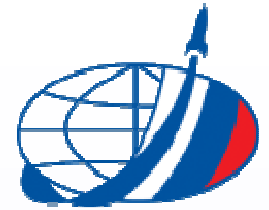# Distant learning of satellite navigation specialists in the Russian Educational Centre

JSC *"Russian space systems"*, Moscow

JSC "Russian Space Systems" (legal successor of FSUE "RISDE")
is the leading enterprise of Russian Corporation of Space Device Engineering
and Informational Systems

Leading company for GLONASS specialists training
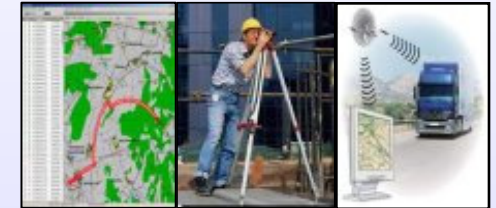
Russian Education Centre

Objectives: additional learning and training of specialists in GNSS applications

Main Courses

GNSS Status and Development

Applications of Navigation Technologies
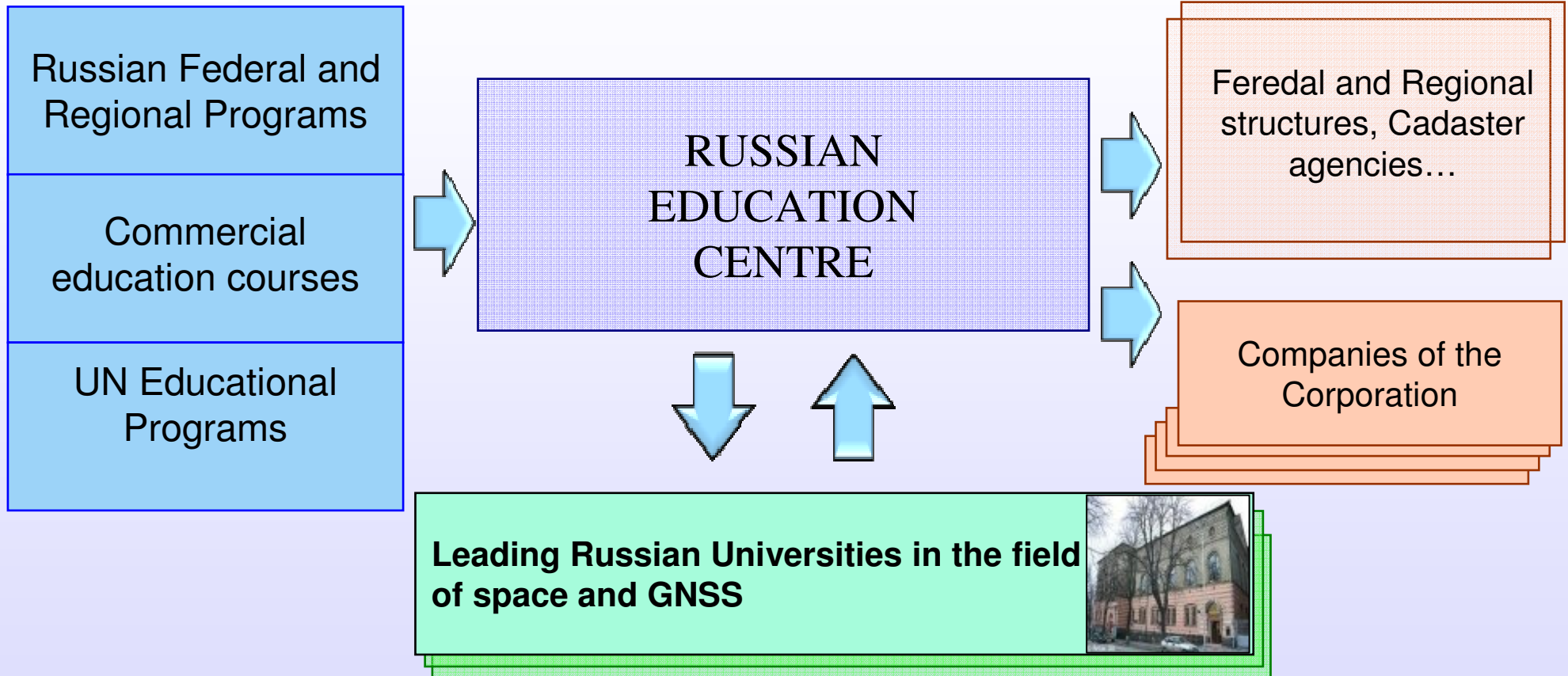in Geodesy, Transport, House-building

GNSS applications management

Russian Education Centre is created as the element of International Innovation Centre of Space and Navigation Technologies and Systems (IIC SNTS)

Who are the students? who will teach? financial support?

