Sayan Tadbir Niksan Co.
SINIC

From Spatial Data to Smart Decisions

Introduction to Capabilities and Flagship Projects

SINIC, a Reliable Partner in the Country's Digital Transformation



GIS-Based Systems

BPMS & Process Automation

Data Management & Spatial Intelligence

Reliable, Scalable Infrastructure

Information Security & Standards Compliance

Specialized Team & National Experience

SINIC
System Engineering and Development Co.

SINIC:
Developing National, Organizational, and Geospatial Systems

SINIC (System Engineering and Development Co.) has been active since 1998 in the field of information technology. The company specializes in the design, development, deployment, and support of national and organizational systems, with a focus on geospatial solutions.

With an expert team and specialized platforms in WebGIS and BPMS, SINIC provides comprehensive and reliable solutions for government organizations, large enterprises, and strategic projects.

25+ Years of Experience

Proven track record in developing software solutions for government and enterprise organizations

Specialized Platforms WebGIS + BPMS

Development of geospatial and process management systems

Geospatial and National Projects

Active in the fields of land, water, agriculture, energy, registration, and e-government services

System Integration and Implementation

API development, web services, and the integration of organizational information systems

Information Security and Infrastructure

Design of secure, scalable, and reliable systems

Some of Our Key Clients

- Judiciary and Legal Organizations
- Ministry of Roads and Urban Development
- Information Technology Organization of Iran
- Ministry of Agriculture Jihad
- Ministry of Economic Affairs and Finance



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SINIC Integrated Platform

WebGIS + BPMS

Geospatial, Process-Driven, Integrated

SINIC's proprietary platform combines advanced WebGIS and Business Process Management (BPMS) capabilities, enabling the rapid design and development of integrated, process-driven, location-enabled systems for government organizations and large enterprises.

Spatial Data Management
Display, analysis, and processing of spatial and descriptive information

Workflow & Process Management
Design and execution of organizational processes with an integrated BPMS

Form Builder & Document Management
Dynamic forms, documentation, and management of spatial cases/files

System Integration & Data Exchange
Connection to national and organizational systems through APIs and web services

Reports & Analytical Dashboards
Management dashboards, spatial reports, and statistical analytics

User & Access Management
Organizational structure, roles, and permission levels

Security, Stability & Scalability
Designed for mission-critical systems and high data volumes

Key Platform Capabilities

- Extensible and adaptable to organizational needs
- Deployable on enterprise infrastructure
- Web access and mobile version
- Analytical reports and management dashboards
- Integration with national systems
- Form builder and document management
- Process-driven BPMS
- Advanced WebGIS

Technologies in Use

Databases:
Oracle / MySQL / MongoDB / PostgreSQL

- OGC & GIS Standards
- Vector Maps & Satellite Imagery
- Service-Oriented, Scalable Architecture
- Docker / Kubernetes (Enterprise Deployment)
- API / Web Service Integration
- Enterprise Security & Monitoring

Ministry of Information and Communications Technology
Information Technology Organization of Iran

SINIC
System Engineering and Development Co.

National Land Management and Monitoring Solutions

Leveraging modern technologies for smart management of the country's land resources

Integrated Land Management Window System

One of the 23 priority e-government projects

An integrated system for facilitating land-related services and permits, improving oversight of land resources, and creating effective interaction between executive organizations and real and legal applicants. By integrating processes, increasing transparency, reducing ambiguity, and lowering time and cost, this system plays an important role in preventing corruption in the land sector.



Operational Use

A centralized gateway for access to information, services, and operational resources for users.

New Applicant Service Portal

Facilitates land-related service processes, reducing time, cost, and in-person visits.

Application Module

Supports standards-based exchange of data among land-sector organizations through the National Information Exchange Center and web services.

Inter-Organizational Interaction & Data Exchange

Integrates processes and enables electronic data exchange among related organizations.

