Expert Consultation and Meeting on Enhancing Geospatial Information
Management Arrangements and Accelerating Implementation of the Sustainable
Development Goals, and the Sub-regional Workshop on the United Nations
Integrated Geospatial Information Framework (UN-IGIF) for Central Asia, South
Asia, and neighboring countries

Kyrgyzstan's progress and perspectives towards developing UN-IGIF CAP

Astana, Kazakhstan 15-19 September 2025











Kyrgyzstan

STATE AGENCY FOR LAND RESOURCES, CADASTRE, GEODESY AND CARTOGRAPHY UNDER THE CABINET OF MINISTERS OF THE KYRGYZ REPUBLIC



Azamat Karypov – Expert on GIS









Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Legislative Evolution: Transition from paper maps to digital geospatial data



Law of 2002 – the "Paper Era"



 2002: Law on Paper Maps and Geodetic Networks.



Concept of Digital Transformation of the Kyrgyz Republic for 2024–2028



 2022: Establishment of the National Spatial Data Infrastructure (NSDI) program as a national priority.



Law of the Kyrgyz Republic

"On Geodesy, Cartography, and Spatial Data"

 202X: Introduction of a new law providing the legal foundation for digital spatial data, their exchange, and effective use.

Key Changes: Introduction of NSDI concepts, open data principles, and standards; strengthened protection of geodetic infrastructure.



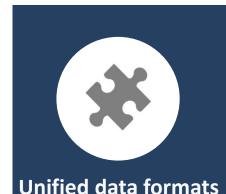






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Benefits of the Modern Legal Framework



Elimination of data duplication and introduction of data standardization

for all agencies



Simplified access to data

Direct online access — availability 24/7 via web interface



Opportunity to create geoservices and geoportals.

New products based on geospatial data



Improved accuracy and reliability of data

A solid foundation fo decision-making









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International Partnership: From Pilot Projects to Global Standards



• 2004–200 With In an edevelopment of the Master Plan for Issyk-kill Region

•2006 – 2009 Sweden project

• 2012–2013: With the FU - border delimitation with Tajikistar

2017-2018 Kyrgyz-Nørwegian Project – maps and statistics for sustain able

development

CIS: Active participation

• 2022-2025 Korean project Maps and Statistics for Sustainable Goals in

Kyrgyzstan.

Current Key Project:

Within cooperation with South Korea, a project is being implemented to transition to international geodetic standards and to introduce a modern geospatial data management system.







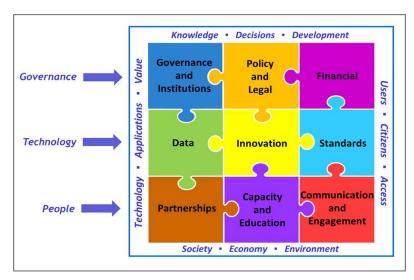


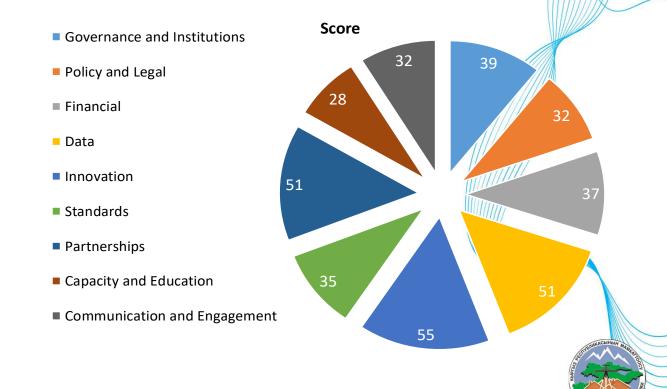
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he Interstate Council on Geodes and Cartography

