



***YUZHNOYE***  
*design office*

## PROJECT #4509

**Creation uniform information space in association  
GUAM for remote scientific and technical  
cooperation and training**

*United informative space (UIS) – it single  
centralized database, in which information  
comes from the bases of these national servers  
and from which information comes in national  
server.*

*UIS are the standardized informative flows  
between the bases of these clients in the real  
mode of time.*

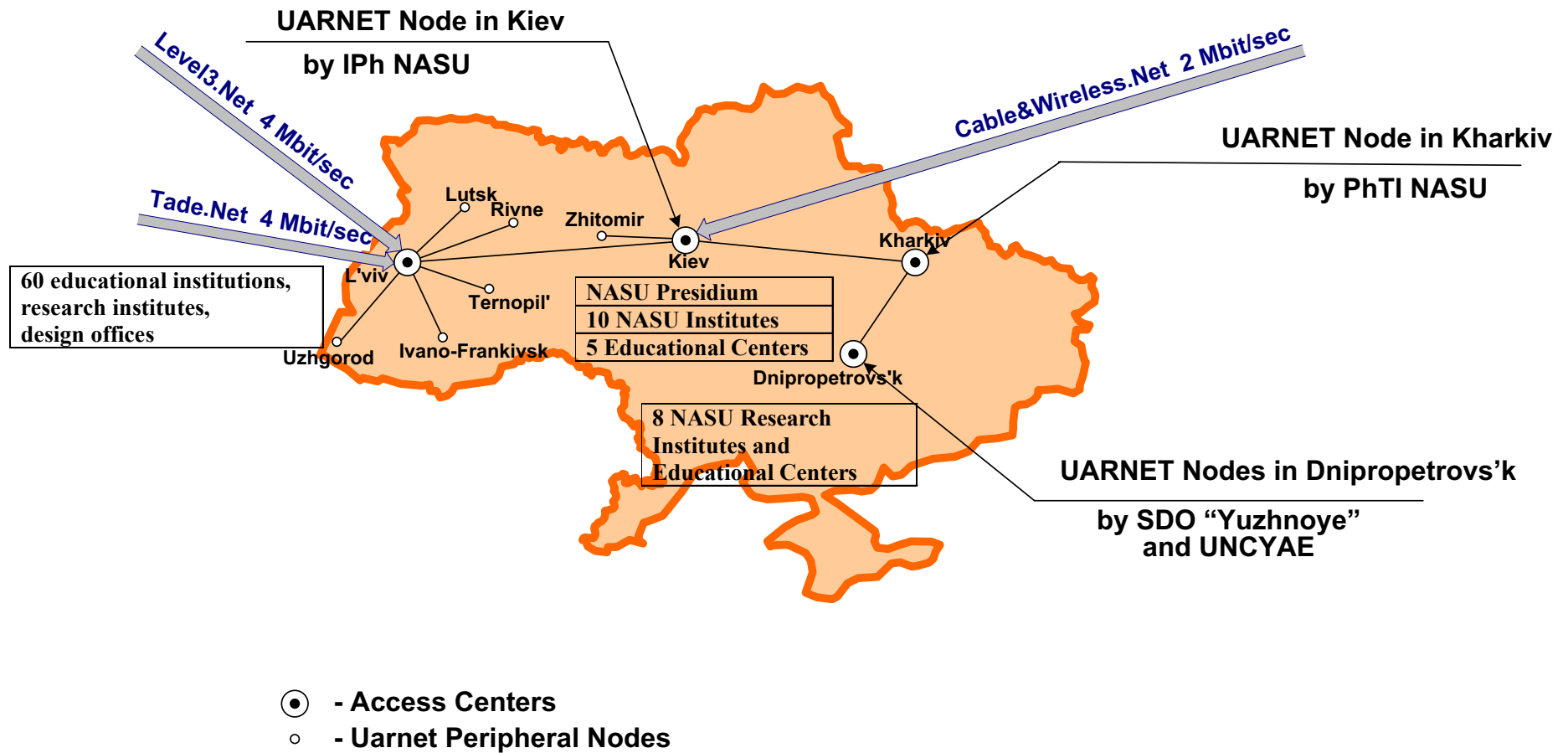
## PURPOSE OF PROJECT

*Integration of scientifically-educational national networks GRENA, UARNET, AZRENA and CIRN in united corporate network and incorporation of national servers in it for the informatively-programmatic providing of scientific and technical public of association of GUAM at the remote collaboration.*

