Connecting the Dots: Building a Unified Healthcare Integration Hub with WSO2

WSO2 Asia Conference July 29-31, 2025
Colombo, Sri Lanka

zeomega

About Me

Britto Arul , Head of Interoperability Engineering, Zeomega

Twenty-seven years of experience in Healthcare Information technology

Have been part of Healthcare Digital transformation Journey since 1999

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About Zeomega

Founded in 2001

Headquarters in Frisco, Texas, USA

To empower healthcare organizations with innovative population health management solutions.

Core Product

- Jiva: Integrated population health management platform

Key Features

- Care Management, Utilization Management ..etc
- Data aggregation ,analytics
- Patient engagement

Technology

- Python, SQL Server, zope5
- API Gateway : WSO2 API Manager
- Developer Portal : WSO2 Choreo

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HealthUnity Interoperability Platform

HealthUnity® is a comprehensive **interoperability platform** from ZeOmega purpose-built for advancing payer-provider collaboration and value-based care

Payer & Provider Experience

- 20+ years providing UM/PA workflow automation solutions for 40+ payers nationwide (ZeOmega Jiva)
- 10+ years providing Health Information Exchange solutions for regional provider networks

Industry-Aligned

- Founding member of HL7 DaVinci Project
- Compliance solutions for CMS-9115, CMS-0057, ONC 21st Century Cures Act

Vendor Agnostic

- HealthUnity™ interoperability platform connects PA ecosystem vendors (EMR, UM, CDS, etc.) using composable architecture, combines support for both standards-based and proprietary APIs

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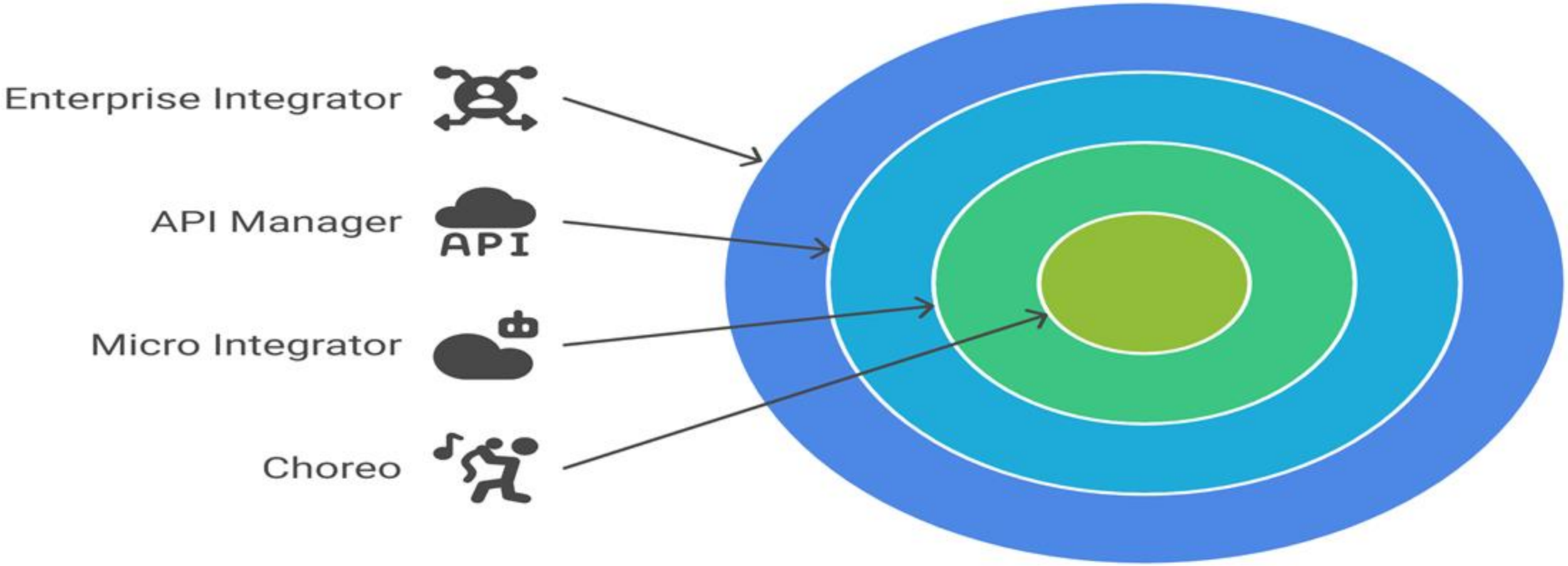
Zeomega's Integration Journey with WSO2



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Connecting Dots in Healthcare Integration

