

Accelerating Innovation

InterSystems Roadmap

DACH Summit 2023

November 21, Frankfurt



**A Unified
Platform for High
Performance
Applications**

**Supports Cloud,
On Premises, and
Hybrid Deployment
Options**

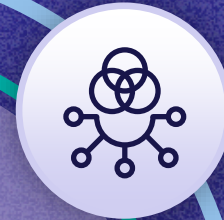
Multi-Model
DMBS



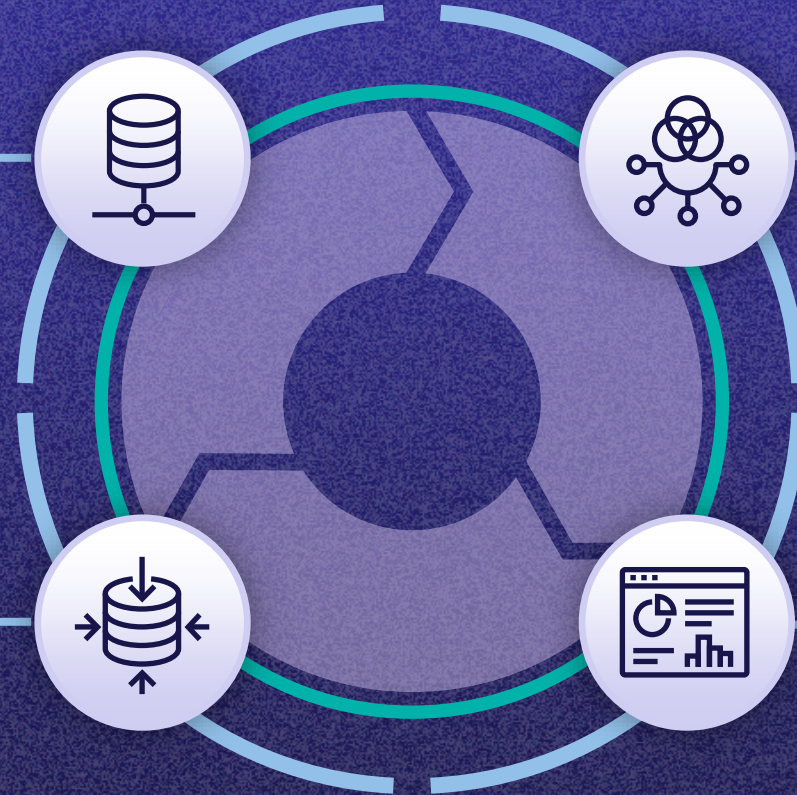
Transactional-
Analytics
DBMS



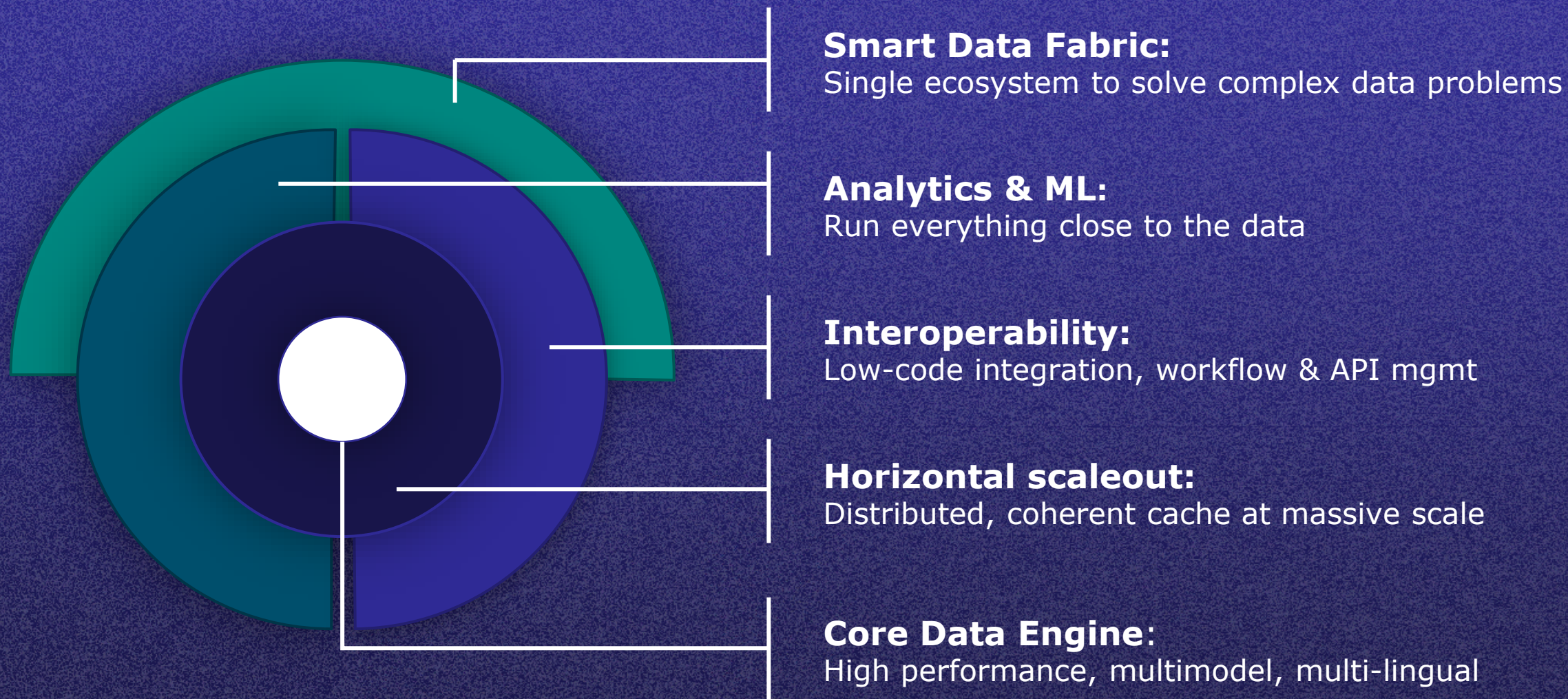
Interoperability



Advanced
Analytics
and ML



Integrated Data Platform Architecture



Acceleration

Accelerating Innovation – InterSystems Roadmap
DACH Summit 2023

