





- Introduction to the 12345 Public Service Hotline of Jinan
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- Definition of key indicators to measure the effects of standards
- Evaluation of the impacts of standards on noneconomic benefits
- Conclusions



1. Objectives and organization of the pilot project

The 12345 public service hotline of Jinan was chosen as the object to assess the non-economic benefits generated by standards.

The pilot project started from May 2013 and ended in September 2013. The main participants in this project include the Standardization Administration of the People's Republic of China, the China National Institute of Standardization, the 12345 Public Service Hotline of Jinan and the ISO Central Secretariat.



2. Introduction to the 12345 Public Service Hotline of Jinan





- 38 government hotline resources are integrated
- Legal, right protection services
- People's livelihood, science popularization hotline
- Traffic information service
- Fundraising enterprise services

- The service opened on 26
 September 2008
- 60 worker seats, 200 staff
- Transmitting center, return visit and polling center, quality inspection center
- More than 13,000 information, more than 6,500,000 words
- Telephone, SMS and network are handled on 24/7 basis

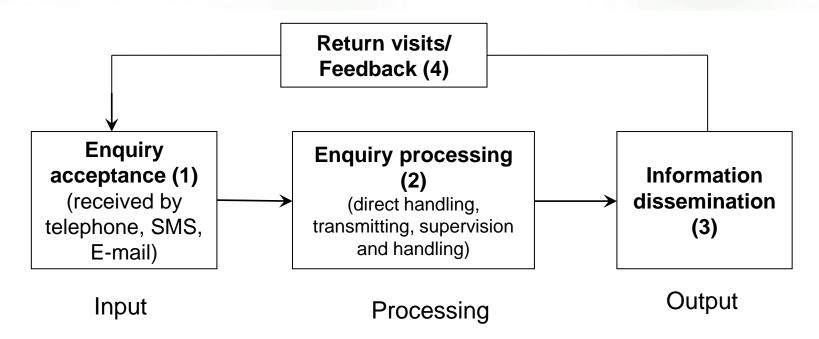




3. Scope of the pilot project and analysis of the value chain



(1) Basic business activities



Schematic diagram of the basic business activity of the 12345 Hotline service





3. Scope of the pilot project and analysis of the value chain

(2) Scope of evaluation

The basic business process of the "12345 Hotline service" includes acceptance of enquiries, their processing, dissemination of requested information, return visits of the enquiring persons.

The focus of the project is in terms of time are 2011 and 2012, the period during which standards were introduced to the service. A comparison is made before and after standards were introduced to determine and evaluate non-economic benefits generated by the standards on each business function in the value chain of the service.

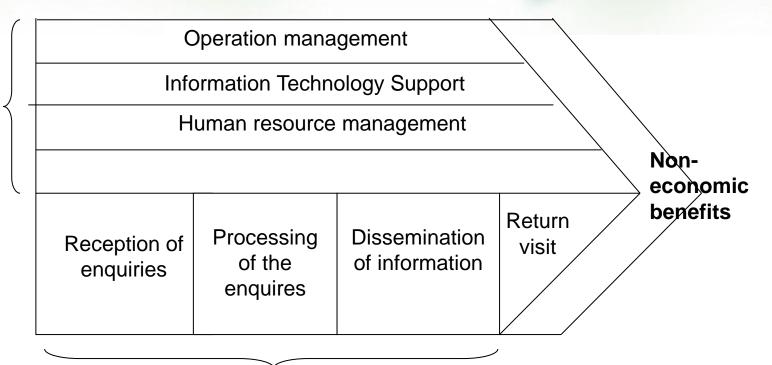
The Hotline-service is a social service. For this reason the assessment has been focused on the social benefits of standards.



