

LAYERMARK

LayerExchange

Geospatial Data

Integration & Transformation Platform



 +1 (202) 867-8444

 www.layermark.com

 info@layermark.com

LAYERMARK

LAYERMARK
VISION DEFINED SOLUTIONS

**We specialize in uncovering and
exploiting hidden benefits and
uses for your geospatial data.**

Uncovering and exploiting hidden benefits of GIS

Geographic Information Systems (GIS) offer a wide range of opportunities across various fields due to their ability to analyze and visualize spatial data effectively. The versatility of GIS systems makes them invaluable tools across a broad spectrum of fields, offering significant opportunities for enhancing efficiency, understanding complex spatial dynamics, and solving real-world problems. Here are some key opportunities presented by the use of GIS:

- Improved Asset/Resource Management
- Disaster Management and Response
- Urban Planning and Infrastructure Development
- Environmental Protection and Conservation
- Agricultural Applications
- Public Health and Epidemiology
- Transportation and Logistics
- Crime Analysis and Public Safety
- Educational and Research Applications
- Community Engagement and Public Participation
- Real Estate and Property Management
- Historical Research and Cultural Studies
- Climate Change Analysis and Modeling

Challenges adopting GIS solutions

The effectiveness of a GIS is highly dependent on the quality and accuracy of the data fed into it.



Data Quality & Accuracy

Inaccurate, outdated, or incomplete data can lead to erroneous conclusions and decisions.



Integration & Compatibility

Integrating data from various sources can be challenging due to differences in technologies, formats, scales, or coordinate systems.



Complexity & Maintenance

Working with multi-dimensional spatial data and integrating with other systems requires careful planning and implementation.



Costs

The cost of maintaining GIS, managing large datasets and integrating new softwares can be substantial, especially for complex GIS implementations.



Building a Solid GIS Infrastructure

Building a solid GIS (Geographic Information System) architecture involves careful planning and consideration of various technical and organizational aspects. A well-designed GIS architecture ensures that the system is scalable, reliable, and capable of meeting the diverse needs of its users. Here are key steps and considerations in building a solid GIS architecture:

- Data Management & Scalability
- Performance & Reliability
- Comprehensive Data Analysis & Reporting
- Interoperability
- Customization & Flexibility
- Security & Privacy
- Maintainability
- Cost-Effectiveness



LAYERMARK

LayerExchange

**LayerExchange Integration
Platform helps you address
challenges and build a rock solid
GIS infrastructure at Low Costs.**

LayerExchange Platform

No-Code Geospatial Data Exchange & Integration Hub

LayerExchange is a no-code integration platform simplifying integration process between your current and new applications. It runs as a configuration hub to integrate applications and transform data into meaningful values for each application. It allows you to define and to trigger business processes using flow engine in few steps. It enables developers to integrate applications while minimizing effort.



High Performance

Reduces direct access to big data sources and boosts application performance.



Easy to Use

User-friendly GUI allows you to integrate without coding.



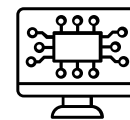
Deploy Anywhere

On-Premise & Cloud Ready



Key Benefits

- **Reduce costs** by minimizing development efforts
- **Deliver** new applications **up to 5x faster**
- **Standardize integration process** between applications
- **Integrate applications**, that are **unaware of each other**
- **Boost performance** with enhanced data processing algorithms
- Make **best use of your data** by data enrichment



All the Features You Need To Create a Robust GIS Architecture



LayerExchange covers all the features you need to integrate your applications and provide services to create new integrated applications. Its data processing algorithms reduces transactions to data source systems allowing faster utilization of web services. **All without coding!**



System Integration

Register your systems, map data, define business process and start operating. All from Web UI.



API Proxy Service

Serve your web services to 3rd party developers while filtering data and masking original service.



Data Gathering & Streaming

Gather data from multiple sources and stream it with the endpoint you define.