Connected Organizations

- Housing Foundation of the Islamic Revolution
- National Land and Housing Organization
- Endowments and Charity Affairs Organization
- Land Affairs Organization
- Forests, Rangelands and Watershed Management Organization
- Organization for Registration of Deeds and Properties
- Ministry of Petroleum
- Ministry of Energy
- Ministry of Roads and Urban Development
- Supreme Council of Urban Planning and Architecture of Iran

More than 40 related organizations are connected to the system.

National Land Monitoring System

Monitoring unauthorized land-use changes

This system uses satellite imagery, GIS technology, and artificial intelligence to accurately detect direct and indirect land-use changes over time. Changes without registered permits are identified and recorded as violations.



Before-and-After Image Comparison

Analyzing land-use changes using satellite images from different time periods.

Detection of Unauthorized Changes with AI

Using AI algorithms to identify unauthorized changes.

Detection of Illegal Encroachments

Identifying unlawful construction and encroachments on public and national lands.

Support for Nationwide Land Protection

Providing accurate and timely information for monitoring and protecting the country's land resources.

Integrated Solutions for Government Asset Management and State Enterprise Information

National systems for management, oversight, and data-driven decision-making

SADA | Comprehensive National Asset and Property Management System

A comprehensive platform for building an integrated information base for assets and properties belonging to executive agencies, enabling better management and utilization, supporting documentation, oversight, auditing, and providing unified information for national-level decision-making.

Immovable Asset Management

- Registration and management of descriptive and spatial property information
- Land and real-estate information management
- Document management
- Ownership and title deed information
- Integration with property records



Registration Data Exchange & Document Workflow

Movable Asset Management

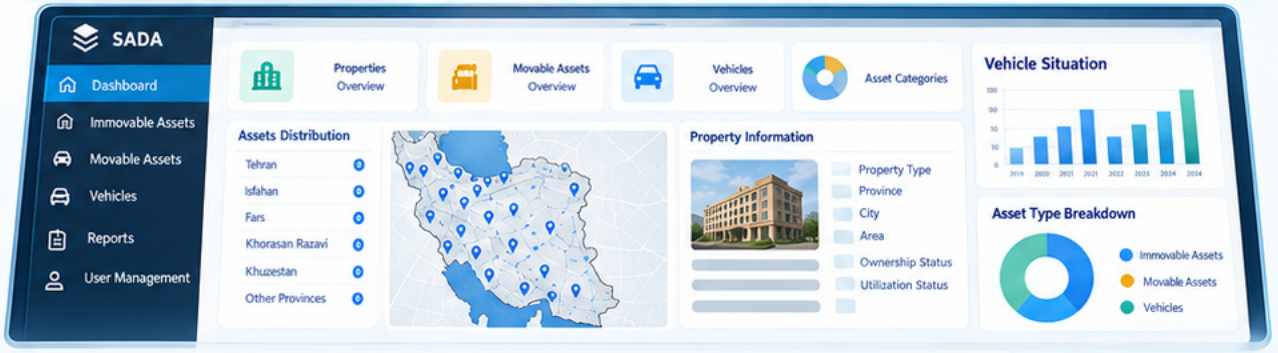
- Registration and control of movable assets and equipment
- Inventory management
- Consumption and depreciation
- Transfers and relocations
- Custody and maintenance responsibility



Vehicle Management

- Centralized vehicle information
- Allocation and utilization
- Repair and maintenance management
- Fuel consumption monitoring and control
- Transfer and disposal of vehicles





Asset Monitoring & Auditing
Support for control and auditing

Integrated Processes
Asset lifecycle management

Analytical Reports
Diverse and custom reports

Management Capabilities
Management dashboards

SAMAB | Centralized Information System for Enterprises, State-Owned Companies, and Public Non-Governmental Entities

A centralized system for collecting, organizing, and managing information related to enterprises, state-owned companies, and public non-governmental entities, providing integrated access to accurate information and management reports for the Ministry of Economic Affairs and Finance.