Russian Federal and Regional Programs

Commercial education courses

UN Educational Programs

RUSSIAN EDUCATION CENTRE

Feredal and Regional structures, Cadaster agencies…

Companies of the Corporation

Leading Russian Universities in the field of space and GNSS

Distant Learning will be the main learning form in Russian Educational Centre, respecting to the recomendations of ICG-4, WG C, September 2009

Why Distant Learning is so good?
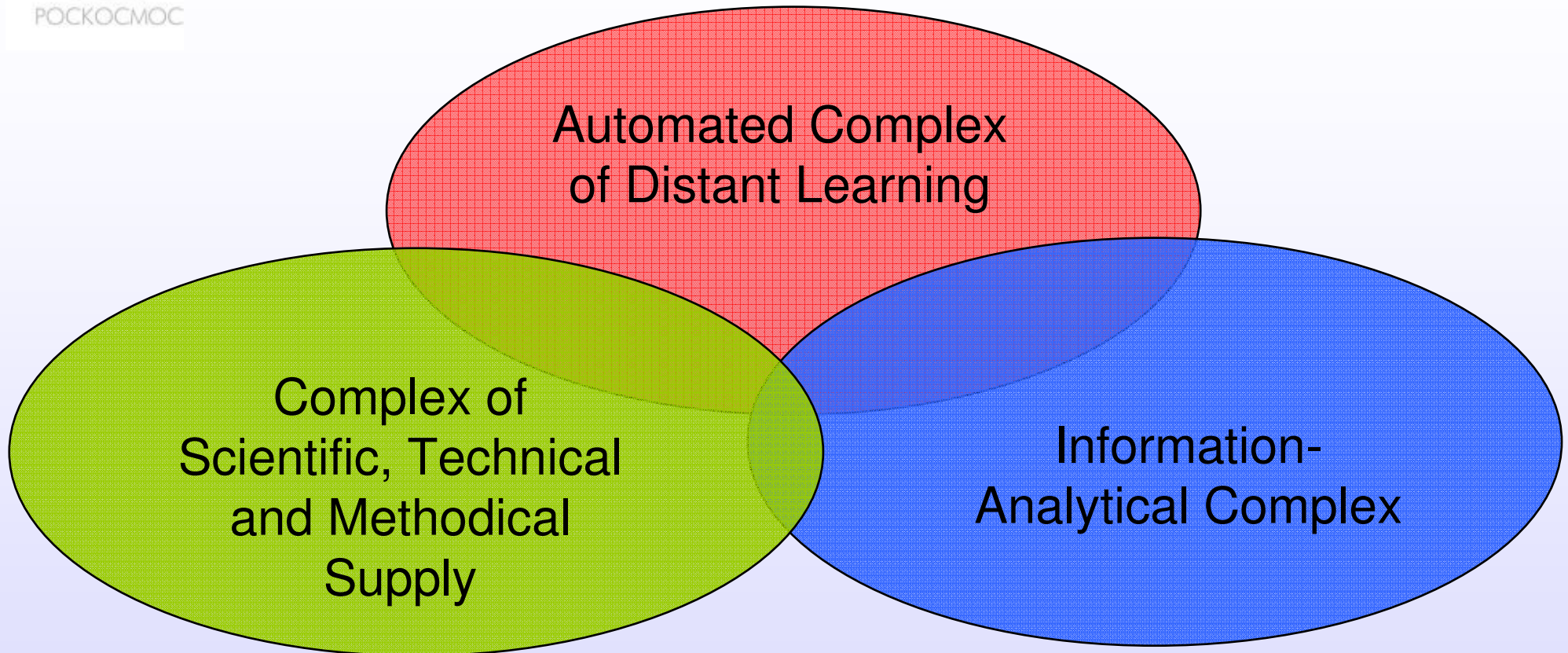
Distant Learning: some of the features	Wide geographic spread of the target audience
	Always actual training courses, considering the international information exchange
	Large number of students and thus – good benefit

