

InterSystems IRIS

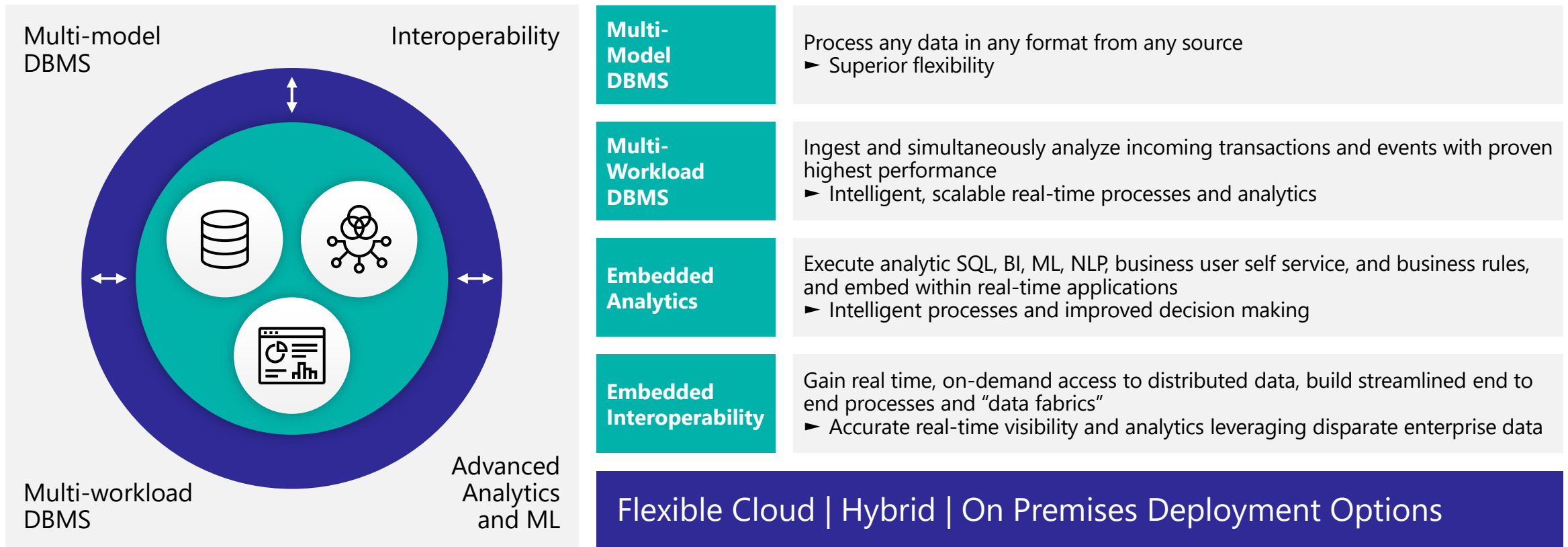
What's New & What's Next

InterSystems Iberia Summit

November 16, 2022

InterSystems IRIS Data Platform

A Complete Software Platform for Developing Real-Time, Enterprise Data- and Analytics-Intensive Applications For Financial Services Organizations