## Basis of the project #4509

#	Project name	Financing side	Period	Basic results
1	National scientifically-educational networks	National budgets	1995-2000	The corporate networks uniting the scientific organisations of national Academies of sciences are created
2	Project #1220	STCU	2002-2004	«Uarnet» network knots are created in Dnipropetrovsk and Kharkov
3	Project #3383	STCU	2006-2007	The type infrastructure for remote interaction is created and the pilot methodology is developed
4	Project «Electronic Caucasus»	European union	2002-2005	The infrastructure for development of information-oriented societies in the countries of Transcaucasia is created
5	Project «Virtual Silk Road»	NATO	from 2005	Global Internet providing of the countries of Caucasus and Central Asia through communication satellites and fibre-optical lines

## Project 1220 main connections of "UARNet" network

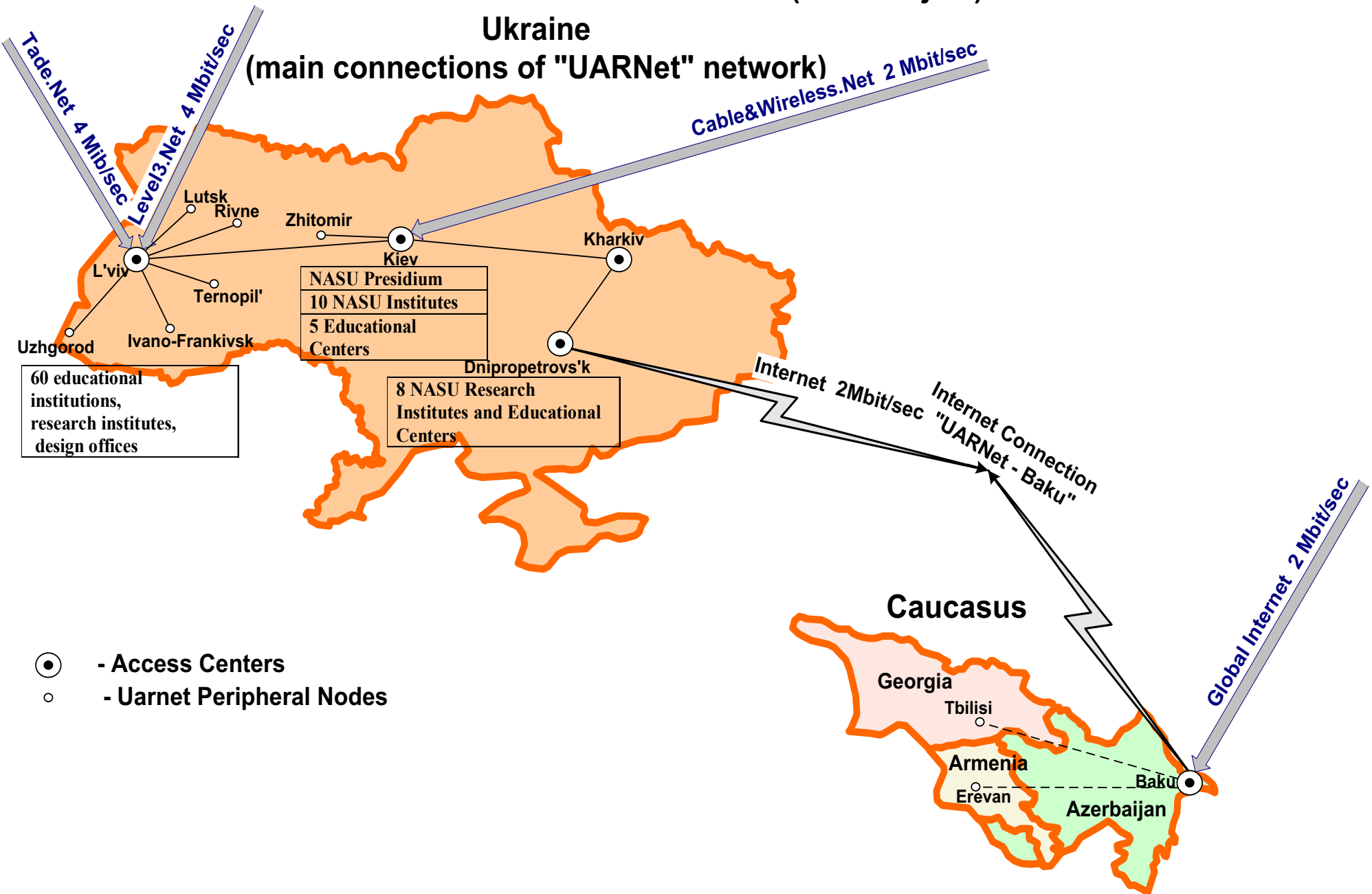


# Project 3383

## The Scheme of "International System of Remote Cooperation and Training for Ukraine-Caucasus" (Pilot Project).

### Ukraine

(main connections of "UARNet" network)