Automated Complex
of Distant Learning

Complex of
Scientific, Technical
and Methodical
Supply

Information-
Analytical Complex

The Distant Learning System facilities are developed now in
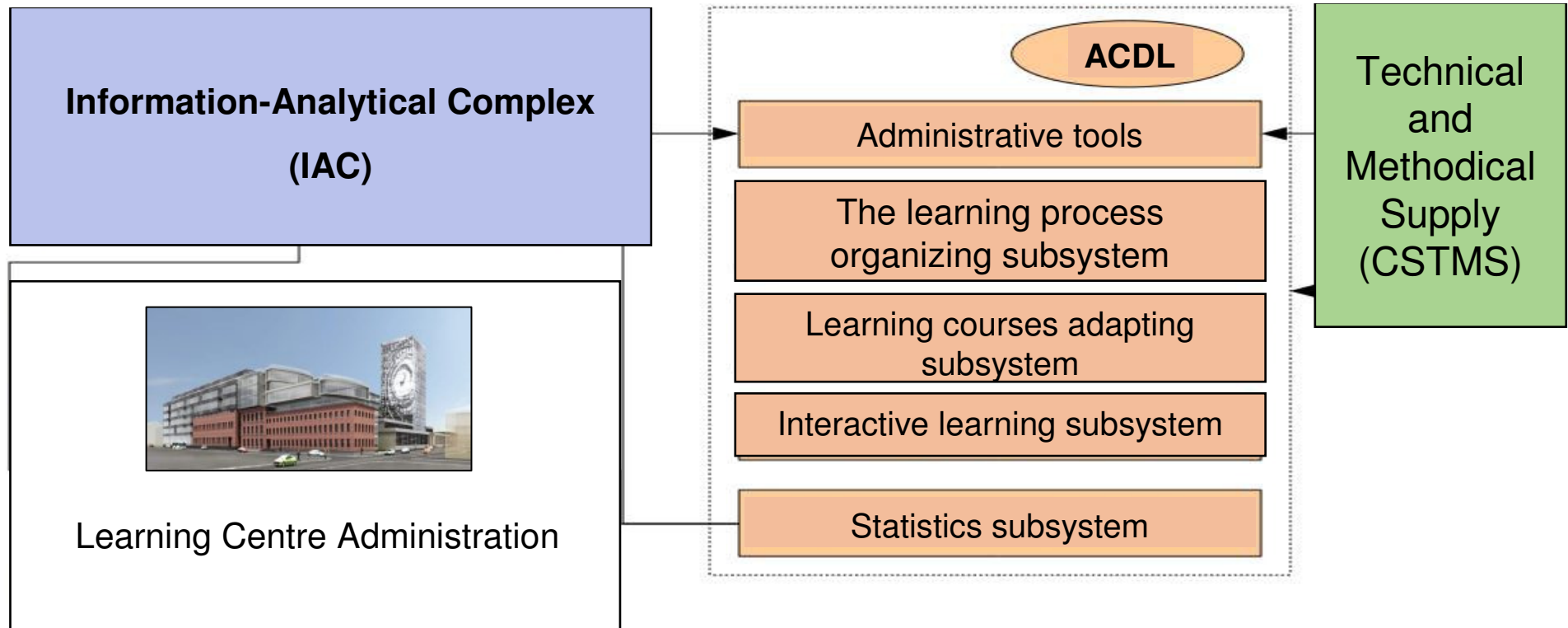JSC "Russian Space Systems" commissioned by Roscosmos.

