

## Overview of the Georgian Telecommunication System

### Backbone Cable Systems of Georgia

1. Fiber-optic cable backbone of "Fopnet" LTD;

2. Radio-Relay digital line of Poti-Kutaisi-Tbilisi;

3. Fiber-optic cable backbone along the railway line;

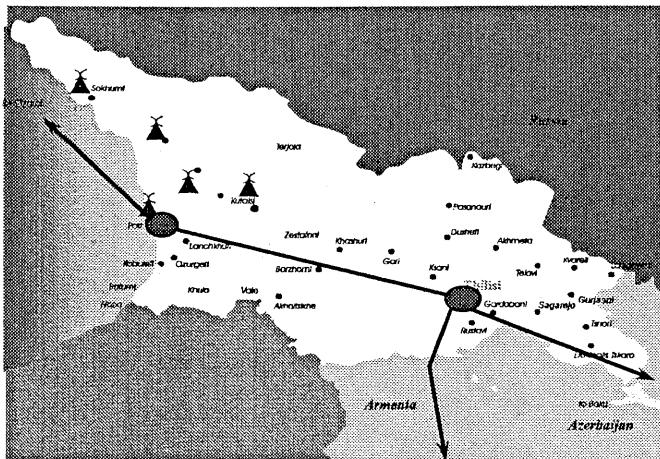
4. Fiber-optic cable backbone along the Baku-Tbilisi-Ceyhan oil pipeline;

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### Fiber-Optic Cable Backbone of "Fopnet";



Backbone is 100 % private property.  
Cable is inserted by the Greece Credit and total amount of credit is 16.5 million USD.  
Credit covering started from September 2002.

The backbone has a transit function from 2000. Nowadays main load is from Azerbaijan and Armenia to Europe and vice versa.

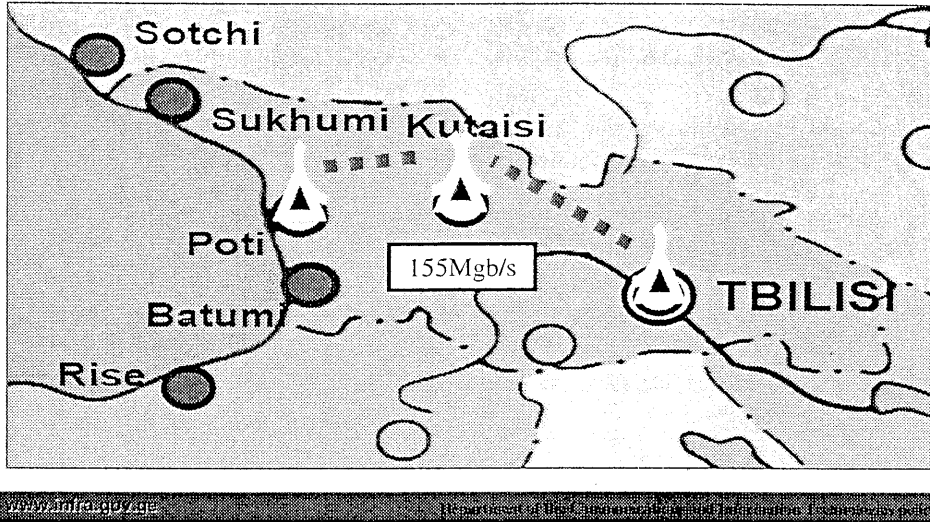
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*Radio-relay Line of "Georgian Telecom"*

Radio-relay line is a property of "Georgia Telecom" LTD, with the 51% of the state share

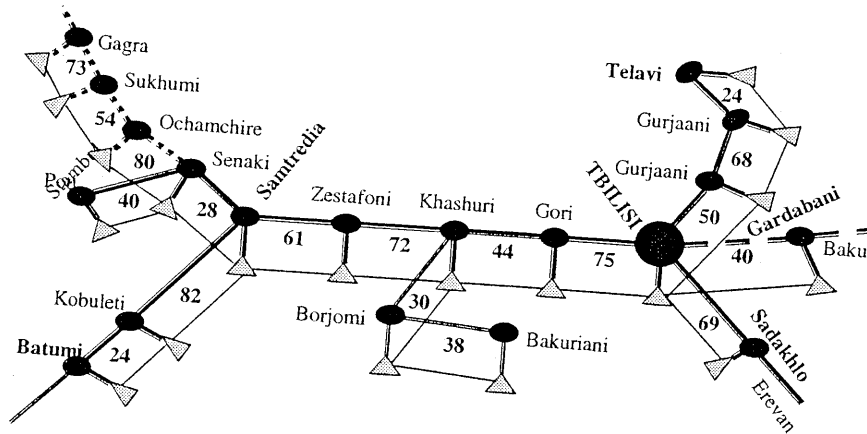


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*Fiber-optic Cable Backbone Along the Railway Line*

Fiber-optic cable backbone was created by the support of the European Union grant.