Key Investment Areas



**Speed, Scale
& Security**



**Developer
Experience**



**Interoperability
& IoT**



**Advanced
Analytics & AI**



**Cloud
& DevOps**



InterSystems IRIS Releases



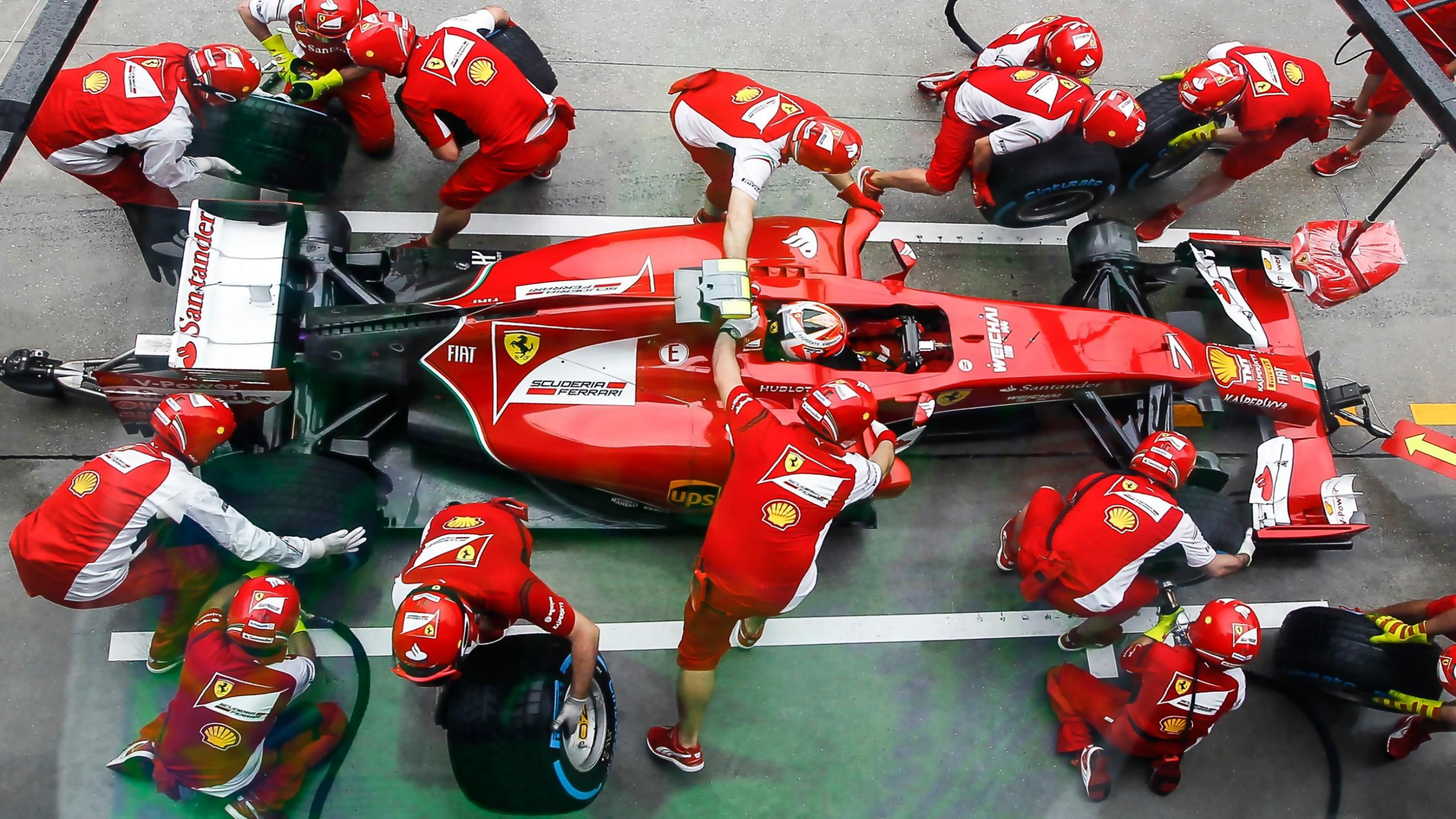
2022.1 General Availability

Embedded Python
Kafka Adapters
FHIR Enhancements
New Cloud Services
Adaptive Analytics
Adaptive SQL Optimizer
Platform Updates

2022.2 General Availability

Columnar Storage
New Rule Editor
FHIR Enhancements
New Cloud Services
Platform Updates
SAM 2.0
IAM 2.8.1







AMG
PETRONAS
MOTORSPORT

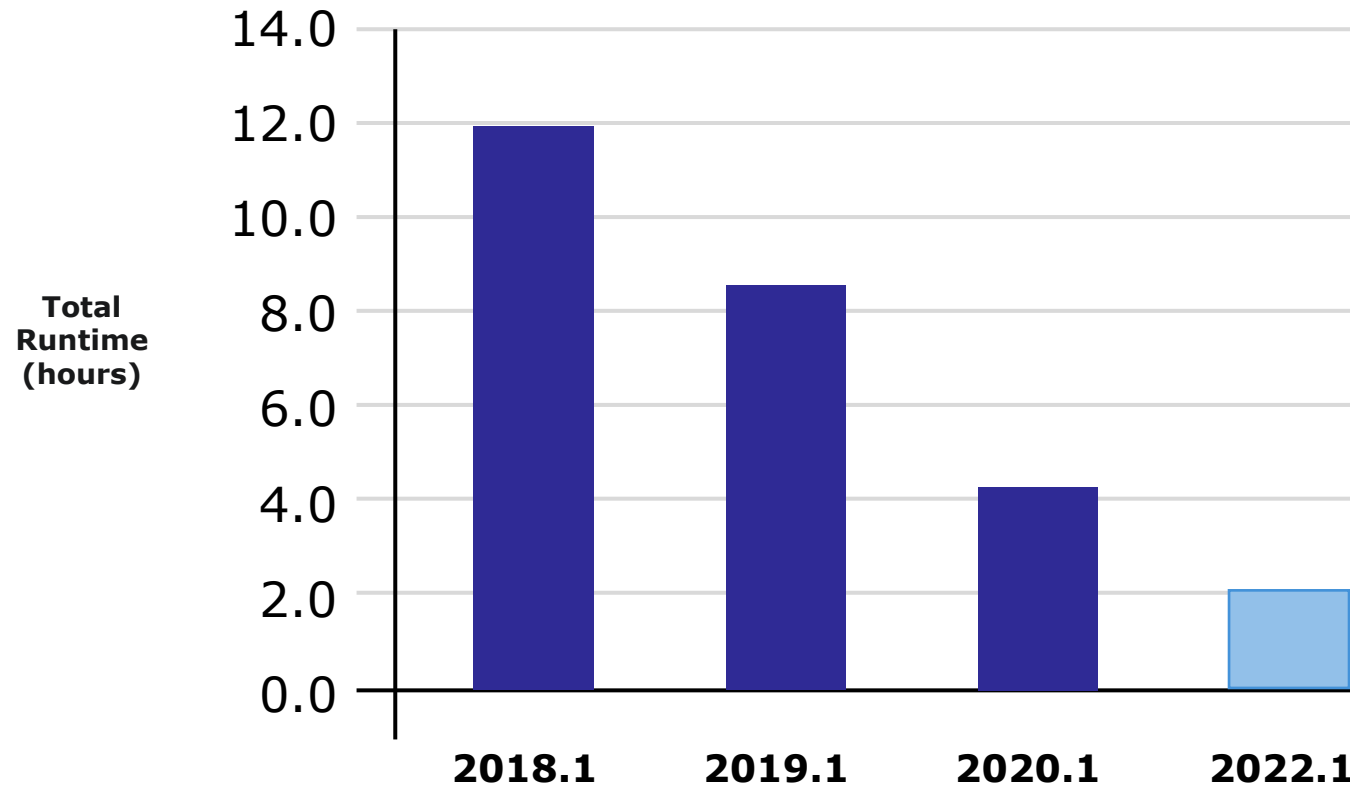




Speed, Scale & Security



Release-on-Release Performance Improvements



Recent Performance Enhancements

For all applications

- Parallel Journaling & dejournaling
- Stream Compression
- Journal Compression
- Node Tables
- Compact Doubles

