

Panel 4 – Ms. Daria shipitsyna

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Rospatent

Federal Service
for Intellectual Property

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DIGITAL TRANSFORMATION OF ROSPATENT: OUTCOMES AND OPPORTUNITIES

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OBJECTIVE OF DIGITAL TRANSFORMATION



increasing the satisfaction of citizens and organizations with the quality of public services in the field of IP by means of digitalization, excluding the need for a personal visit

Tasks



Creation of digital interaction services for all categories of citizens



Access to the information on the status of public services via the Rospatent and Public services portals



Reducing the time for public services delivery



Online registration of applications and disposal of rights




Access to patent information, statistics and analytical materials for the state agencies and business community in real-time



Information security and confidentiality of applicants' data



USER-ORIENTED PRINCIPLE

 Development of digital solutions focused on customers' needs



USER STEPS

Building technological concept, creating R&D projects

Ensuring legal protection

Commercializing



CLIENT SERVICES

Patent information search

Patent statistics and analytics

Digital communication

Patent information search

Online IPR management

Search for trademarks and industrial designs

3D Model Enclosure

3D Model Comparison

Online IPR management

Checking IP for encumbrances

Digital communication



NEEDS

Preliminary assessment of global novelty level of the future invention

Identification of technological trends

Filing an application with Rospatent, obtaining an electronic title of protection

Finding a partner, obtaining rights to related results of intellectual activity to establish a trusted environment around the final technological solution

Receiving income from the IPR disposal, registering an agreement on the disposal of rights in an expedited manner

