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DINAMICS ANALYSIS OF THE NUMBER OF FIXED COMMUNICATIONS IN UKRAINE IN 2016-2020

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Abstract — The main problems and prospects of using fixed communications in Ukraine are considered. Annual statistical data of change their number in 2016-2020 years are analyzed by constructing multiplicative model time series. Fluctuations in the number of communications are given.

Key Terms — fixed communications, dynamic series, multiplicative model.

Modern information society has transformed previously widely used technique in rarity. To these "endangered" species in the last five years have joined fixed communications.

Thus, in early 2016 their number was 12124,6 units, and at the end of 2020 - 8445.2 units.

Table 1 shows data reflecting the quarterly number of appropriate means of communication [1].

Using of fixed phones in Ukraine reduces every year. Most people in major cities en masse refuse to landline communications [2]. There are two main reasons of this phenomenon: uselessness and high cost of services. excessive fastidiousness Ukrainian cannot be the main reason for reducing the subscribers of "Ukrtelecom", as any self-respecting company that provides services, should take into account the wish to improve the quality of their services, because "the customer is always right", and if you neglect yogi wishes - you lose it. The golden rule of the market.

Thus, the fee increases, but the quality and compliance with current requirements absent.

Construct equations of the model from which we can see that the parameter $b_I = -228,54$

is negative, in this way the amount of fixed assets due to decreasing every year [3].

Table 1

Output data

Year	Quarter	Landline communication equipment, thousand units
2016	I	12 124,6
	II	12 103,1
	III	12 014,9
	IV	11 741,1
2017	I	11 911,6
	II	11 742,5
	III	11 508,5
	IV	11 428,5
2018	I	11 279,8
	II	10 678
	III	10 463
	IV	10 124,1
2019	I	9 670,4
	II	9 462,9
	III	8 755,2
	IV	8 773,7
2020	I	8 894,8
	II	8 724,2
	III	8 603,9
	IV	8 445,2

The main reason for this decline in the number of fixed phones turned rise of mass use of mobile communication devices, which are much more convenient to use and are characterized by multifunctionality, unlike their "predecessors".

Also, the fee for landline only increased and the quality of service is not proportional to the price. According to official prices of Ukrtelekom`s services it increases for the 10 % from September until now [4].

Therefore, the number of Ukrainian who refuse from landline communication is increasing every year.

$$\hat{y} = 12822,12 - 228,54t$$

This equation was determined predictive value of the number of landline communication on a quarterly basis in 2021 (table 2):

Table 2

Forecast of the number of landline communication equipment

Year	Quarter	Landline communication equipment, thousand units
2021	I	8 022,880526
	II	7 794,345338
	III	7 565,81015
	IV	7 337,274962

In this way, at table 2 we see that the tendency to reduce the number of fixed telephones will continue to persist, if not carried out some upgrading equipment or offered good deals for customers.

Thus, you can pay for the Internet and for using the landline phone can be included in one package [5]. Another option for Ukrainian Ukrtelecom is totally get a mobile and internet connection to be competitive in the market.

Graphically change tend shows the number of the landline communication, that we can see in the Fig. 1.

To cut a long story short, analyzing the statistical data on the number of fixed-line communication facilities in 2016-2020 GG it can be concluded that the number is shrinking every year, this decline can be explained by

moral exhaustion of the landline phones and unreasonably high prices for use.

If Ukrainian government does not intervene in the present course of events, the downward trend will persist, which was determined with the forecast for 2021.

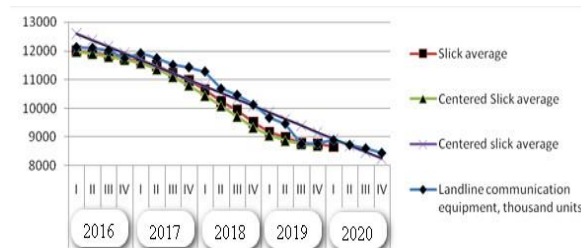


Fig. 1. Trend of changing the number of fixed means of communication

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