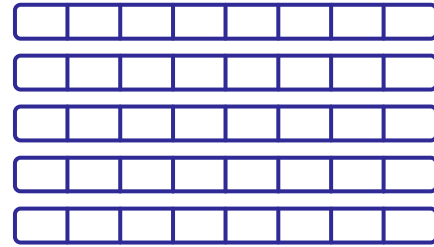
For SQL applications

- Sharding
- Auto-Parallelized Queries
- Adaptive SQL Optimizer

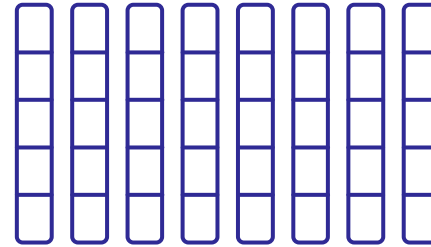




Introducing Columnar Storage



Row Storage



Columnar Storage



Early Access Program

We're making analytical queries
10x faster





Developer Experience

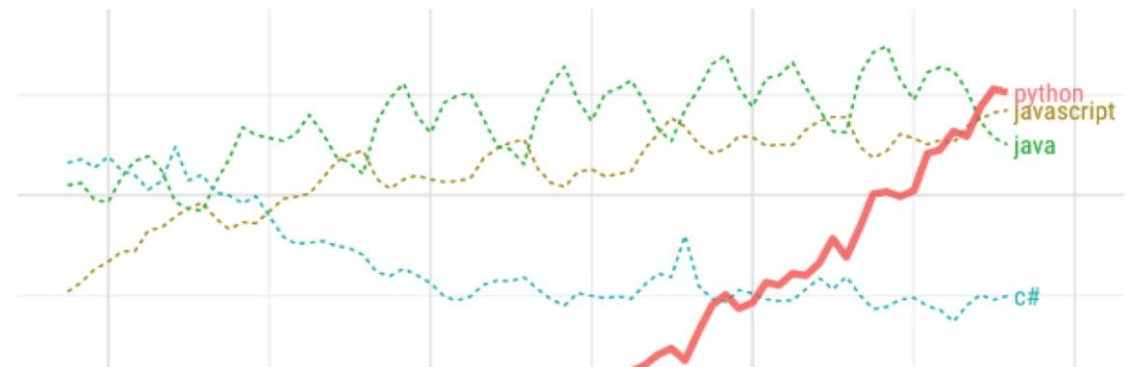




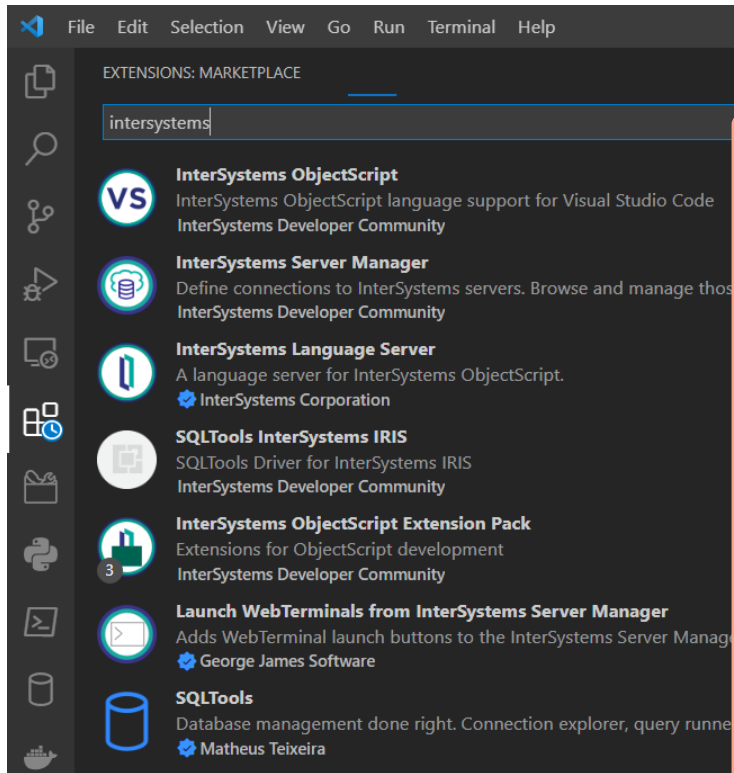
Developer Experience

1. Make it easy to try InterSystems IRIS & build powerful applications quickly
2. Embrace **top programming languages** alongside SQL & ObjectScript
3. Foster an **ecosystem & developer community** including open source components