# Project #3383

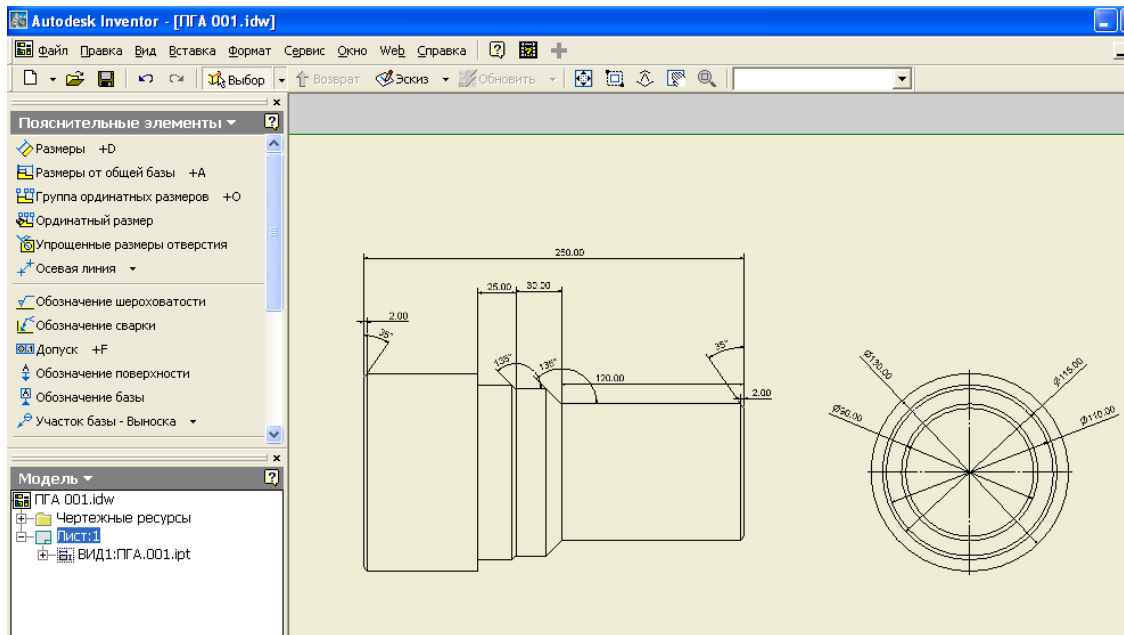
## Internet-application.

1. Videoconferences, audioconferences.
2. IP-telephony
3. Internet-shop.
4. Internet-diagnosis.
5. Internet-“client-bank”.
- ...