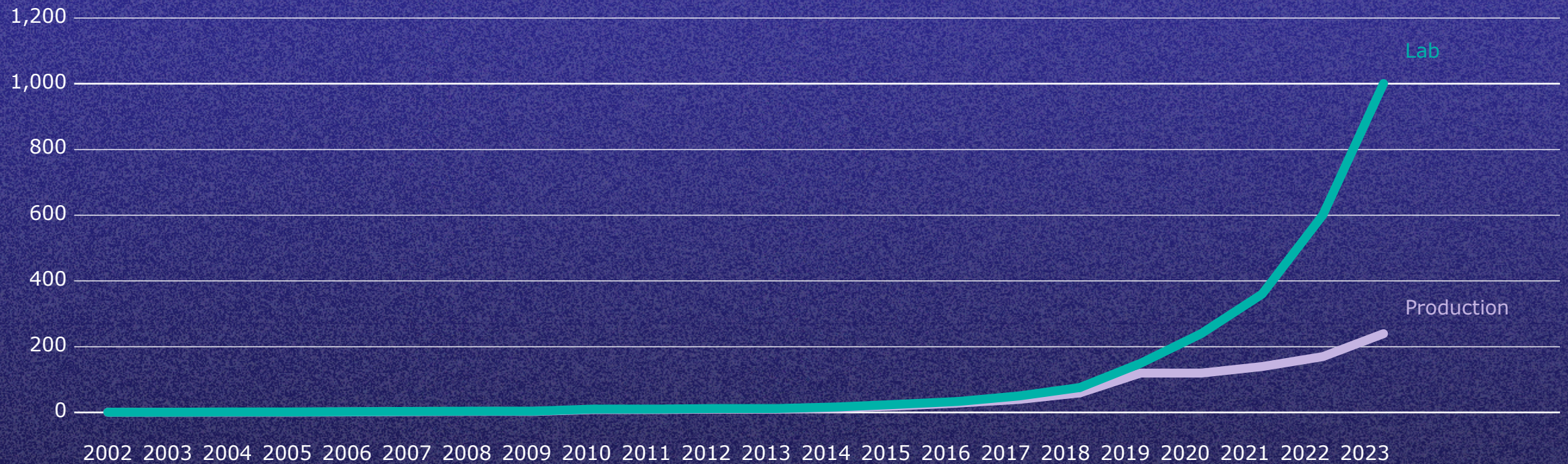


Speed

Scale

Rollout

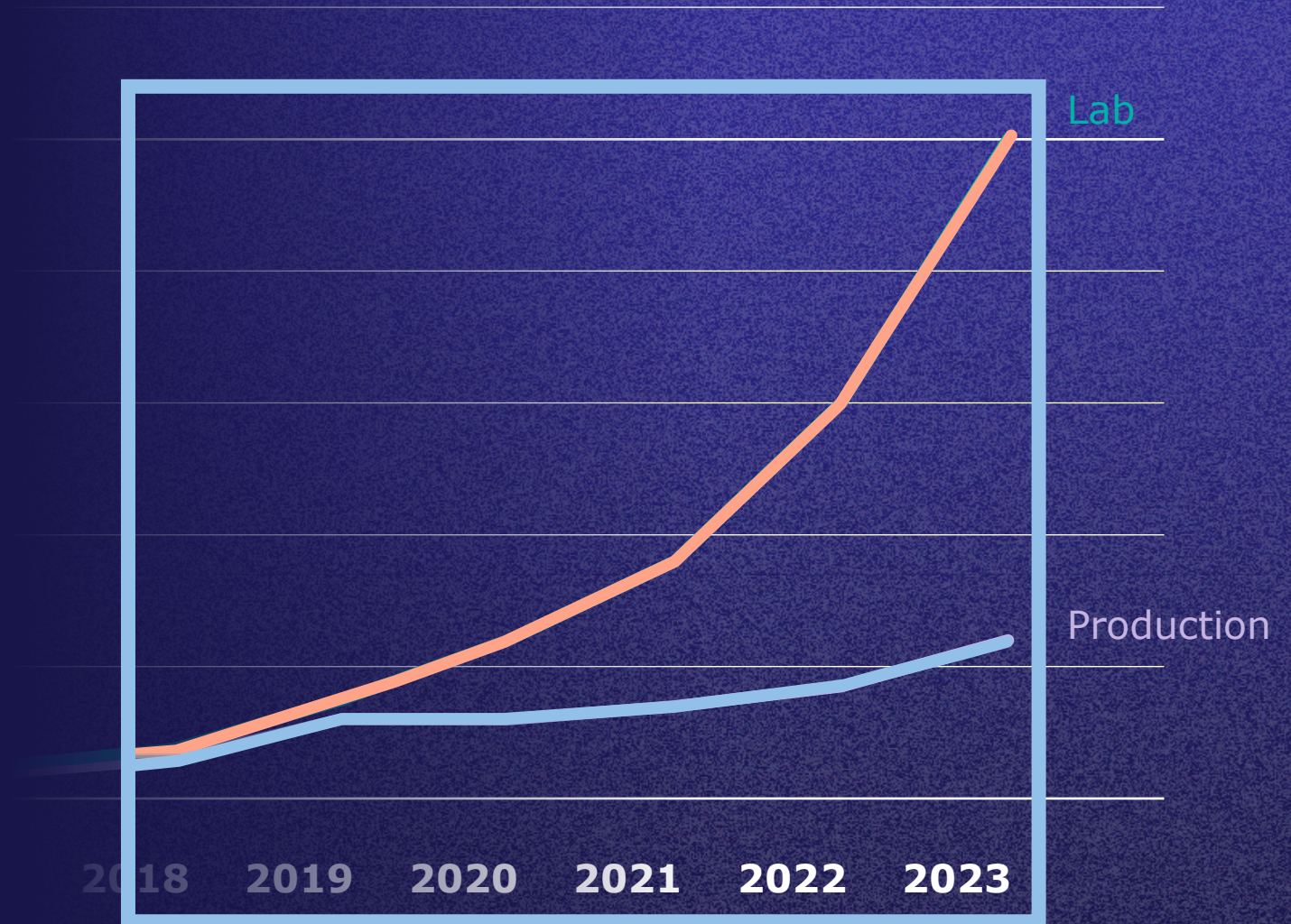
Speed – the road to one billion gref/s



Speed – the road to one billion gref/s



IRIS
Millions gref/s



Scale – Getting Ready for Growth



Data Growth



Multi-Volume Database

40-bit block numbers

Table Partitioning

Lakehouse pattern

Usage Growth



ECP Scalability

ObjectScript Runtime

Adaptive Parallel
Execution

Budget *Growth*



Stream Compression

Journal Compression

Journal Archiving

Incremental Backup

Lakehouse pattern

Accelerating Rollout – Development



FAST

Analytics Stay
Close to the Data



INTUITIVE

Familiar Tools
for Developers



SCALABLE

Works with ECP
and Sharding



SECURE

Leverage InterSystems
IRIS Security Model

Embedded Python

solve business problems quickly & safely using familiar tools

Accelerating Rollout – Deployment



Cloud Licenses

**Cloud Managed
Services**

Cloud Services

Innovation

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A detailed view of an AMG E Performance engine, showing various components like the intake manifold, fuel injectors, and the AMG logo on the side.