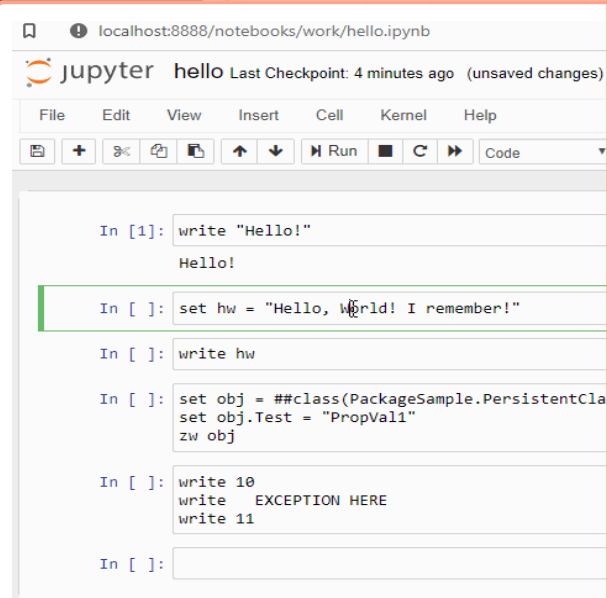
Growth of major programming languages



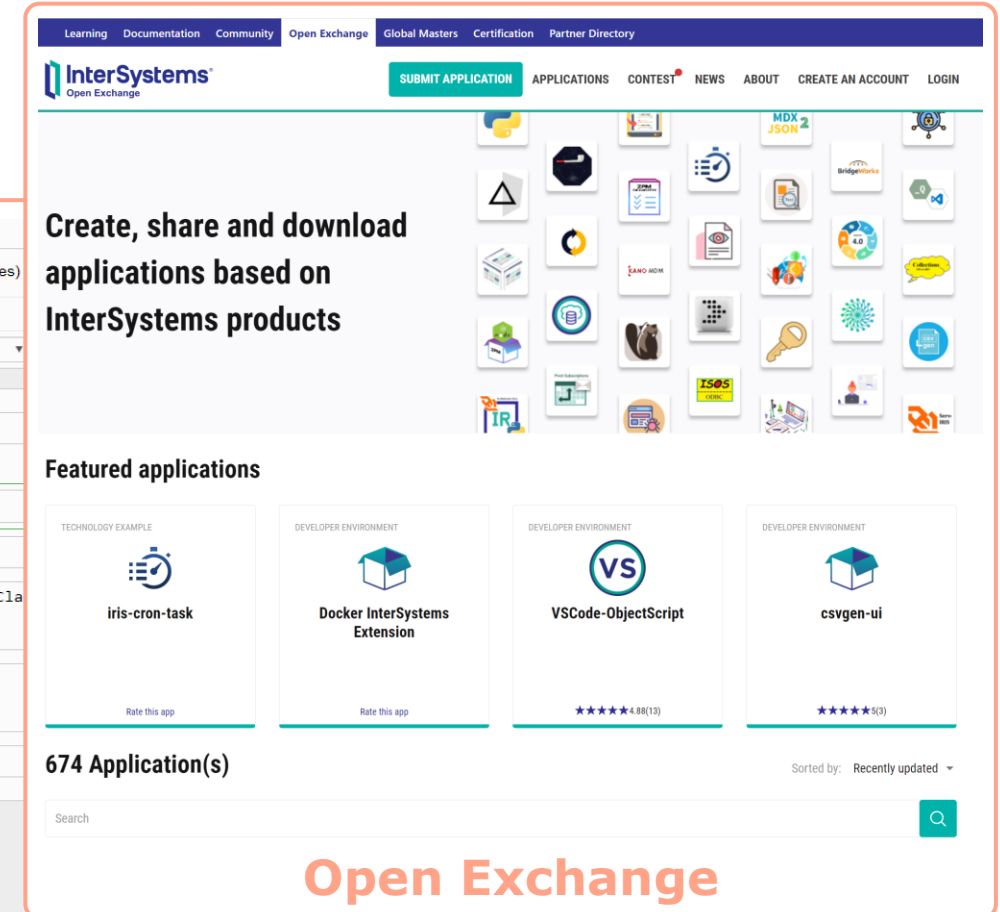
InterSystems and Open Source Developer Tooling



VS Code Plugins



Jupyter NoteBooks



Open Exchange



Embedded Python

Solve Business Problems Quickly & Safely Using Familiar Tools



FAST

Analytics stay close to the data



INTUITIVE

Familiar tools for developers



SCALEABLE

Works with ECP and sharding



SECURE

Leverage InterSystems IRIS security model





Inter- operability



InterSystems Interoperability

Provide easy integration with customer's existing systems throughout their lifecycle.

- Messages
- Devices (IoT)
- APIs



InterSystems API Management (IAM)

Developer Portal

API Catalog			Search
FHIR R4 Practitioner Resource A person who is directly or indirectly involved in the provisioning of healthcare. version: 1.0	FHIR R4 Condition Resource This resource is used to record detailed information about a condition, problem, diagnosis, or other event, situation, issue, or clinical concept that has risen to a version: 1.0	FHIR R4 Medication Resource This resource is primarily used for the identification and definition of a medication for the purposes of prescribing, dispensing, and administering a version: 1.0	
FHIR R4 Diagnostic Report Resource A diagnostic report is the set of information that is typically provided by a diagnostic service when investigations are complete. The information version: 1.0	FHIR R4 MedicationRequest Resource An order or request for both supply of the medication and the instructions for administration of the medication to a patient. The resource is called version: 1.0	FHIR R4 AllergyIntolerance Resource A record of a clinical assessment of an allergy or intolerance; a propensity, or a potential risk to an individual, to have an adverse reaction on future version: 1.0	
FHIR R4 Organization Resource A formally or informally recognized grouping of people or organizations formed for the purpose of achieving some form of collective action. Includes	FHIR R4 Patient Resource Demographics and other administrative information about an individual or animal receiving care or other health-related services.	FHIR R4 Observation Resource Observations are a central element in healthcare, used to support diagnosis, monitor progress, determine baselines and patterns and even capture	

v3.0 Highlights

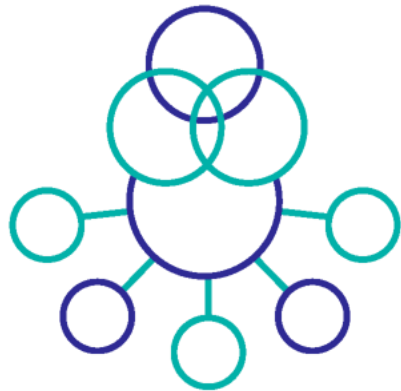
- Enhancements to:
 - Performance
 - Security
 - Authentication
 - Management UI
- New Route optimization
 - R99 latency 1.5s->0.1s
- Open Telemetry
- ARM support



