

Advanced Geospatial Solution for Infectious Disease Management, Russia



PROFILE

COMPANY: Russian State Research Center for Applied Microbiology and Biotechnology (SRCAMB)

WEBSITE: www.obolensk.org

DESCRIPTION: The Russian State Research Center for Applied Microbiology and Biotechnology (SRCAMB) is a unique laboratory and scientific complex that conducts applied research in molecular biology, immunology, and entomology to discover solutions for various health problems and modernize medicine and biotechnology.

INDUSTRY: Biomedical Research

COUNTRY: Russia

PRODUCT USED

- ERDAS IMAGINE®
- ERDAS APOLLO

KEY BENEFITS

- Provided a common framework for sharing and analyzing satellite imagery to assess environmental impact factors on disease transmission
- Enabled the organization to create a comprehensive catalog of geographic information
- Allows rapid web access to incident information



Along with understanding how to share the data effectively, different departments within different agencies need to access and process data in a variety of ways.



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NEED FOR GEOSPATIAL SOLUTIONS FOR DISEASE TRACKING AND MANAGEMENT

For a number of years, SRCAMB, in collaboration with NeoGeography R&D Group (Technopark Protvino), explored the various spatial and temporal dynamics of infectious diseases. However, the organization found that traditional GIS and spatial approaches had obvious limits.

By investigating new spatial-temporal approaches, SRCAMB was looking for better quality of analysis of heterogeneous datasets within a common 4D environment. They found that simultaneous spatial and temporal analysis significantly reduces the systematic errors and biases, providing a rich environment and proper level of situational awareness for the healthcare management.

SELECTION OF ERDAS IMAGINE® AND ERDAS APOLLO

To aid this effort, SRCAMB is implementing both ERDAS IMAGINE® and ERDAS APOLLO. ERDAS IMAGINE is the world's leading geospatial data authoring system, incorporating geospatial image processing and analysis, remote sensing, and GIS capabilities into a single powerful, convenient package. Its advanced tools for change detection and map production enable users to easily create value-added products from geospatial data. SRCAMB employs ERDAS IMAGINE to process and analyze satellite imagery to assess environmental impact factors. It also serves as an access point for acquiring relevant information to assist in the analysis of environmental impact factors and further advance medical research and development.

ERDAS APOLLO is the market-leading enterprise solution for managing and delivering geospatial data and imagery. It consistently delivers more data, faster and with less hardware than competing image serving products. As an interoperable OGC®/ISO-based solution, ERDAS APOLLO easily delivers feature data, terrain, and virtually any digital object in an enterprise. Using ERDAS APOLLO, SRCAMB



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