*Internet-designing.*

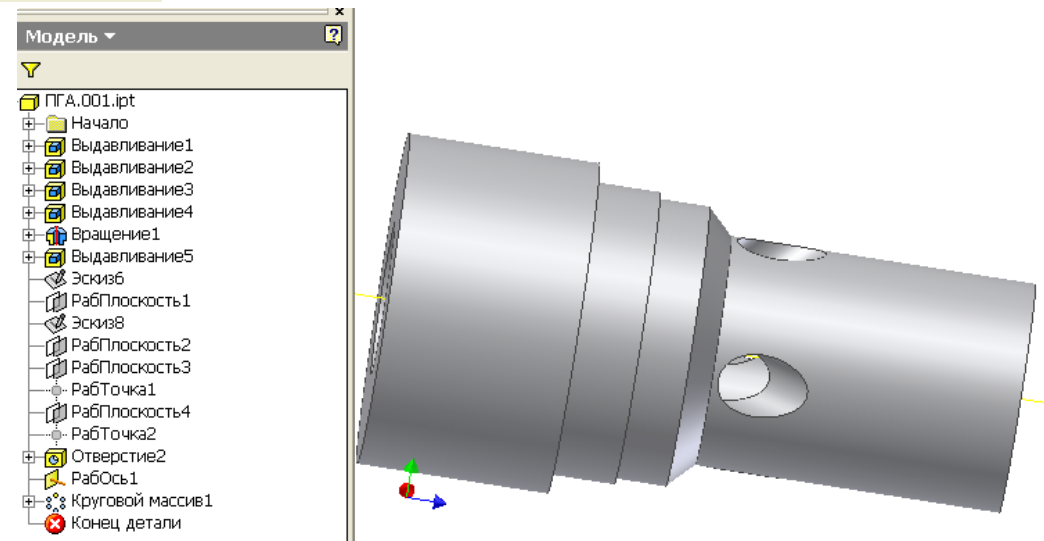
*Internet-learning.*

# Example of reception of the detail drawing on its model at remote interaction



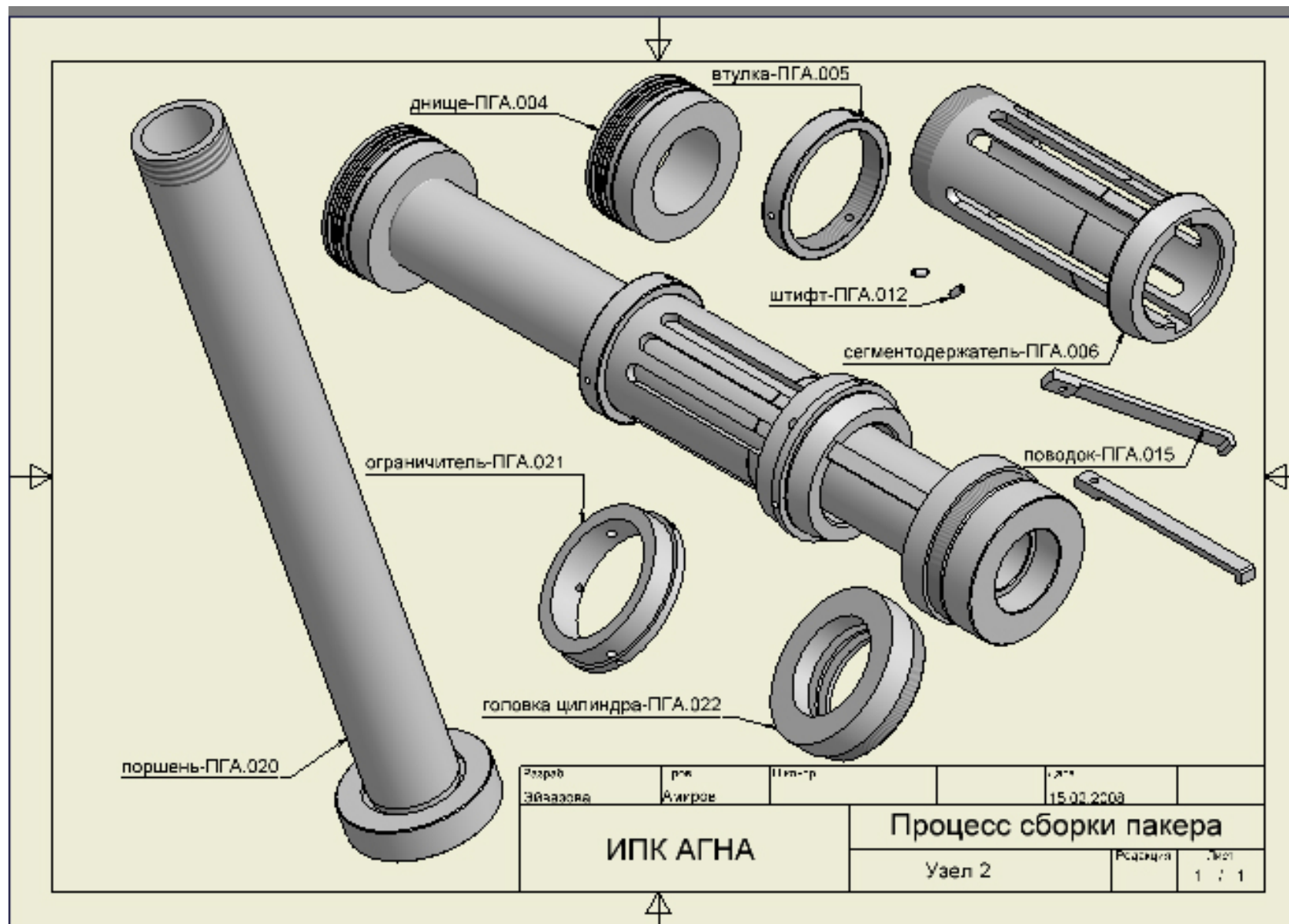
**Model of detail ПГА.001**

**Drawing of detail ПГА.001  
in Autodesk Inventor**





