

 **IZAC | Insurance**



Data-Related Trends in Insurance

Predictive Insurance Analytics

- Identifying outlier claims
- Pricing and Risk Selection
- Anticipating Trends
- Triaging claims
- Identifying customers at risk of cancellation
- Identifying risk of fraud

IoT and Telematics

- Driving Behavior Analytics
- Customizing Insurance Plans
- Timely Maintenance Reminders
- Customers' Driving Habits

Insurance Chatbots

- Provides quotes or addresses other FAQs
- Offers 24/7 assistance
- Collects visitors' contact information
- Automate the claims process

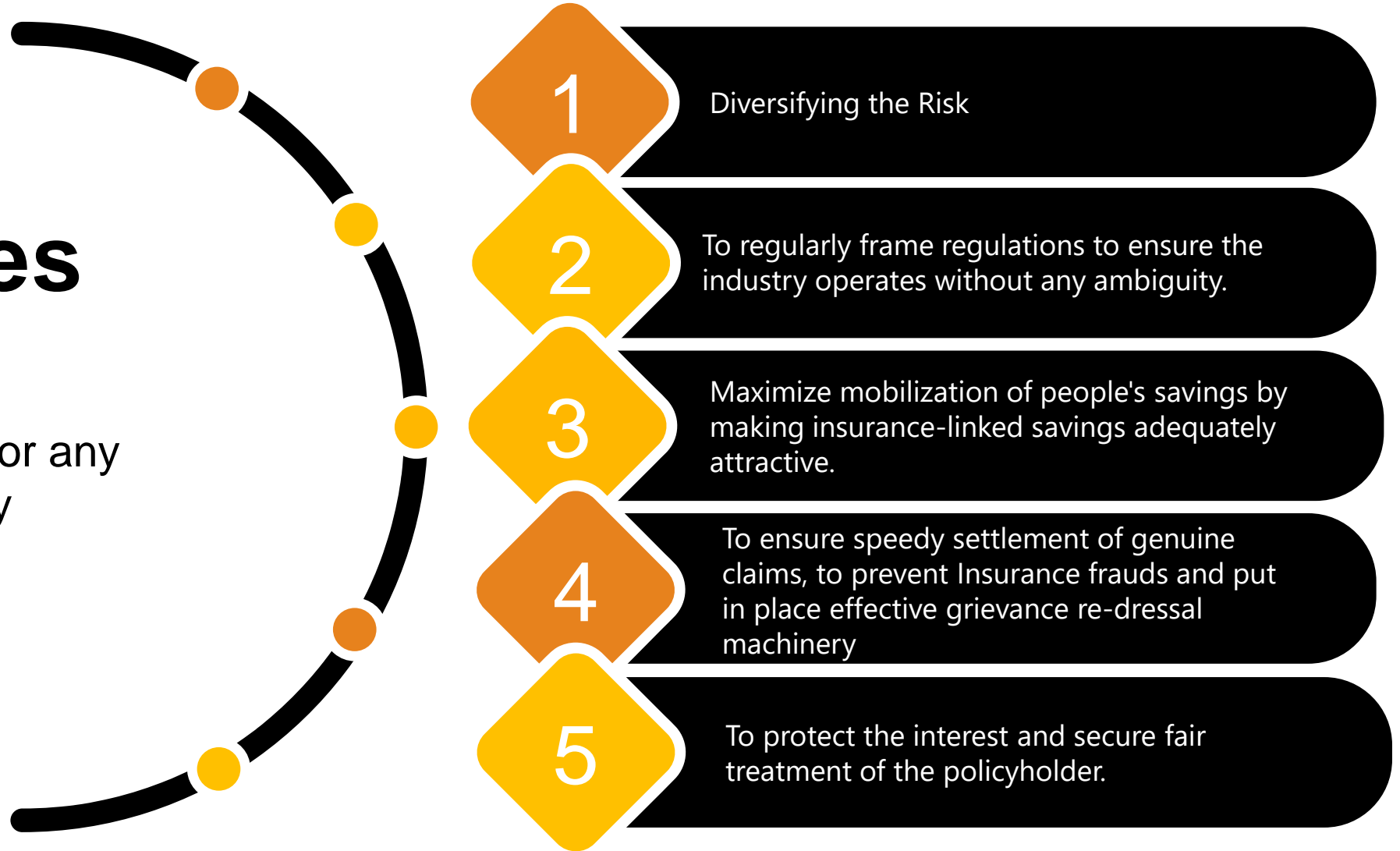
Applied AI and NLP

- Fraud detection software
- Document capture technologies
- Risk management software
- Claims processing software
- AI-enabled insurance chatbots
- Predictive analytics tools