The Task	The learning process organizing

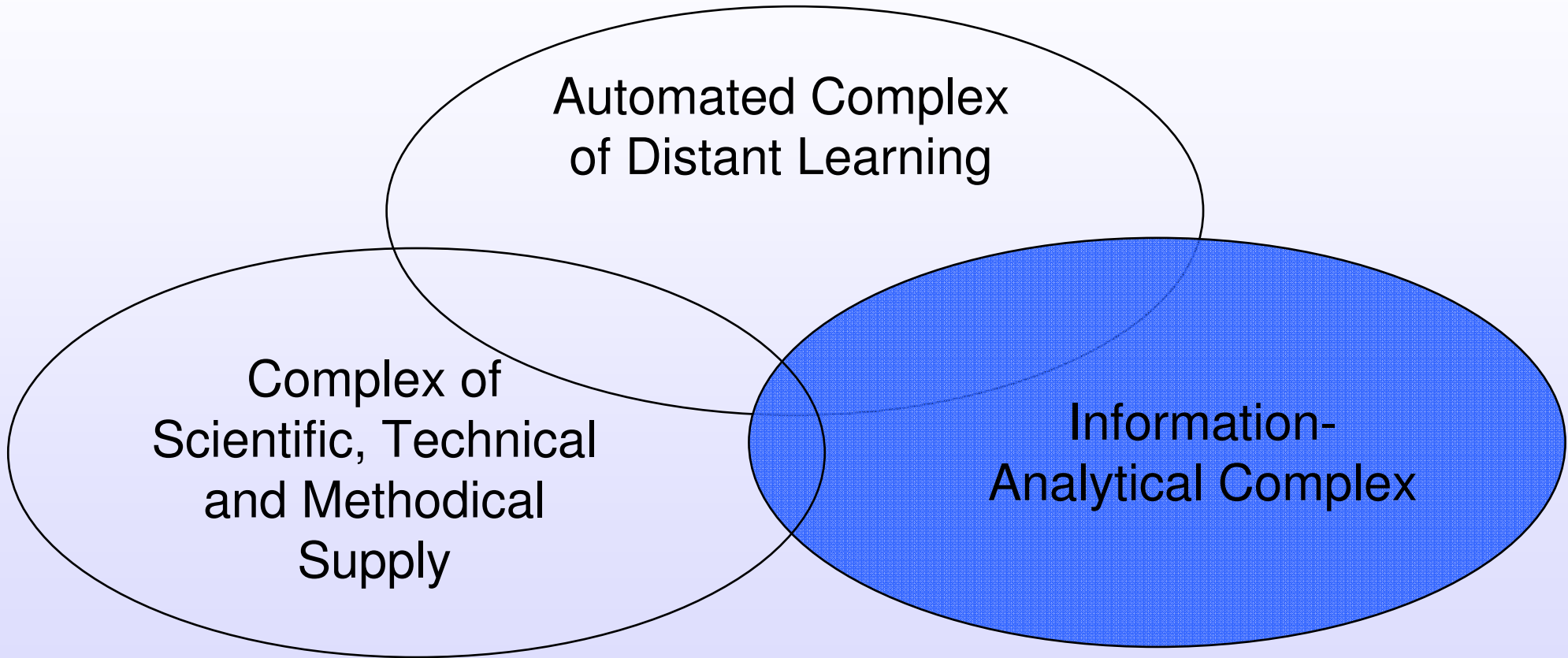| Main Functions | The collection of students applications, the formation of a training course |
	Learning process planing
	Organization and maintenance of communications
	Distant courses conducting
	Testing

ACDL

Information-Analytical Complex

(IAC)

Learning Centre Administration

Administrative tools

The learning process organizing subsystem

Learning courses adapting subsystem

Interactive learning subsystem

Statistics subsystem

Technical and Methodical Supply (CSTMS)

Distant Learning System: Information-Analytical Complex (IAC)

Automated Complex
of Distant Learning

Complex of
Scientific, Technical
and Methodical
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Information-
Analytical Complex