Scores for the individual Strategic Pathways

Nine strategic pathways









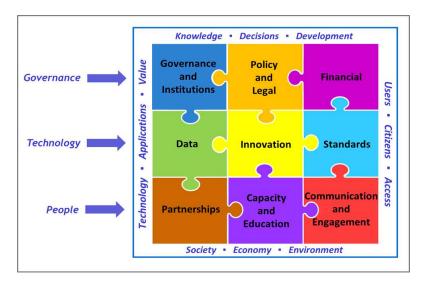


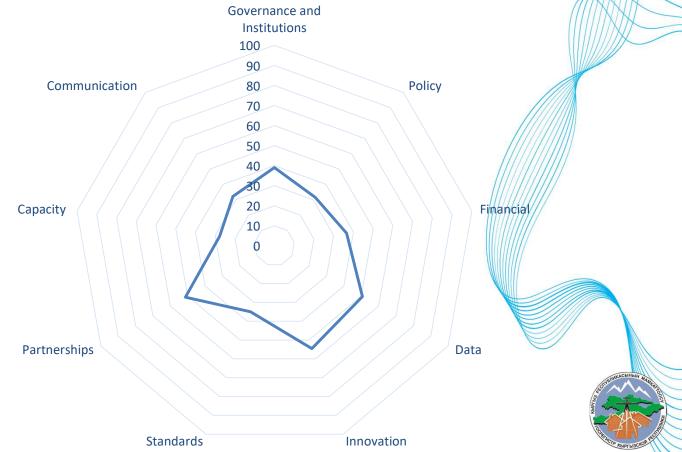


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Results – current status of pathways

Nine strategic pathways













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Kyrgyzstan – Country-level Action Plan (CAP) with UN-IGIF

































Creation of Ortophoto Maps





- In 2019 aerial photography has been carried out on 23,000 km2, including Bishkek and surrounding areas, settlements around Issyk-Kul Lake and the Ferghana Valley by the Kyrgyz-Norwegian project.
- Developing Geoportal for providing access to orthophotomaps for state and other stakeholders.

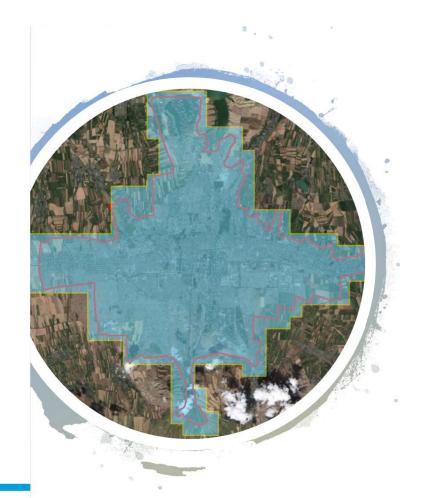








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Block 1: Bishkek

Survey area: 196 km2.

Photo plan resolution: 10 cm.

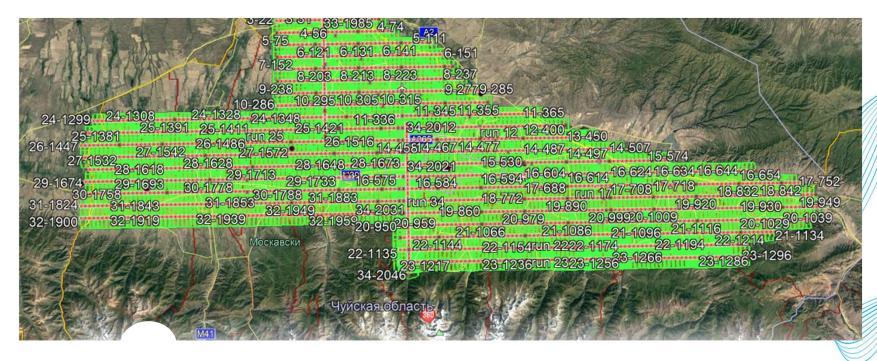








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Block 2: Chuy valley

Survey area: 4939 km2.

Photo plan resolution: 20 cm.









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Block 3: Issyk-Kul Valley

Survey area: 4660 km2.

Photo plan resolution: 20 cm.







