Prioritizing Urban Service Management Initiatives

Praful Gharpure Architect-Urban Planner, India

ABSTRACT

As per Census 2001, the urban areas in India account for 27.8 % of the population. About one-third of Urban India (71 million) lives in metropolitan cities. The number of such cities in India has increased from 23 in 1991 to 35 in 2001. Urbanisation is associated with increased incomes, improved health, higher literacy, improved quality of life and other benefits, at the same time it results in strain on the physical and social infrastructure.

The job profiles in the mature urban areas are driving the need for an **effective**, **efficient and economic** urban service provider. The Urban Local Bodies (ULB) i.e. Municipal Corporation and Urban Development authorities play this role and use of Information Technology via egovernance initiatives is gaining momentum in the provision of the urban services to the growing number of urban customers.

For a user of urban services, there are some basic requirements which are" *Critical to Quality"* (*CTQs*) for the service under consideration. These link to "*Voice of Customer*" (*VOCs*) in all process improvement initiatives. In the context of the current subject where the final aim is to deliver an improved urban service, the improvement measures for current processes need to be based on the needs of the end user.

This paper intends to analyse the needs of the end-user and carryout a comparative analysis of the initiatives implemented to gauge the extent of fulfilment of customer needs across the top Indian cities.

BACKGROUND

India's population rose from 350 million at the time of independence in 1947 to 1027 million in 2001. The projections are that it would go up to 1.4 Billion by 2026. This increase will be accompanied by large scale transformation in the rural-urban composition of the population. India's urbanization is 28% (2001) and is expected to reach a level of 34 % by 2021. As per Census 2001, about one-third of Urban India (71 million) live in metropolitan cities. The number of such cities in India has increased from 23 in 1991 to 35 in 2001.

India has a total of 423 urban centers managed by Urban Local bodies (ULBs). These urban local bodies are statutorily responsible for the provision, maintenance and up gradation of basic infrastructure services in areas of their jurisdiction. However these ULBs are experiencing tremendous financial stress even to operate and maintain the existing services at satisfactory levels. The job profiles in the mature urban areas are driving the need for an effective, efficient and economic urban service provider. This is due to the fact that urbanisation is associated with increased incomes, improved health, higher literacy, improved quality of life and other benefits. At the same time it results in strain on the physical and social infrastructure.

ONGOING INITIATIVES

The role of cities in country's socio-economic transformation has been proved beyond doubt. This has lead to the national level initiatives like Jawaharlal Nehru National Urban renewal mission (JNRUM) and National Mission Mode Project (NMMP).

- 1. Government of India 's Jawaharlal Nehru National Urban renewal mission aims to encourage cities to initiate improvement in existing service levels in financially sustainable manner.
- 2. The National Mission Mode Project (NMMP) for Municipalities has been initiated by Ministry of urban development with a vision for e-Governance in Municipalities. The project also aims to leverage the Information and Communication Technology (ICT) for sustained improvement in efficiency and effectiveness of delivery of municipal service to the end user.

The above initiatives focus on physical infrastructure development (JNRUM) and e – governance (NMMP) respectively. The introduction of mandatory reforms within JNRUM like process reengineering through deployment of technology solutions to enable more efficient, reliable and timely services in a transparent manner , ensure that both the initiatives complement each other.

The goal of these programmes is to equip the ULBs to provide services with reduced cost and time of service delivery processes to the end user i.e. Citizen of Urban area. In broad sense improvement of service delivery and robust maintenance / support mechanism is the intended outcome.

This paper intends to analyse the needs of the end-user and carryout a comparative analysis of the initiatives implemented to gauge the extent of fulfilment of customer needs across the top Indian cities.

VOICE OF CUSTOMER

For a user of urban services, there are some basic requirements which are" *Critical to Quality"* (*CTQs*) for the service under consideration. These link to "*Voice of Customer*" (VOCs) in all process improvement initiatives. In the context of the current subject where the final aim is to deliver an improved urban service, the improvement measures for current processes need to be based on the needs of the end user.

Some of the VOCs for Urban Services in cities are mentioned below.

