



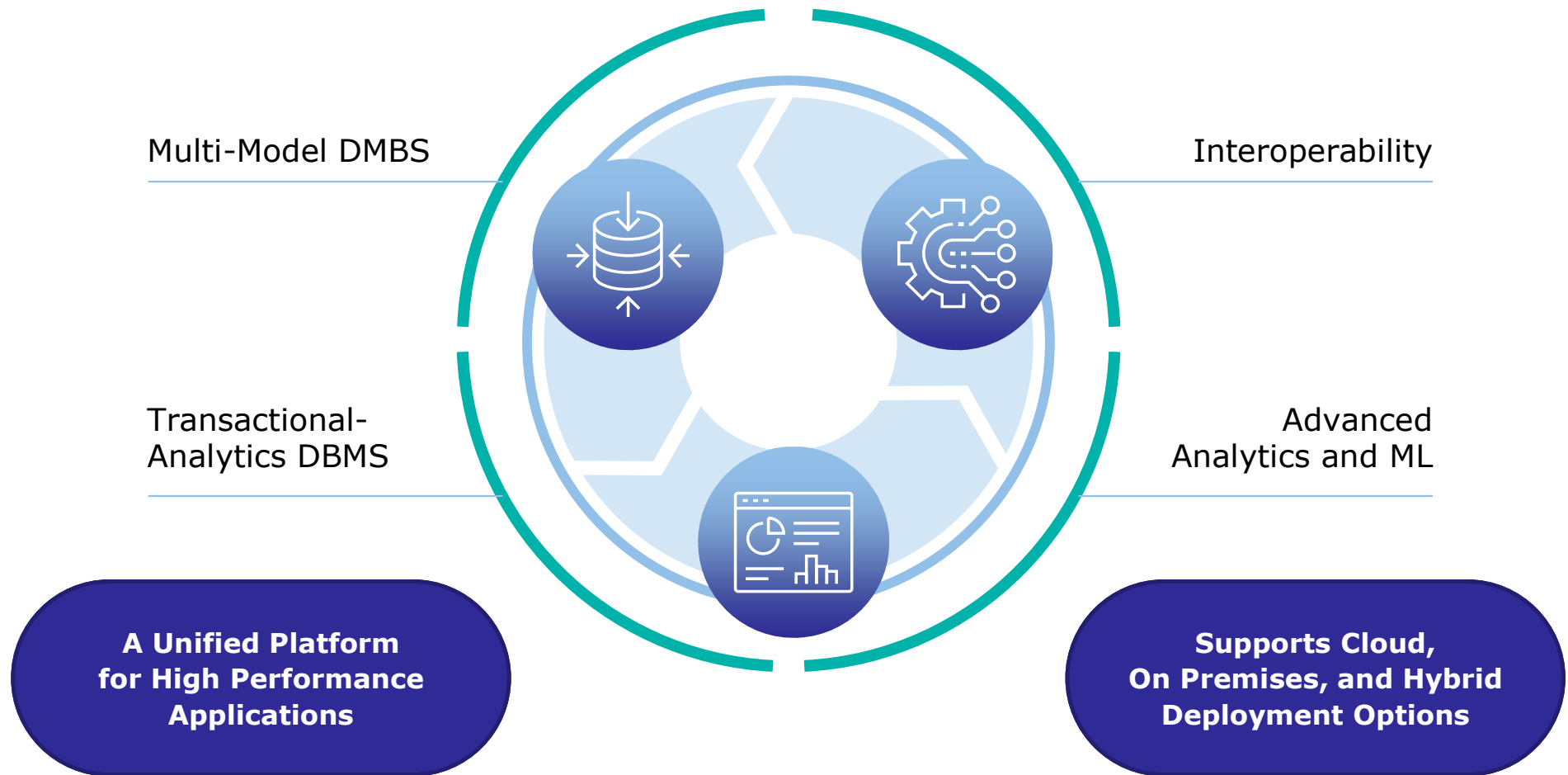
# INTERSYSTEMS IRIS

## ***WHAT'S NEW, WHAT'S NEXT***

**Jeff Fried**

Director Product Management,  
Data Platforms, InterSystems





# 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 Preview **Available Now**

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