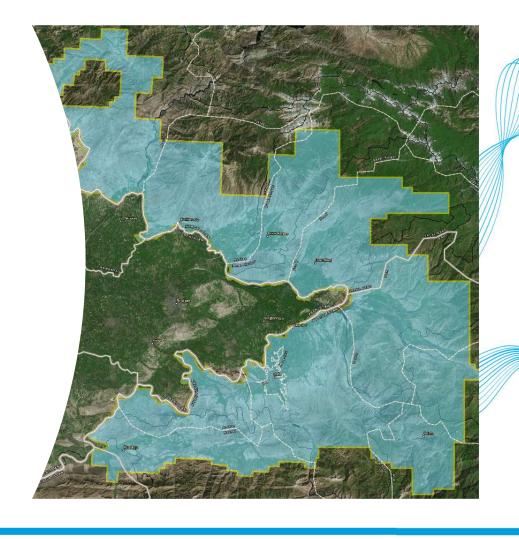


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Block 4: Ferghana Valley

Survey area: 13,447 km2.

Photo plan resolution: 20 cm.











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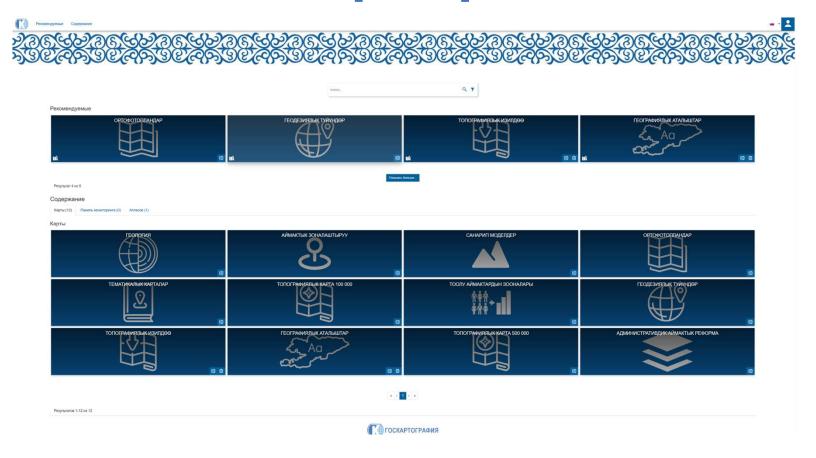






