

«FOUNDATION OF THE THEMATIC REMOTE SENSING DATA PROCESSING CENTER ON THE RUSSIAN TECHNOLOGIES BASIS»

 Adrov V.N., General Manager, Closed Corporation «RAKURS».
 Gomozov O.A., Head of Scientific-Production Complex, Joint-Stock Company «Precision Equipment Research Institute».
 Lobzenev V.N., General Manager, Closed Corporation «Innovation Technologies Center».
 Closed Corporation «Design Department PANORAMA». EARTH REMOTE SENSING INFORMATION SYSTEMS FOR RECEPTION, PROCESSING, DISTRIBUTION AND ASSIGNMENT TO USERS

ПРИБОРОЕ

Комплексы приема, обработки, распределения и доведения до потребителей информации дистанционного зондирования Земли

They insert antenna, receiver, information processing and archiving systems, which assign Earth remote sensing results as halftone images in coordination with spacecraft tools.

QUANTITY GEOSPATIAL PRODUCTION



Растровые электронные карты



Цифронне опоршне ортопланы



Электронные топографические

Ортопланы высокого пространственного разрешения - X

Цифровые модели рельефа

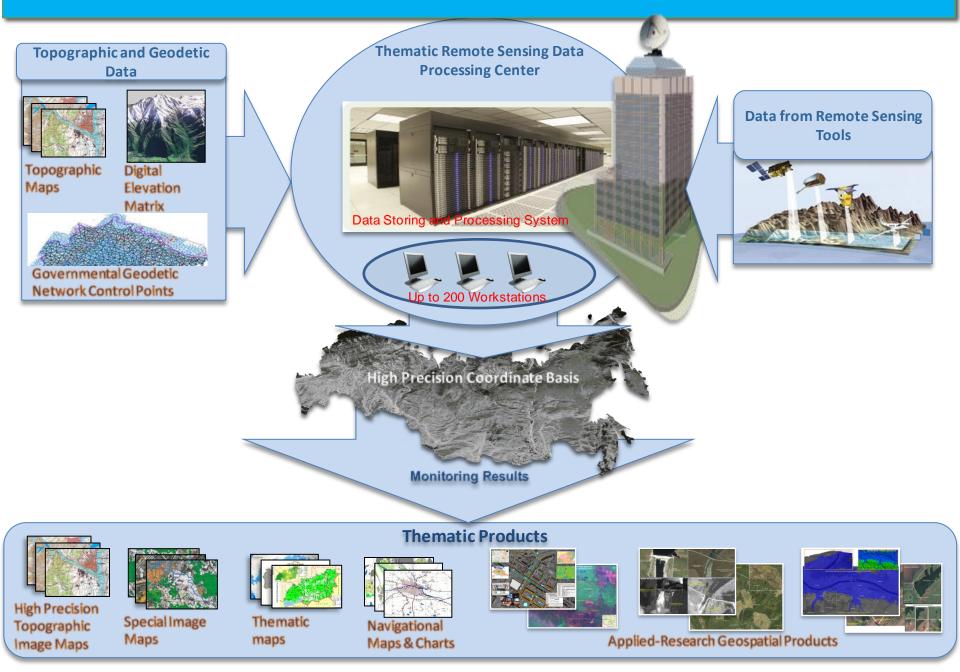
нии 🔫 Точных

ПРИБОРОВ

Трехмерные модели объектов, местности

Трехмерные модели местности

MANUFACTURED GEOSPATIAL INFORMATION PRODUCTION



CURRENT TASKS

Remote Sensing Data Photogrammetric Processing:

- Orthophotoplan Generation
- Seamless Covering Mosaics Generation
- Digital Elevation & Terrain Models Generation
- Multitemporal Data Sets Generation

Thematic Image Interpretation and Mapping:

- Geographic Framework and Terrain Plans Generation and Updating
- Thematic Spatial Data Actualization
- Thematic Mapping
- Web-Mapping and Geopartals

Prompt Monitoring:

- Emergency Monitoring
- Construction Activity Monitoring
- Environmental Pollution Monitoring

THEMATIC REMOTE SENSING DATA PROCESSING AND GEOSPATIAL PRODUCTION CENTER FLOWCHART



Software Configuration

System Software

OS Windows (servers, workstations)
DBMS PostgreSQL
Microsoft Office

Application Software

Digital Photogrammetric System «Photomod»

Digital Photogrammetric System «Photomod» Is Designed For Final Production Of All Types - Digital Elevation Models (DEMs), 3D-vectors, Orthophotoplans, Digital Maps. Company Producer - Closed Corporation «RAKURS» (Russian Federation)

9

PHOTOMOD[®]