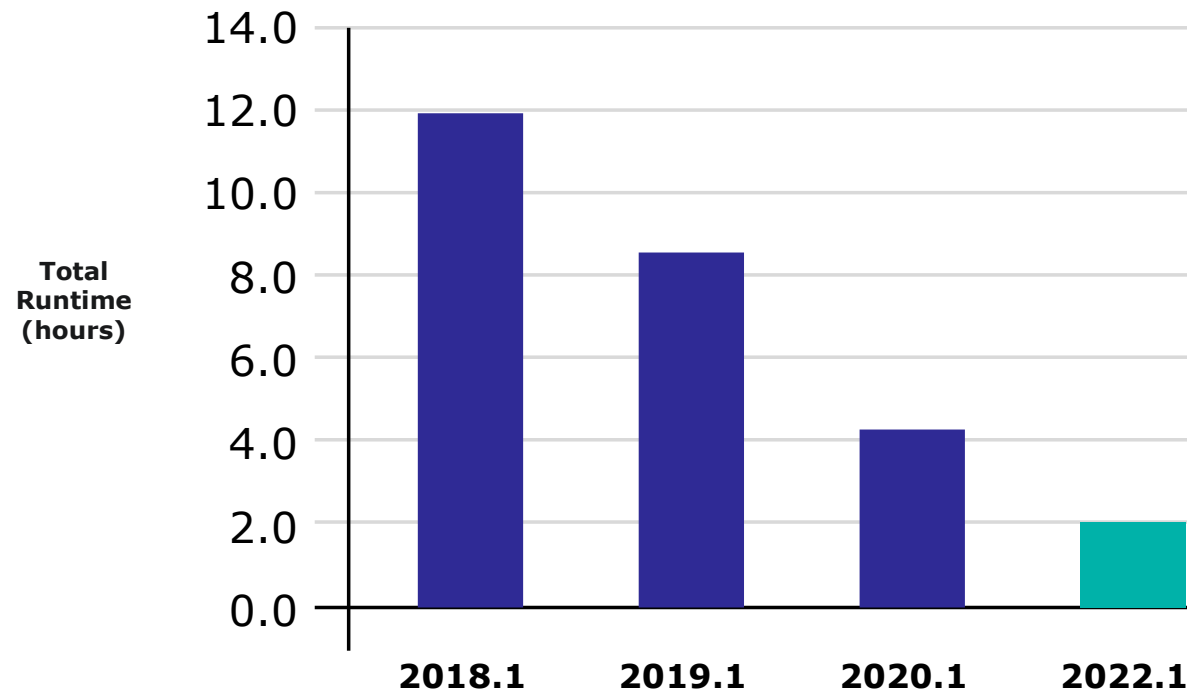








# Release-on-Release Performance Improvements





## Recent Performance Enhancements

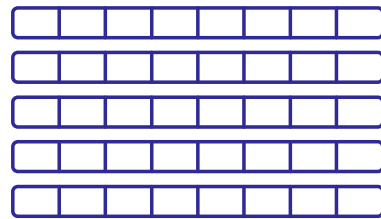


- Parallel Journaling/  
De-journaling
- Node Tables
- Stream Compression
- Journal Compression
- Compact Doubles
- Sharding
- Auto-Parallel Queries
- Adaptive SQL Optimizer

