

Federal Information System on Grey Literature in Russia: a New Stage of Development in Digital and Network Environment

Aleksandr V. Starovoitov, Aleksandr M. Bastrykin,

Anton I. Borzykh, Leonid P. Pavlov



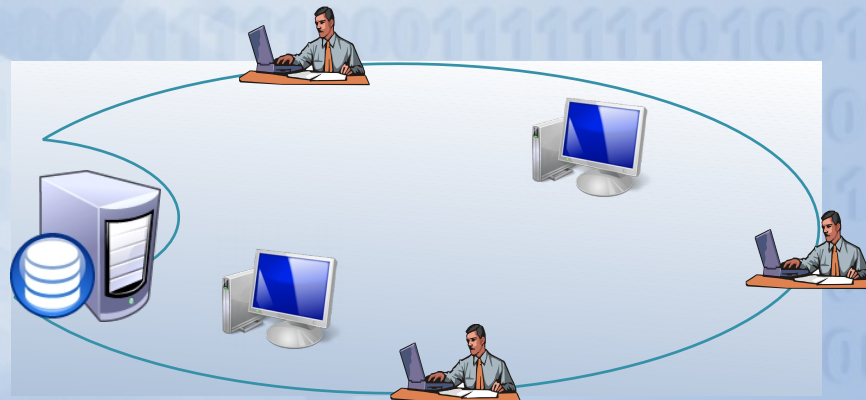
**CITIS,
Moscow, Russia**

Centre of
Information
Technologies
and Systems of
Executive
State Authorities
(CITIS)

- ❖ **ASINIT**
- ❖ **Self-funded Research Registration System**
- ❖ **Federal Register for R&D Results**

**United Federal Database on Research and Development
(UFDB R&D)**

State Programme of the Russian Federation “Information society (2011 – 2020)”