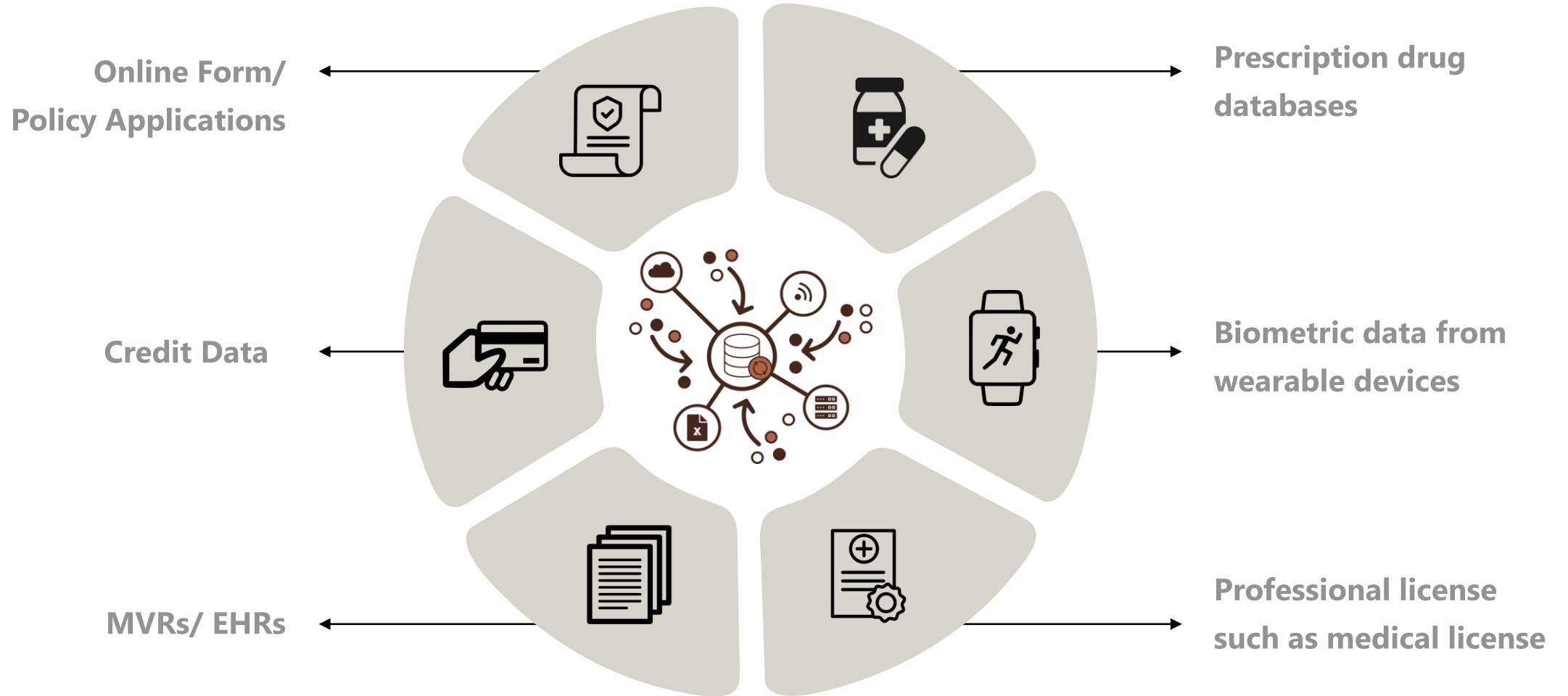


Objectives