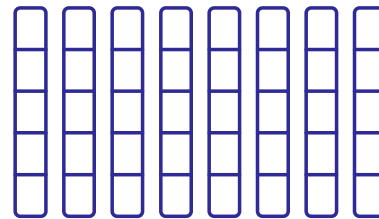




# Introducing columnar storage



Row Storage



Columnar Storage



Early Access Program

We're making analytical queries  
**10x faster**



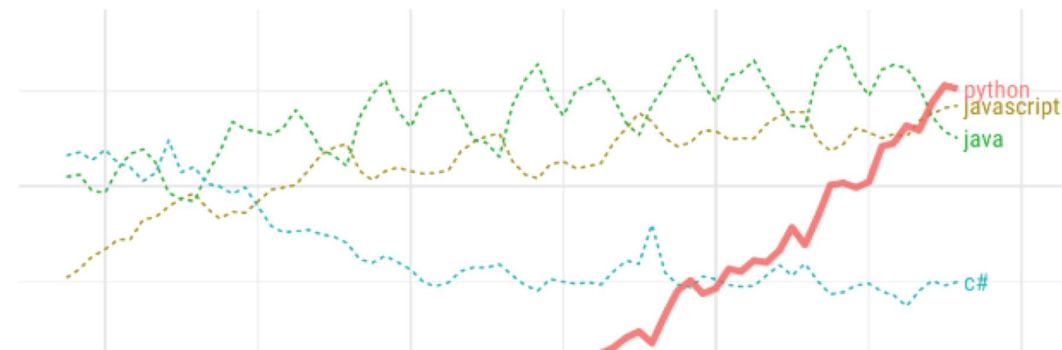


# DEVELOPER EXPERIENCE

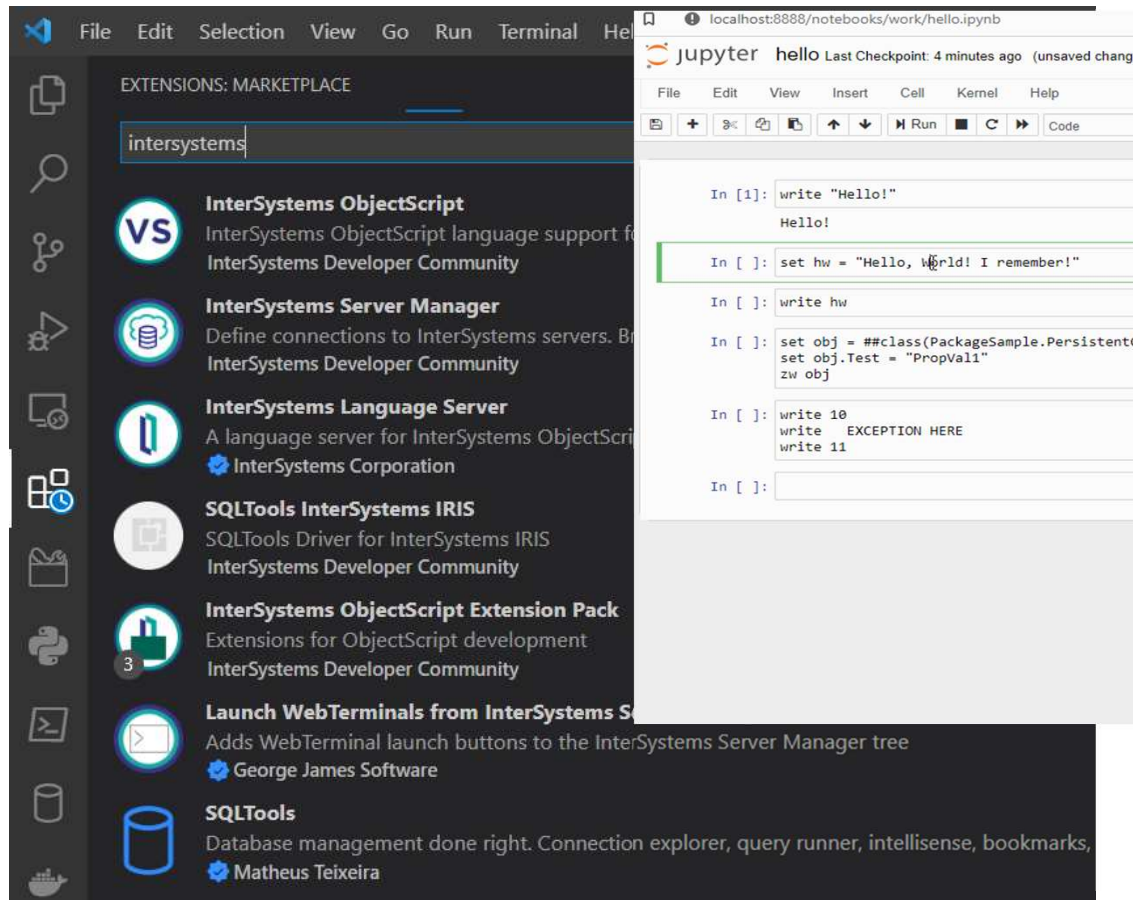


1. Make it easy to try InterSystems IRIS & build powerful applications quickly
2. Embrace top programming languages alongside SQL & ObjectScript
3. Foster an ecosystem & developer community including open source components