- No clarity of the setup of Civic authority (Municipal Corporations)
- Poor information availability on initiatives.
- Lack of clarity on procedures.
- Time consuming processes lead to ignorance.
- Lack of accountability of officials.
- Too many agencies and overlap of work.
- Interdependencies/document exchange.
- Non availability of multiple payment modes
- Refrain from lodging service requests for want of time.

Feel left out from the decision making process.

Addressing the VOC is key in selection of the projects for implementation. In absence of the same the impact of the initiatives is diluted for the want of a user base.

QUALITY FUNCTION DEPLOYMENT (QFD)

is a tool widely used in process improvement initiatives involving Six Sigma approach. QFD involves capturing customer's input (What's) and translating them into technical solutions (How's) for the technical team to act upon. The tool also brings out the prioritised list of customer requirements and potential solutions. Figure 1 below outlines the QFD Matrix with respect to the urban service provision. The customer requirements are derived from the Voice of customer as listed above.

	Hows																			
Importance Ratings 5 - High 3 - Medium 1 - Low What's - How Relationship 9 - Strong 6 - Moderate 3 - Weak 0 - No relationship				Publications	Website	Downloadable forms	User details for other departments , RTO,Landrecord,city survey,I.Tax,	Workflow automation	Single Sign on for multiple department's online services	Interopreability	Sevice catalouge	Online request logging / IT enabled Service desk / Payments	City database /Hyperlinks to other databases	Email facility to City managers	Concept of Ownership of Infrastructure (e.g Know about Projects near your home)	Innovative Initiatives				
Customer Expecations - Wants	Easy access to City information	Customer Importance Rating	5	9	9	6	0	0	3	leasure 6	es 9	6	6	6	3	6	345	345		
	Availability of forms, process details		5	9	9	9	6	3	3	3	6	3	3	6	0	0	300	-		
	Availability of interdepartmental information for same user		5	0	3	0	9	9	9	9	3	6	6	0	0	6	300			
	Reduce cycletime of procedures		5	3	3	6	6	9	3	3	3	3	6	3	0	3	255			
	Avoid human interface in process		2	6	6	9	6	9	6	6	6	9	6	6	6	6	174	Re		
	Multiple channels for payment of dues		3	0	9	9	6	9	9	9	6	9	6	0	0	0	216	lation		
	Ease of recording voice/sugesstions		3	0	6	6	0	3	0	0	3	6	6	9	0	9	144	44 Iship		
	Ease of logging & Track service requests .		5	0	9	9	6	6	6	6	6	9	6	0	0	0	315	Relationship Totals		
	Multiple hand offs to be avoided		1	0	0	3	6	9	9	9	3	6	0	0	0	0	45	198		
	Clarity on initiatives of multiple departments opreating in city		3	9	9	6	3	0	6	6	6	3	9	3	6	0	198			
	Information on where to apply for what & what needs to be submitted		5	9	9	9	6	3	6	6	9	6	6	0	0	0	345			
	Expect my request to be resolved the first time		3	0	0	0	0	3	0	0	0	9	9	0	0	0	63			
				189	294	279	210	222	216	231	240	270	267	123	45	114				
How Important																				

Figure 1: Quality Function Deployment Matrix

QFD essentially brings out the top ranking customer needs based on the user's priority along with the top solutions ideas which the city service provider needs to incorporate while planning of the projects. As outlined in Figure 1 outline the VOC - What's linkage and highlight the relationship between the customer's wants and the probable solution approaches. The prioritization of the projects in line with the customer needs leads to the effectiveness of the program. JNURM & NMMP are aimed to complement each other to fulfil the needs of the urban citizen with projects aiming improved services. These projects fall primarily in 2 broad categories:

- 1. ICT initiatives for Local administration.
- 2. Physical Planning Projects for City with a horizon of 10 yrs.

ICT plays a key role in fulfilling the 'What's" which come out form the QFD described above. As it provided an interface for city administrator to interact with user seamlessly.

These initiatives go through 3 distinct phases of implementation:

- 1. **Provision of Static Information**: This stage is where an urban local body/ Government department has a website of its own. Citizens can access information, seek procedural details about city services, however they cannot interact with any of the process within ULB/ department
- **2. Capability for Transactional Services**: This stage is where users can carry out transactions; record their suggestions, requests online.
- 3. Creation of Online communities: At these stage ULB website provides navigation to websites of various organisations within urban area enabling the participation of citizen in developmental activities and interaction with officials & NGOs.