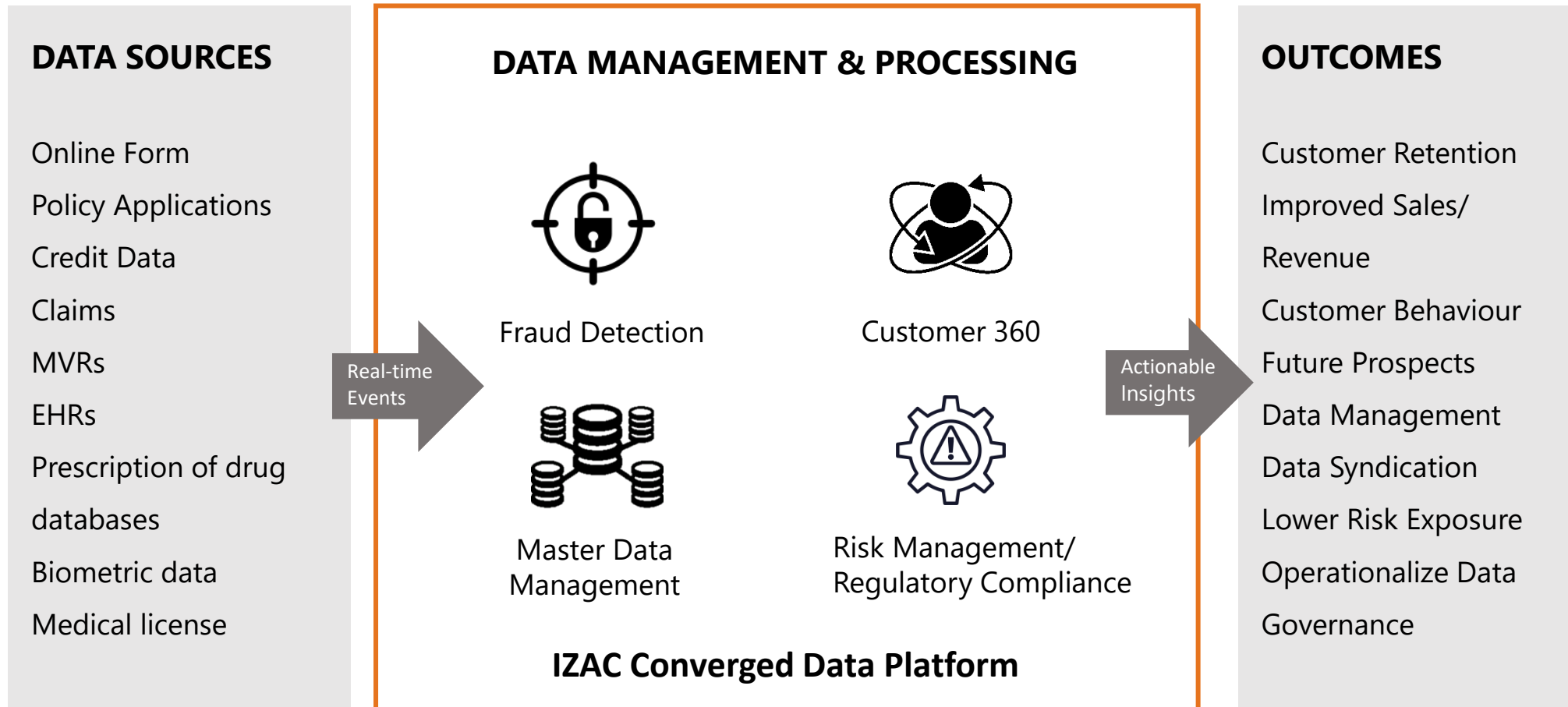
Few Key Priorities for any Insurance Company