# Example of joint remote designing of unit «Paker»



# General view of the industrial practice class-room in UNCYAE



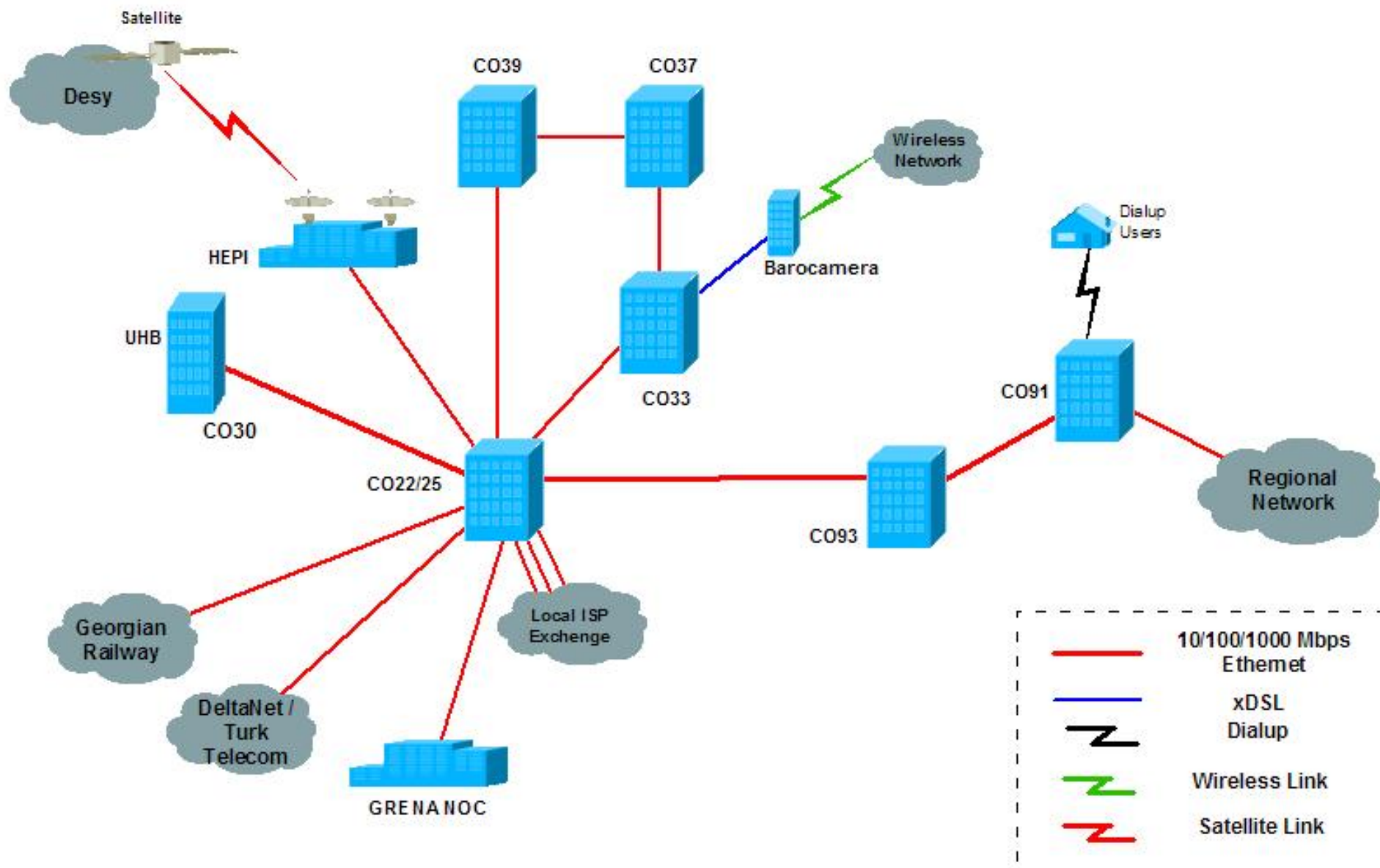
# General view of the industrial practice class-room in Yuzhnoye SDO