Backbone length – 540km



Backbone is fully (100%) the state property

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### *Backbone Cable Systems of the Black Sea Basin*

1. Trans-Asia-Europe fiber-optic cable system (TAE);
2. Black sea submerged fiber-optic cable backbone (BSFOCS);
3. ITUR - Italy-Turkey-Ukraine-Russia submerged fiber-optic cable backbone;
4. Romania-Turkey submerged fiber-optic cable backbone - KAFOS.

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### *Trans-Asia-Europe Fiber-optic Cable Backbone (TAE)*

Working on the huge fiber-optic cable backbone project of Trans-Asia-Europe (TAE) began in April 1992 with the initiative of German "Bundes Telekom" and Chinese communication administration.

The issue of the backbone's passing through Georgia was considered in 1994 by the initiative of the Communication Administration of Ukraine and in November the same year the new route had been approved that crossed the territory of our country. "Telecom Georgia" represented Georgia in the mentioned project.

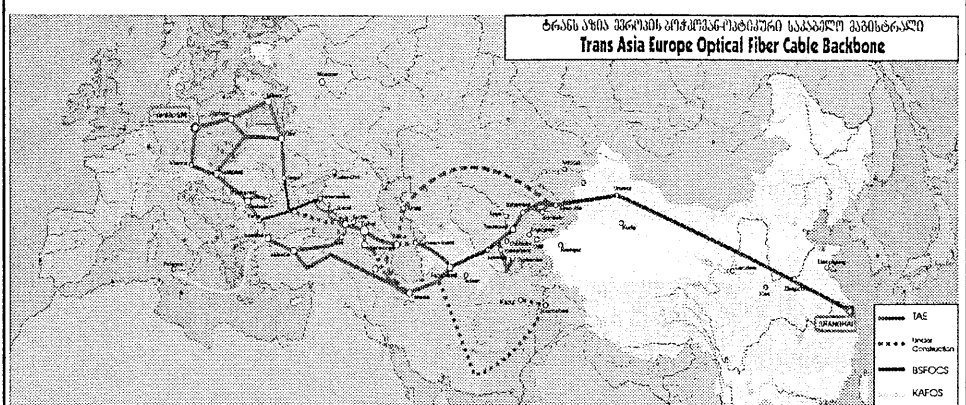
In 1998 The Ministry of Communication and Post made a decision to change the representative of Georgian side in the project. So "Eurasel" LTD became the representative of Georgia instead of "Telecom Georgia" LTD.

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*Trans Asia Europe Fiber-Optic Backbone*

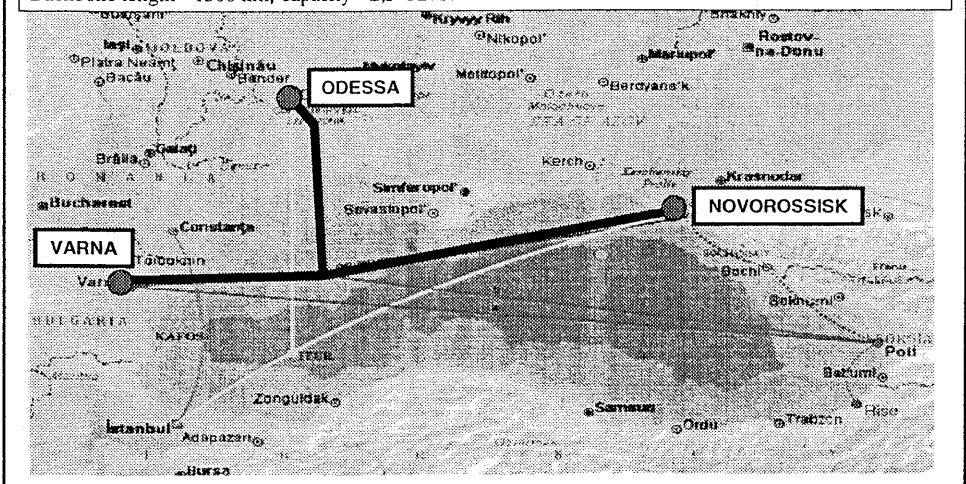


Backbone connects Frankfurt (Germany) and Shanghai (China).  
 Countries in project – 20.  
 Total length of the backbone on the territory of Georgia is 678 km.