Data Sources



IZAC Architecture for Insurance





Real Time Analytics Platform



Cloud Hosting

Always On, Always-Fast



Operations

Always Optimized



Customer 360

Always Intelligent



Fraud Detection

Always Protected



Decisions

Always Proactive



People

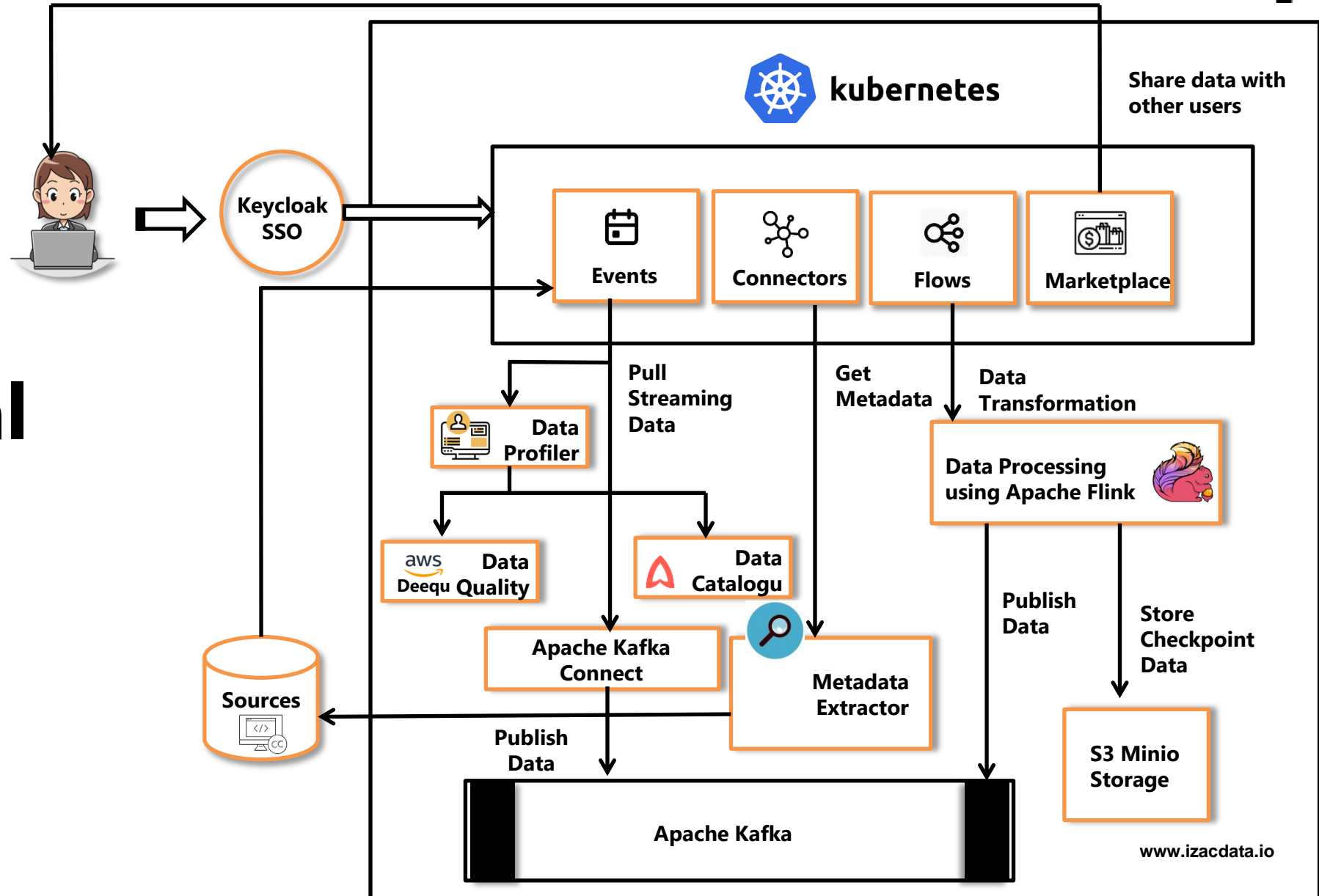
Always Empowered

IZAC Data Exchange Platform

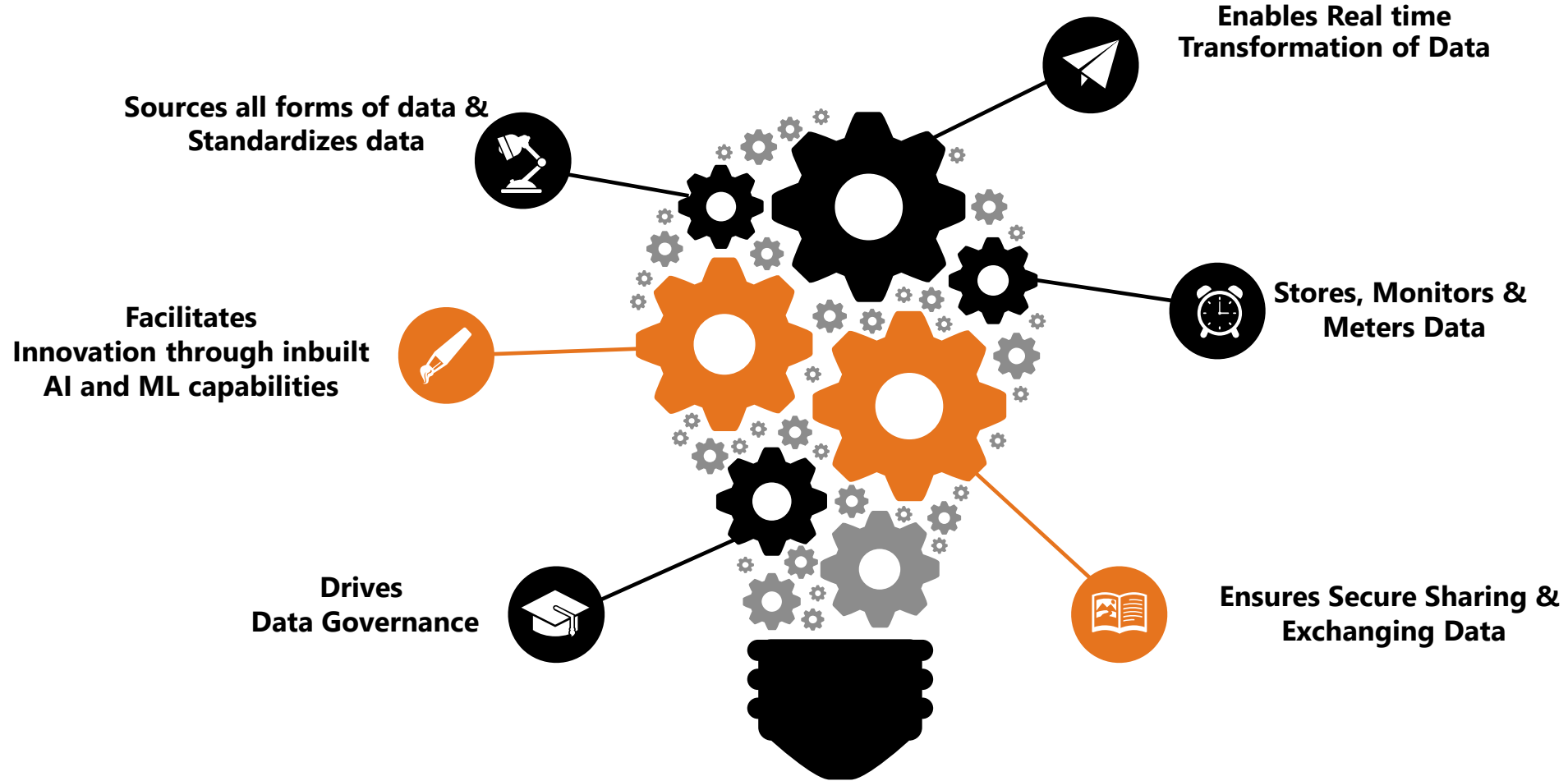
Insurance



IZAC Internal Architecture

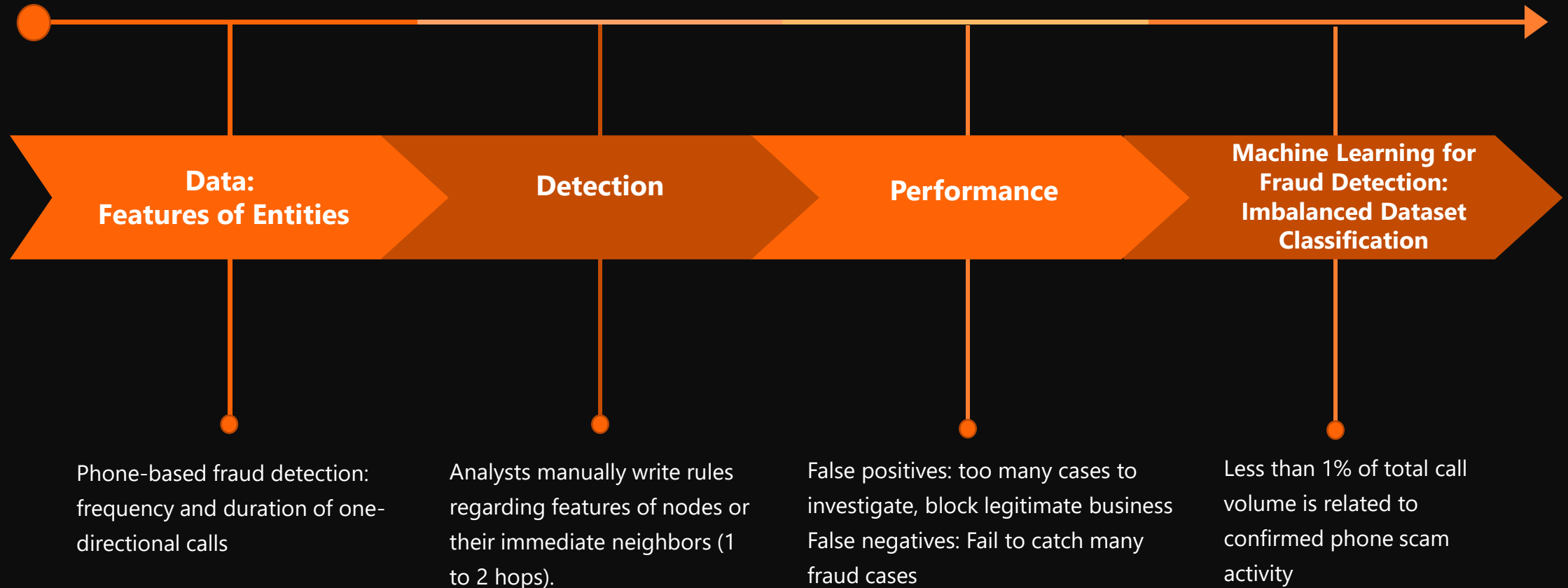


IZAC – Digital Transformation Enabler





Current Approach





Combat Fraud: Challenges

Complex Modelling

Customer 360, with ever growing schemas

Real-time Monitoring

Time sensitive
Post-event detection is ineffective