Analytics

Data Fabric

Industry
Solutions

Your Analytics Platform



Analytics close to the Data

InterSystems
IRIS BI



Adaptive
Analytics



InterSystems
Reports



ML close to the Data



PMML Engine



Embedded
Python



IntegratedML

Columnar: Unique Schema Flexibility

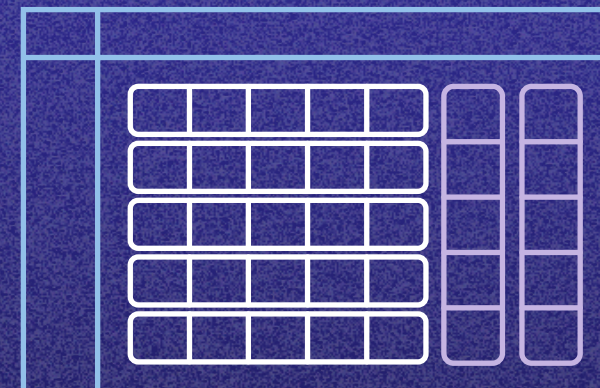


Single engine for
row and columnar
query processing

We're making
analytical queries
10x faster



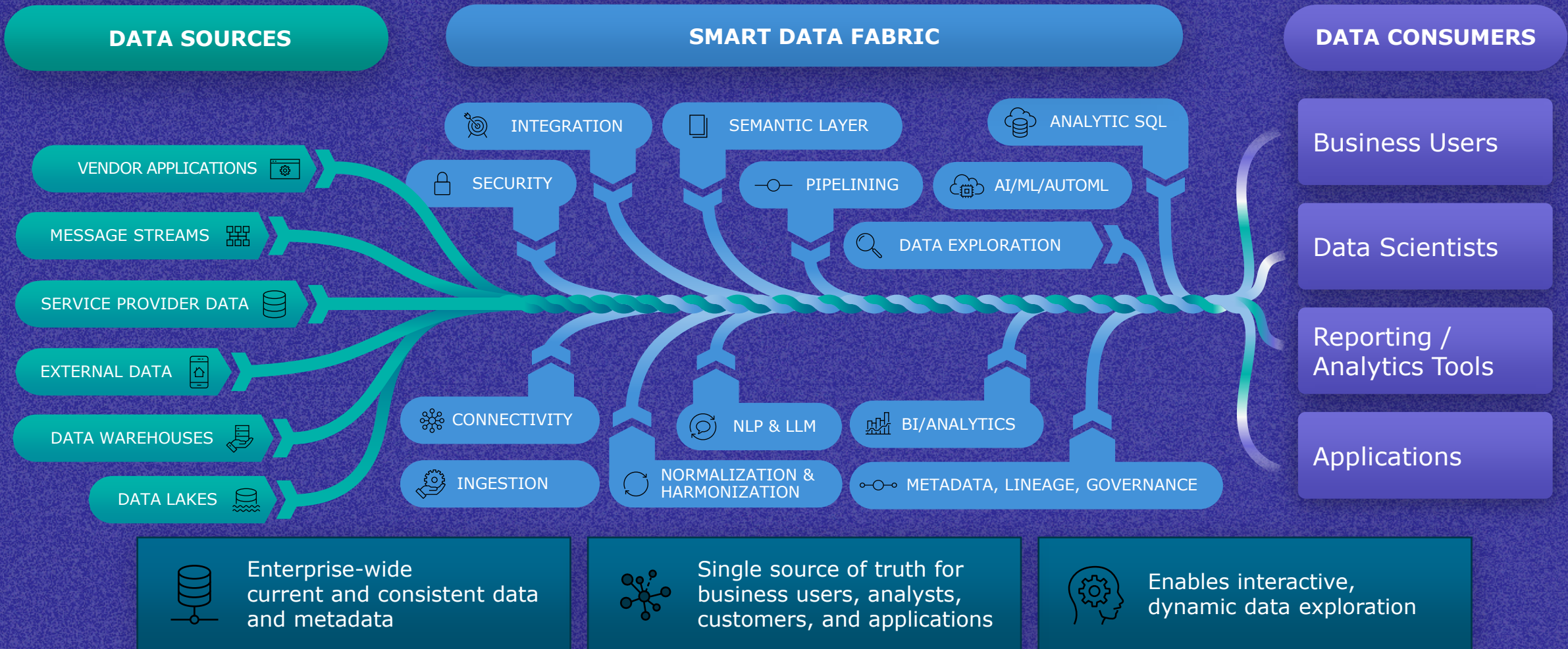
Row Storage
Columnar Index



Row Storage &
Columnar Storage

Supports all InterSystems analytics options

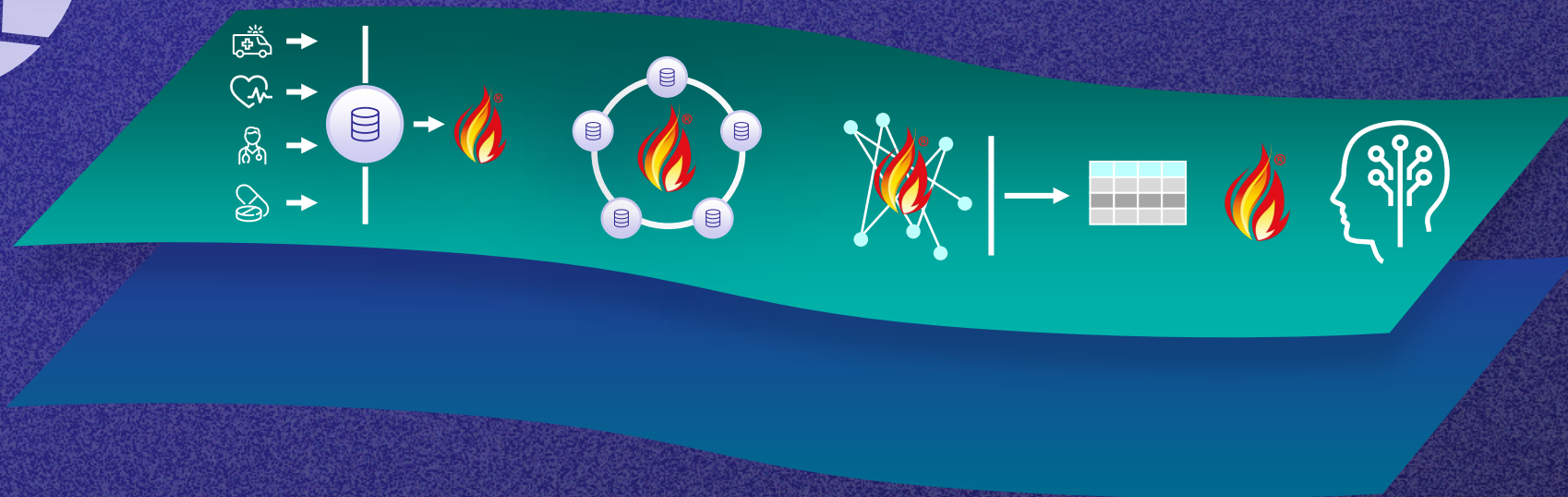
Smart Data Fabric



Smart Data Fabric



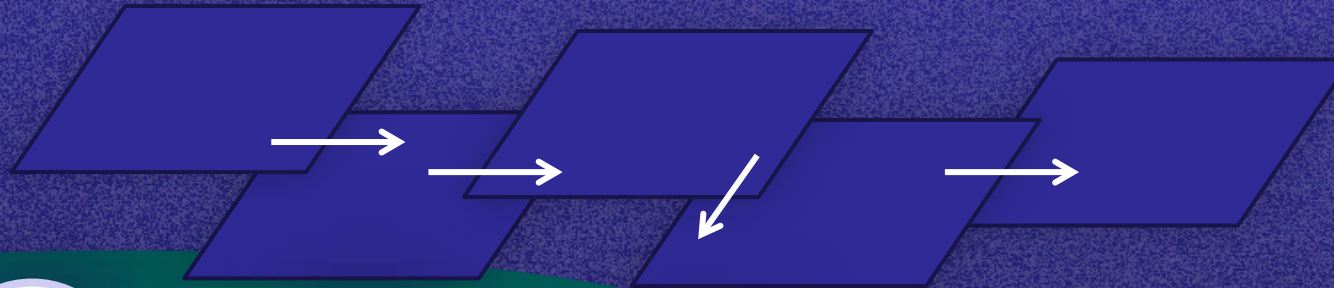
ML on FHIR data



**DATA
PLANE**

**CONTROL
PLANE**

Smart Data Services



**COMPOSABLE
APPLICATIONS**



DATA PLANE

CONTROL PLANE

Smart Data Fabric – Differentiators



Embedded Analytics

“Shift left” approach to analytics moves compute closer to the data and reduces risk of mismatch & lag

Single Data Plane

Multimodel framework enables zero-copy approaches to data provisioning, real-time, and lower cost

Smart Data Services

Single-ecosystem application composition framework accelerates solution design & development

InterSystems Data Platform Healthcare Suite



Healthcare Data Types

EHRs

HIEs

Medical Device

Imaging

Payers Data

Wearables (IoMT)

Pharma /
Genomics

Health Apps

Healthcare Development Platform



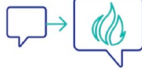
Connect

Platform



Transform

Protocols



Persist &
Validate

FHIR Server



Analytics
& ML

FHIR SQL



Health
Accelerators

Research



Integration



Terminology



Database



ML



Action
Engine



Bulk FHIR



CDA
Validation



Profiling/
Validation



Subscription



SMART on
FHIR



FHIR Implementations



Security



Data Outcomes

Data
Transformations



Integrations



Solutions



Regulatory
Compliance



Data Repository



Analytics

Data Profiling



InterSystems Data Platform Healthcare Suite



Healthcare Data Types

EHRs

HIEs

Medical Device

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Pharma /
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Health Apps