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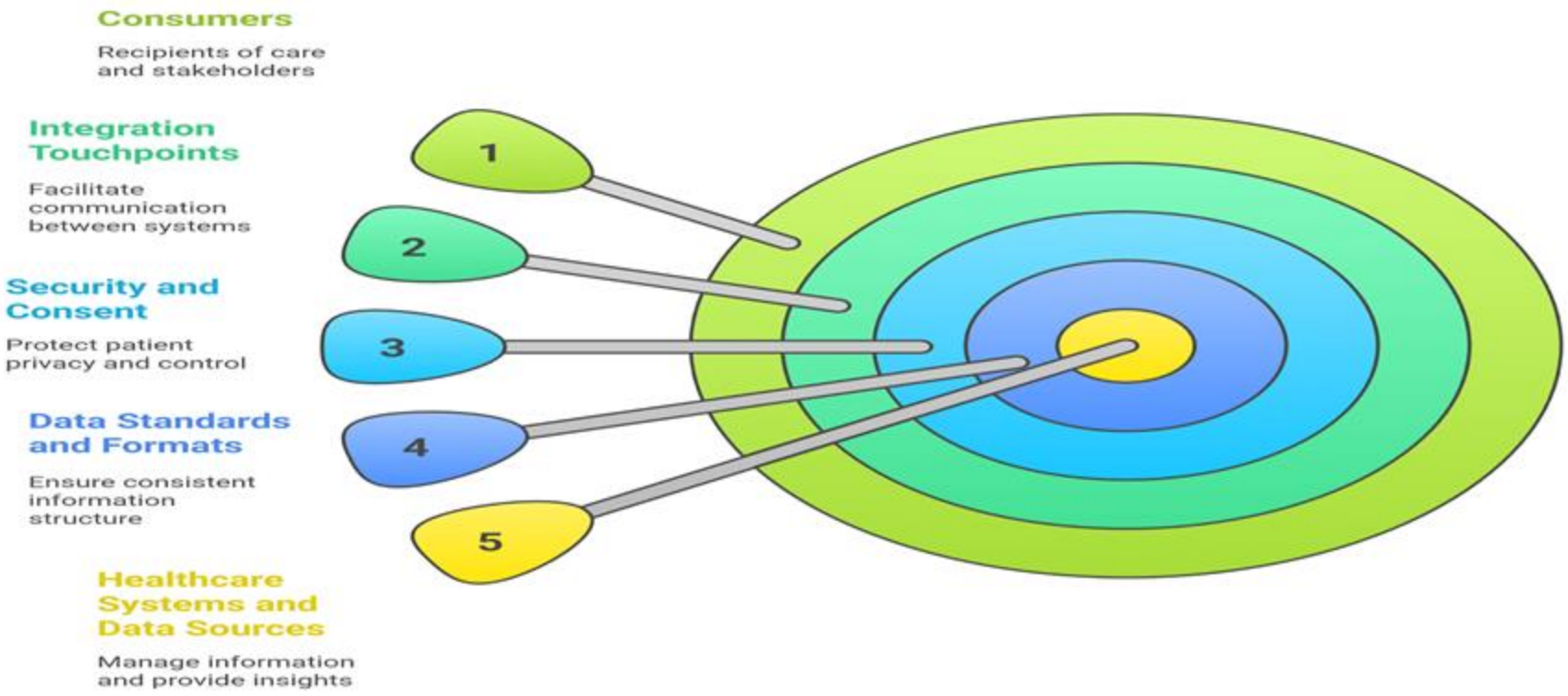
Who are the “Dots”

Each "dot" remains a unique, crucial entity. Connecting them through a unified hub ensures seamless, secure, and compliant data exchange across the healthcare continuum