Large-scale event/ Transaction handling

Billions or trillions scale

Deep link analysis

Go beyond immediate neighbors to discover non-obvious relationships

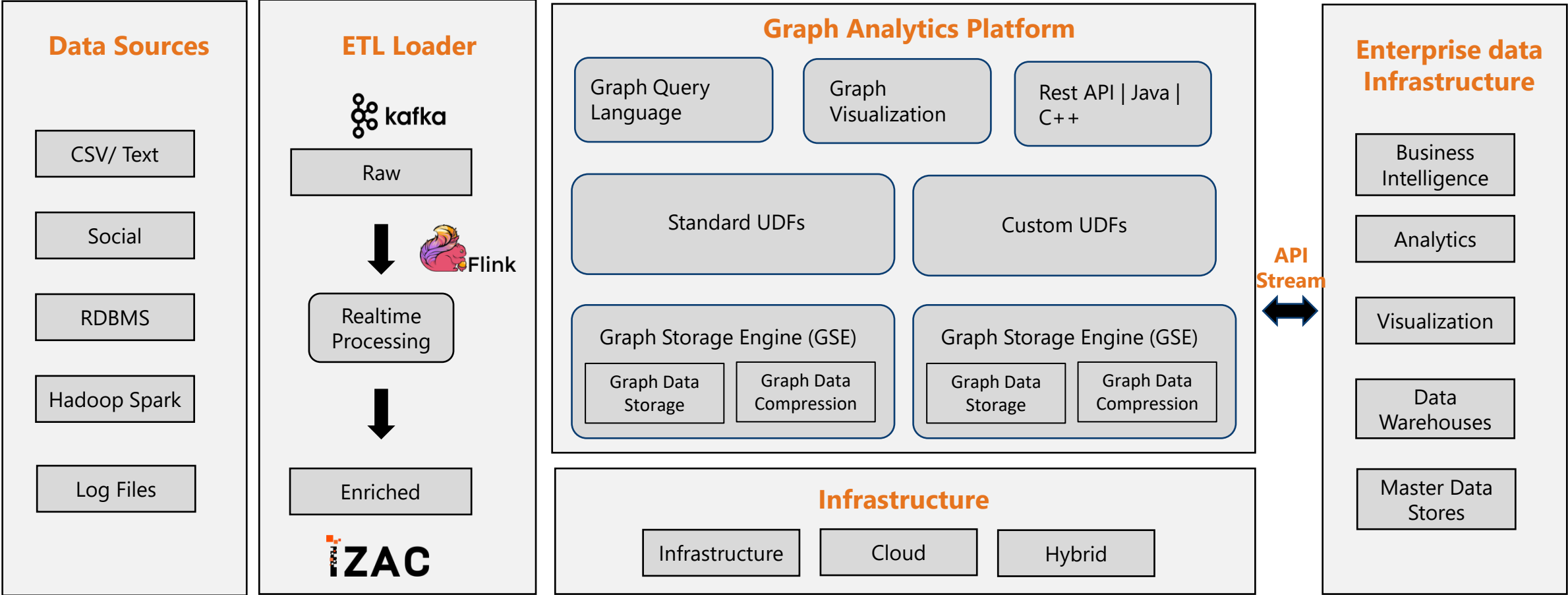
Complex contextual analysis

Subtle and effective signal buried in network

Complex logic

Complicated, expensive coding

Real-Time Graph Analytics Platform





Combat Fraud: Solution Highlights

Complex Modelling

Graph Model

Real-time Monitoring

Real-time post new data
Real-time query response

Large-scale event/ Transaction handling

Scale out and up
High Compression

Deep link analysis

Analyze 3-10+ hops across the graph

Complex contextual analysis

GSQL, customer delighted comparing