Embracing Open Source in Interoperability

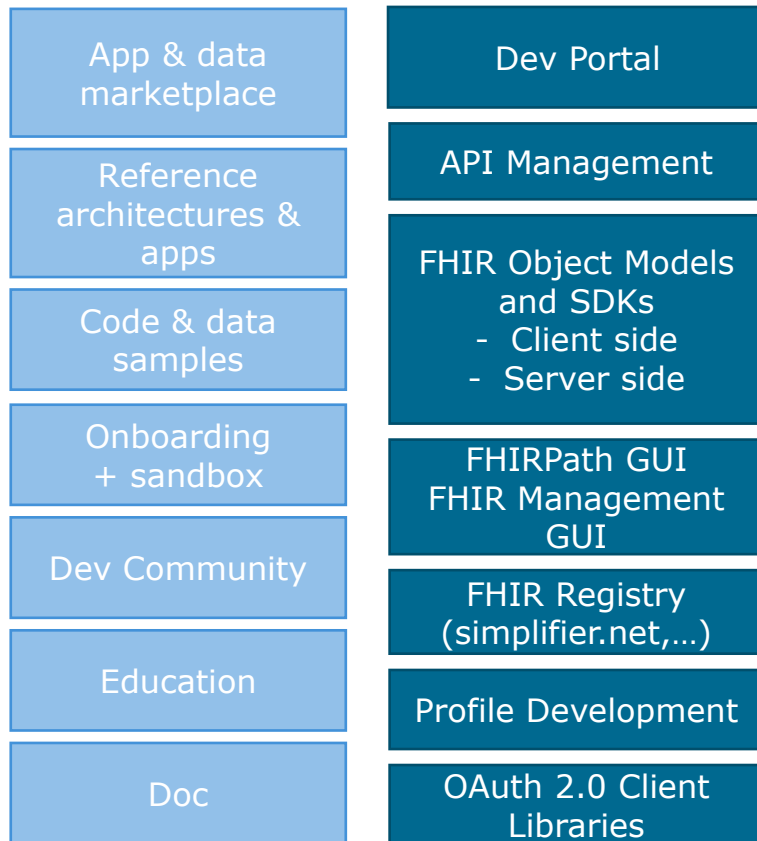


Inbound & Outbound
Interoperability Adapters

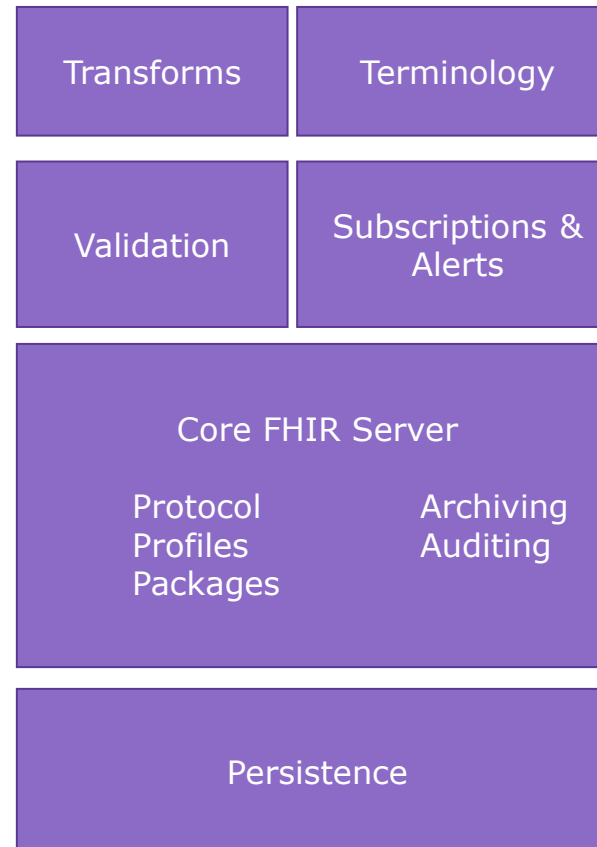


FHIR Elements

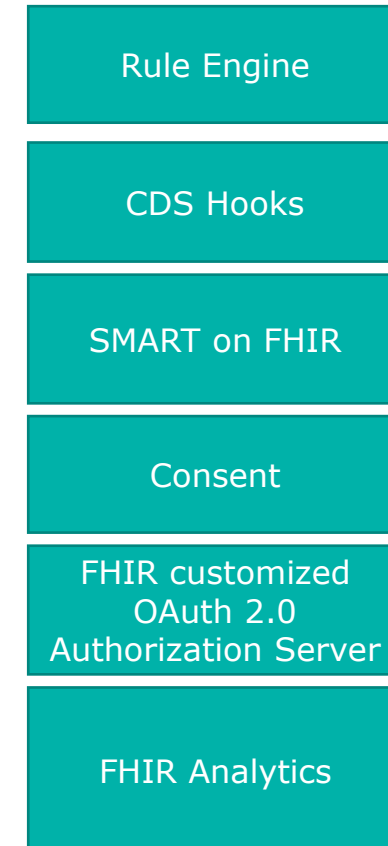
Developer Experience



Core Engine



Applications





Analytics & AI





LATITUDE
45.6301

LONGITUDE
9.29103

ON SAFETY CAR
GO TO PIT



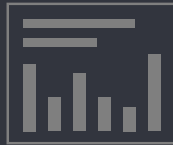
POSITION

2

EMPTY ON
LAP 51



TIRES AND LAPS
RACED



CURRENT LAP
1:23.052

BEST LAP
1:22.565

TOP LAP SPEED

287 km/h



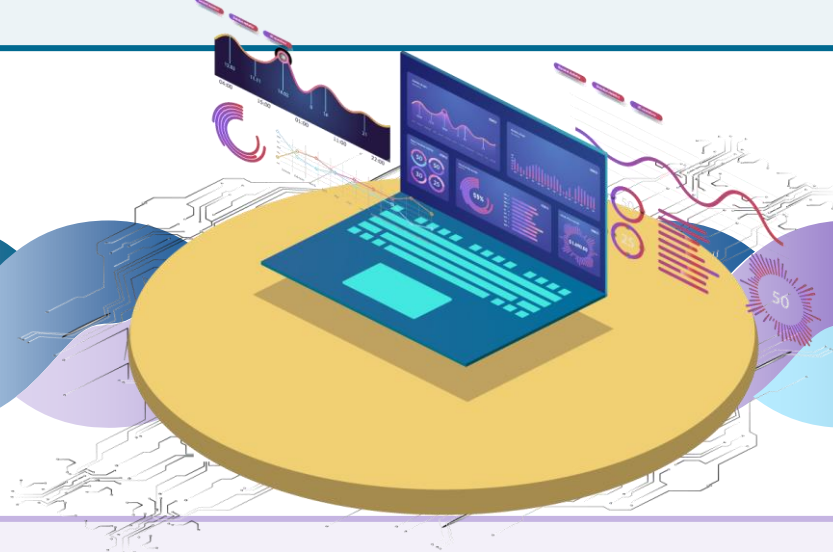
Your Analytics Platform

Analytics close to the Data

IRIS BI:
Embedded Cubes
for real-time analysis

Adaptive Analytics:
Virtual Cubes for large-scale, adaptive
analysis in client of choice

InterSystems Reports:
Built-in report design
& distribution server



ML close to the Data

IntegratedML:
Embedded AutoML engine for
rapid model development
and operationalization

Embedded Python and PMML support:
Native language support and ML runtime
engine for operationalizing **expert-built
models & code**

AI-Link:
Share data models between data
analysts (BI) and data scientists (AI)

InterSystems IRIS Adaptive Analytics



Data Sources