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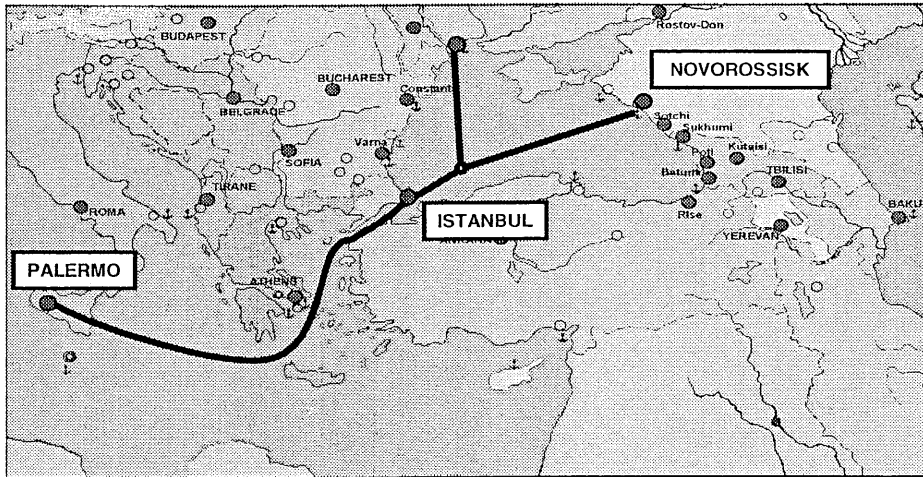
*Black Sea Submerged Fiber-Optic Cable Backbone*

The basic agreement was signed in 1999. Put into operation - 2001.  
 Backbone length - 1300 km, capacity - 2,5 GB/S.



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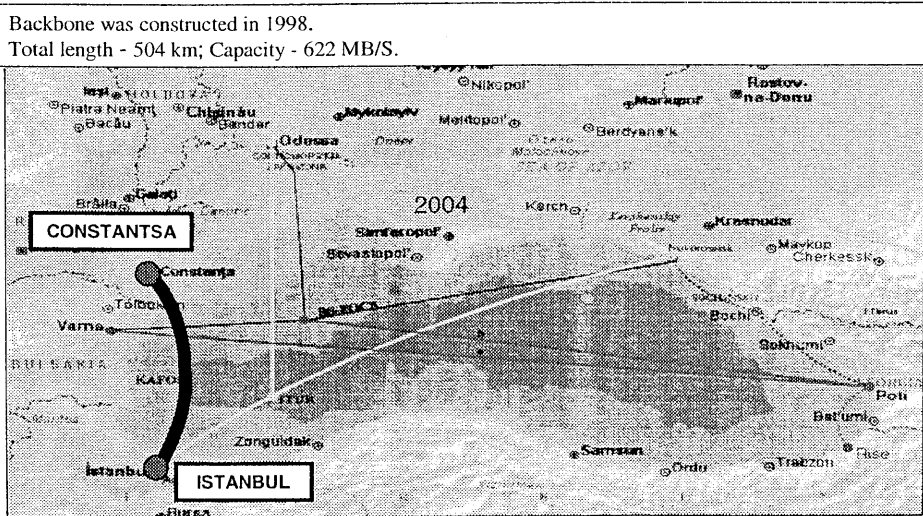
*ITUR - Italy-Turkey-Ukraine-Russia Submerged Fiber-Optic Cable Backbone*



Backbone was constructed in 1999.  
Total length - 3420 km; Capacity - 2,5-10 GB/S.

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*Romania-Turkey Submerged Fiber-Optic Cable Backbone - KAFOS;*



Backbone was constructed in 1998.  
Total length - 504 km; Capacity - 622 MB/S.

