AIS «Education»

By Michael Afanasyev,
Anton Gorbunov

Saint Petersburg
State University of Aerospace Instrumentation

2012

Tasks of document flow

Management efficiency

Transparency the movement of documents

Quality of services

Processing and transformation of information

increase

- **Data Centre**
  - Use common data and standardized instruments in all subdivisions
- **Document flow**
  - Creating a unified document flow of electronic documents
- **Privacy**
  - Access to information in accordance with the rights and privileges
- **Availability**
  - Low cost and availability for end users

decrease

time of searching information

The risk of unwarranted decision

Routine tasks

Automation document flow: implementation and development
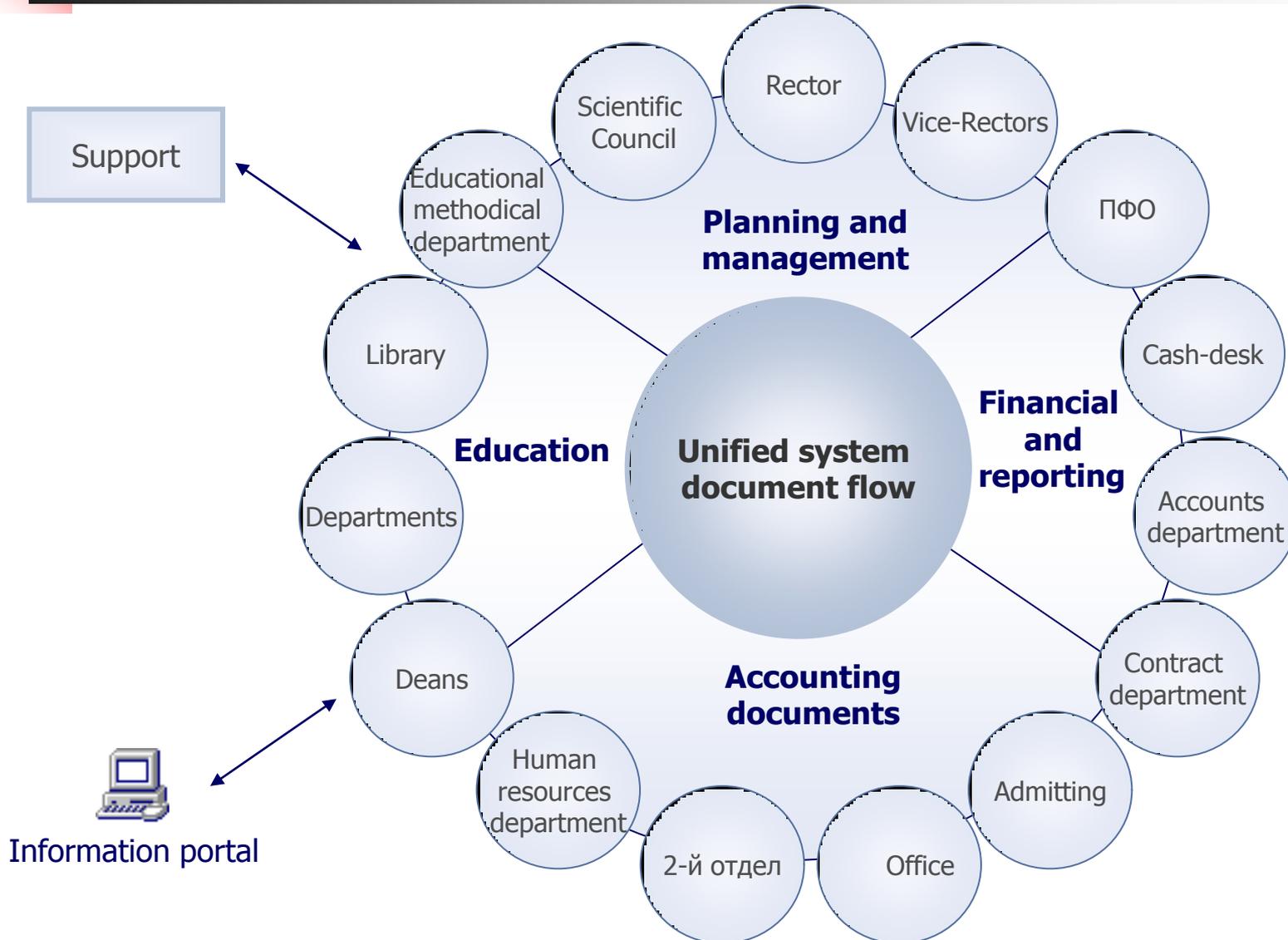
Create an information system