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BaseMap Geoportal







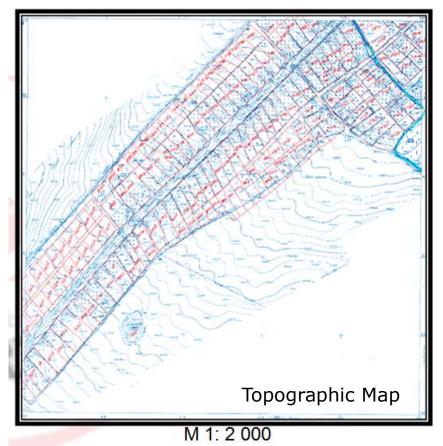


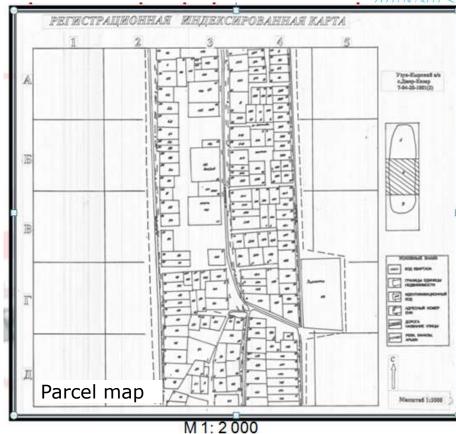




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Paper based Cadastral Map









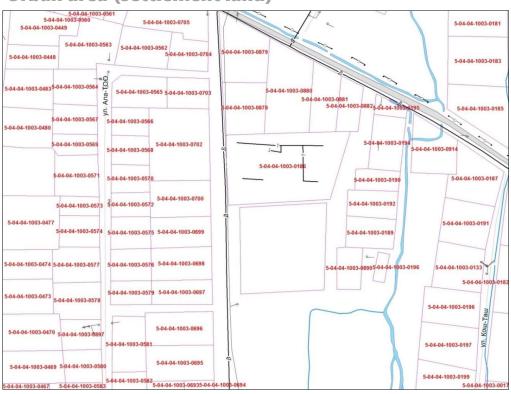




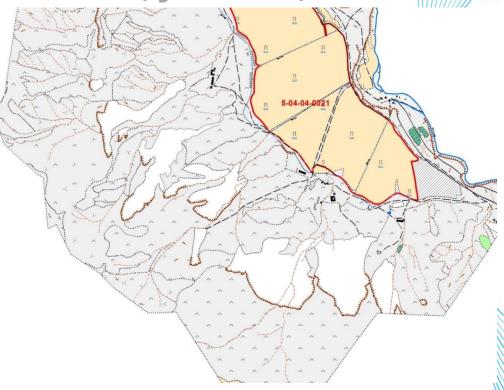
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Digital Cadastral Map

Urban area (settlement land)



Rural areas (agricultural land)











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Combination of Orthophoto with Cadastral map











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Combined map





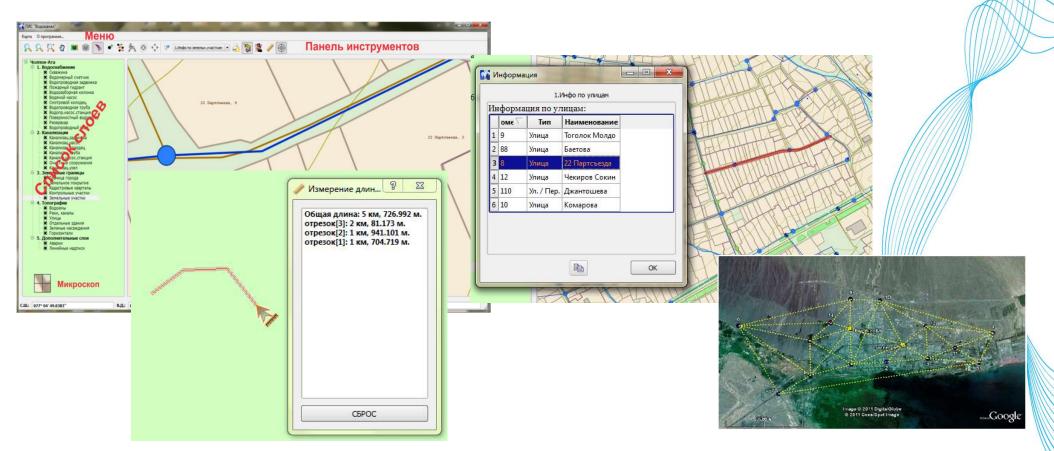






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Associated information











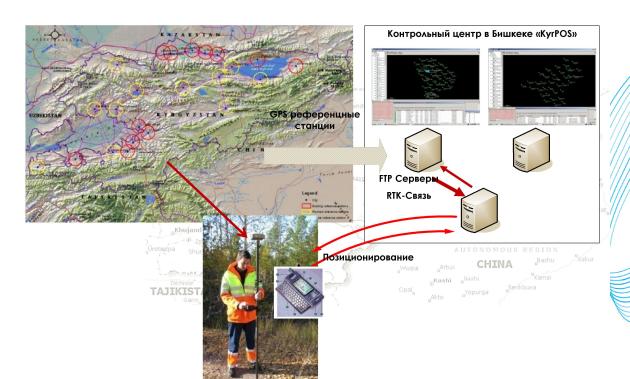
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KYRPOS (CORS)









The technology of satellite positioning by using RTK service by the KyrPOS -Control Centre of CORS Network