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### *Prospective Directions of Backbone Cable Systems' Development in Georgia*

1. Poti-Rize submerged fiber-optic cable backbone;
2. The Connection line with Black Sea fiber-optic cable backbone (BSFOCS);
3. Fiber-Optic cable backbone along the high-voltage lines;
4. Fiber-optic cable backbone along Tbilisi-Baku-Ceyhan oil pipeline;

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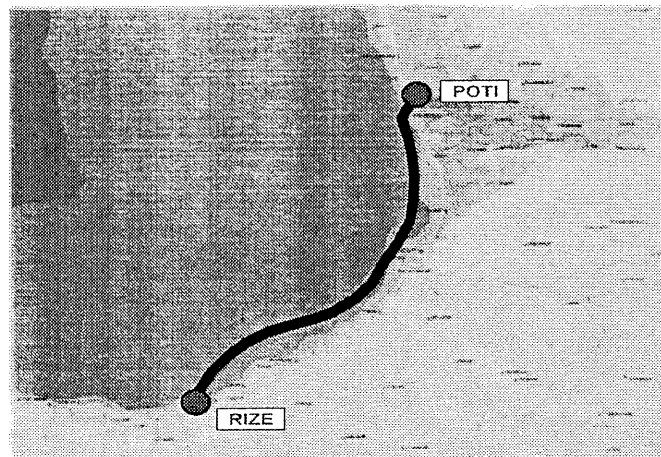
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### *Poti-Rize Submerged Fiber-Optic Backbone*

Total length – 180 km

Approximate value – 6-7 million USD

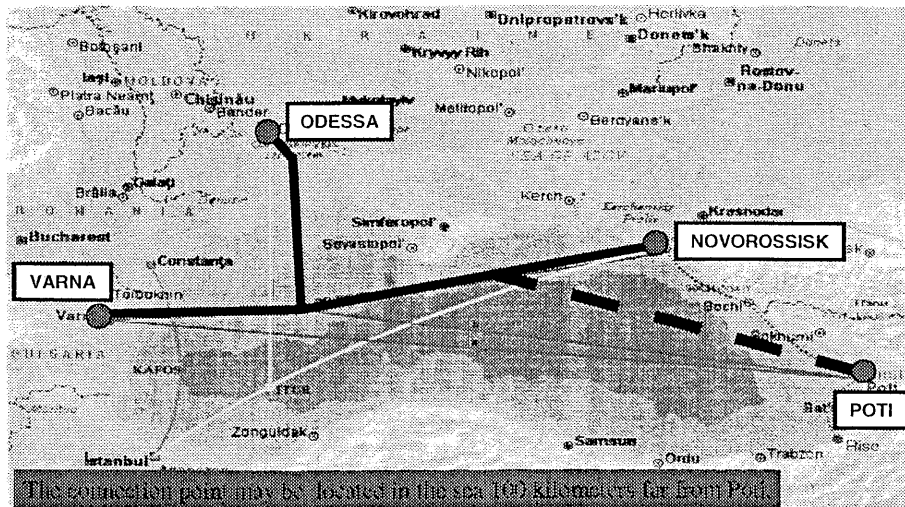


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### Connection line to Black sea underwater optical fiber cable backbone



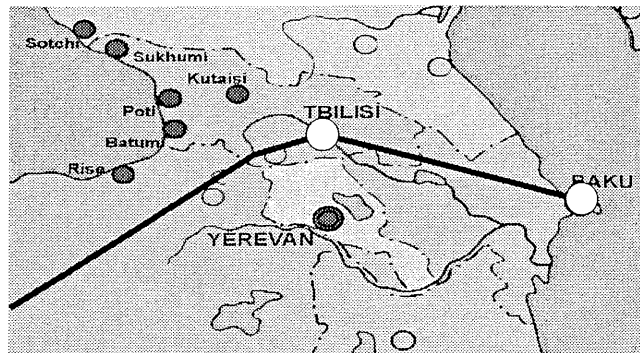
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### Fiber-Optic Cable Backbone Along Tbilisi-Baku-Ceyhan Oil Pipeline

The main object of the cable backbone is to perform services for Baku-Tbilisi-Ceyhan, though it has the possibility of serving extra loadings.



This backbone despite its main object, can provide interconnection between the South Caucasus countries and support the formation of the united information area.