- Distributed
- Modular
- Scalable
- Cross-platform
- Inexpensive
- Protected

Organizational events

- Scheduling and create diagrams of document flow
- Active use of IT in managing
- Training of employees
- Staff motivation

Implementation of information technology is at 80% is change of workplace culture and only 20% - technology

System structure

Support

Information portal

Rector

Scientific Council

Vice-Rectors

Educational methodical department

ПФО

Planning and management

Library

Cash-desk

Education

Unified system document flow

Financial and reporting

Departments

Accounts department

Deans

Accounting documents

Contract department

Human resources department

Admitting

2-й отдел

Office

AIS «Education»

- System of students accounting

Career guidance

Schools

Courses

Entrants

- Data input
- Accounting Test

- Accounting for pre-entrants

Personnel department

- Work with students
- Print diplomas

Admitting

Students

dean's office

dean's office

- Current data on students

Archive

- storing data on diplomas and people
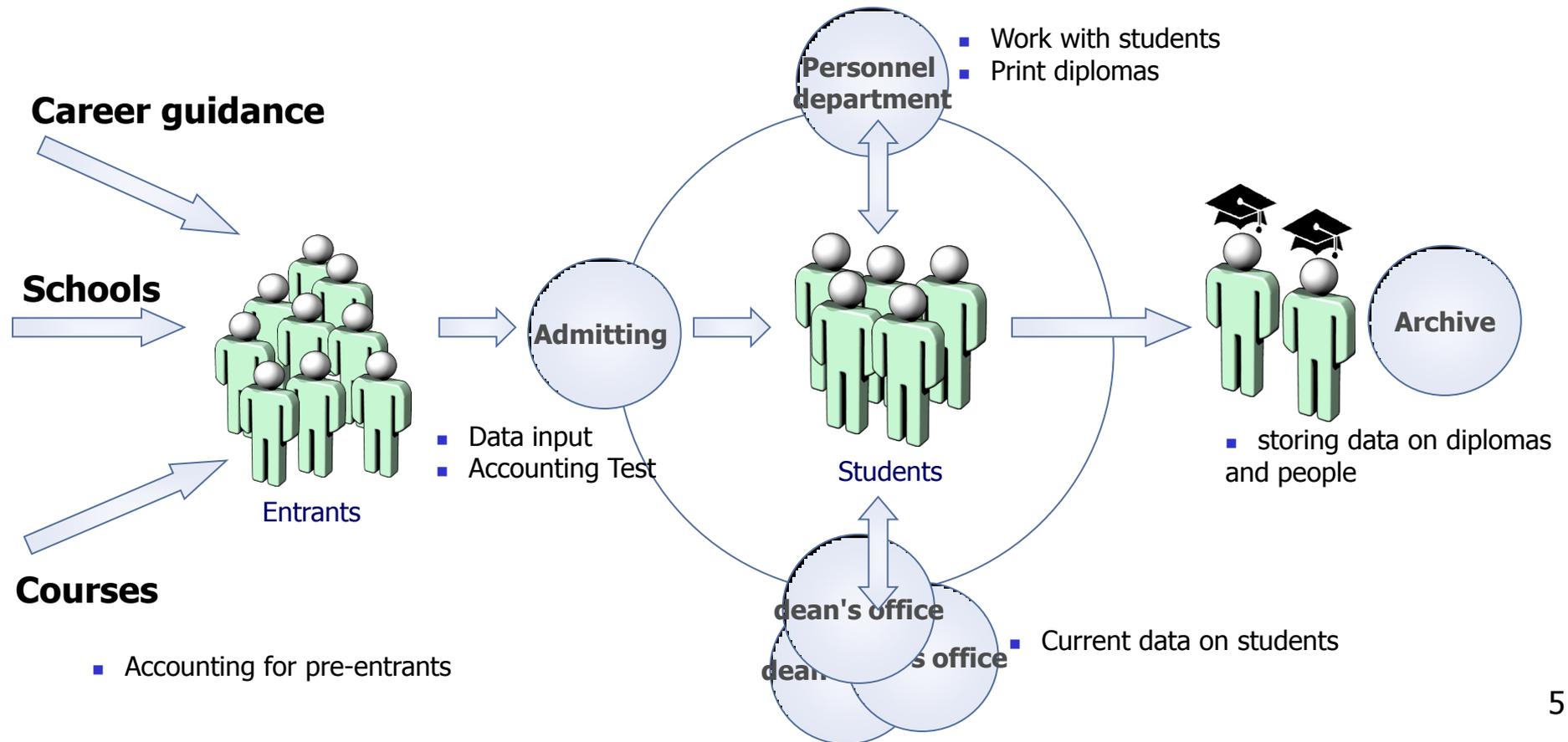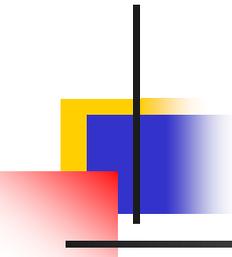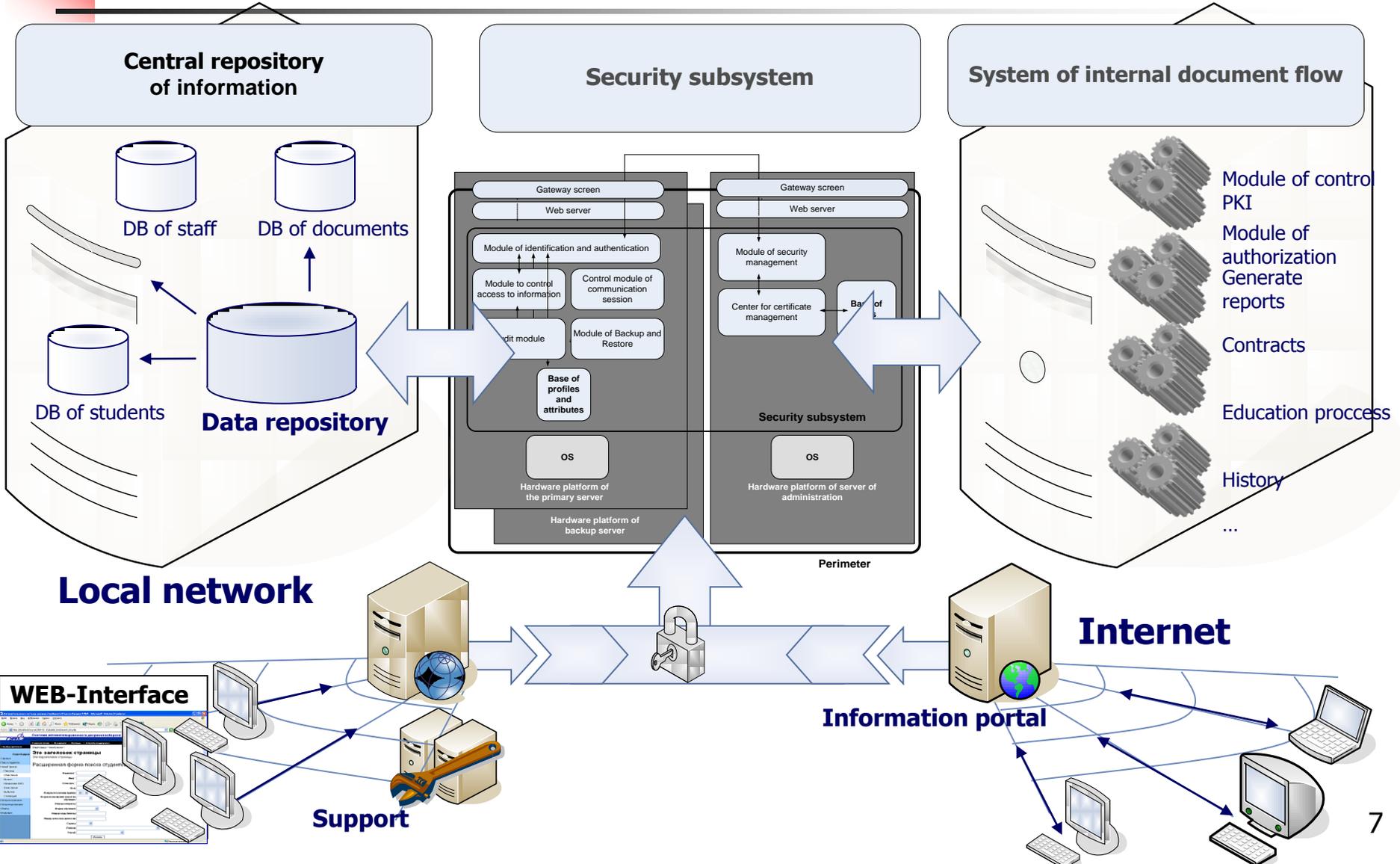
General properties