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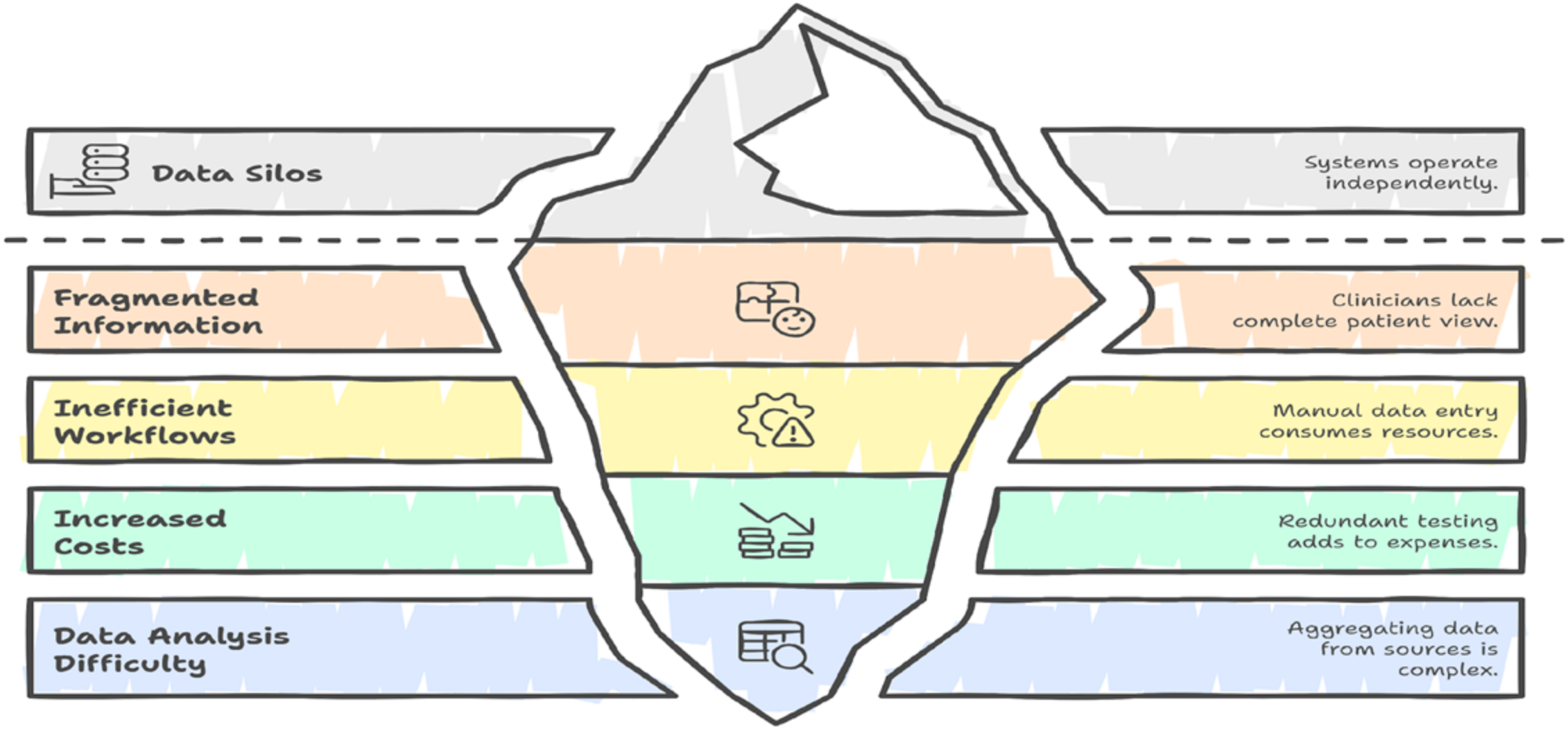
Healthcare Interoperability Challenges Run Deep.



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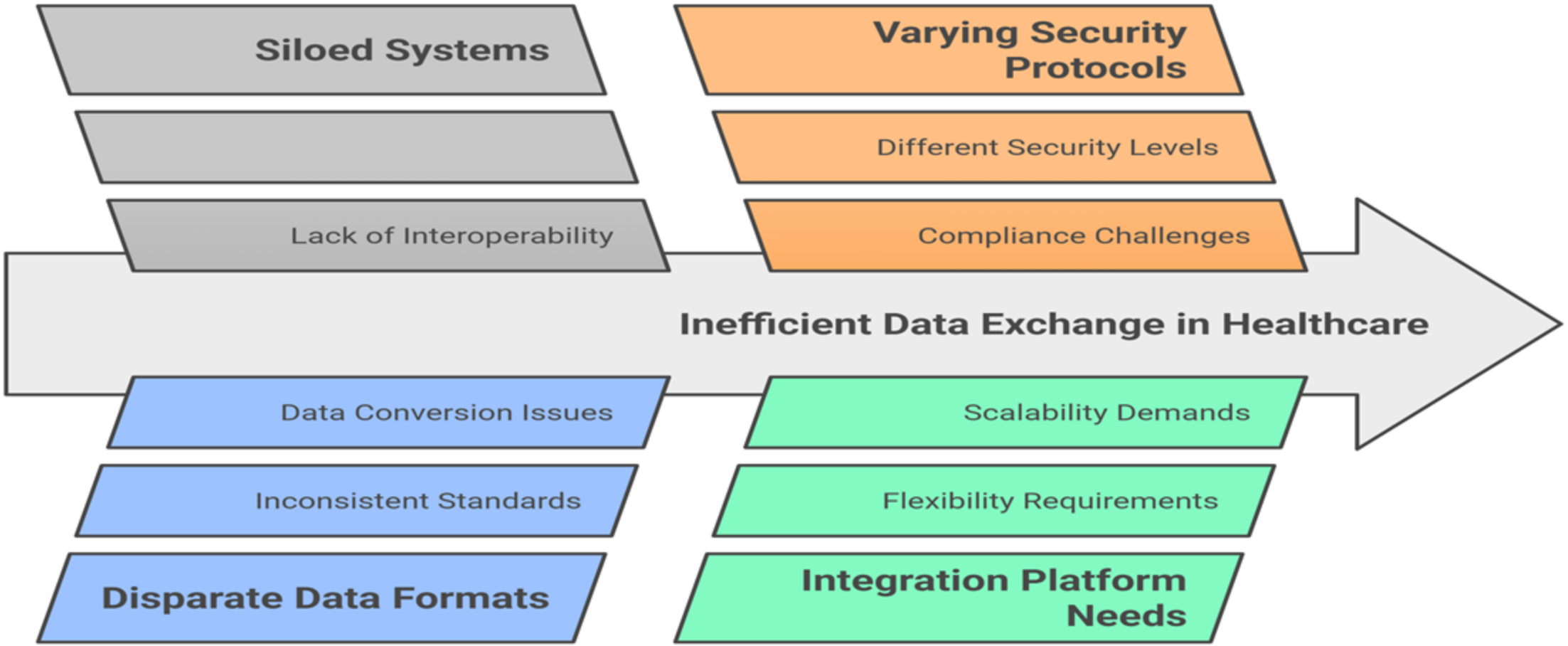
Challenges in Healthcare Data Exchange