Enterprise & Company Information Aggregation
Creation of a centralized, up-to-date information repository

Centralized Organizational Information Profile
A data base for structure, activity, and status

Reports & Management Dashboards
Analytical reports for decision-making

Support for Oversight & Decision-Making
Reliable, integrated information for policymaking

Smart Solutions for Roads, Housing and Urban Development

Integrated systems for spatial data management, decision support, and specialized electronic processes

Land and Housing Organization

WebGIS Platform for Land and Housing Management

A comprehensive WebGIS-based platform for managing land and housing information, enabling integration of spatial data, properties, projects, and processes to support planning, monitoring, and decision-making.

Spatial Information Bank
Integrated land and property data

Layer Management
Display, analysis, and management of spatial layers

Advanced Search and Spatial Analysis
Powerful search and spatial analysis capabilities

Reports and Dashboards
Analytical and management reports

Decision Support
Tools for analysis and decision-making

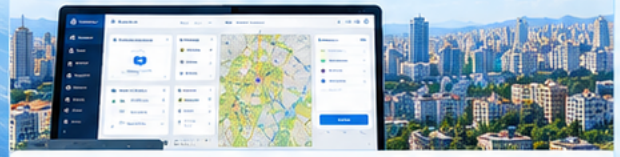
Integration with National Systems
Connection to related organizational systems



Municipality Systems

Urban Management and Supervision Platform

Integrated management of urban projects, permits, violations, and services, with spatial monitoring and analytical tools to improve urban governance.



- Project Management
- Permit Issuance and Tracking
- Monitoring and Inspection

Iran Airports Company

Response to Inquiries Platform

A unified platform for managing public and organizational inquiries, with integration to airport systems and spatial information, for faster and more accurate responses.



- Inquiry Management
- Integration with Airport Systems
- Tracking and Reporting

Zanjan Provincial Engineering System

Project Management Platform

Comprehensive management of engineering projects, contracts, documents, and field operations, with spatial monitoring and performance tracking.



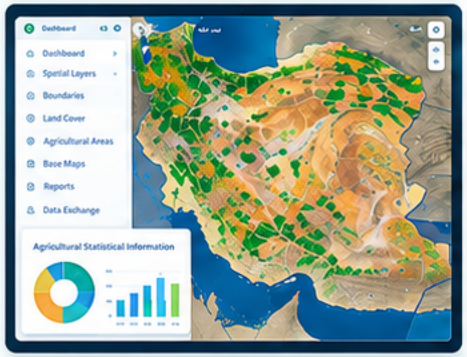
- Project Planning and Tracking
- Contract Management and Documents
- Field Operations Monitoring

Flagship Projects at the Ministry of Agriculture Jihad

Integrated geospatial systems for natural resources management, land affairs, water and soil, and agriculture

Iran Agricultural Spatial Information System (SAMKA)

Ministry of Agriculture Jihad

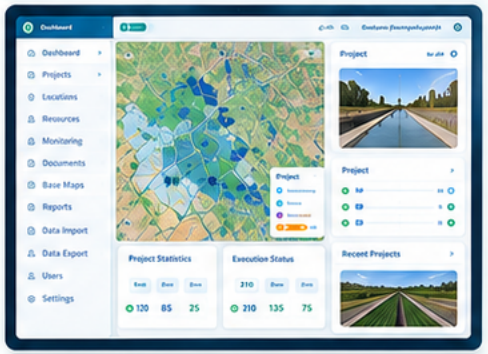


The Iran Agricultural Spatial Information System (SAMKA) was designed to create an integrated geospatial data infrastructure for the agricultural sector and to support monitoring and analysis of land status and agricultural products across the country.