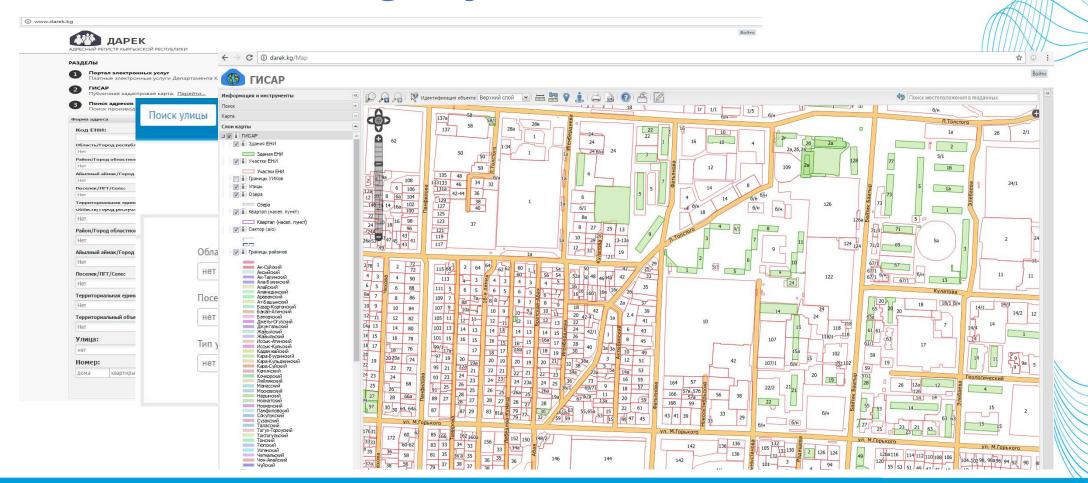






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Address registry - www.darek.kg





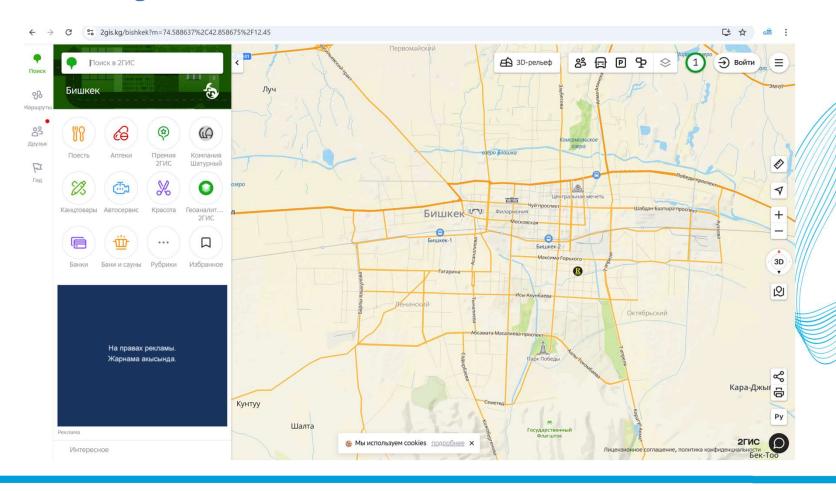






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2GIS - City information service – www.2gis.kg/bishkek











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E-Government portal - www.okmot.kg/





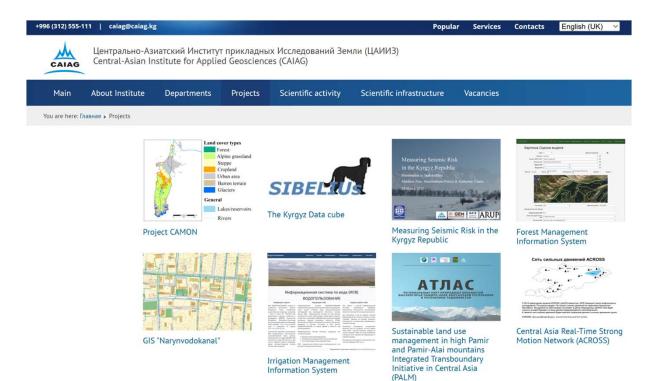


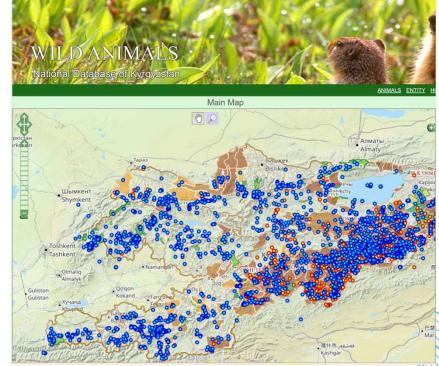




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CAIAG portal - www.caiag.kg, www.wildlife.caiag.kg, https://surl.li/blrpvg