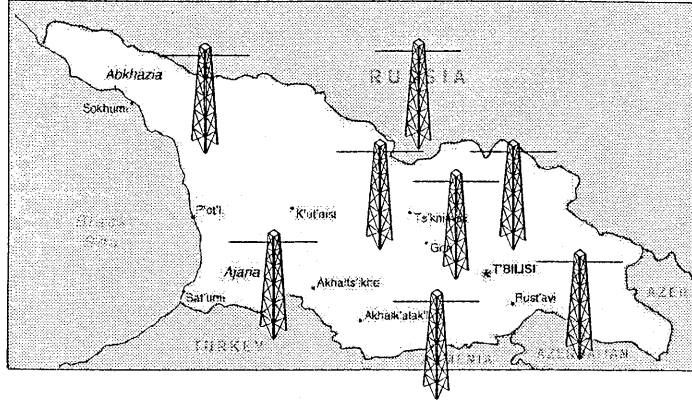
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### *Fiber-Optic Cable Backbone Along High-Voltage Lines;*

Organization of fiber-optic cable connection along country's energy high-voltage lines (220 KV, 110 KV, 35 KV )



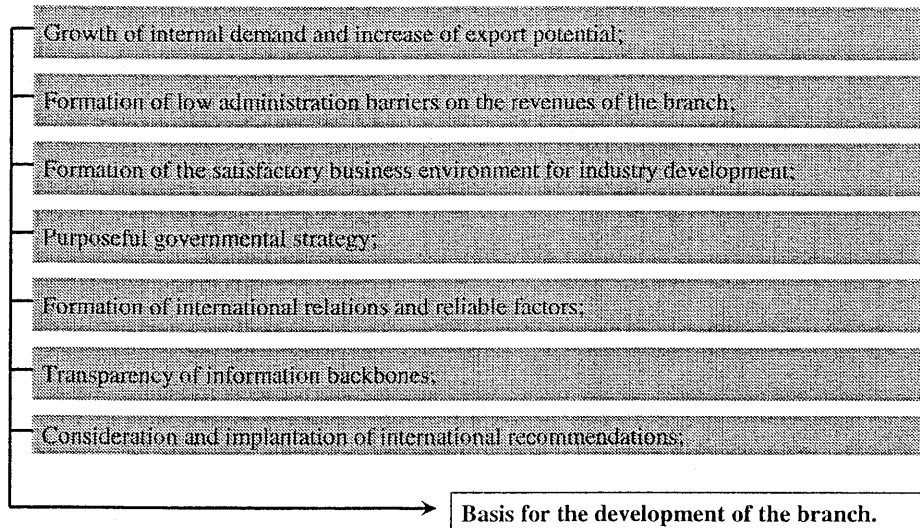
After the realization, the system will serve both: Energy and Communication systems. The backbone will enable relations with communication systems of Russian Federation, Azerbaijan and Armenia.

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### *Favorable Factors for the Formation of the Competitive Environment*



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### *State Role in the Formation of the Competitive Environment;*

1. Full demonopolization of the telecommunication sector;
2. Using market economy principles in harmony with the state regulation for the branch management;
3. Maximum using of intellectual and staff potential;
4. Support of corporative and regional systems and their integration in the entire communication area;
5. Formation of information resources and service market;
6. Defending all kinds of property on information recourses, including intellectual inventions;
7. Attraction of investments;
8. Formation of normative-legal basis;
9. Secure of the brunch with credit-financial means.

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### *Condition of Telecommunication System in Georgia*

The greatest part of the telecommunication infrastructure in Georgia was implemented in the sixties of the 20-th century. The rehabilitation of the infrastructure is underway.

Disproportion between the development levels of central and province systems of telecommunications.

Robbed telecommunication infrastructure in the rural areas;