- Agricultural geospatial data layers
- Monitoring and analysis of land status and crops
- Integrated access to thematic layers
- Decision support and macro-level planning

Agricultural Water and Soil Project Management System (SMPAK)

Ministry of Agriculture Jihad

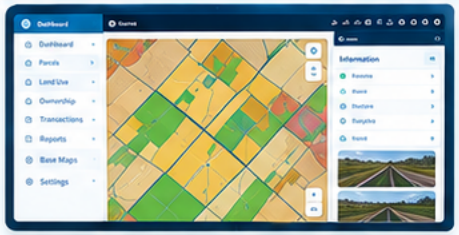


SMPAK is designed for planning, management, and monitoring of agricultural water and soil projects and provides geospatially enabled management of projects, resources, and performance indicators.

- Water and soil project management
- Progress monitoring and performance indicators
- Resource and budget management
- Geospatial view of projects and related information

Comprehensive Spatial Information System of the Land Affairs Organization (CMS)

Land Affairs Organization

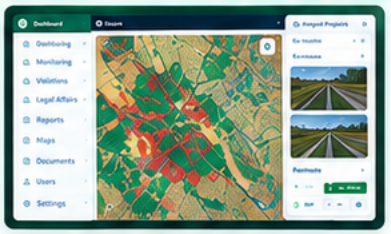


The CMS platform serves as the geospatial information infrastructure of the Land Affairs Organization, aiming to integrate land data, manage land-use changes, and support the organization's specialized business processes.

- National land geospatial information
- Land-use and change management
- Support for specialized processes
- Integration of land data

Comprehensive Protection and Land Affairs System (SEBA)

Natural Resources and Watershed Management Organization



SEBA is designed for integrated management of land protection and land affairs, including the monitoring of violations, protection of national lands, and support for legal and executive processes in the land domain.

- Monitoring and protection of national lands
- Management of violations and land-use changes
- Support for legal and executive processes
- Analytical and management reports

Comprehensive Natural Resources Management System of Iran (SMTA)

Natural Resources and Watershed Management Organization



SMTA is designed for integrated management of natural resources, forests, rangelands, and watersheds, with capabilities for analysis, monitoring, and sustainable planning of natural resources.

- Forest and rangeland information management
- Monitoring and analysis of natural resources
- Sustainable planning and development of natural resources
- Integration of national data and reports

Agricultural Crop Pattern Management System (AREEO)

Agricultural Research, Education and Extension Organization



The AREEO crop pattern management system uses regional and agricultural data to support planning and decision-making at national and provincial levels.

- Crop pattern planning
- Use of spatial and regional data
- Crop performance analysis and monitoring
- Support for national and provincial decision-making

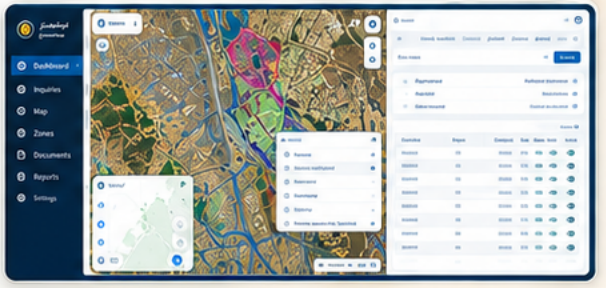
Sample Projects in Executive Organizations of the Country

Specialized systems for spatial, infrastructure, and process data management

Ministry of Cultural Heritage, Tourism and Handicrafts
Islamic Republic of Iran

Inquiry Response System for the Land Single Window

An online platform for delivering inquiry and response services within the framework of the Land Management Single Window, aimed at facilitating information exchange, reducing in-person visits, and accelerating processes related to land and legally protected zones in the fields of cultural heritage, tourism, and handicrafts.



- Inter-organizational data exchange
- Online inquiry response
- Management of legal boundaries and zones
- Integration with the Land Management Single Window

Judiciary of the Islamic Republic of Iran
National Organization for Registration of Deeds and Properties

Orthophoto Image Management System

More than 100 terabytes of aerial imagery are stored and managed in this system.

Centralized management of orthophoto imagery across different scales and time periods, with capabilities for storage, processing, display, and service delivery to cadastral systems and other organizational systems.