(3) Value chain of the 12345 Hotline Service



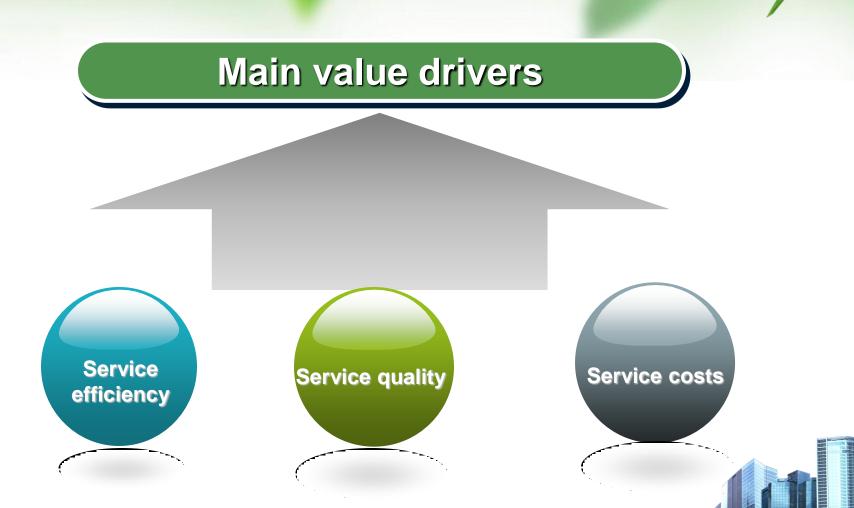
Supporting activities



Basic activities



(4) Main value drivers for the 12345 Hotline service





4. Use of standards in the 12345 Hotline Service

	Activity	Relevant standards		
	Reception of enquiries	5 local standards and 1 enterprise standard, including management specification of government affairs service center		
Basic activities	Processing of enquiries	4 national standards, 1 local standard and 1 enterprise standard, including quality management system performance improvement guidance		
	Dissemination of information	6 national standards and 1 local standard, including information security management and practice rules		
	Return visits	1 enterprise standard, including hotline service standard		
	Human resource management	2 national standards and 1 local standard, including occupational health and safety management system		
Supporting activities	<u> </u>	25 national standards,1 industry standard, 1 local standard and 1 enterprise standard, including information technology equipment safety		
	Operation management	2 national standards, 1 local standard and 1 enterprise standard, including safety sign and use guidelines		

5. Selection of key indicators to measure the impacts of the

standards

Indicators system to evaluate non-economic benefits of standards for the 12345 Hotline Service

Area	Level-1 indicators	Level-2 indicators	Level-3 indicator	
		Number of enquiries handled		
	Service efficiency	Time needed to handle the enquiries		
		Man-hour utilization rate		
		% of enquiries processed within defined time limits		
			Service skills	
		l aval af assiss	Service standardization	
Social benefits of		Level of service	Errors and responsibility complaint	
standards			Problem solving ability	
			Kindness	
		Service attitude	Service consciousness	
		Degree of satisfaction	Politeness	
		Human cost for the handling of 1,000 enquiries		
		Equipment cost for the handling of 1,000 enquiries		
		Management cost for the handling of 1,000 enquiries		

Table 2 Description of evaluation indicators

Number	Evaluation indicators	Description of the indicators				
1	Number of appeals handled	The number of civil appeals handled every day				
2	Handling time of appeals	he average handling time of each appeal				
3	Man-hour utilization rate	Call duration + busy hours) \div working hours $ imes 100\%$				
4	Handling rate as scheduled	Total number of appeals handled as scheduled \div total number of appeals $ imes$ 100%				
5	Expression and communication skills	The accepting personnel listen to and comfort the citizens, correctly guide, asking questions, explain, communicate, express, and make appropriate summary				
6	Control ability	The accepting personnel's ability to effectively control their emotion and call				
7	Service standardization	Use standard mandarin, use standard service terms				
8	Business mistake and responsibility complaint	Number of errors and responsibility complaints when the accepting personnel handle the business				
9	Problem solving ability	The accepting personnel analyze and judge problems reflected by citizens, take relevant countermeasures and matching degree to achieve a specific service objective, and put forward the solution. The acceptance of citizens and citizens' recognition of the results				
10	Specialized knowledge ability	The accepting personnel's of depth, breadth, and proficiency of knowledge required to accept the citizen's problems				
11	Kindness	Comfort and warm feelings brought by voice, speed, intonation, tone and other voice transmission effects to the listeners				
12	Polite ness	In communication service language shall be well used. Professional language training shall be provided on how to accept enquiries. Use of colloquial words shall be avoided				
13	Service consciousness	Personnel that accepts an enquiry has the consciousness and willingness to help the citizens. They can help the citizens in accordance with the standard of "three left, four improvement"				
14	Satisfaction	The satisfaction of enquiring person to hotline service				
15	Human cost for handling of 1,000 appeals	Total annual cost of human resources \div number of appeals handled per year $ imes 1000$				
16	Equipment cost for handling of 1,000 appeals	Total annual cost of equipment ÷number of appeals handled per year x 1000				
17	Management cost for handling of 1,000 appeals	Total management cost of equipment ÷number of appeals handled per year x 1000				

6. Evaluation of the impact of standard on noneconomic benefit of value chain link

Grading scheme to measure the impacts of standards: 0 to 6 points (points below shown as an example only)