System 1

System 2

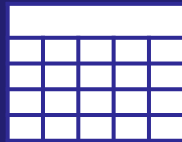
System 3

System 4

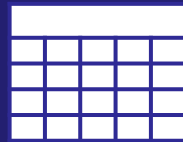
System 5

...

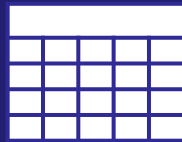
InterSystems IRIS



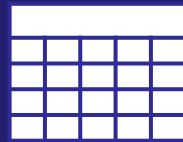
Analytics



Reference



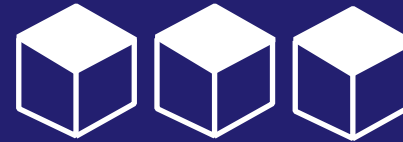
Client



Location

SQL

Design center virtual cubes



Dimensions	Measures
Date	Quantity
...	...

SQL/
MDX

BI Tools



...

InterSystems IRIS Adaptive Analytics



Data Sources

System 1

System 2

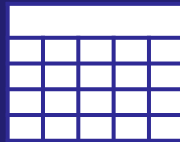
System 3

System 4

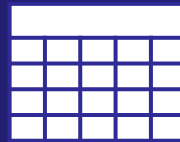
System 5

...

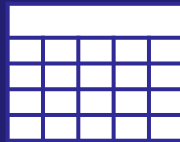
InterSystems IRIS



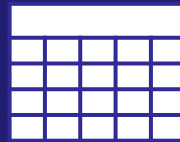
Analytics



Reference



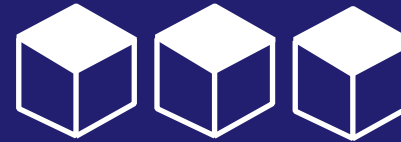
Client



Location

SQL

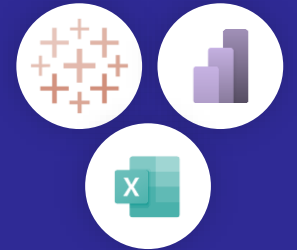
Design center virtual cubes



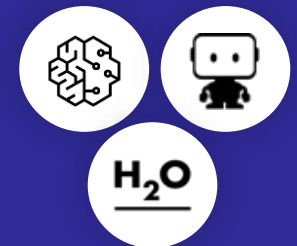
Dimensions	Measures
Date	Quantity
...	...

SQL/
MDX

BI Tools



AI Tools





Cloud & DevOps





AMG
PETRONAS
MOTORSPORT

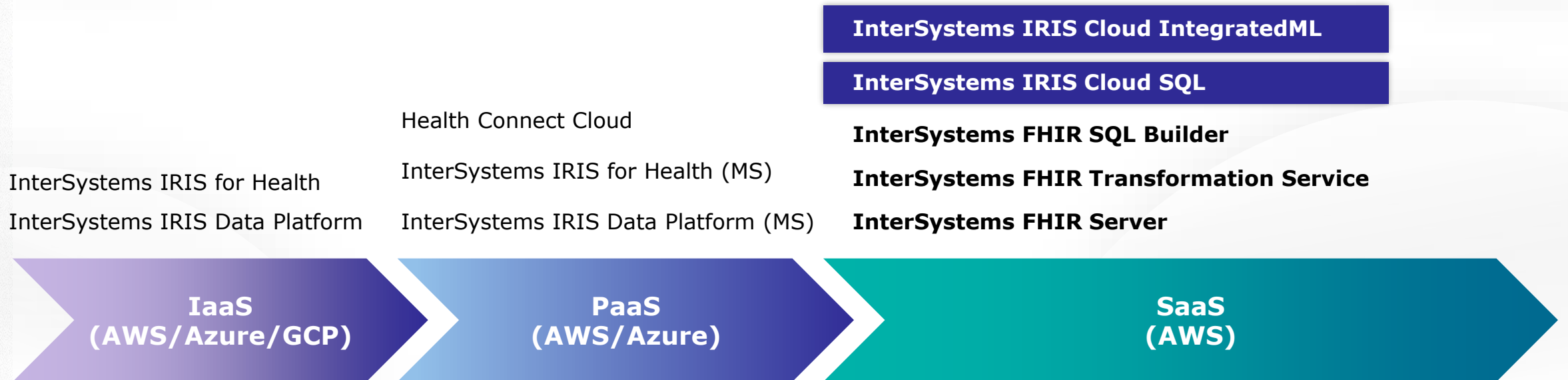


New InterSystems IRIS Cloud Services



Early Access Program

Our Cloud Offerings



More Services to Come!