# General view of the industrial practice class-room in ASOA



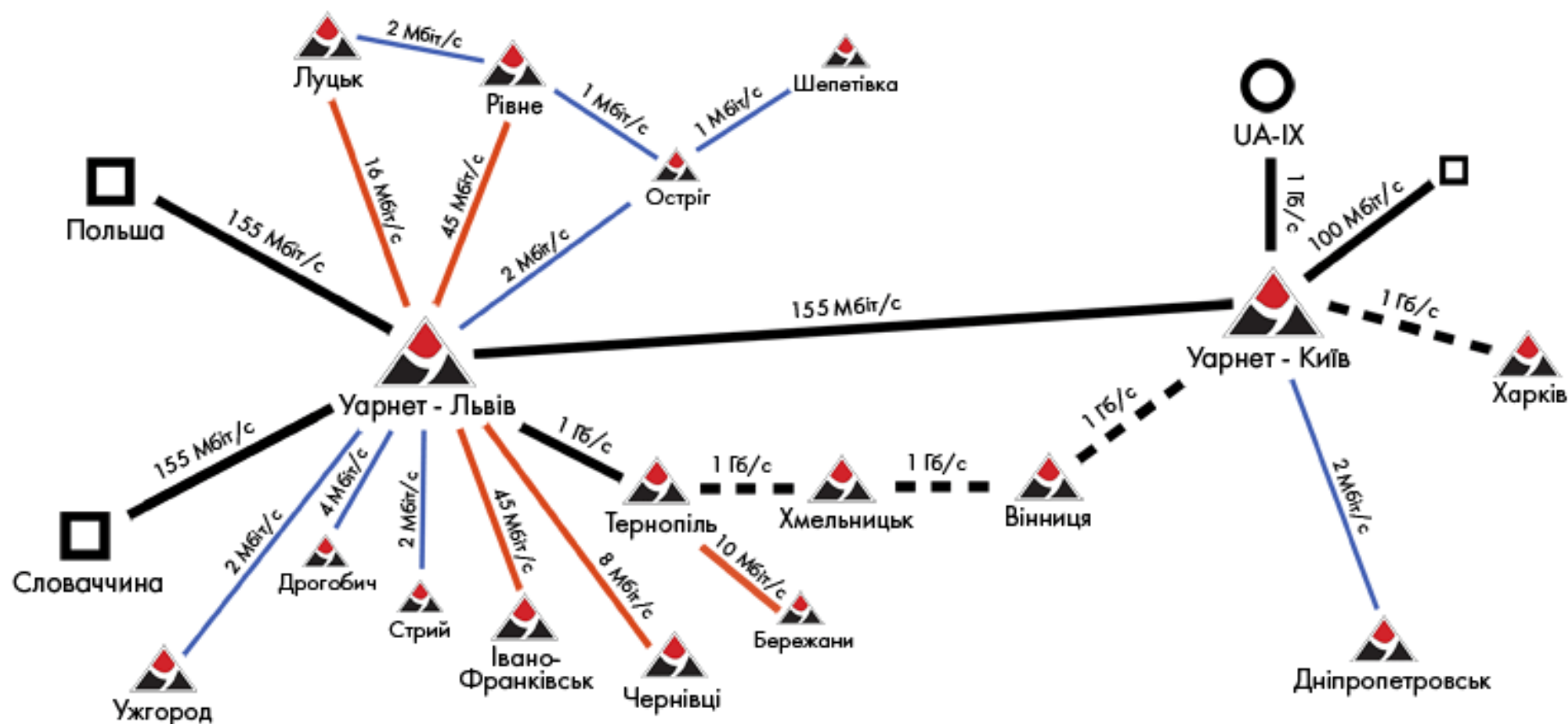




**Scheme of the Georgian segment of GUAM information space**



**Scheme of the Azerbaijan segment of GUAM information space**



**Scheme of the Ukraine segment of GUAM information space**





## **Project e-Caucasus**

**Based on National Research and Education Network Association (nRENA) structures, the EU funded Project "Development of e-Societies in South Caucasus" (Armenia, Azerbaijan and Georgia - EuropeAid/118678/C/SV/Multi) is now a prime opportunity for the introduction of modern online educational services with state-of-the-art courseware (e-Content) to be developed in close cooperation with mainstream education Institutions in the region.**

## **Project “Virtual Silk Highway”**

**The main goal of the NATO “Virtual Silk Highway” project was to bring highly cost effective, global Internet connectivity to the National Research and Educational Networks (NREN) in South Caucasus (Armenia, Azerbaijan and Georgia). The project started in 2002 and for the first stage satellite technology was used. NRENs in all participating countries were equipped with satellite station and networking equipment, needed for the establishment of connectivity node. Connectivity was provided to the research and educational community of countries via Deutsches Elektronen Synchrotron DESY (Hamburg, Germany) to the Pan-European research network GEANT.**