Developing and registering a brand as part of a marketing strategy

ROSPATENT DIGITAL TRANSFORMATION



Governmental bodies

Business

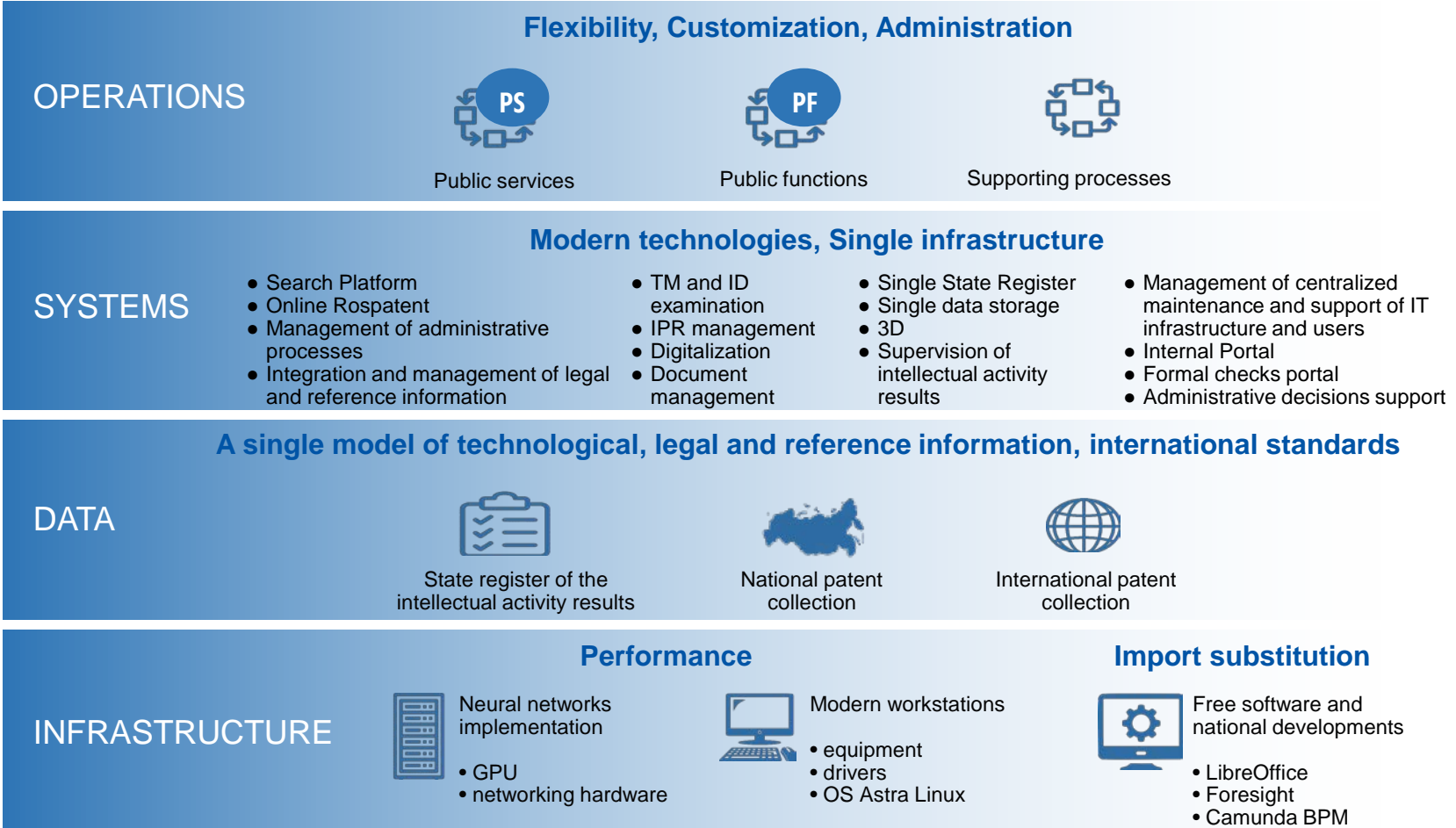
Society

International cooperation

SMART SEARCH

PUBLIC SERVICES

REGISTRATION AND SUPERVISION OF IPR MANAGEMENT



TECHNOLOGIES

- AI computer vision
- AI text analysis
- BIG DATA
- Omnichannel
- 3D models
- Seamlessness
- AI classification
- Information security
- Blockchain
- AI-based OCR
- OLAP
- AI translation

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OUTCOMES OF DIGITAL TRANSFORMATION IN 2019 - 2021

2019		2021
NO	All public services of Rospatent are available in electronic format	yes
5	Online application filing and registration	27
NO	Issuance of electronic titles of protection	yes
NO	Online disposal of rights	yes
NO	Professional search for trademarks and industrial designs	yes
NO	Publicly available information search services for the International patent collection and patent analytics allow to forecast the development of technological trends	yes
60%	High rates of search relevance for inventions due to the use of AI technologies	80%
NO	Filing 3D-models visual representations of Inventions, Trademarks and Industrial Designs	yes
NO	Free Access to Patent Big Data	yes

Beneficiaries



Scientists and Inventors



Scientific and educational organizations



Technology companies



Investors



Professionals

SEARCH PLATFORM OF ROSPATENT



Transition from a traditional software solution for retrieving patent documents to a platform comprising a wide range of services for data mining



The service ensures that at least 95% of search queries are executed within 1 sec since a query was accepted before the first result appears

The search service is capable of maintaining simultaneous work of at least **10 000 users** dropping its queries processing speed **no more than twice**

Basic Technologies:

Elasticsearch, MongoDB, Apache Kafka, Spark Streaming, Hbase, Hadoop, AI

IMPLEMENTATION IMPACT

Access to search services for stakeholders

Interaction with external resources

Principles of inclusiveness and accessibility of information

Free public access

Determining technological trends and commercialization areas

Improving the quality of patent search and examination



ARTIFICIAL INTELLIGENCE AS A BASIS FOR IP ECOSYSTEM INTEGRATION PROCESSES

Machine translation of patent documents and classifications
December 2021

Similarity search within the patent search system for examination of patent and utility model applications
December 2021