THE PAST

**National Library-Information Fund
State System for Scientific and Technical Information (GSNTI)**

ASINIT

Full-text R&D Reports and Dissertations

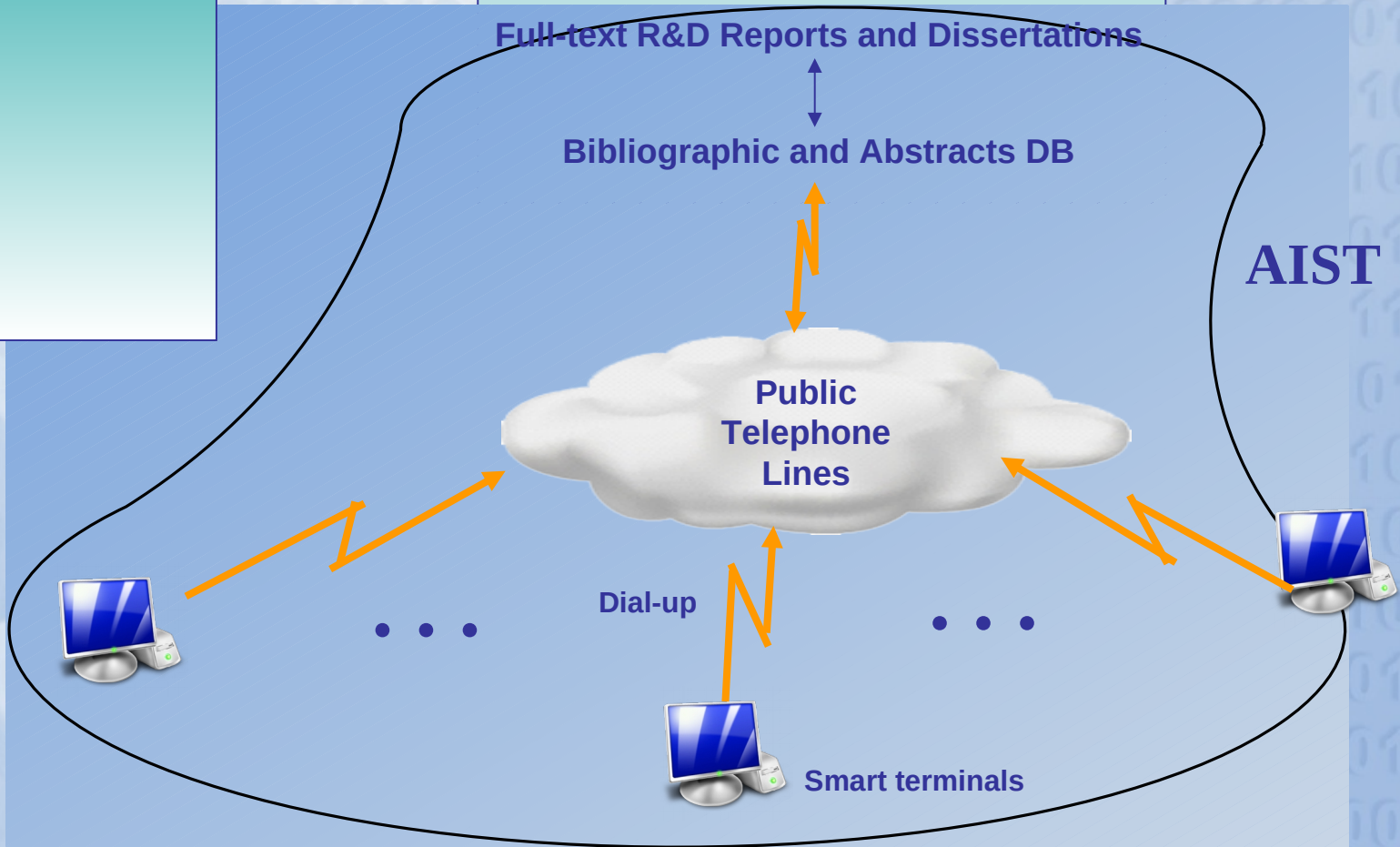
Bibliographic and Abstracts DB

AIST

**Public
Telephone
Lines**

Dial-up

Smart terminals



THE PRESENT

UFDB R&D Information Resources ASINIT Databases (since 1982)

R&D Reports

Registration cards – 1,2 mln
Information cards – 1,3 mln

Dissertations

Information cards (candidate) – 560 000
Information cards (doctoral) - 80 000

Abstract Journals DB – 3,0 mln documents

Information cards in English – 80 000

Algorithms and computer programs DB – 15 000 documents

Scientific organizations DB – 6 000 organizations

FULL-TEXT (since 1984)