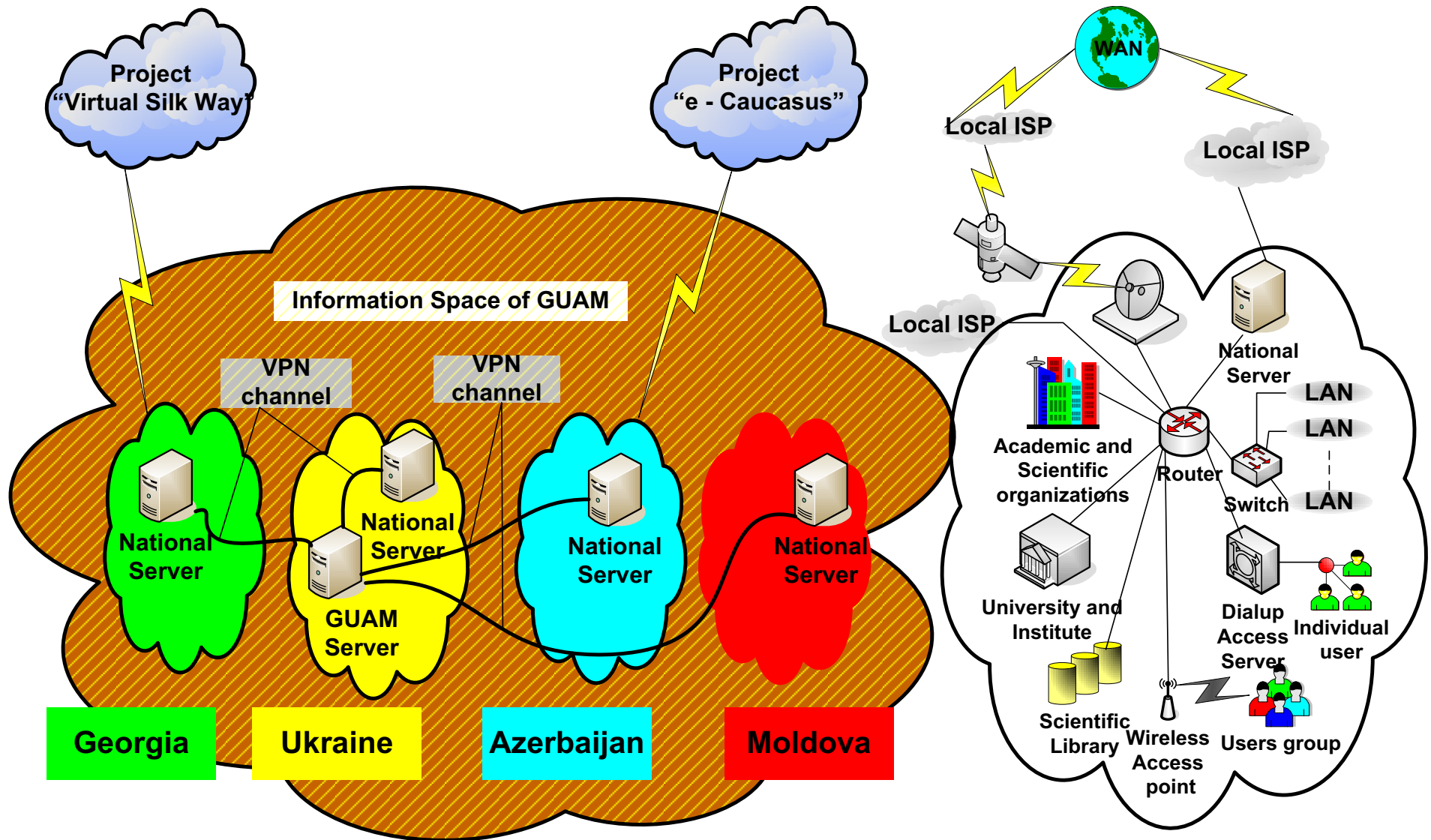
# System databases

#	Name	Arrangement on servers		
		General server of GUAM	Training server	Designing server
1	Information base for the scientists of GUAM countries about scientific and technical actions (conference, scientific readings) and the major publications	+		
2	Base of programs of remote training		+	
3	Base of programs of remote designing			+

