

DPR/
consulting

- River front development
- Place-making
- Solid waste

6

RFP/
tendering

- Smart elements
- Automated traffic management
- Road asset management

9

Vendor
execution/
completed

- Transport Control & command centers
- Bus system ITMS
- Street redesign



2 Early push on some strategic projects is vital

Mobility overhaul



**Requires substantial
lead time and thinking**

24x7 water supply



**Maximum impact
to citizen**

Solid waste management



Needs to start early

3 Citizen involvement does not end with phase 1 – street redesign example

A

Pre-project meetings

- 500+ attendance auditorium meeting
- Separate meetings with residents & shopkeepers of the mock-up area



B

Quantitative and qualitative surveys

- Questionnaire survey for 100+ people on project willingness for residents & shopkeepers
- Surveys from 1200+ users of the mock-up



C

Reversible changes based trial for citizen feedback

- Feedback videos
- Feedback Stalls – In- person feedback registration



3 Creating buzzing streets



4 Vendor/partner inputs can fundamentally alter the solution

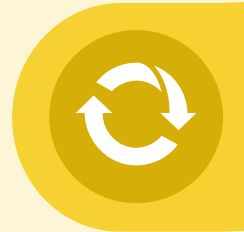
Solid waste example



Before vendor engagement

- Bin to be taken care by PMC
- Fleet by Operator
- Sensor by IT Agency
- Route optimization by IT agency

Changes made



- Moved to two tenders with
 - Bin and fleet under Operator
 - Sensor and route optimization under IT agency

4 Many global stakeholders need to get involved to bring global solutions

NOT COMPREHENSIVE

Roadshow 2016



Fire Tweet

Delegation meetings



5 Combining projects for co-ordination & scale

Identified as singular projects...



Automated traffic management system

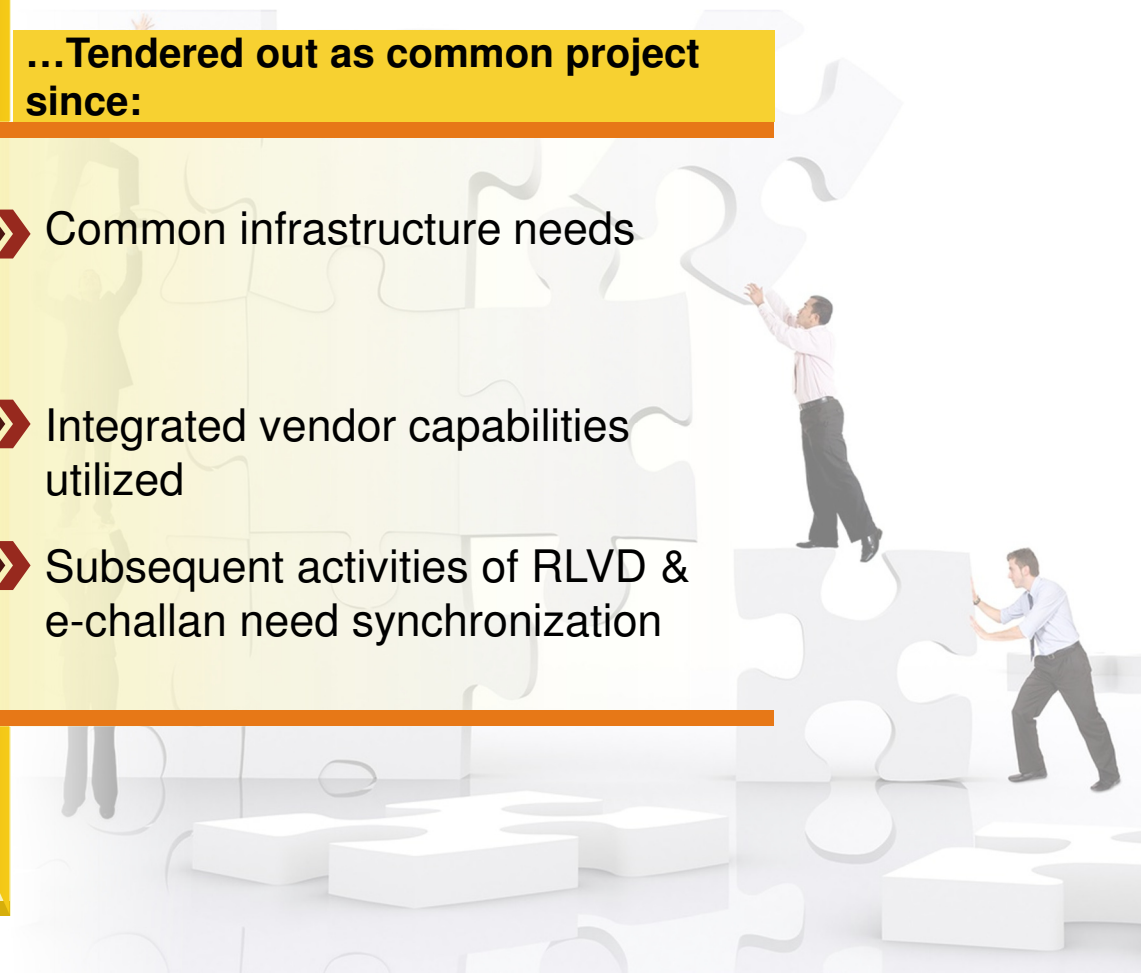
Red light violation detection



e-challan

...Tendered out as common project since:

- » Common infrastructure needs
- » Integrated vendor capabilities utilized
- » Subsequent activities of RLVD & e-challan need synchronization



6 Citizens are not looking at projects; they are looking for solutions

Elements of mobility

- 1 Passenger information systems
- 2 Increased frequency of buses
- 3 E-buses & rickshaws on feeder routes
- 4 Bus Rapid Transit
- 5 Bicycle paths & sharing

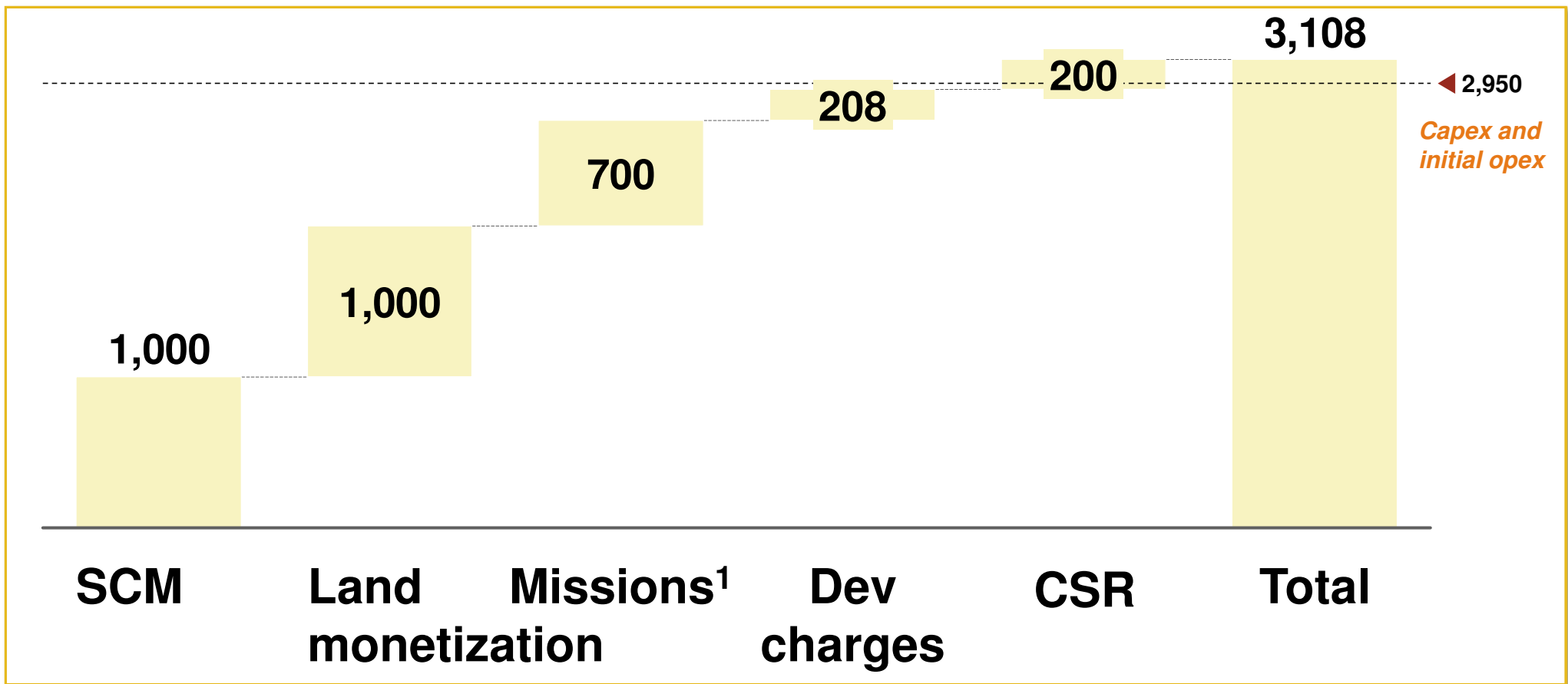
How to solve
for projects
holistically?



Work on
projects in
integrated
manner



7 Bold approach to financing



8 World class team to help



THANK YOU