- Storage and management of massive data volumes (100+ TB imagery)
- Display and comparison of different time periods
- Processing and production of spatial products
- Service delivery to cadastral and organizational systems

Ministry of Energy
Zanjan Regional Electric Company

Comprehensive Transformer Monitoring System (GC)

Centralized monitoring of the status of network transformers using spatial data, equipment information, and operational indicators, along with analytical reporting to improve maintenance and increase network reliability.

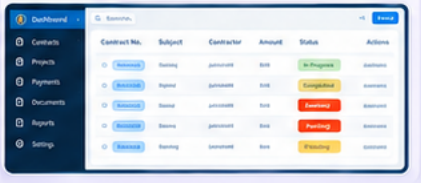


- Transformer status monitoring
- Spatial visualization and network analysis
- Operational alerts and performance indicators
- Management and analytical reports

Zanjan Municipality

Peymano System

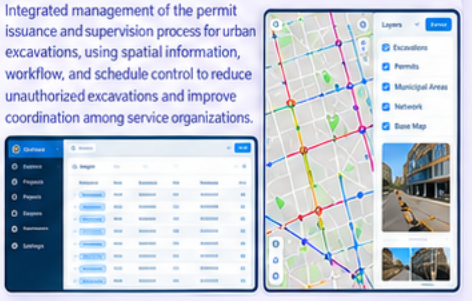
Comprehensive management of processes related to municipal contracts, agreements, and projects, from registration and notification to execution monitoring and payments.



- Contract and agreement management
- Project monitoring

Municipal Excavation Process Management System

Integrated management of the permit issuance and supervision process for urban excavations, using spatial information, workflow, and schedule control to reduce unauthorized excavations and improve coordination among service organizations.



- Spatial management of excavations
- Workflow management
- Field supervision and control
- Analytical and statistical reports

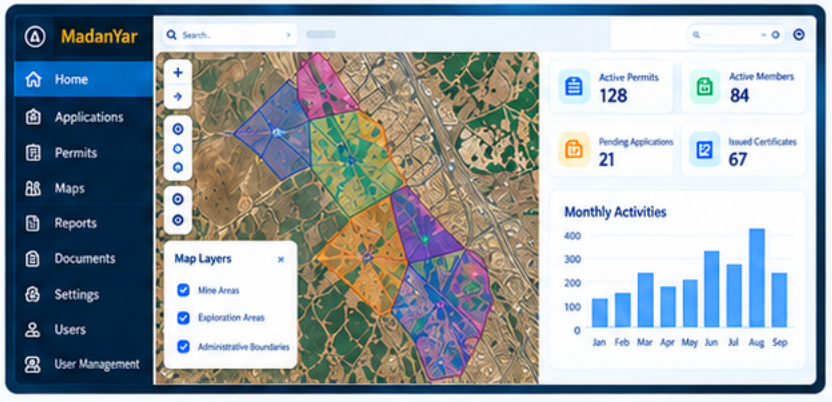
Flagship Projects at the Ministry of Industry, Mine and Trade

Specialized systems for governance, management, and development of the mining sector

Zanjan Province Mining Engineering Organization

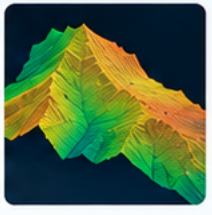
MadanYar System

A comprehensive electronic services platform for the Zanjan Province Mining Engineering Organization, designed to deliver, manage, and monitor engineering services, permits, and operational processes related to mining activities.



- Permit issuance and inquiry management
- Spatial mining boundaries and map layers
- Member and engineer management
- Process monitoring and reporting



Private Mines

Business Process Management System (NavidYar) | BPMS

The BPMS platform for the Navid Copper Complex is designed with an organizational, industrial, and mining-oriented approach. It serves as the core process backbone for integrating extraction, leaching, SX-EW, laboratory, finance, and human resources data in a unified environment.