R&D Reports– 800 000

Doctoral dissertations – 80 000

Candidate dissertations – 500 000

SELF-FUNDED RESEARCH SYSTEM

Database 2007 – 2011 : 1 500 documents

5 Annual Summary Reports

UNITED REGISTER FOR R&D RESULTS

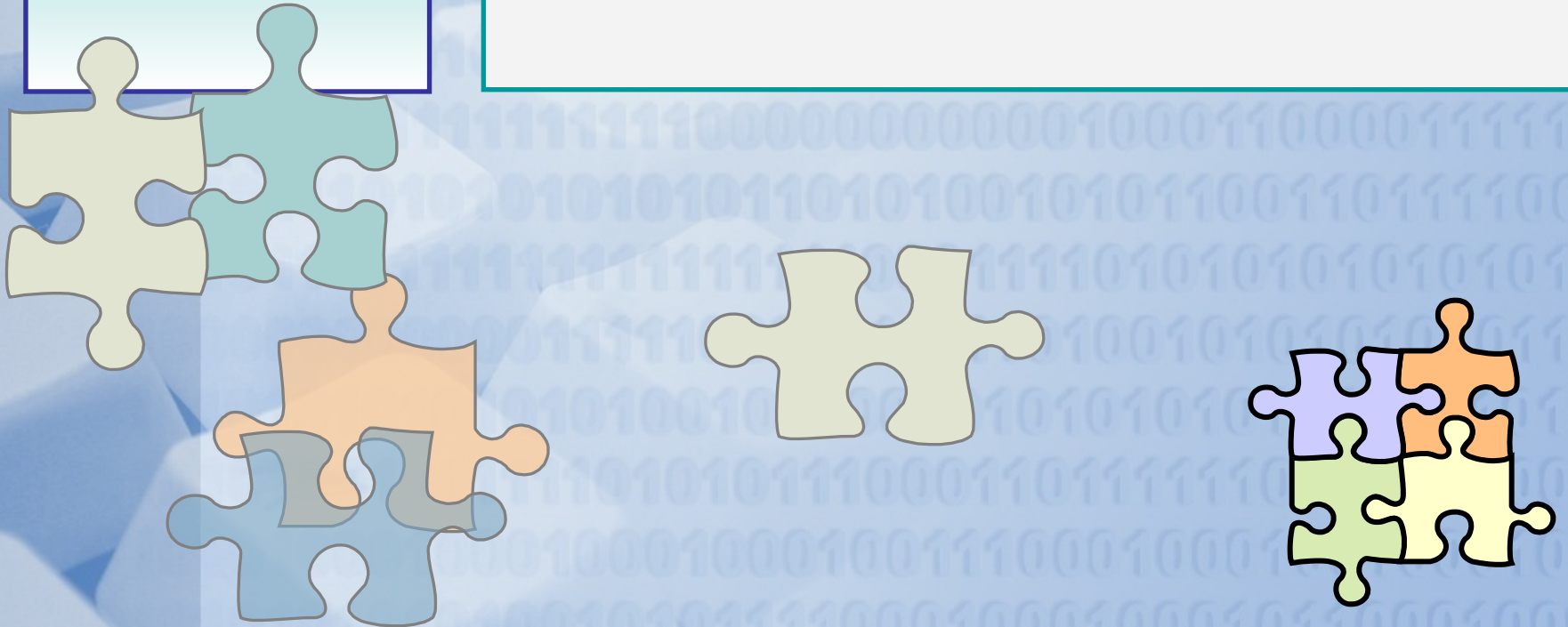
Database (since 2006):

50 ministries; 15 000 state contracts; 6 000 intellectual property objects



**SYSTEM'S
DEFECTS TO BE
ELIMINATED**

- ❖ Redundant and duplicated information in the databases
- ❖ Incompleteness of R&D reports registration
- ❖ Insufficient total computer power for full-text processing
- ❖ Limited analytical means of textual information processing
- ❖ No online interaction with other state information systems.



THE FUTURE

The development of the United R&D projects registration system (UPRS R&D) for the projects carried out in the civil sphere with the state budget funding

SYSTEM'S DEVELOPMENT DIRECTIONS

- ❖ Unified forms of registration and information cards
- ❖ Online mode of filling-in and entering the new forms
- ❖ Formation of digital full-text databases
- ❖ Electronic signature technology introduction
- ❖ Alterations in the legal acts currently in force

MODERNIZED (1) AND NEWLY-DESIGNED (2) SUBSYSTEMS

(1): - the subsystem for reports and dissertations collecting, processing and registration;

- the digital documents repository and archiving subsystem;
- the search and retrieval subsystem;
- the abstract journals publishing subsystem.

(2): - the system's common Internet portal subsystem;

- the R&D projects in progress monitoring and content analysis subsystem;
- the subsystem for interaction with international scientific and technical information systems;
- the subsystem for integration with other Russian state information systems on science and technology.



Concluding Remarks

- ❖ complete R&D documents collection
- ❖ fast access to full-text documents and relevant information
- ❖ monitoring the situation in the sphere of R&D
- ❖ support for the federal level administrative decisions in the sphere of R&D
- ❖ support for prognostication in this sphere
- ❖ improvement in the distribution of financial means for scientific R&D
- ❖ reduction of the unjustified duplication and overlapping of R&D

projects and dissertations.