# System databases (continue)

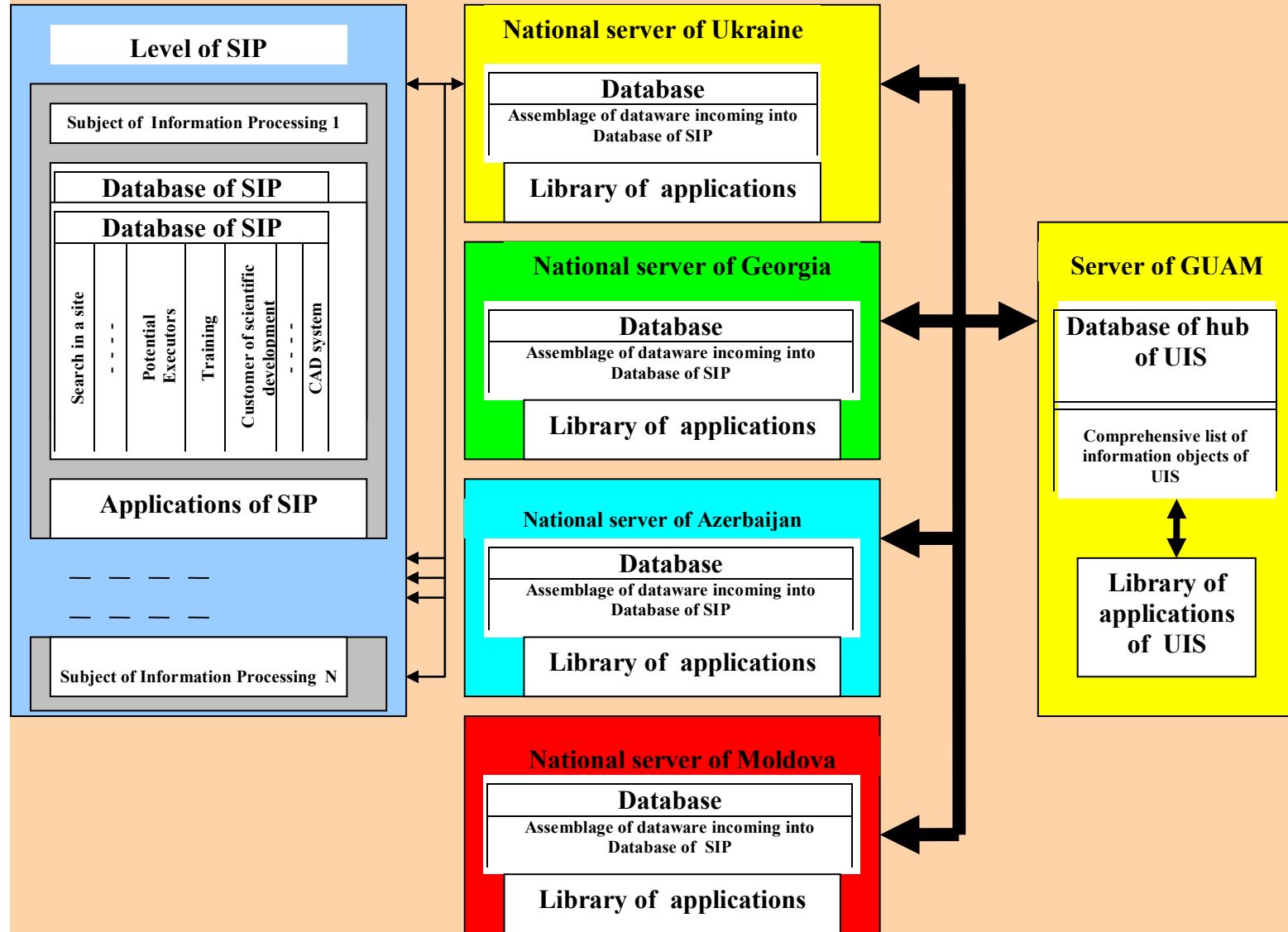
#	Name	Arrangement on servers			
		Server of Georgia	Server of Ukraine	Server of Azerbaijan	Server of Moldova
4	Base of the research organizations	+	+	+	+
5	Base of leading scientists and experts authorities	+	+	+	+
6	Base of scientific and technical problems of the countries of GUAM	+	+	+	+
7	Base of scientific and technical problems in which specialists are ready to conduct joint activity	+	+	+	+

## Bloc scheme of GUAM integrated information space



Typical structure of national segment

# United Informative Space (UIS)



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## Secretary General of GUAM took part in a meeting with professors and students of National Aviation University Institute of international Relations

On 11 November 2008, Secretary General of GUAM took part in a meeting with professors and students of National Aviation University Institute of International Relations.

Secretary General provided to the audience information on the history of GUAM, its goals and objectives, positioning of the Organization in the network of international relations, priorities of GUAM Georgian Presidency, cooperat

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On 10 November 2008 Secretary General of the Organization for Democracy and Economic Development – GUAM Mr. V.Chechelashvili was received by the Deputy Minister of Foreign Affairs of Ukraine, GUAM National Coordinator of Ukraine Mr. O.Gorin

The GUAM Secretary General met with the GUAM National Coordinator of Ukraine Mr. O.Gorin



# Site: Scientific and technical cooperation in association GUAM

Sections:	<b>GUAM News (a site of secretary GUAM)</b>
(References)	<b>Scientific and technical news conferences, seminars, achievements...)</b> <b>The major scientific and technical publications</b> <b>Joint remote designing</b> <b>Remote education</b> <b>National scientific and technical sites</b>



# **Site: National scientifically and technical site**

**Sections:  
(References)**

**Scientists and experts on  
according to branches  
Research organisations  
Scientific and technical  
problems**

# Stages of works

Number stage	Name of works	Terms (on quarters)			
		01.10.08	01.11.09		
		1	2	3	4
1, 2, 3	Development of requirement specification on the system, flow diagram and issue of pilot project				
4, 5	Creation of industrial practice classes, carrying out of experiments				
6, 7	Completion of methodology of remote cooperation according to problems of the project #4509				
8, 9, 10,11,12	Creation of servers of the project #4509, information sites, databases				
13	Development of draft design and defence of its basic positions for the purpose of definition of expediency of continuation of the project under the auspices of STCU				