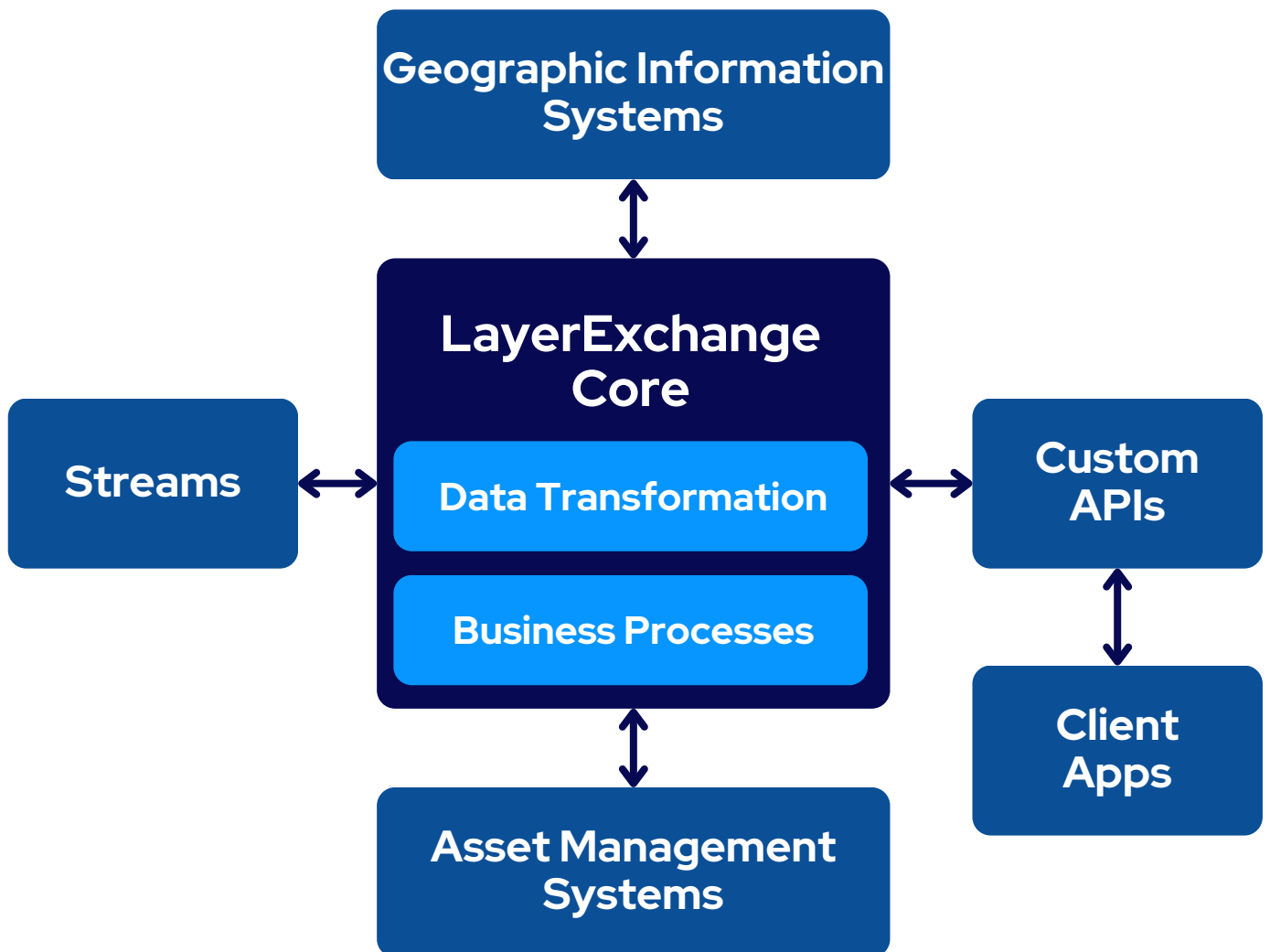


Data Transformation & Enrichment

Sync/Transfer data from one system to another while transforming it into meaningful values for each system.

No Code Required

LayerExchange already addressed
complexity and performance
concerns



System Integration



All from user-friendly Web UI

LayerExchange simplifies integrations with its user interface. Its unique architecture handles big data in a way to reduce transactions with data sources to boost integration performance.

1. Connect your system, introduce its data model and api endpoints.
2. Define data structures of which you want to work with.
3. Draw your business processes using flow engine and set actions for each process.
4. Configure handlers to trigger business processes with sync or async options available to get best performance.

API Proxy Service

LayerExchange allows you to mask your API endpoints and share it with 3rd parties from a different URL that you define. Its data simulation feature helps you quickly limit which data/parameters to serve from proxy endpoint. It supports necessary HTTP Methods; such as, GET, POST, PUT, DELETE.



Data Gathering & Live Streaming

LayerExchange is capable of gathering data in a preferred structure from multiple sources, including sensors, live streams, databases, APIs, and other external applications. Additionally, it is equipped with the capability to facilitate live streaming of this data, ensuring real-time access and analysis.



Data Transformation



LayerExchange helps you automate how you interpret, convert, and harmonize data from diverse sources and formats. This capability ensures that data, regardless of its original structure or platform, can be integrated and utilized effectively across various applications and systems.

LAYERMARK

VISION DEFINED SOLUTIONS



Contact us!

 info@layermark.com

 +1 (202) 867-8444

 www.layermark.com