IAC: Task and Functions

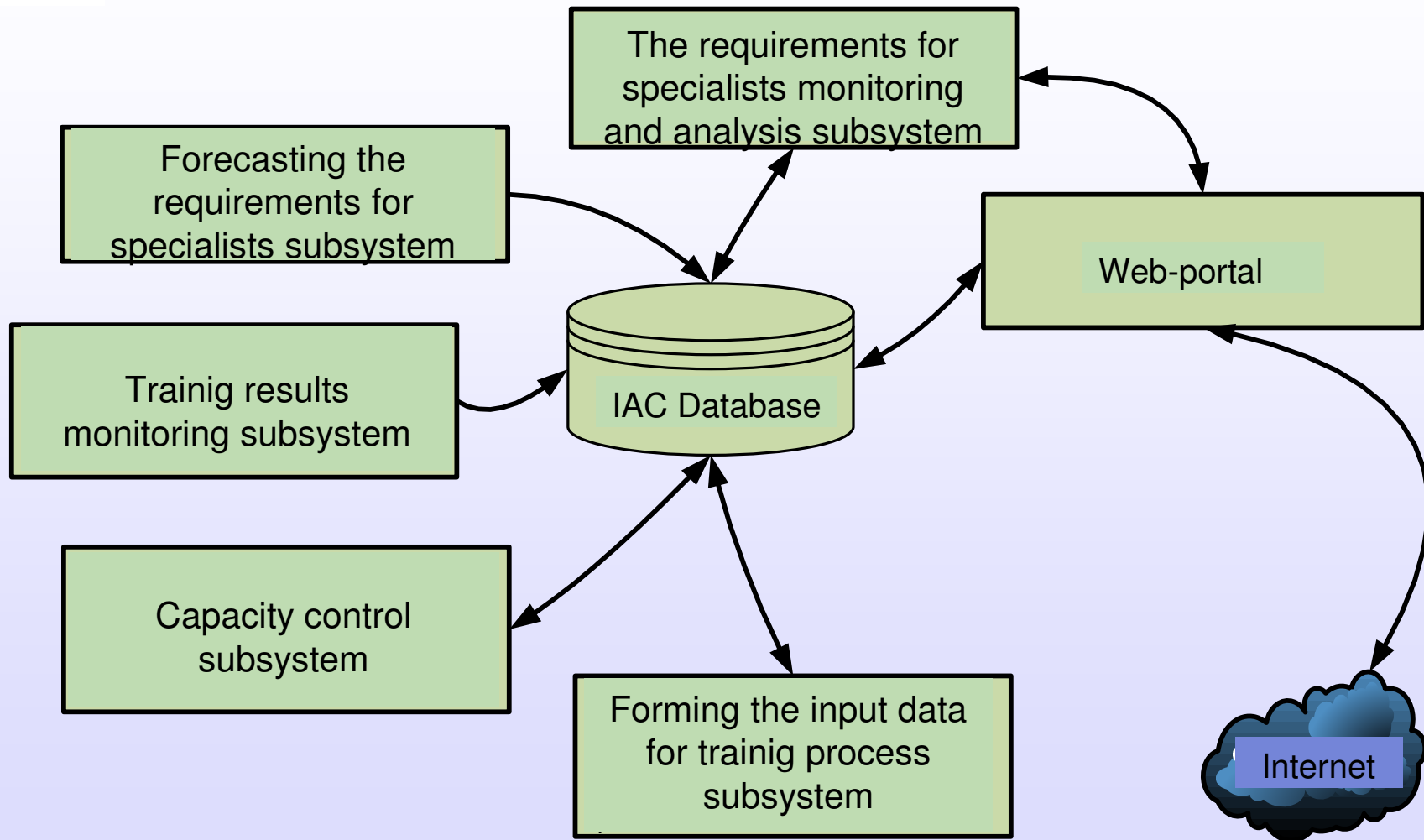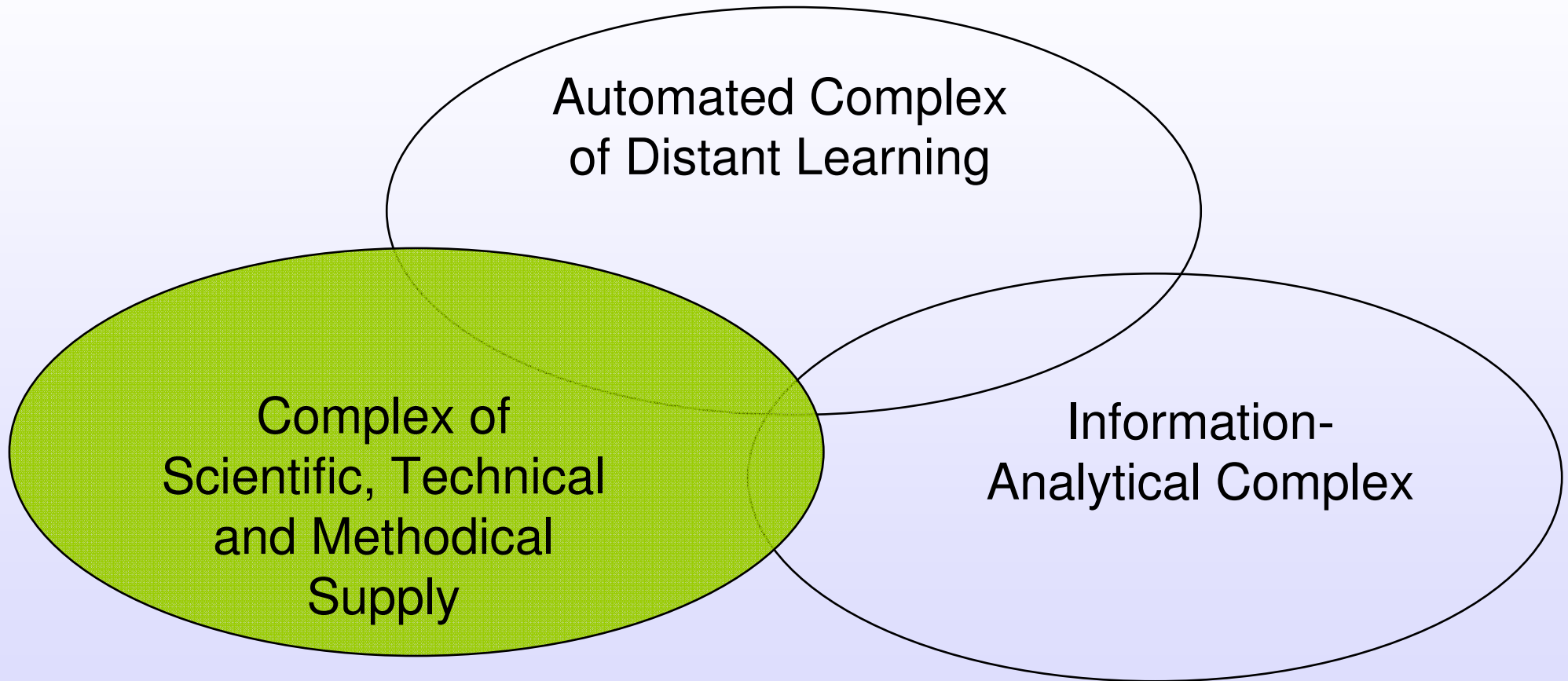| The Task	To plan the work of ACDL
Main Functions	The requirements for specialists monitoring and analysis
	Forecasting the requirements for specialists
	The trainig results analysis
	Supplying the distant access of users to the informational resources of the system