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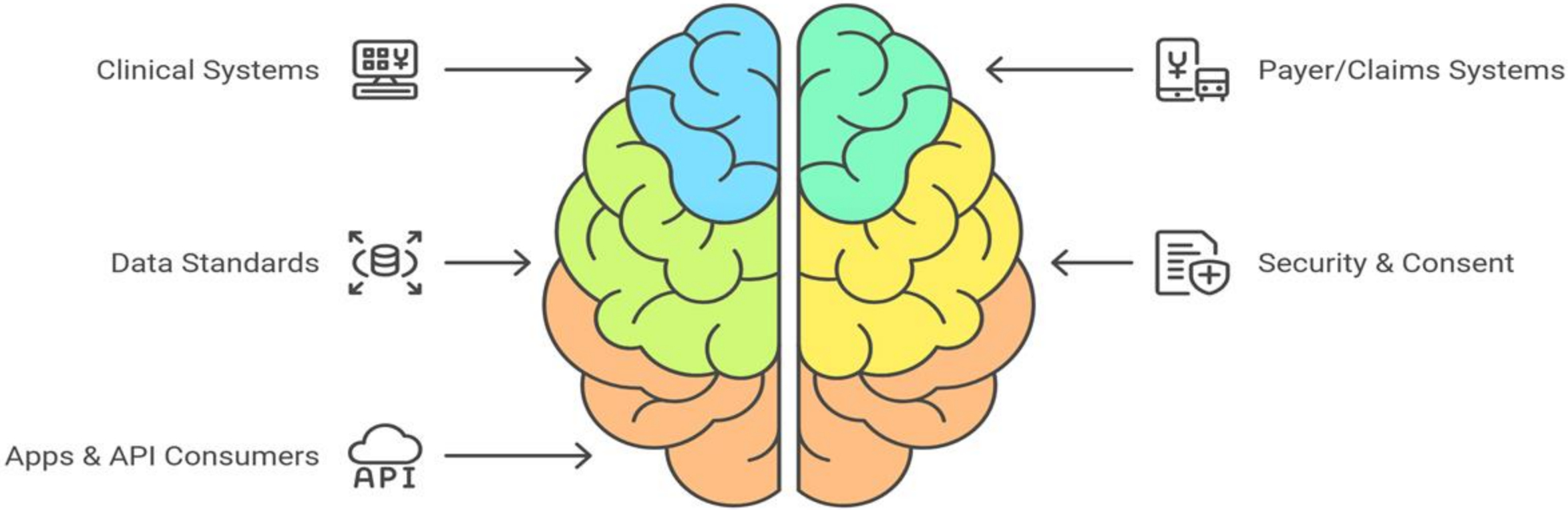
Components of Healthcare Integration



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Healthcare Integration Hub Capabilities

Patient Data Exchange

Secure data sharing among stakeholders

Prior Authorization

Efficient approval process

Member Management

Comprehensive view of member data

Data Analytics and Reporting

Insights for better decision-making

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How Zeomega HealthUnity Connects the Dots

Zeomega HealthUnity uses a combination of WSO2's API Manager, Micro Integrator, and Choreo to unify fragmented healthcare data sources, applications, and stakeholders. This integration enables seamless data exchange, standards-based interoperability, and rapid innovation in a regulated healthcare environment.