with Cypher & Gremlin

Complex logic

Existing SQL or graph languages

Detecting Fraud with IZAC



Real-time Deep Link Analytics at Massive Scale

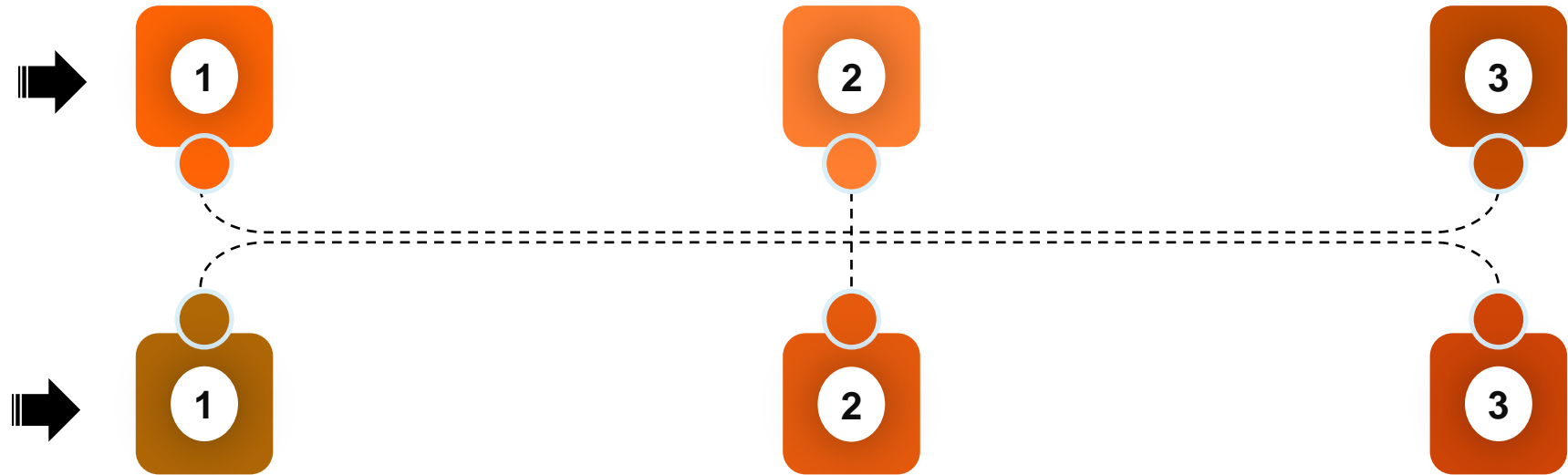
Real time updates and Integrate multiple data sources into one graph

GSQL helps easily collect complex, deep-link, aggregate graph features

Feed Machine Learning algorithm with new training data

Graph Features to the rescue

Deep Link Analytics to the rescue



GSQL easily describes graph traversal and compute patterns

Massive parallel processing for speed and efficiency

Visualization shows evidence right on the spot



Needs & Challenges

Needs	Challenges
To get better visibility on customer needs to serve them better, increase customer loyalty and generate new revenue streams	Data complexity
To improve operation effectiveness	Link and analyze different data sources
To assist decisions regarding risk and fraud mitigation	Security and risk challenges, how to empower decision making based on facts



Solution approach

WHY

To personalize financial services for their clients with a better visibility on their needs while still optimizing their operation

WHAT

Unified Platform for all types of information exchange to provide a full customer 360 view

WHO

The solution is applicable to all institutions looking for intelligent insights about their clients and take informed decisions