- Healthcare
- Financial Services
- Supply Chain
- Horizontal (for all verticals)



Customer Deployments



Broadridge®

HARRIS ASSOCIATES



 athenahealth



RHODES
GROUP



C^RETDEV



Central and
North West London
NHS Foundation Trust



ALBANY
MEDICAL
CENTER



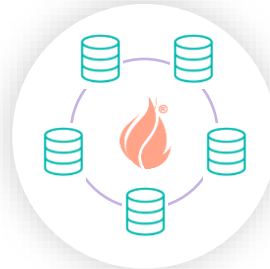
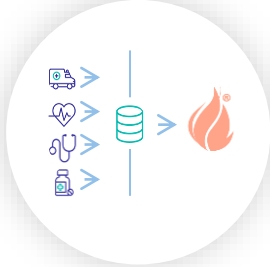
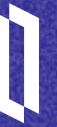
 In development



Smart Data Fabric



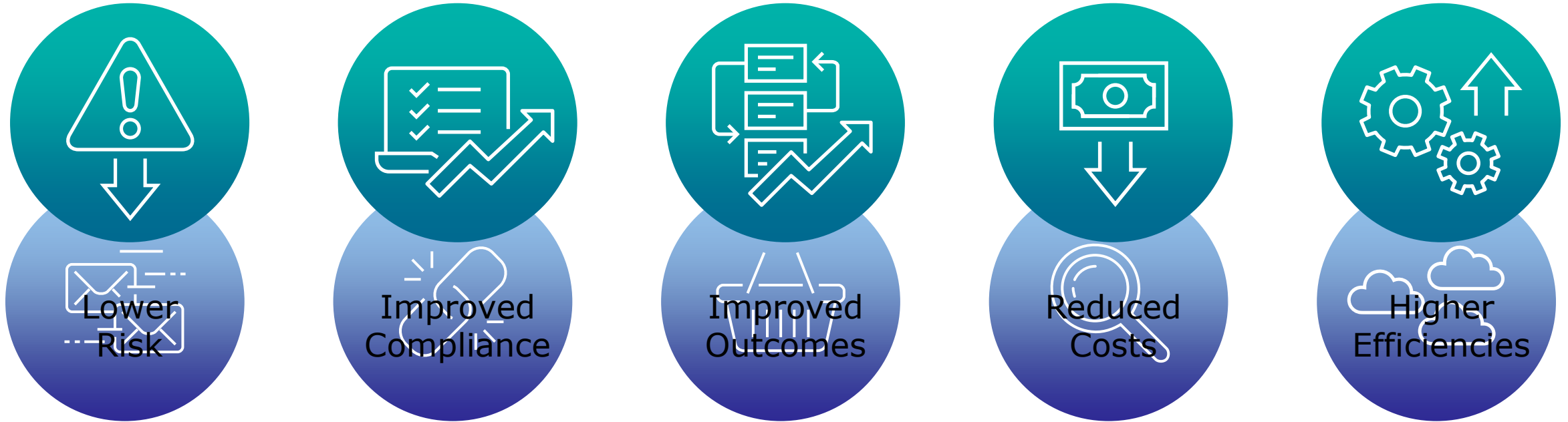
Smart Data Fabric



DATA PLANE

CONTROL PLANE

Smart Data Fabric



Connectivity

Integration

Self-Service

Analytics

Multi-Cloud
Portability

Powered by