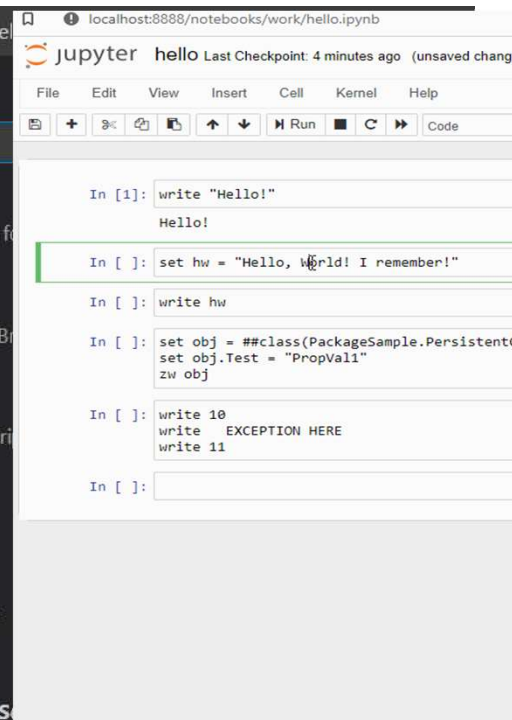
Growth of major programming languages



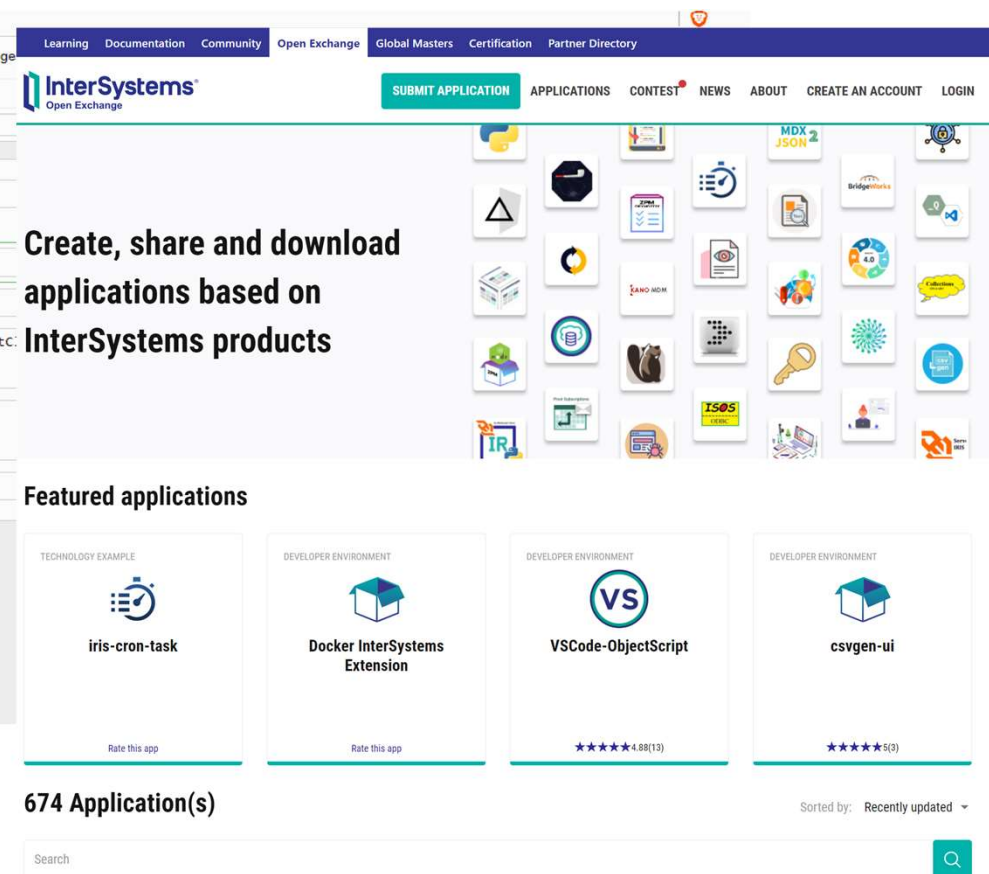
# InterSystems and Open Source Developer Tooling