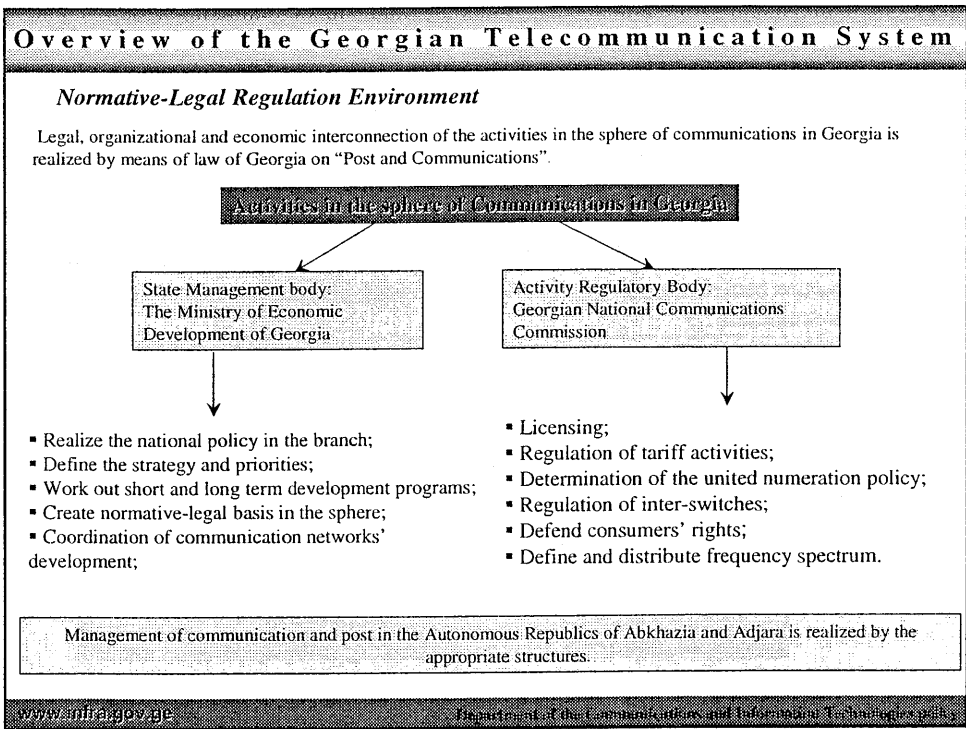
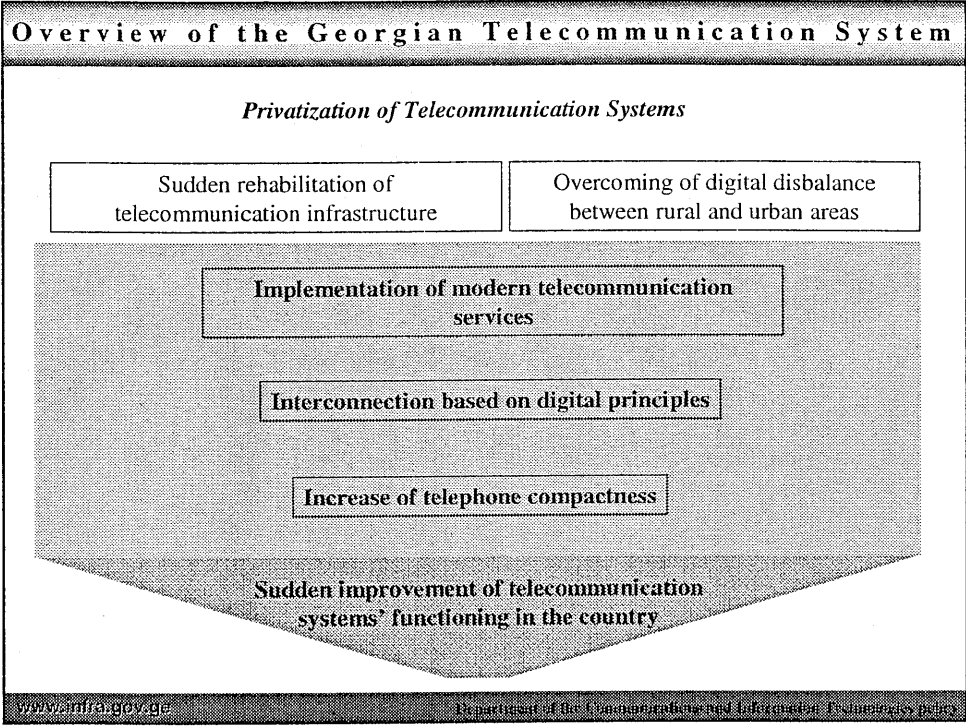
Low telephone access level on a whole country scale;

Low indicator of interconnection means based on the digital principles.

→ **Process of Telecommunication infrastructure reorganization of the country**

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### *Main Issues of Telecommunication Development in Georgia*

#### **Work out the strategy in the sphere of telecommunications**

#### **Work out of concepts in the telecommunications sphere**

Realization of the telecommunication sphere development concepts must be based on the formation of the competitive environment on the market.

Realization of new technologies and rapid tendencies of development in the sphere of information transfer and its intellectual management.

Support the formation of the competitive environment in the country.

Creation of new telecommunication services.

#### **Work out the projects in the sphere of telecommunication**

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# Thanks For Attention

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