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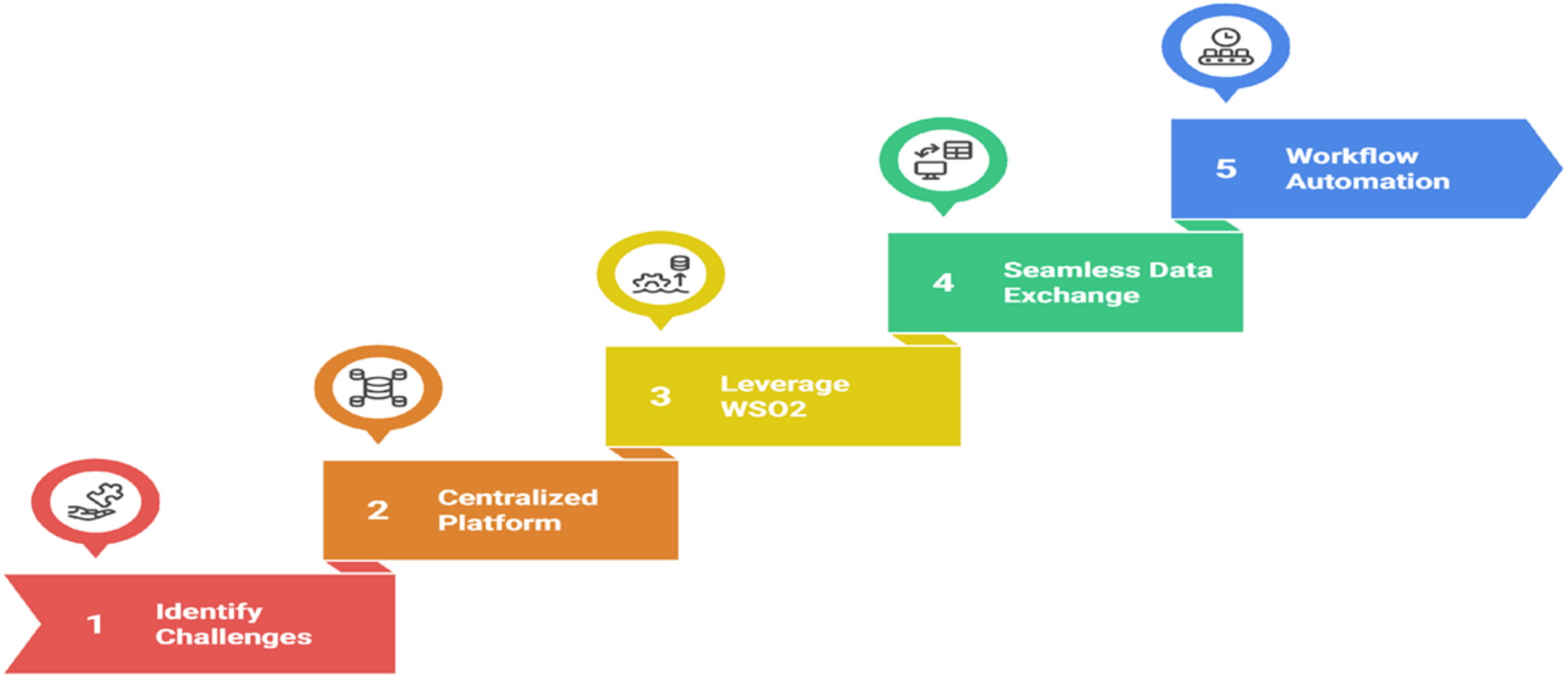
Building a Healthcare Integration Hub



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Healthcare Integration Cycle

Expose APIs

Zeomega APIs are made accessible

Manage APIs

Secure and control API access

Orchestrate Data

Transform and route data

Access Systems

Payers and providers use data

Build Integrations

Citizen integrators create workflows

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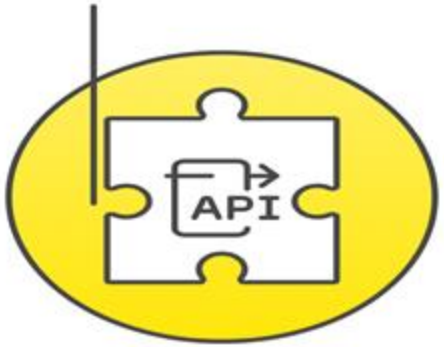
HealthUnity API Features

API Gateway

Exposes healthcare APIs through WSO2 API Manager.

Comprehensive Documentation

Interactive portals offer searchable, standards-compliant API documentation.



Security and Governance

Centralized controls for secure API access and lifecycle management.