Healthcare Development Platform



Connect

Transform

Persist &
Validate

Analytics
& ML

Health
Accelerators

**FHIR Object Model for
flexible programmatic
access to R4 and R5**

FHIR Server



FHIR SQL



Research



**new automation for
bulk loading into IRIS
FHIR Servers**

Database

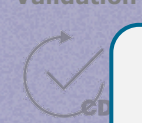


**OHDSI toolset
support & FHIR to
OMOP pipeline**

Bulk FHIR



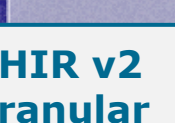
**CDA
Validation**



**Profiling/
Validation**



Subscription



**SMART on
FHIR**



**SMART on FHIR v2
scopes for granular
access**

FHIR Implementations

Security

Data Outcomes

Data
Transformations



Integrations



Solutions



Regulatory
Compliance



Data Repository



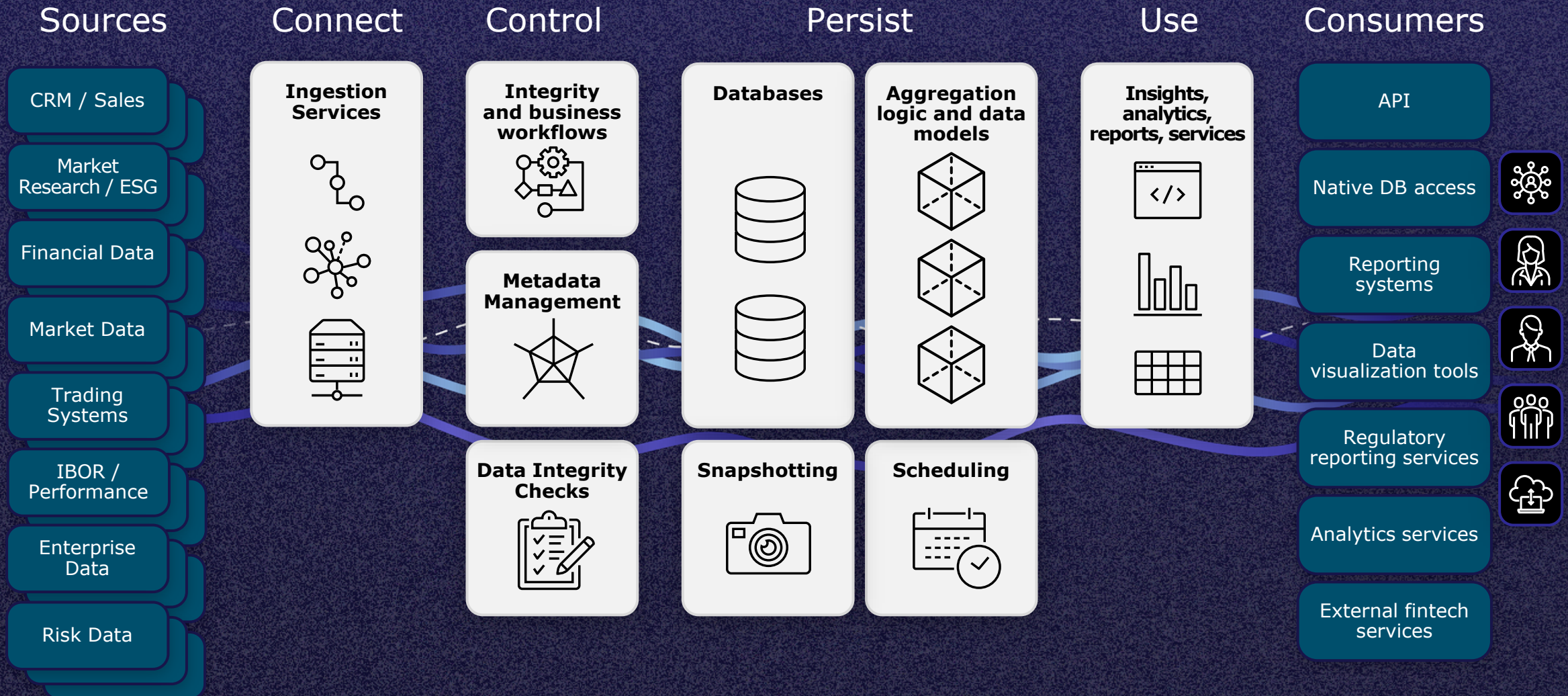
Analytics



Data Profiling

InterSystems TotalView for Asset Management

Powered by InterSystems IRIS and a Smart Data Fabric



Our Supply Chain Offering



Customer Supply Chain Applications and Solutions

InterSystems Supply Chain Orchestrator™

InterSystems Supply Chain Cloud Services

Track &
Trace service

Forecasting
service

Geo-political
service

Optimization
service

Others
...

