



ITU-D Study Group 1 Question 4/1 session

on economic issues in modern
telecommunication/ICT markets

*Geneva, Tuesday, 25 September 2018, 14:30 – 17:30
(Room H)*

**Setting the right goals to achieve economic-effective
national program on ICT development**

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Objective

Main objective of all of the ICT development program is the bridging the digital divide

Digital Divide

Digital divide is the inequality in the access to telecommunication services between different countries/economies, regions of one country/economies and also various social groups of the population

It arises from differences in the level of social and economic development of the countries and regions, and also from well-being of various groups of the population

Impact of New ICTs on the Digital Divide

- + Increasing the efficiency of infrastructure and resources utilization**
- + Reducing the relative price of services**
- + Increasing the capacity of networks**
- Increasing the urban/rural digital divide by the typical scenario of new ICTs implementation**
- Increasing the expenses of customers for telecommunication equipment**
- Outdating of skills in using of ICTs**

Current Programs in the Field of ICT Development in the Russian Federation

- **State program “Information Society (2011–2020)” with set of subprograms**
- **Program “Digital Economy of the Russian Federation” (2018-2024)**

Measuring the ICT environment
=
Setting up the right goals of program

Measurement the interim and final results
=
Control of program realization

Main Areas for Measurement

- 1) Technical opportunity for customers (population) to use the telecommunication/ICT services**
- 2) Use of telecommunication/ICT services by customers**
- 3) Use of infrastructure and resource**
- 4) Skills in using of telecommunication/ICT services**

Main Sources of Collection

- **Directly from contractor who works on the realization of Program**
- **Directly from operator of certain service**
- **Through the official governmental body**

Designing the Set of Target Indicators Based on the Example of Russian ICT Development Program

№	Indicators	Criterion
1	The population of the Russian Federation not covered by the TV broadcasting	The population of the Russian Federation, not included in any of the service areas: 1. TV stations: - the first multiplex of digital terrestrial TV, - analogue TV, 2. Satellite Direct TV, broadcasting of the one of the required TV channels.
2	The share of the population of the Russian Federation having the ability to receive nationwide mandatory public TV channels and radio channels, %	The share of the population of the Russian Federation part one of the service areas: 1. TV stations: - the first multiplex of digital terrestrial TV, - analogue TV, 2. Satellite Direct TV, broadcasting of the one of the required TV channels.
3	The area of the territory of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio channels TV channels (with coverage of not less than 50% of the population of the Russian Federation), thousand km ²	The total area of the territory of the Russian Federation subjects in whose coverage areas of stations DTTV terrestrial digital TV broadcasting of the first multiplex includes at least 50% of the population of the Russian Federation.
4	The share of the population of the Russian Federation having the ability to receive 20 free accessed digital channels in the places of permanent residence, %	The share of the population of the Russian Federation, covered by the one of the service: 1. TV stations: - digital terrestrial TV , - analogue TV, 2. Satellite Direct TV, broadcasting of at least 20 different TV channels on a free access basis.
5	The share of the population of the Russian Federation having the possibility for receiving of digital broadcasting nationwide mandatory public TV channels and radio channels, and covered by the emergency situations broadcasting in the places of permanent residence, %	The share of the population of the Russian Federation, covered by the stations of the first multiplex of terrestrial digital TV.

Designing the Set of Target Indicators Based on the Example of Russian ICT Development Program (continue)

№	Indicators	Criterion
6	The number of subjects of the Russian Federation, which started digital terrestrial broadcasting nationwide mandatory public TV channels and radio channels	The number of subjects of the Russian Federation, which have at least one operating DTTV station .
7	The number of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio stations (with coverage of not less than 50% of the population of the Russian Federation).	The number of subjects of the Russian Federation, in which the share of the population covered by the stations of the first multiplex of terrestrial digital TV is not less than 50%.
8	The number of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio stations (with coverage of not less than 95% of the population of the Russian Federation).	The number of subjects of the Russian Federation, in which the share of the population covered by the stations of the first multiplex of terrestrial digital TV is not less than 95%.
9	The share of the population of the Russian Federation not covered by the regional television broadcasting in the places of permanent residence, %	The share of the population of the Russian Federation, not covered by the one of the following TV services: 1. regional terrestrial analogue TV broadcasting , 2. first multiplex of terrestrial digital TV considering the condition of imposing centers of multiplexes formation for delivering the first multiplex by: a) own network of RRL or b) valid contract of lease of a satellite channel or fiber optic line.