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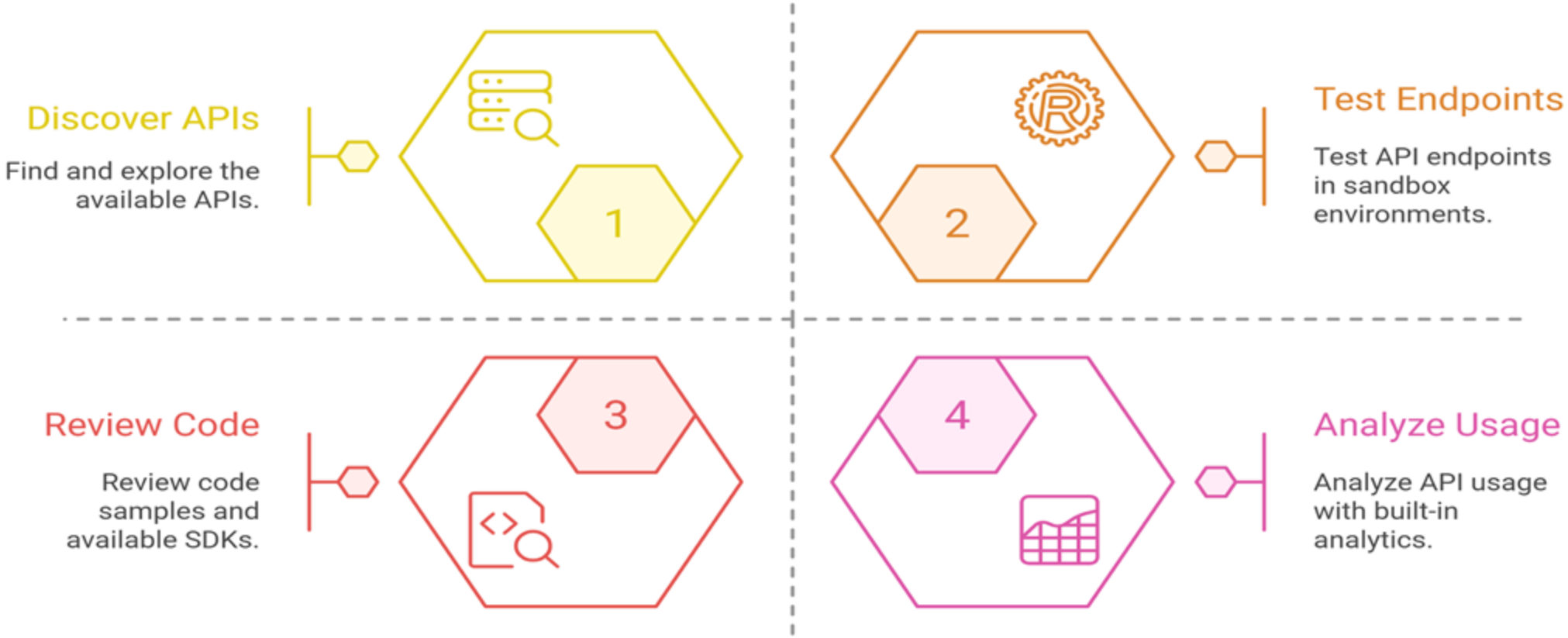
API Portal Functions