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



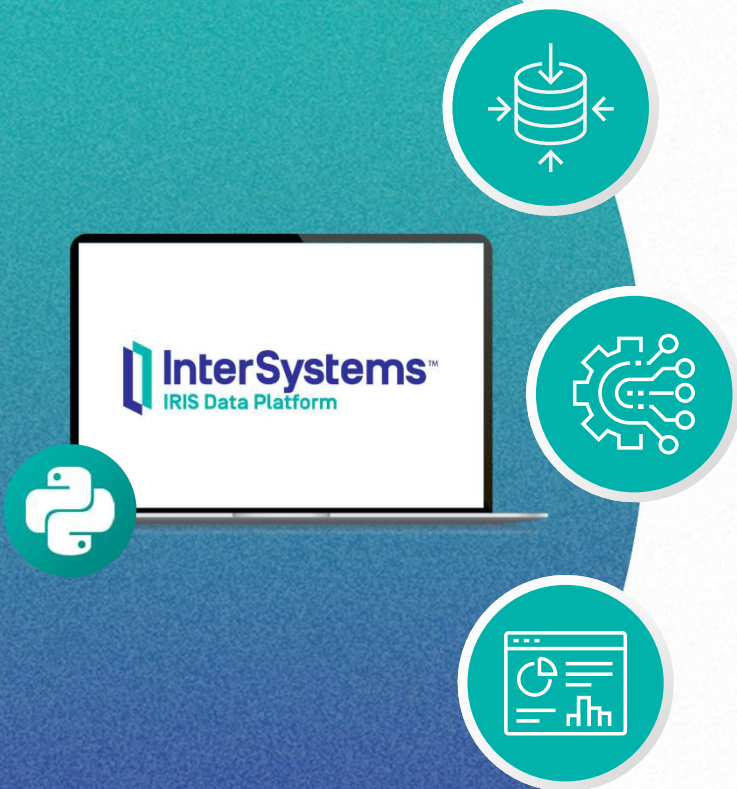
## SCALEABLE

Works with ECP and sharding

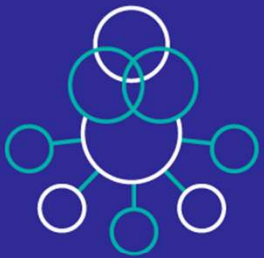


## SECURE

Leverage InterSystems IRIS security model



# InterSystems INTEROPERABILITY



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

- Messages
- Devices (IoT)
- APIs

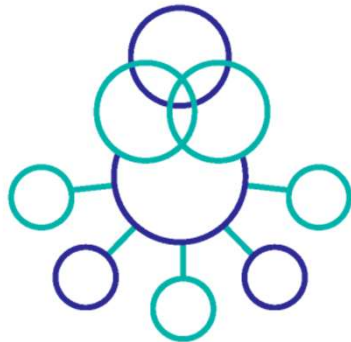




# Embracing Open Source in Interoperability



Inbound & Outbound  
Interoperability Adapters





LATITUDE  
45.6301

LONGITUDE  
9.29103

ON SAFETY CAR  
GO TO PIT



POSITION

2

EMPTY ON  
LAP 51



8  
LAPS

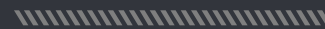


CURRENT LAP  
1:23.052

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

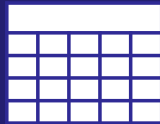
System 3

System 4

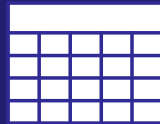
System 5

...

## InterSystems IRIS



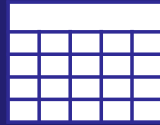
Analytics



Reference



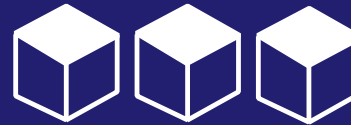
Client



Location

SQL

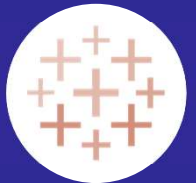
## Design center virtual cubes



Dimensions	Measures
Date	Quantity
...	...

SQL/  
MDX

## BI Tools



...