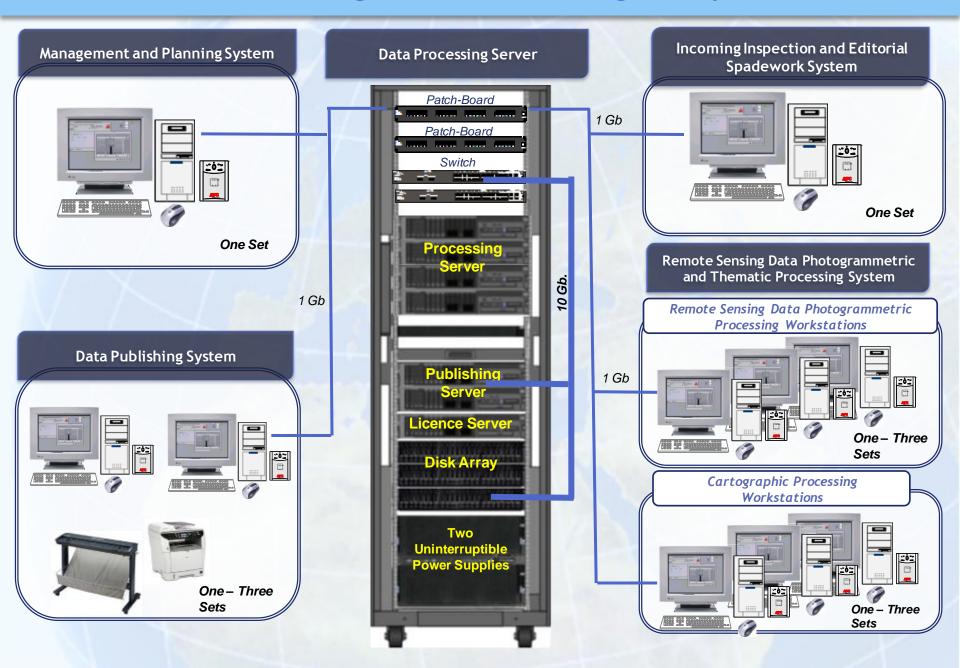
GIS «KARTA 2011»

GIS «KARTA 2011» - Geoin formation System Is Designed for Production and Updating Digital Image Maps, Measurement and Computation Execution. Company Producer - Closed Corporation «Design Department PANORAMA» (Russian Federation)

Geospatial Software «Image Media Center»

Geospatial Software «Image Media Center» Provides Spatial Data Processing and Analysis (Space Images & Vector Maps). Company Producer-«Innovation Technologies Center» (Russian Federation)

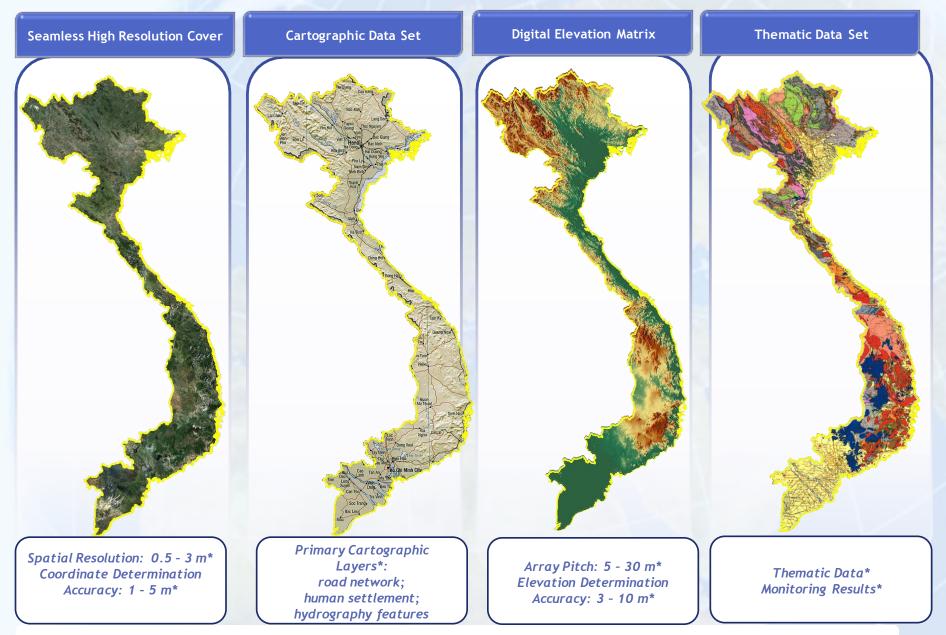
Remote Sensing Information Processing Delivery Set