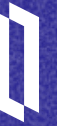


InterSystems
IRIS Data Platform

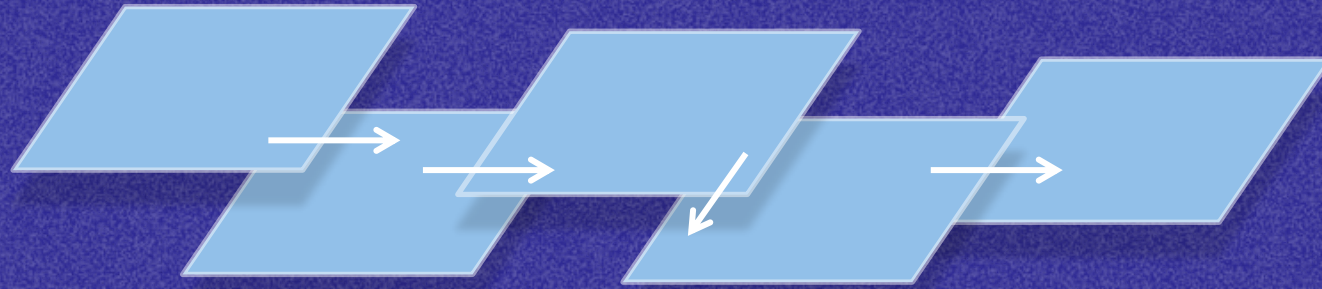


Smart Data Services

InterSystems Vision for Composable Applications

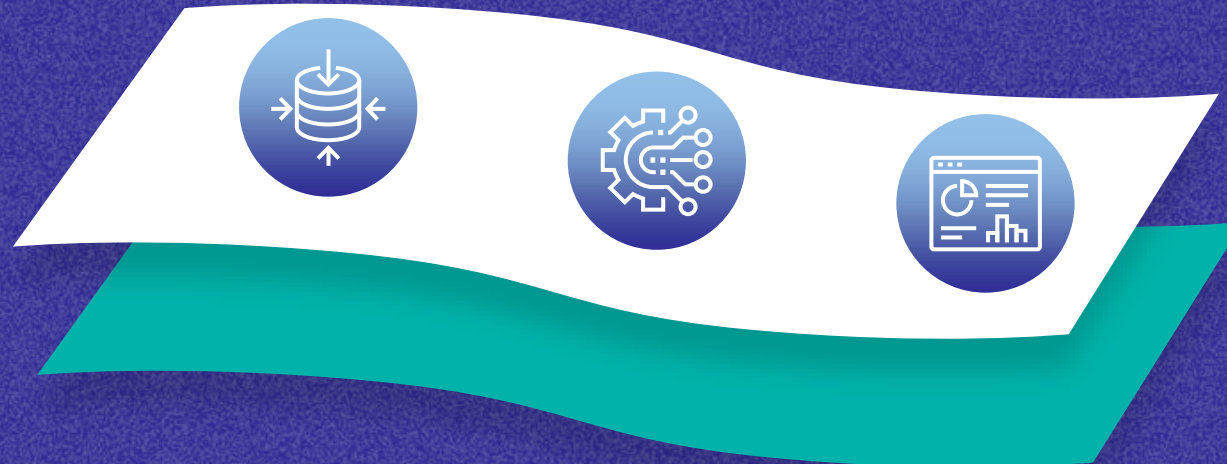


**Smart
Data
Services**



**COMPOSABLE
APPLICATIONS**

**Smart
Data
Fabric**



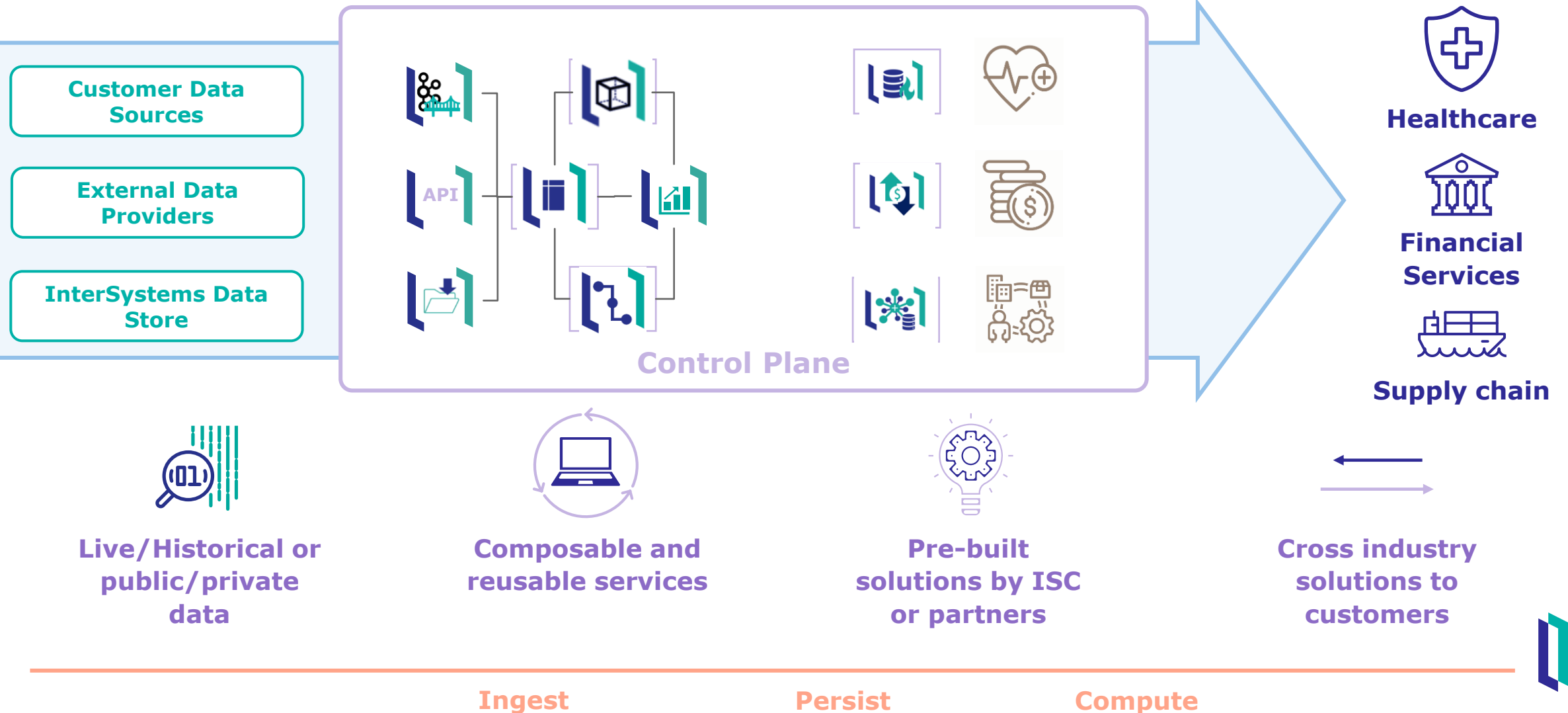
DATA PLANE

CONTROL PLANE

Smart Data Services

InterSystems Vision for Composable Applications

Smart Data Services



Key Investment Areas



**Speed, Scale
& Security**



**Developer
Experience**



**Interoperability
& IoT**



**Advanced
Analytics & AI**



**Cloud
& DevOps**





Thank you