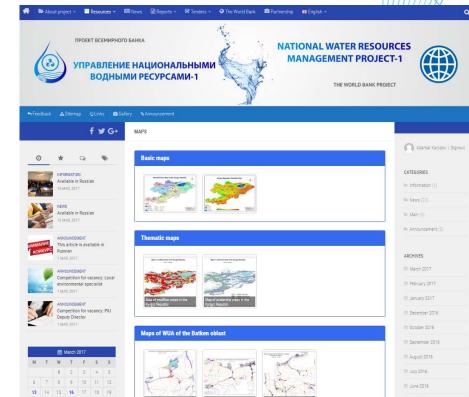




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National Water Resources- www.water.gov.kg







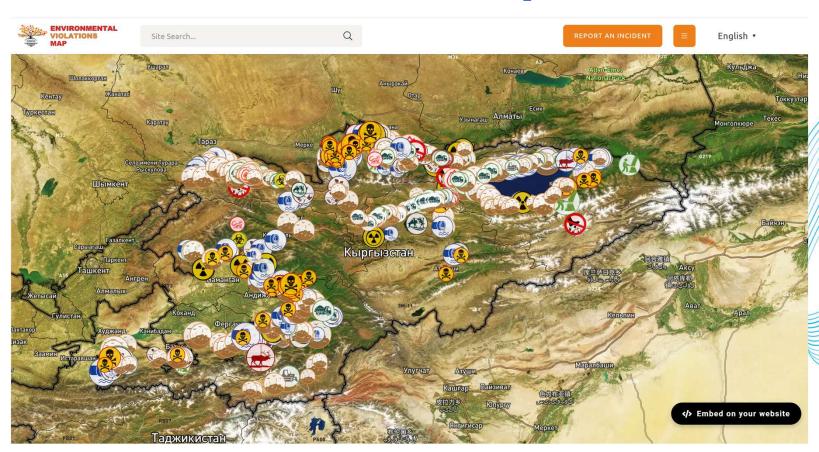






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Environment violation maps- www.ecomap.kg/en/





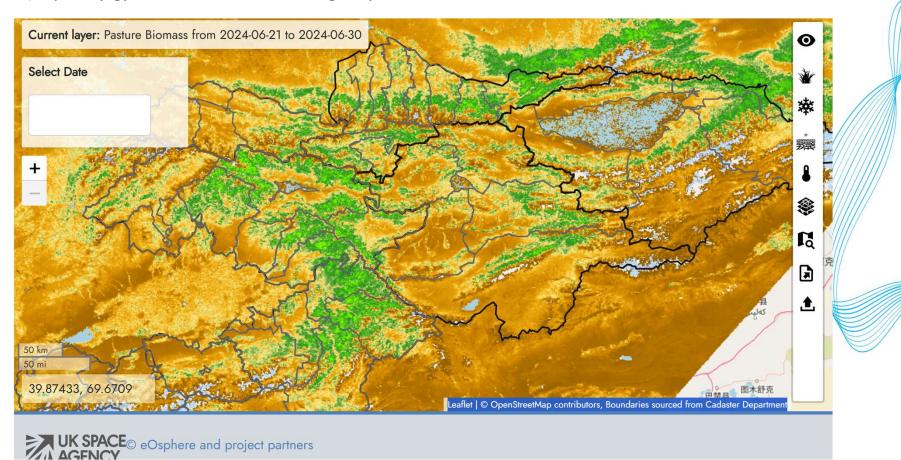






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Open Data Cube - https://surl.li/blrpvg (https://kyrgyzstan.sibelius-datacube.org/map/EN