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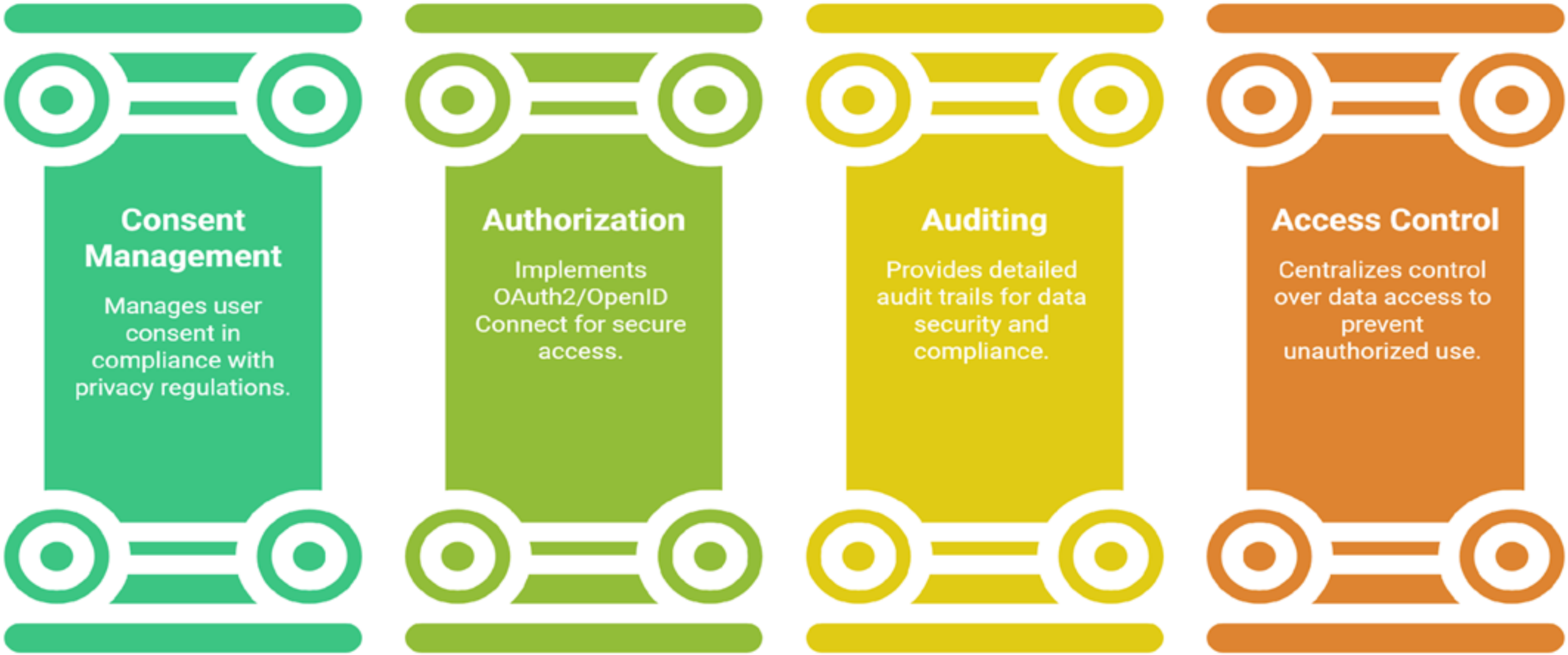
Ensuring Data Integrity and Security



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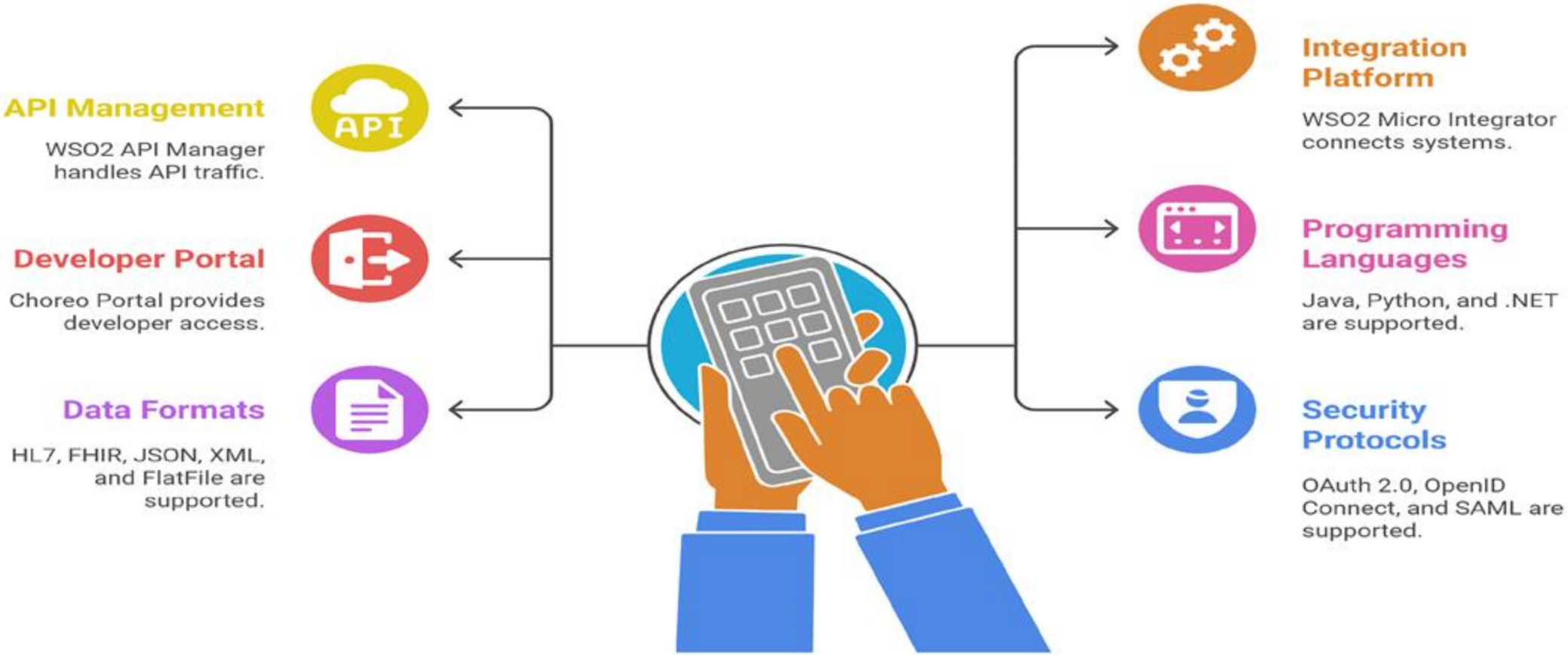
Integration Technologies