- Operational data integration
- Digitization of mining processes
- Performance monitoring and analysis
- Compliance with global standards
- Contractor and workforce management

Objectives and Standards

- Develop an industrial BPMS infrastructure connected to real-time production, mining, and financial data
- Integrate data from the mine, heap/tank leaching, SX-EW, laboratory, Rahkaran, and PLC systems, with support for recording past results
- Digitize exploration and open-pit extraction workflows, from block design to contractor management
- Create analytical models for plant processes based on global KPIs such as Recovery, Throughput, and Energy Efficiency
- Improve OEE and reduce unplanned downtime by at least 20%
- Document processes based on BPMN 2.0 and aligned with ISO 55000
- Provide training and phased organizational adoption
- Design an offline sync mechanism with the central server in Tehran

Sabayan Tadbir Nikan Co.
SINIC

Permits and Certificates

Supporting the delivery of professional, secure, and reliable services

Company Activity License

Issued by: Computer Organization, Zanjan Province



- Membership in the Computer Organization of Zanjan Province
- Licensed to operate in the field of Information and Communications Technology
- Verification of the company's legal identity and eligibility

Informatics Qualification Certificate

Issued by: Planning and Budget Organization of the Country



- Custom software production and support
- Consulting services and information systems deployment
- Software development and maintenance

Knowledge-Based Certificate

Issued by: Vice Presidency for Science, Technology and Knowledge-Based Economy



- Recognized as a knowledge-based company
- Technology domain: Information technology, communications, and computer software
- Approval type: Emerging

Technical Services Activity License

Issued by: Iran Information Technology Organization



- Licensed to operate in the technical services domain
- Under the supervision of the Iran Information Technology Organization
- Two-year validity and renewable
- Authorized for projects related to the National WebGIS platform

Security Certificate for the Production and Exchange of Information (AFTA)

Issued by: AFTA Strategic Management Center



- Qualification approval in the field of information security for production and exchange of information
- Issued by the AFTA Strategic Management Center
- Related to the National WebGIS system and associated infrastructures

Legal and Registration Information

Company Name	Sabayan Tadbir Nikan Company (SINIC)
Legal Type	Private Joint Stock
Year Established	1393
Registration No.	10780
National ID	14004749097

Other Official Permits and Approvals

- AFTA Personnel Security Qualification Certificate for experts and project-related staff
- Value Added Tax Registration Certificate
- Valid company activity license and registration documents in accordance with legal scopes

Standards and Frameworks Used

BPMN 2.0	Business process modeling
OWASP Top 10	Security principles in software development
RBAC / ABAC	Access control models
Modular, scalable, service-oriented architecture	
(CIA Triad)	Confidentiality, integrity, and availability
Cybersecurity requirements and passive defense	
OpenAPI Specification	Interface documentation standards
RESTful API Design Principles	Web service design principles

Key Capabilities

- Development of organizational systems and e-government solutions
- Implementation of process-oriented systems (BPMS)
- WebGIS development and spatial information management
- Systems integration and information exchange
- Development of scalable solutions for public and government organizations

SINIC
System Engineering and Development Co.

SINIC's Specialized Team and Human Capital

A combination of experience, expertise, and commitment for delivering national and organizational projects

SINIC relies on specialized human capital, stable technical infrastructure, and hands-on experience in implementing national and organizational projects. In the fields of spatial systems, organizational processes, and data management, our team delivers innovative solutions by combining quality, security, and technical expertise, and remains alongside the client from requirements analysis to deployment and support.