Overall Center Characteristics

Characteristic	Center Option		
	Minimum	Basic	Advanced
Storage Type	Disks	Disks + Tapes	Disks + Tapes
Workstation Amount	25	50	120
Availability of Open And Confidential Circuits	Open	Open and Confidential	Open and Confidential
Server Room Amount	One not less than 16 m ²	One not less than 20 m ²	Two not less than 16 m² each
Workroom space, not less	165 m ²	Open Circuit - 198 m ² Confidential Circuit - 132 m ²	Open Circuit - 528 m ² Confidential Circuit - 264 m ²
Business Equipping	Large-format scanners, multifunction color, black & white equipment, large-format printers (plotters), wide-screen panels. Interactive panels (tables) - for basic and advanced Center options		
Power consumption (nominal)	36 kilowatt	Open Circuit - 56 kilowatt Confidential Circuit - 33 kilowatt	Open Circuit - 128 kilowatt Confidential Circuit - 59 kilowatt

Spatial Data Delivery Set

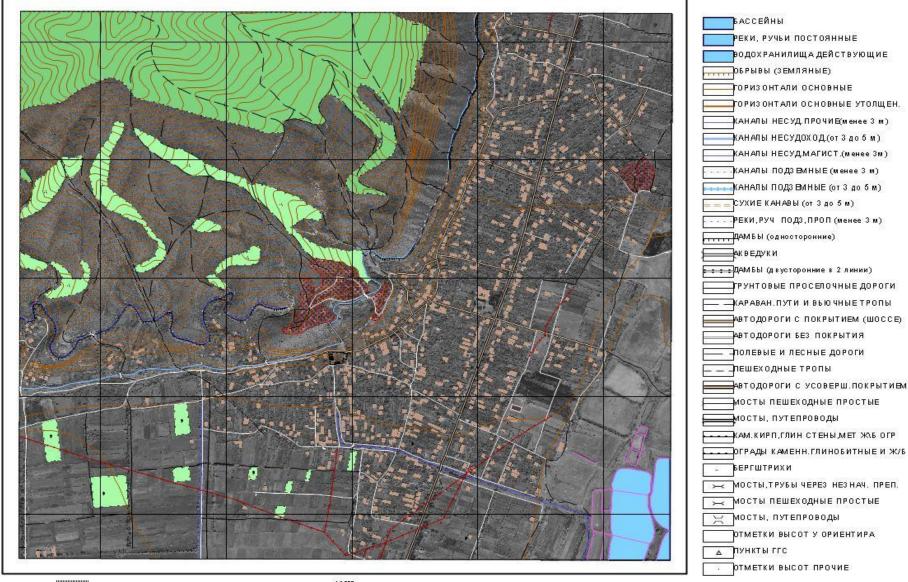


SEAMLESS HIGH SPATIAL RESOLUTION COVER

1000 KM

Seamless Covering Mosaic, being produced by space images with spatial resolution 0.5...2.5 m, adjusted for area geographical demarcation.

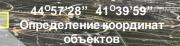
BASIC VECTOR LAYERS



15 000

.....

SOLID HIGH RESOLUTION COVER



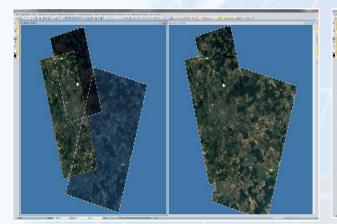
Характеристики БСП-ВР:

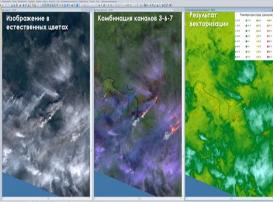
- пространственное разрешение 0,5 2,5 м;
- точность определения координат до <u>10 м.</u>

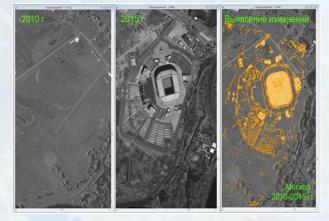
BASIC SOLID HIGH RESOLUTION COVER AND UAV'S IMAGES MULTIPURPOSE USING



THEMATIC TASK DECISION SAMPLES



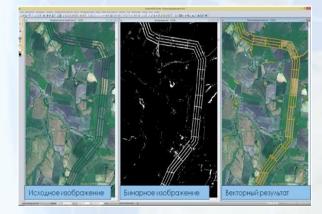




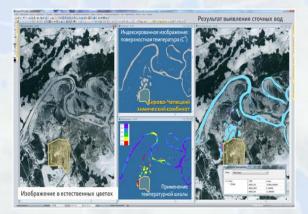
Seamless Covering Mosaic Generation

Fire Monitoring

Zone of Territorial Change Detection



Linear-Spreading Object Detection





Environmental Pollution Monitoring

Water Body Monitoring



Спасибо за внимание!

Thank You for Your Attention!