Indicators	Indicator not applicable (= 0 points)	Limited impact (= 2 points)	Medium impact (= 4 points)	High impact (= 6 points)	Max. points
Indicator 1		\checkmark			6
Indicator 2			\checkmark		6
Indicator 3		\checkmark			6
Indicator 4	\checkmark				6
Indicator 5				\checkmark	6
Indicator n			\checkmark		6
	0	4	8	6	36 (=100%)

Grading scheme with points: 0 to 6 (for each indicator) \rightarrow 18 out of 36 = 50%



Table 3 Impact of standard on non-economic benefit of the basic activities of value chain

Business functions (in the value chain)	Value drivers	Evaluation indicators	Degree of impact by standards on indicators	Overall degree of impact of standards on business function
	Service efficiency	Number of appeals accepted per person a day	4	
	·	Average man-hour utilization rate	6	
		Expression and communication skills	6	
		Service standardization	6]
	Service quality y reception Service costs	Control ability	2	-
		Problem solving ability	2	
Enguin, reception		Kindness	2	73.33%
Enquiry reception		Polite language	6	. 73.33%
		Service consciousness	6	
		Satisfaction	4	
		Human resource costs for handling 1,000 appeals	4	
		Equipment costs for handling 1,000 appeals	4	
		Management costs for handling 1,000 appeals	4	



Table 3 Impact of standard on non-economic benefit of the basic activities of value chain (continued)

Business functions	Value drivers	Evaluation indicators	Degree of impact of standards on indicator	Overall impact of standards on business function	
	Service efficiency	Handling time of appeals	6		
	Service efficiency	Average man-hour utilization rate	6		
		Handling rate as scheduled	6	1	
		Service standardization	4		
		Problem solving ability	2		
	Service quality	Specialized knowledge ability	2		
Processing		Service consciousness	4	70.83%	
		Satisfaction	4		
	Service costs	Human resource costs for handling 1,000 appeals Equipment costs for handling 1,000 appeals 4			
		Management cost for handling 1,000 appeals	4		
Dissemination	Service quality	Satisfaction	6		
		Human resource costs for handling 1,000 2 appeals			
	Service costs	Equipment costs for handling of 1,000 appeals	2	50%	
		Management cost for handling of 1,000 2 appeals			
Return visit		Kindness			
	Sonvice quality	Politeness	4	759/	
	Service quality	Service consciousness 6		15%	
		Level of satisfaction	4		

		Change of	Table 4 - Evaluation of the impact of standard on key indicators					
Number	Key indicators	indicators before and after the use of Standards	No impact	Limited impact	Moderate impact	High impact	Maximum impact	Change of the key indicators because of the impact of the standard
1	Number of appeals accepted per person a day	Increase by 14.29%			4		6	Increase by 9.53%
2	Handling time of appeals	10-15 days are reduced to 5 days				6	6	10-15 days are reduced to 5 days
3	Average man-hour utilization rate	Increase by 7%				6	6	Increase by 7%
4	Handling rate as scheduled	Increase by 1%				6	6	Increase by 1%
5	Expression and communication skills	Improved				6	6	Improved
6	Control ability	Improved		2			6	A certain degree of improvement
7	Service standardization	Improved				6	6	Improved
8	Business mistake and responsibility complaint	Decrease by 10.77%				6	6	Decrease by 10.77%
9	Problem solving ability	Improved		2			6	A certain degree of improvement
10	Specialized knowledge ability	Improved		2			6	A certain degree of improvement
11	Kindness	Enhanced		2			6	A certain degree of enhancement
12	Service consciousness	Improved				6	6	Improved
13	Use of polite language	Improved				6	6	Improved
14	Satisfaction	Increase by 1.3%			4		6	0.87%
15	Human cost for handling of 1,000 appeals	Decrease by 14.55%			4		6	9.70%
16	Equipment cost for handling of 1,000 appeals	Decrease by 27.35%			4		6	18.23%
17	Management cost for handling of 1,000 appeals	Decrease by 14.60%			4		6	Decrease by 9.73%
	Total				76		102 (=100%)	74.51%



7. Conclusions

1

Standardization can ensure the quality of the public service organization, improve the service level, and effectively promote social benefits of public services

2

Non-economic benefit evaluation of standards should pay attention to the combination of quantitative and qualitative aspects

3

Public service organizations should strengthen the development and use of standards in order to further improve service efficiency

4

Pay attention to the comparative analysis of multiple perspectives, and evaluation of non-economic benefit of standard on industrial level and social macro level