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Connecting the Dots" is Essential for True Interoperability:
By unifying fragmented data sources, standards, and stakeholders under a common, API-driven hub, Zeomega HealthUnity with WSO2 transforms healthcare IT from silos to seamless collaboration.

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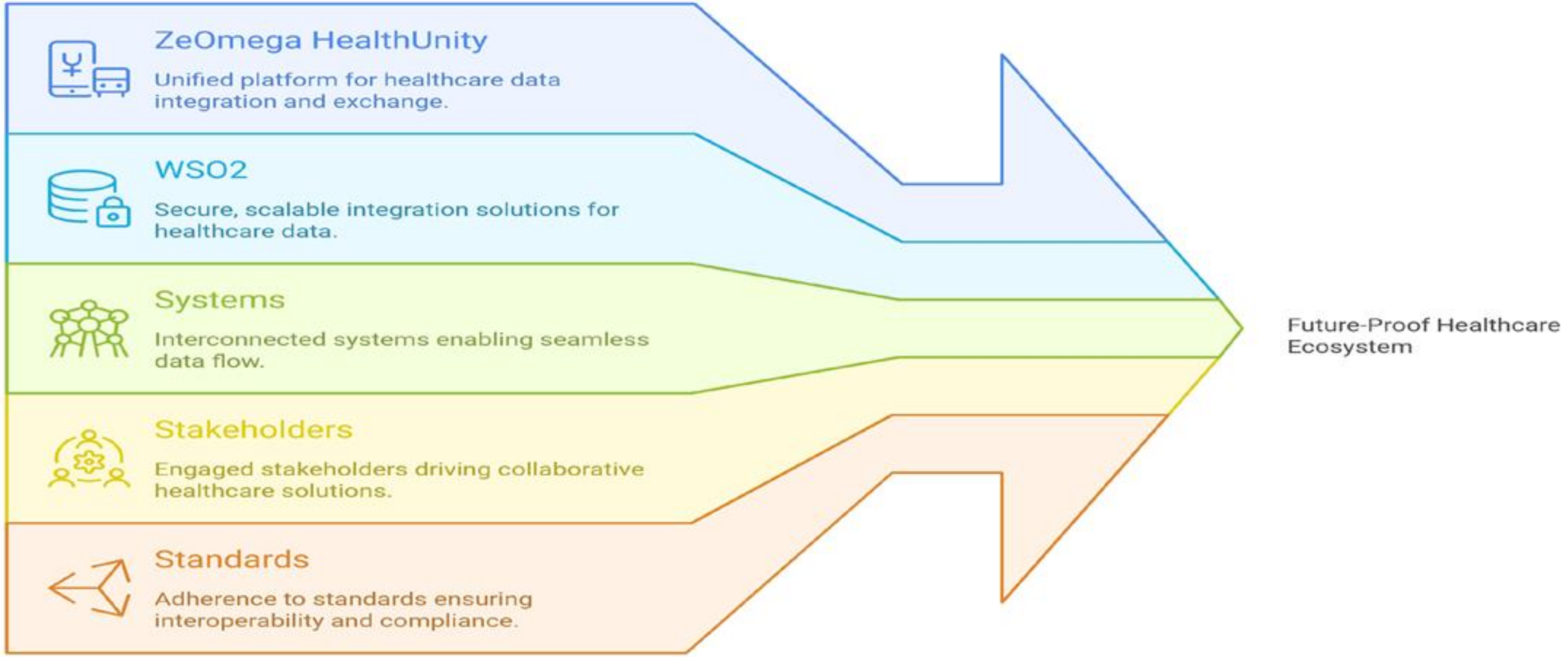
Building a Connected Healthcare Future



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A unified integration hub, as realized by Zeomega HealthUnity and WSO2, is the foundation for scalable, secure, and flexible healthcare data exchange—turning each system, stakeholder, and standard into a connected “dot” within a robust, future-proof healthcare ecosystem.

Q&A

Thank You

zeomega®

Population Health Management Solutions

6200 Tennyson Parkway, Suite 200
Plano, TX 75024 USA

Phone: 214.618.9880
ZeOmega.com