Comparative Ranking of Cities on service provision

QFD matrix in Figure1 above depicts the potential solutions to fulfil the customer requirements. The extent of the provision of these was gauged through the assessment of the information / features of the websites of the top cities in the country. The result of the analysis is depicted in Figure 2 below.

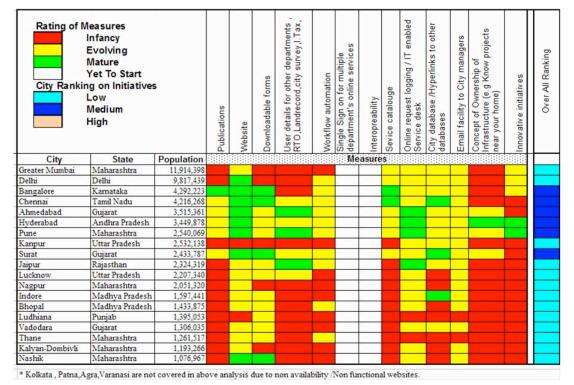


Figure 2: Matrix showing analysis

Figure 2 above brings out the following salient features

- 1. The e-governance initiatives in the major Indian cities are in state of infancy although ICT implementation is seen as prime agenda.
- 2. Initiatives like Interdepartmental information exchange through Single Sign On, Interoperability are yet to start.
- 3. Majority of initiatives with strong linkage to customer needs are evolving.
- The information provision is static as such does not gather desired customer response. 4.
- e-Governance initiatives in the different departments are carried out independent 5.
- of each other; as such the benefit of the initiatives is not fully utilised by end user. This also 6. results in non availability of information amongst departments leading to lot of rework.
- 7. Only few cities show up as providers of mature and innovative programs.
- 8. The common platform for urban service provision is missing.
- 9. Many of civic administrative bodies are not members of the Association of Municipalities & Development Authorities (AMDA) to drive a common set of initiatives across the country.

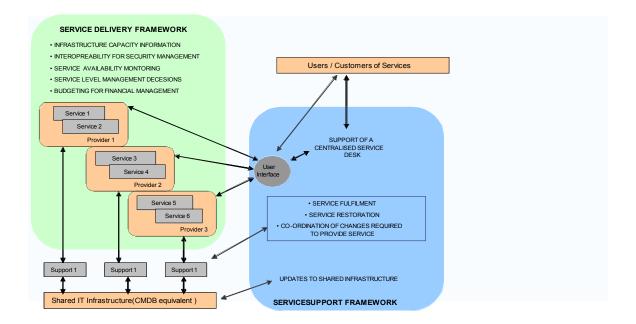


Figure 3: ITIL view of urban services provisioning

There is a need of an integrated approach for the delivery of Urban Services backed by efficient service support mechanism involving a user interface. Shared IT infrastructure and adoption of ITIL framework is one potential solution. The ITIL processes aim at achieving high financial quality and value in IT operations. At the same time it aids the optimal use of IT infrastructure. Application of ITIL framework to the provision of urban services shall result in mutual benefits to the providers as well as its users. Figure 3 provides the ITIL view of urban services provisioning.

ITIL is a set of best practices intended to facilitate the delivery of high quality information technology (IT) services. The acronym ITIL (IT Infrastructure Library) is a Registered Trade Mark of the United Kingdom's Office of Government Commerce (OGC)

CONCLUSION

Non availability of information on urban projects to citizens, lack of clarity on processes in the city administration, rework efforts for gathering/transmitting information for same user across multiple departments, endless cycle time etc are the well known grievances of the customer of civic services i.e. Urban citizen. The above discussion brings out the disjoint in the ongoing projects vs. what the citizen's desire. The investment made in e-governance initiatives shall not provide the desired benefits unless these initiatives mature from current static state to stage II mentioned above at earliest where in its users can get involved and use the service leading to wide-ranging benefits

Further prioritizing the initiatives using the customer centric approach like the one described above shall lead to rollout of solutions which shall have a user base. As we progress towards maturity of e-governance, there is a need for provision of IT enabled services in urban governance to backup the physical planning projects.

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