- **Distributed**
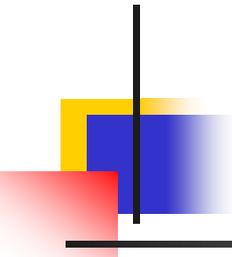 - client / server platform
  - remote user access
  - transmission of information through open channels of communication
- **Multiuser**
  - large number of users with different level access
- **Modular, expandable**
  - number of users always changing
  - development new modules
- **Security**
  - different levels of confidential information
- **Cross-platform**
  - use open-source programs

Structure

Central repository of information

- DB of staff
- DB of documents
- DB of students
- **Data repository**

Security subsystem

Gateway screen
Web server
Module of identification and authentication
Module to control access to information
Control module of communication session
Audit module
Module of Backup and Restore
Base of profiles and attributes
OS
Hardware platform of the primary server

Gateway screen
Web server
Module of security management
Center for certificate management
Base of...
Security subsystem
OS
Hardware platform of server of administration

Hardware platform of backup server

Perimeter

System of internal document flow

Module of control PKI
Module of authorization Generate reports
Contracts
Education proccess
History
...

Local network

Internet

WEB-Interface

Support

Information portal

7

AIS «Education»: security tasks

- Access Control
- Information Privacy
- Information Integrity
- Authenticity of Information
- Availability
- Audit

Interface

| Группа: 824 | Фамилия: Афанасьев | Семестр: 2 | ☑ Отчёт | Найти |

Текущий режим: ○ Оценки ⊙ Пропуски

Период:

С 02.01.2012 По 16.11.2012

Группа	Семестр	Фамилия	Имя	Отчество	
824	2	Афанасьев	Михаил	Михайлович	🖉

Дисциплины\Дата проведения занятия	Январь			Февраль		Март		Апрель		Май			Июнь		Июль		Сентябрь	Ноябрь	Всего пропусков	Пропуски по уважительной причине
	2	16	30	13	27	12	26	9	23	7	8	21	4	18	2	16	30	16		
БИОЛОГИЯ								1			2								3	2
ИНОСТРАННЫЙ																				
ЛИТЕРАТУРА																				
МАТЕМАТИКА		1																	1	1
ОБЩЕСТВОЗНАНИЕ																				
ОСНОВЫ БЖ																				
РУССКИЙ ЯЗЫК	1																		1	1
ФИЗИКА				1															1	1
ФИЗКУЛЬТУРА																				
ХИМИЯ																				
Итого пропусков за семестр:	1	1		1				1			2								6	5

| Экспорт в Excel | Перейти к дисциплинам |

Deployment in SUAI: today