Setting the Program Plan for Target Indicators and Indexes Based on the Example of Russian ICT Development Program

№ п/п	Indicators	Program Plan
1	The population of the Russian Federation not covered by the TV broadcasting	-
2	The share of the population of the Russian Federation having the ability to receive nationwide mandatory public TV channels and radio channels, %	100
3	The area of the territory of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio channels TV channels (with coverage of not less than 50% of the population of the Russian Federation), thousand km ²	17 125 407
4	The share of the population of the Russian Federation having the ability to receive 20 free accessed digital channels in the places of permanent residence, %	98,1
5	The share of the population of the Russian Federation having the possibility for receiving of digital broadcasting nationwide mandatory public TV channels and radio channels, and covered by the emergency situations broadcasting in the places of permanent residence, %	98,4
6	The number of subjects of the Russian Federation, which started digital terrestrial broadcasting nationwide mandatory public TV channels and radio channels	85
7	The number of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio stations (with coverage of not less than 50% of the population of the Russian Federation).	85
8	The number of subjects of the Russian Federation covered by the digital terrestrial broadcasting nationwide mandatory public TV channels and radio stations (with coverage of not less than 95% of the population of the Russian Federation).	85
9	The share of the population of the Russian Federation not covered by the regional television broadcasting in the places of permanent residence, %	1,6
№	Indexes	Program plan, total
1	The number of objects of digital broadcasting network of the 1st multiplex put into operation	5028
2	The number of centers of formation of multiplexes put into operation	83
3	The number of objects network of digital broadcasting 2 multiplexes put into operation	5028
4	The number of objects of digital broadcasting networks additional multiplexes put into operation	192
5	The number of objects broadcasting the 1st multiplex, on which construction is started (cumulative)	5028



Example of Visualization of Program Plan and Interim Results of Program

DTTV. The first multiplex

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DTTV. The first multiplex

Building stage

State

The subject of the Russian Federation

Sum total

Coverage of the population (people): 2385770 [50439] | % coverage of region: 98.58 [2.09]

№	Phase of project	The subject of the Russian Federati...	Area	Locality	Building stage	State	Coverage of t...	% coverage of region	Chan...	Transmitte...	Suspension t
1	1	Алтайский край	0	БАРНАУЛ	1	4. Exploitation	842485	34.82	27	5	
2	1	Алтайский край	Троицкий	БЕЛОВСКИЙ	1	4. Exploitation	8898	0.37	27	0.5	
3	1	Алтайский край	З	ЗАРИНСК	1	4. Exploitation	80262	3.32	27	5	
4	1	Алтайский край	К	НАЛОВИХА	1	4. Exploitation	7761	0.32	27	0.25	
5	1	Алтайский край	П	ПАВЛОВСК	1	4. Exploitation	16342	0.68	27	0.25	
6	1	Алтайский край	Т	СРЕДНЕСИБИРСКИЙ	1	4. Exploitation	33780	1.4	27	0.5	
7	1	Алтайский край	Т	ТОГУЛ	1	4. Exploitation	6282	0.26	27	0.25	
8	1	Алтайский край	Ц	ШИПУНОВО	1	4. Exploitation	16704	0.69	32	0.25	
9	1	Алтайский край	З	ШПАГИНО	1	4. Exploitation	1475	0.06	27	0.25	

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Typical Set of Indicators

- **“Preparatory” indicators (amount of spectrum, Internet bandwidth, amount of licenses, etc.)**
- **The share of population covered by infrastructure providing the certain telecommunication/ICT service at general**
- **The share of population having the ability to receive the highest as possible level of quality and quantity of the certain telecommunication/ICT service**
- **Regional dissemination of access (Inequality in the access to the certain telecommunication/ICT service between regions, urban/rural, etc.)**
- **Number of infrastructure objects put into operation for providing the certain telecommunication/ICT service**
- **“Supplementary” indicators (willingness to pay, accessibility for certain social groups and governmental bodies, etc.)**

Determination of Program Plan for Target Indicators and Indexes of the Program on ICT Development

- 1. Analysis of the current ICT environment**
- 2. International comparison (for example, ICT Development Index)**
- 3. Regional comparison (following the experience of neighboring countries, using the opportunity to use the results of regional organization work)**
- 4. Determination of the economic and socio-economic efficiency of setting the different Program plan for target indicators and indexes**

Thank you very much for your kind attention!