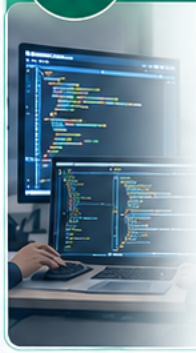


Management & Analysis



- Project Management
- Business Analysis
- System Architecture
- Requirements Management
- Project Planning and Control

Software Development



- Development of enterprise systems
- BPMS and workflow
- WebGIS and spatial systems
- API design and development
- Integration with organizational and national systems

Data & Databases



- Database design and management
- Spatial data management
- Big data processing and analysis
- Data modeling and standardization
- Integration of heterogeneous data sources

Infrastructure & Technical Operations



- Infrastructure design and deployment
- Monitoring and automation
- High Availability and scalability
- Monitoring and operations
- Version management and continuous deployment

Security & Quality



- Information and infrastructure security
- Quality assurance and testing
- Access control and auditing
- Risk management and service continuity
- Deployment based on standards

Deployment & Support

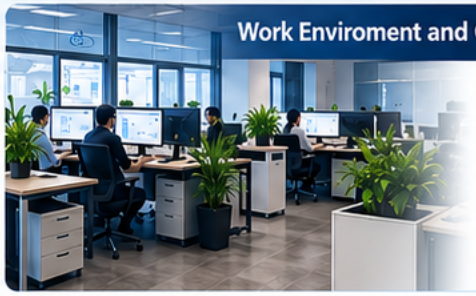


- System deployment and launch
- User training
- Support and maintenance
- Continuous improvement and phased development
- Long-term partnership with the client

Key Strengths of Our Team

- Experience in delivering national and organizational projects
- Combination of technical, spatial, and process expertise
- Personnel with AFTA security qualification
- Quality-driven approach and international standards
- Cross-functional and agile collaboration
- Commitment to outcomes and long-term support

Work Enviroment and Organizational Culture



- Continuous learning and innovation
- Teamwork and accountability
- Focus on quality and client satisfaction
- A professional and dynamic workplace

Reliable, Stable, and Future-Ready Infrastructure

A trusted foundation for mission-critical services

Sayan Tadbir Niksan Co. relies on two independent data centers, advanced enterprise servers, a dedicated fiber network, and distributed storage to provide secure, stable, and scalable infrastructure for critical and mission-oriented systems.

Sayan Tadbir Niksan Co.
Smart Solutions, Reliable Infrastructure

Tehran Data Center — Primary Data Center



- Dedicated Fiber: **100Mb/s**
- Backup Radio Link: **20Mb/s**
- **24×7** Security & Monitoring

Continuous Data Synchronization

Replication and data consistency across two independent centers

- **Failover** — Service Continuity
- Continuous Synchronization
- 24×7 Security & Monitoring

Zanjan Data Center — Backup Data Center



- Dedicated Fiber: **100Mb/s**
- Backup Radio Link: **20Mb/s**
- **24×7** Security & Monitoring

Enterprise Server Infrastructure



HPE ProLiant DL380 Gen9

- **2 × Intel Xeon E5-2680 v4** (14 cores / 28 threads per server)
- **768 GB RAM** per server
- **6 Enterprise Servers** with high availability and management capabilities

Virtualization and Integrated Resources

Using virtualization technology to consolidate compute, storage, and network resources, with the goal of improving efficiency, flexibility, and cost optimization.

vmware vSphere | PROXMOX



Infrastructure at a Glance

2 Independent Data Centers Tehran & Zanjan	**6** Enterprise Servers HPE DL380 Gen9	**336** Logical Cores (vCPU)	**768 GB** Main Memory (RAM)	**+100 TB** Distributed Storage with 3-way replication	**2×10Gb** Dedicated Fiber Network between storage clusters	**24×7** Monitoring & Observability Zabbix + Splunk	**Multi-layer** Security Firewall, IDS/IPS, Access Control

Benefits of Our Infrastructure

- **High Availability** — Reduced downtime and increased service stability
- **Security in Depth** — Multi-layer protection for data and services
- **Business Continuity & Disaster Recovery** — Fast synchronization and recovery in crisis situations
- **Scalability and Flexibility** — Increase capacity and resources without disruption
- **Cost Optimization** — Efficient use of resources and load distribution between two centers