# Intersystems IRIS Adaptive Analytics



## Data Sources

System 1

System 2

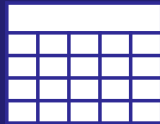
System 3

System 4

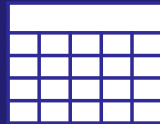
System 5

...

## InterSystems IRIS



Analytics



Reference



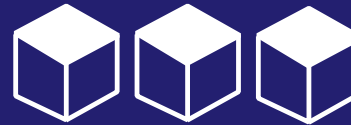
Client



Location

SQL

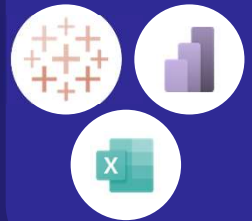
## Design center virtual cubes



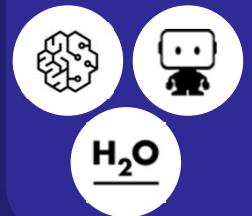
Dimensions	Measures
Date	Quantity
...	...

SQL/  
MDX

## BI Tools



## AI Tools







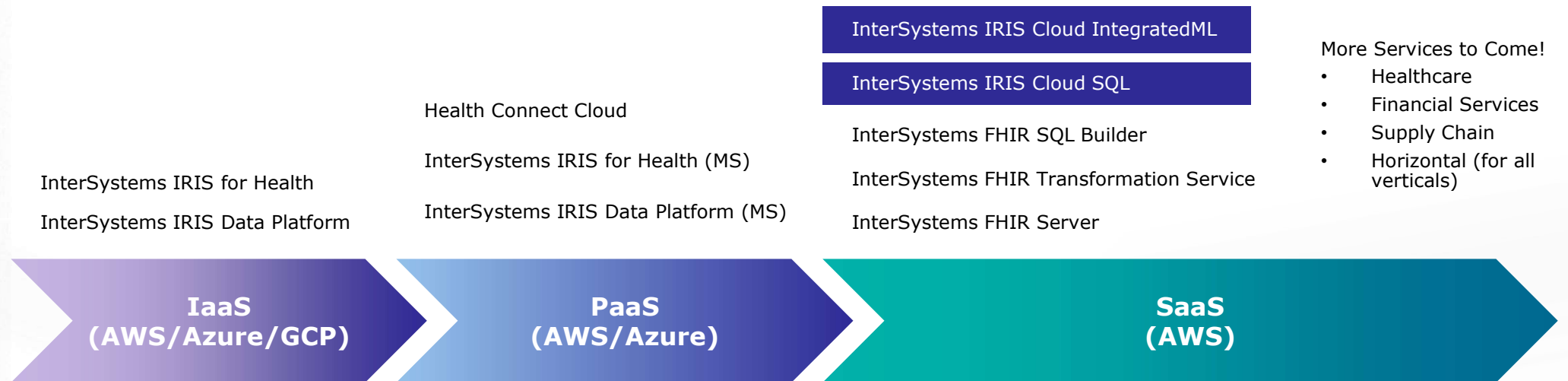


# New InterSystems IRIS Cloud Services



Early Access Program

# Our Cloud Offerings



# Customer Deployments



**Broadridge®**

HARRIS ASSOCIATES



Central and North West London  
NHS Foundation Trust

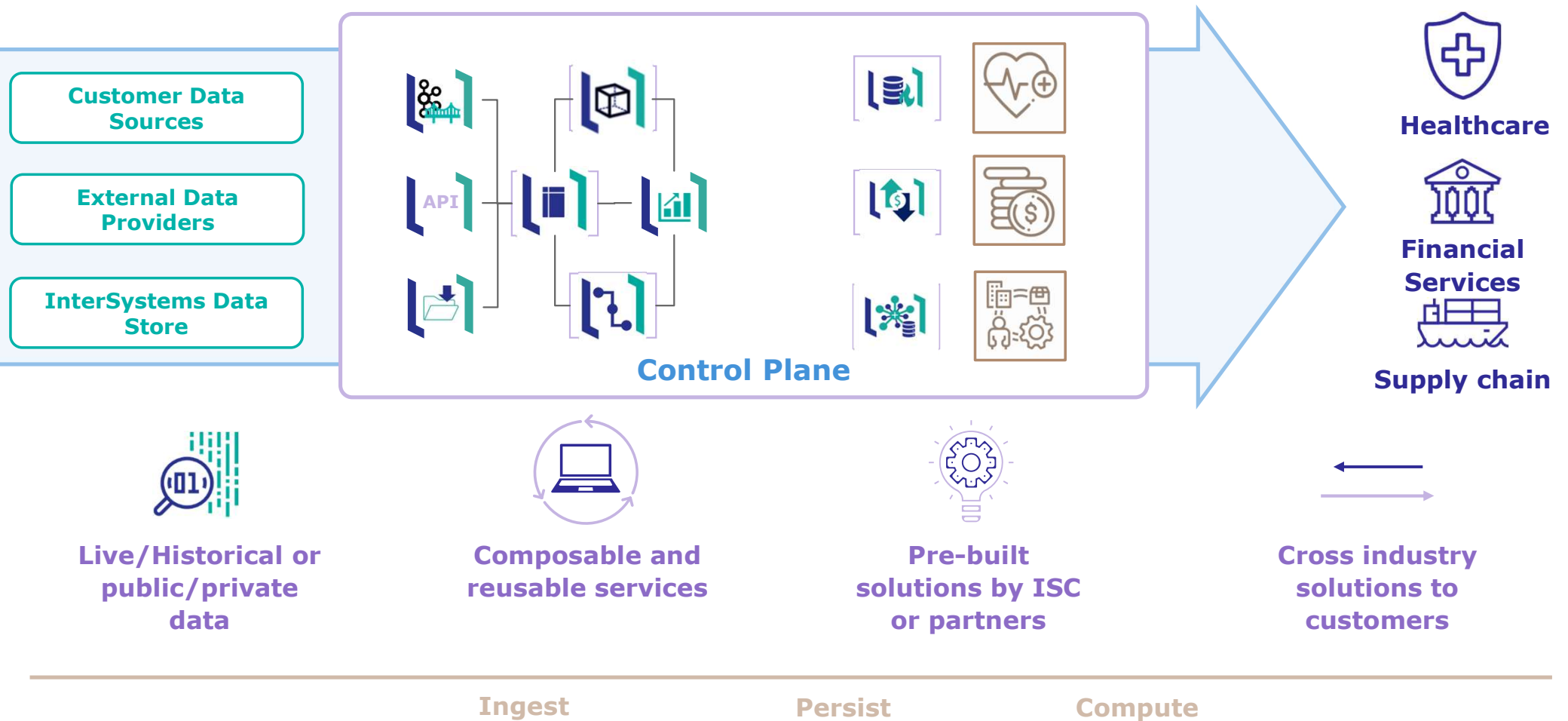




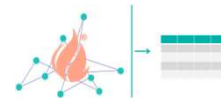
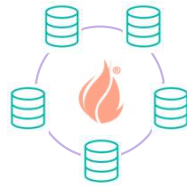
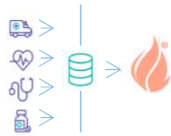
# Smart Data Services