InterSystems IRIS for Supply Chain

InterSystems Supply
Chain Framework

InterSystems IRIS
Data Platform

Roadmap

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GenerativeAI

A large Airbus A350-900 aircraft is shown on a tarmac, with its nose and cockpit area visible. The aircraft is white with dark blue and grey accents. The word "AIRBUS" is visible on the side of the fuselage. The aircraft is parked on a paved surface, and the background shows a clear sky and some distant structures.

Generative AI



What is Generative AI?



Artificial Intelligence

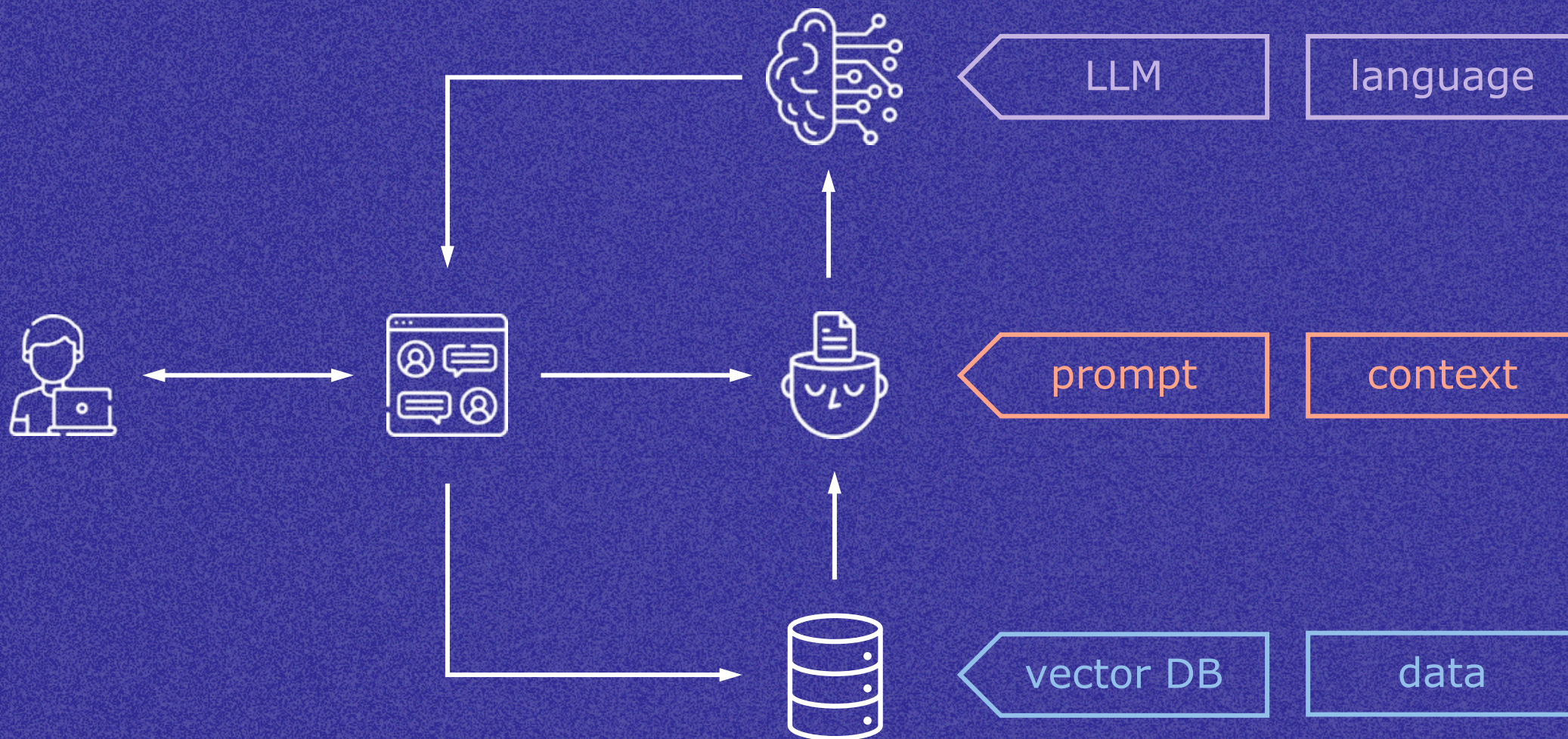
Machine Learning

Generative AI

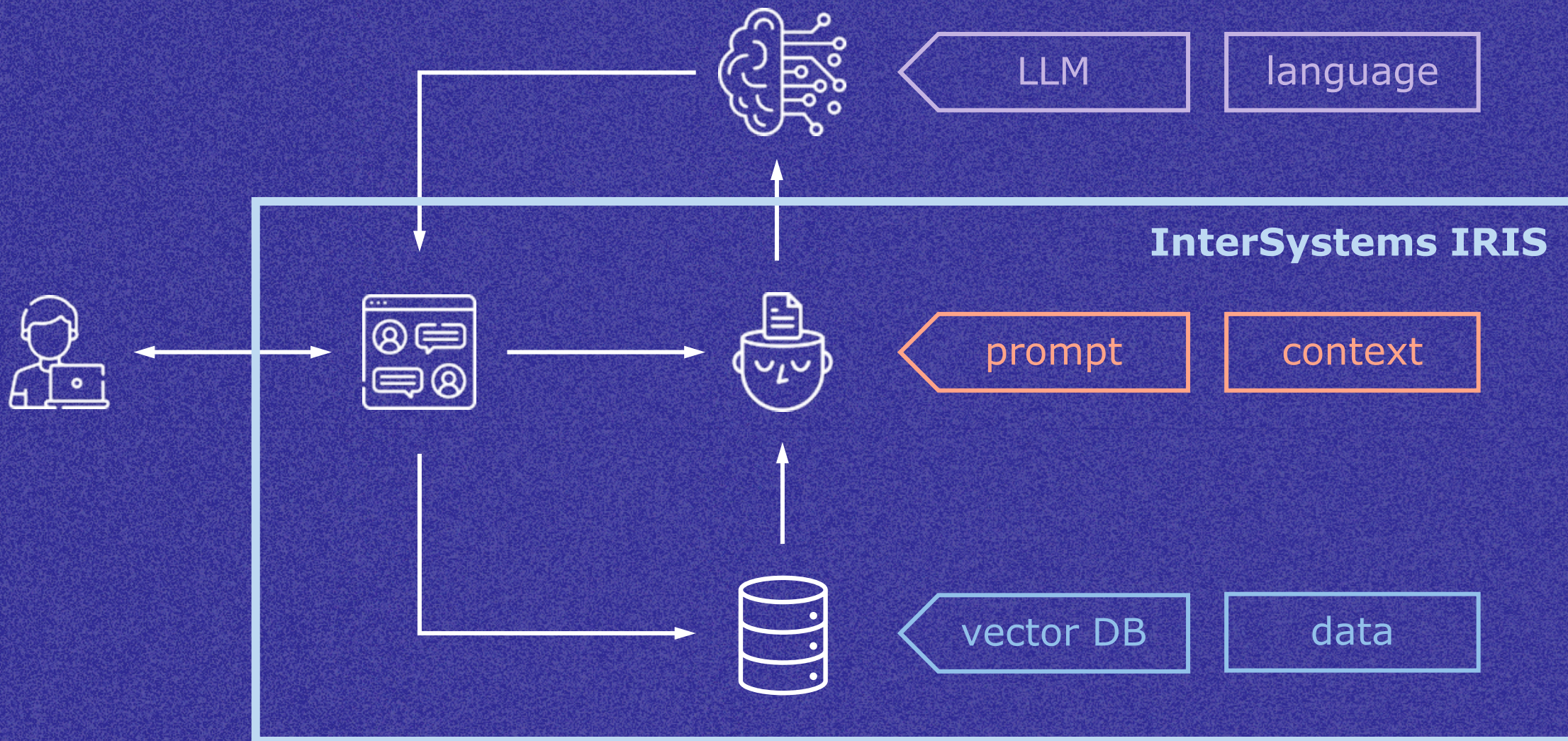
Large Language Models

GPT-4

Retrieval Augmented Generation



RAG with InterSystems IRIS



Generative AI – Roadmap



Vector DB

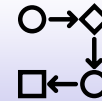


store embeddings,
fast similarity search, ...

for component
developers

platform feature

Templates



RAG toolkit,
Text-to-SQL, ...

for solution builders

IPM module

Solutions



development copilots,
TotalView for AI, ...

for end users

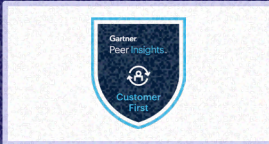
as-a-Service

Through the power of our technologies and the consistency of our support, InterSystems is getting noticed



Gartner

Visionary in the 2022 Gartner Magic Quadrant for Cloud Database Management Systems



Recognized as a Gartner Peer Insights **Customer First** Vendor

FORRESTER

Recognized as a **Leader** in the Forrester Wave™; Translytical Data Platforms, Q4 2022 and The Forrester Wave™: Multimodel Data Platforms, Q3 2021; **Strong Performer** in the Forrester Wave™ for Data Management for Analytics, Q1 2023



Exemplary vendor in the Ventana Research Data Platforms Value Index 2023

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Thank you