IZAC platform for Customer 360 Overview



Customer 360 Benefits



INCREASE Customer Retention



REDUCE
Overall
Costs



IMPROVE Sales/Revenue



BETTER
Customer
Experience



Manage Customer Behavior



IDENTIFY
Future
Prospects



Inform Strategic Decision-making



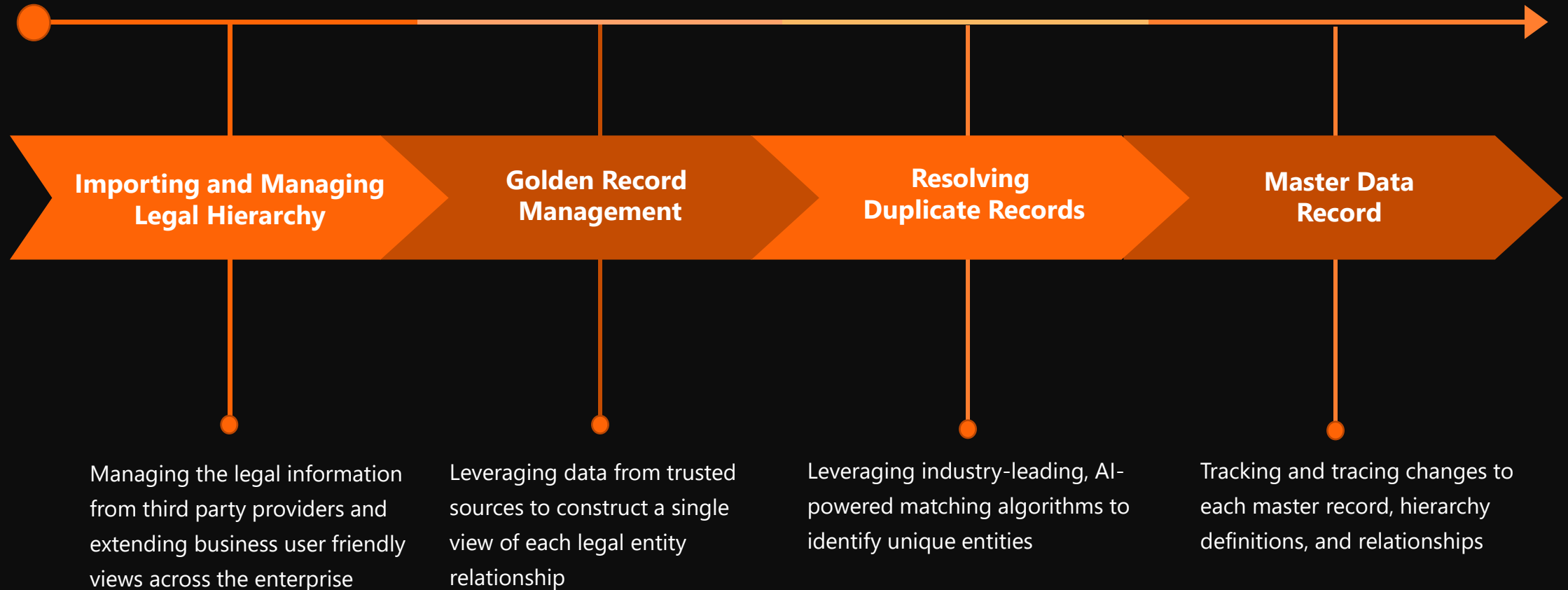


Needs & Challenges

Needs	Challenges
Client Onboarding	Duplicate records across systems
Credit Risk Management	Lack of cross-referencing between legal entities
Regulatory Compliance	Difficultly sharing legal entity data between systems
Personalized Customer Service	Invalid counterparty names and legal entity information



Solution Approach





- External Data Onboarding- Leverages prebuilt adapters to onboard data from third-party data providers.
- Business-driven, proprietary, and custom feed management
- Universal data connectivity allows access to existing counterparty related data in different sources.

Data Acquisition

- Pre-built data models include comprehensive counterparty/ legal entities and hierarchies.
- Data model management-
- Golden record management
- Hierarchy management
- Cross-entity relationship management

Data Management

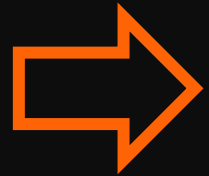
- Universal connectivity to any target system, databases ensures seamless delivery of counterparty data to downstream risk and compliance systems.
- Right-time syndication enables real-time or batch integration to the downstream risk and compliance systems.
- Scalable and proven architecture supports enterprise-level delivery

Data Syndication

MDM Benefits



Why IZAC for Master Data



01

Integrated data access,
management, governance,
and syndication

02

Support for other reference
Data types including
securities/ instruments and
clients

03

Flexible and customizable
data models and rules



Data Challenges and Financial Impacts

Challenges	Impacts
Ineffective data quality processes that result in improper data for use	Unwanted audits and fines due to: <ul style="list-style-type: none">• Miscalculated risk scores• Underfunded capital reserves
Limited visibility into existing data lineage processes for data used	Higher costs for: <ul style="list-style-type: none">• Compliance• Data management
Lack of accurate data due to the lack of a single, reliable source of the information	<ul style="list-style-type: none">• Higher risk management costs• Increased risk of financial exposure• Underfunded capital reserves
Slow to execute and extremely labor intensive processes for data governance oversight	Policies are not fully enforced: <ul style="list-style-type: none">• Processes are inconsistent• Data governance costs are higher than expected



How does it work?

Supports new and existing investments to manage risk and comply with industry regulations by enabling you to:

01

Create and implement data quality rules to correct errors, monitor anomalies, and send data quality reports.

02

Identify, categorize, and organize data assets with an AI-powered data catalog. Get a unified view of enterprise metadata to add context to your data.

03

Manage and connect legal, non-legal entities in a single, reliable source for credit risk management and know your customer (KYC)

04

Enable data stewards to automate policy oversight and help business users get access to their data questions quickly and accurately.

Benefits



01

Improve business trust
in your data

02

Gain transparency into
your data lineage

03

Identify and lower your
risk exposure

04

Operationalize and
Democratize Data
Governance

Thank You