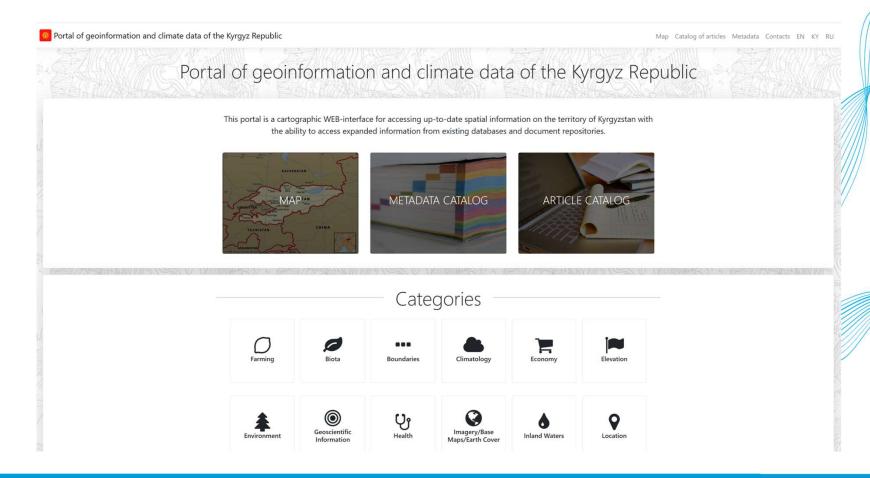






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NSDI Portal — www.nsdi.kg

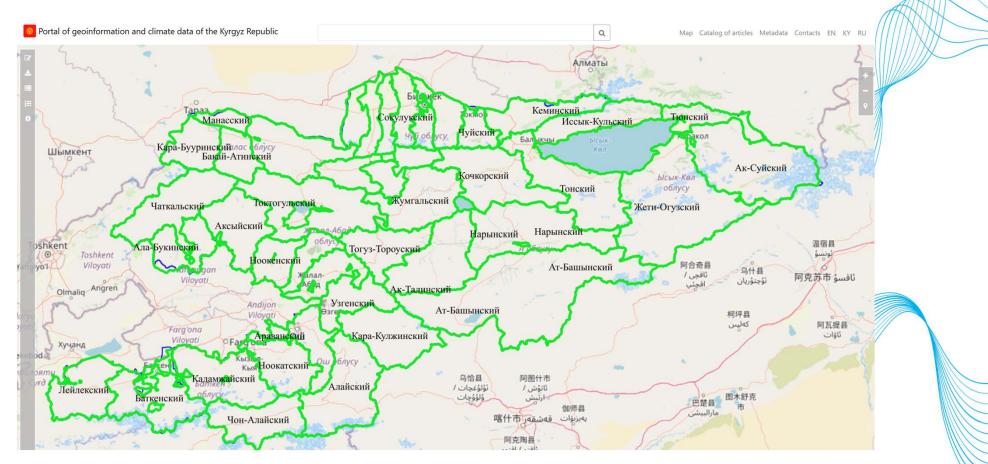






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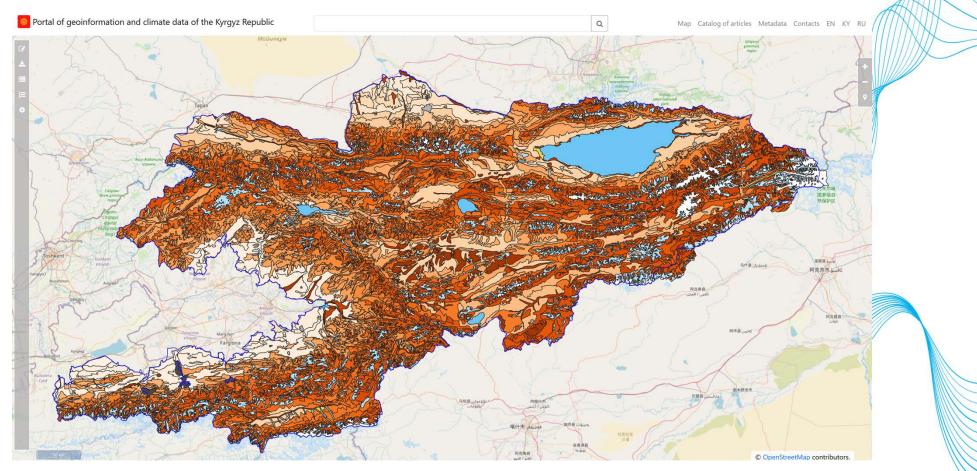






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Thank you for attention!