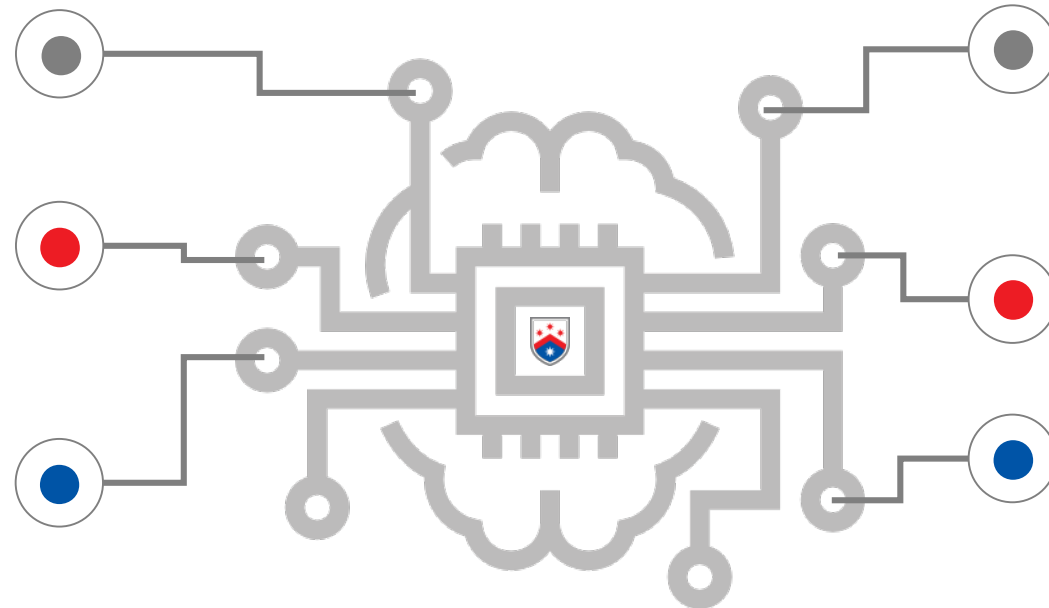
New search engine for trademarks and industrial design
December 2021

Key areas of AI implementation at Rospatent

Automated classification services for document
(IPC, CPC, Nice classification)
Quality improvement of structured data

Smart search for trademarks and industrial designs

Professional translation of patent document (10 various languages)
Reducing the time for data updates and increasing the relevance of world prior art



Forecasting services based on statistical models

- Patent activity monitoring based on algorithms of machine learning
- Forecasting the development of technological fields given the current situation

Online registration of IPRs
(Computer programs, trademarks, industrial designs)

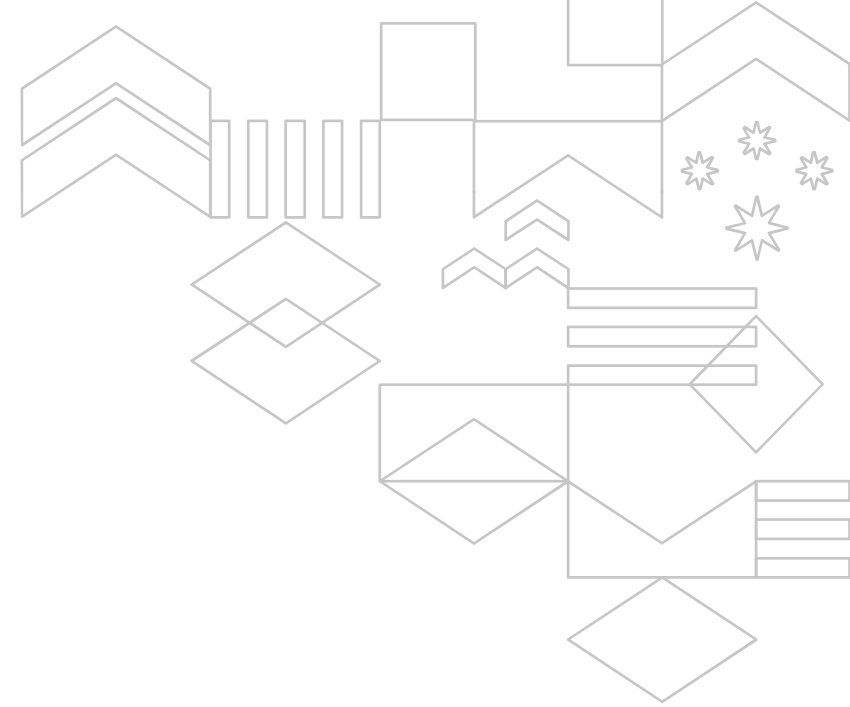
Applications processing services

- prioritization of applications taking into account strategic state directions
- automatic recognition of poor-quality repeated applications
- dataset markup tools



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THANK YOU FOR YOUR ATTENTION

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