## Smart Data Services



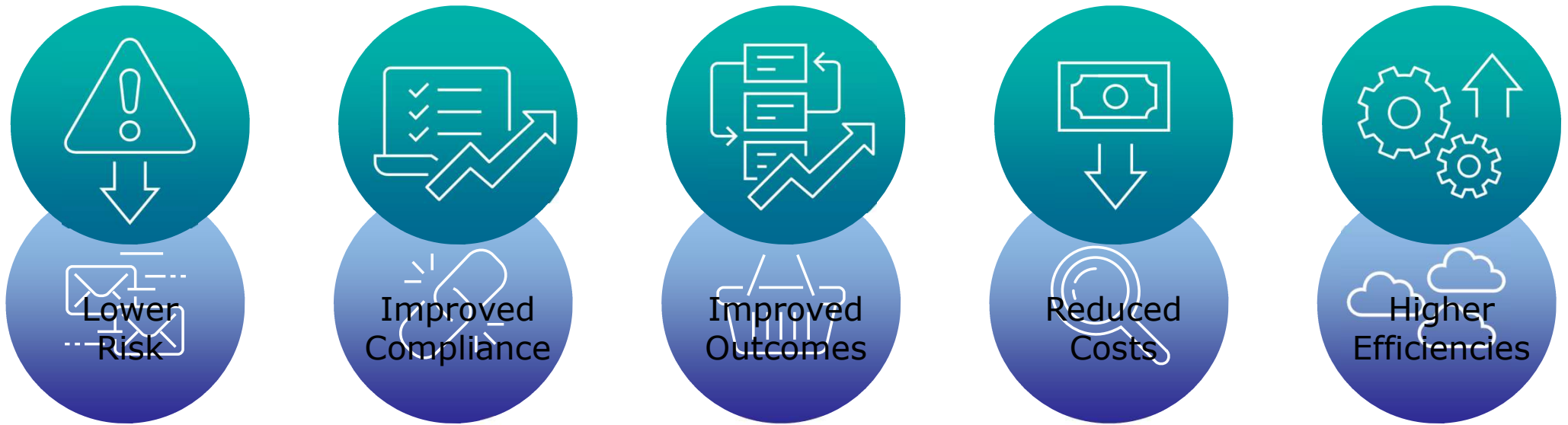
# Smart Data Fabric



**DATA PLANE**

**CONTROL PLANE**

# Smart Data Fabric



Connectivity

Integration

Self-Service

Analytics

Multi-Cloud  
Portability

Powered by



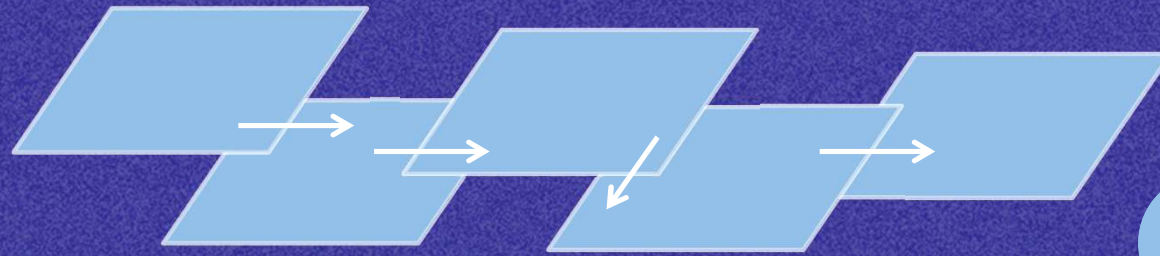
**InterSystems**  
IRIS Data Platform



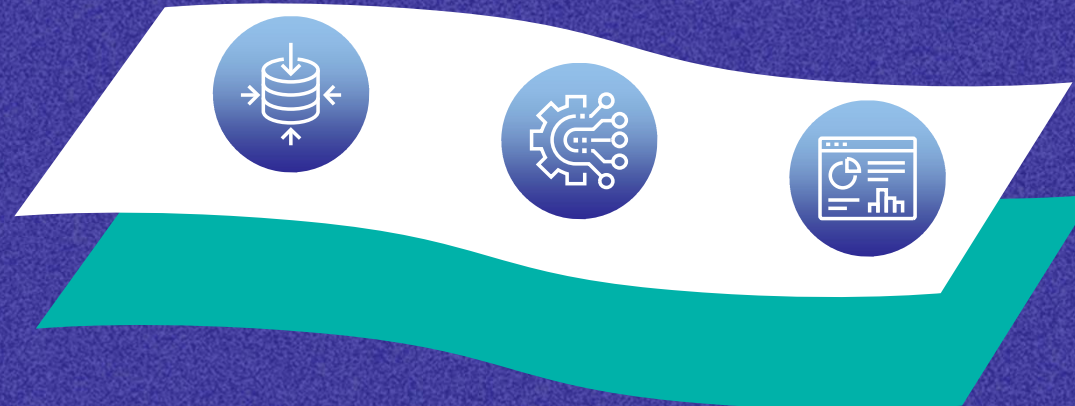


**Smart  
Data  
Services**

**Smart  
Data  
Fabric**



**COMPOSABLE  
APPLICATIONS**



**DATA PLANE**

**CONTROL PLANE**

# Key Investment Areas



**Speed, Scale  
& Security**



**Developer  
Experience**



**Interoperability  
& IoT**



**Advanced  
Analytics & AI**



**Cloud  
& DevOps**







# Thank you