The requirements for specialists monitoring and analysis subsystem

Forecasting the requirements for specialists subsystem

Web-portal

Trainig results monitoring subsystem

IAC Database

Capacity control subsystem

Forming the input data for trainig process subsystem

Internet

Automated Complex
of Distant Learning

Complex of
Scientific, Technical
and Methodical
Supply

Information-
Analytical Complex

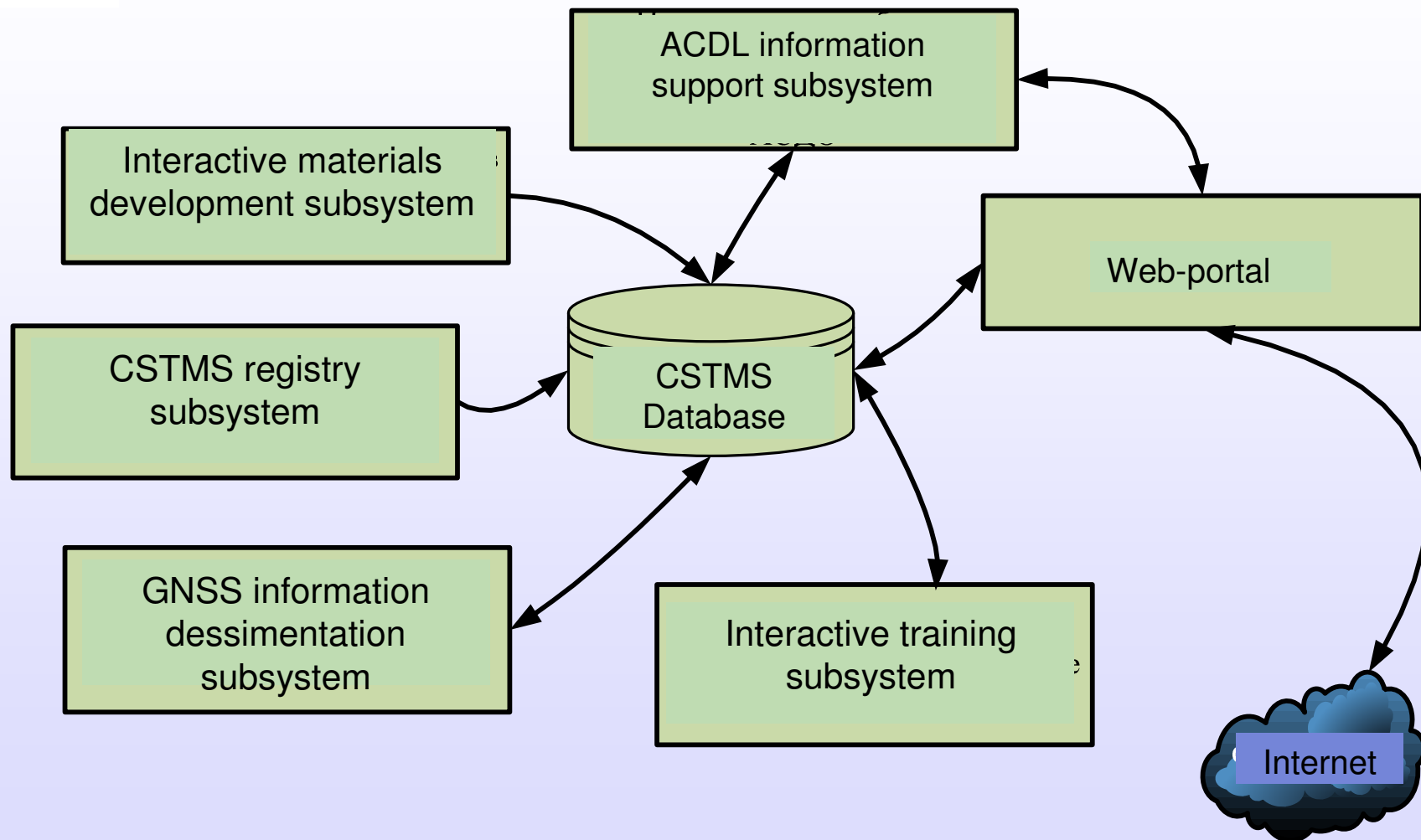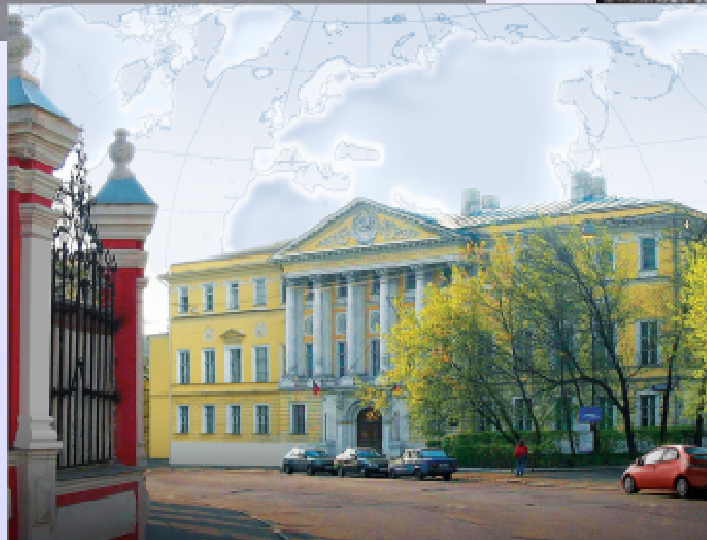| The Task	Automatic development of the trainig materials
Main Functions	Developing of the renewed study plans
	Interactive multimedia libraries creation and support
	Release of the standard base learning materials

CSTMS: Functional Scheme

- ACDL information support subsystem
- Interactive materials development subsystem
- CSTMS registry subsystem
- GNSS information dessimentation subsystem
- CSTMS Database
- Interactive training subsystem
- Web-portal
- Internet

Moscow Aviation Institute

Moscow State University of Geodesy and Cartography

Bauman State Technical Univercity

The use of Russian System of Distant Learning
in UN educational curricula will help to:

- spread the information on GNSS systems more effectively

- promote world-wide use of GNSS applications

Thanks for your attention !

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