USE BUS | AI CODE

HYBRID INTEGRATION PLATFORM
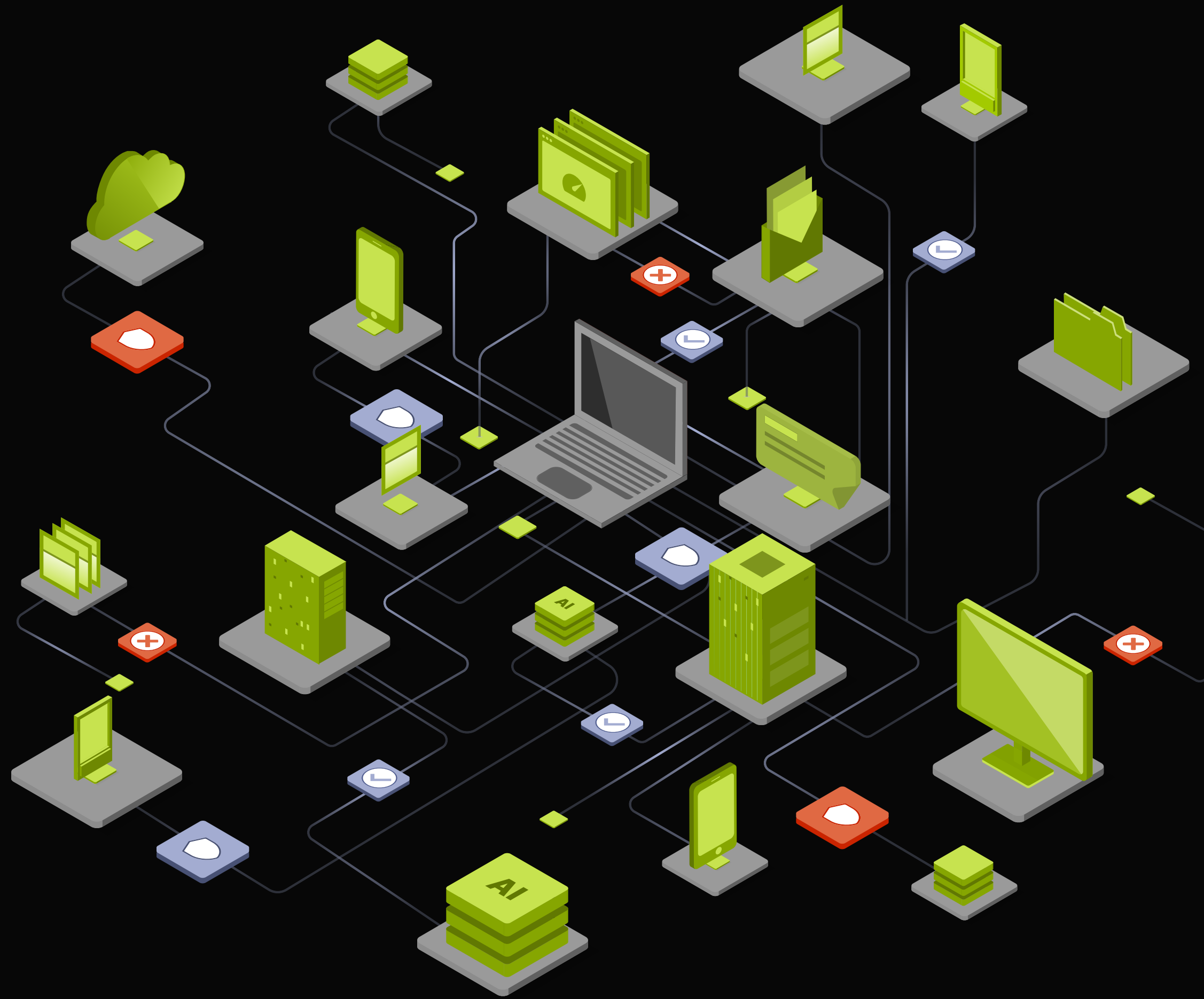
YOUR DATA IS IN YOUR HANDS - BE STRATEGICALLY FREE
FROM TOO PROPRIETARY LICENSING POLICIES

kafka

Google Docs

python

Directum

Microsoft

OpenAI

JIRA

ATLASSIAN

ORACLE

aws

zendesk

SQL

Grafana

SAP

Powered by AI technologies

Your IT Challenges

Why do we need secure and efficient integration tools at all?

USE TECH

### Growing role of data-centric architectures and Big Data processing

We observe how Data is growing every day. Modern IT systems, based on Data traveling over the Internet, require efficient Data processing and respectful Data protection on premises and in clouds.

Rapidly changing business expectations from IT systems and their abilities

Today, in order to survive, business has to be agile and react quickly, which means in turn IT systems have be evolve quickly and be extremely flexible and extensible
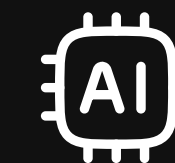
### Need for AI involvement in all aspects of data processing

AI's impact on society, ethics, and the economy is growing and shaping the future of technology, so now we have a constant need of fast and seamless integration with AI models

Critical influence of cybersecurity and data privacy demands

Information technology more and more influence our everyday life and it brings security and data privacy aspects at first place in our Digital Era

/ Does your **IT cost too high?**

/ Does your business **deal with big amounts of data?**

/ Do you consider **automation of your business processes?**

/ Do you want to **decrease time required for building new integrations?**

/ Do you have a requirement **to be able to integrate with your with partner systems fast?**
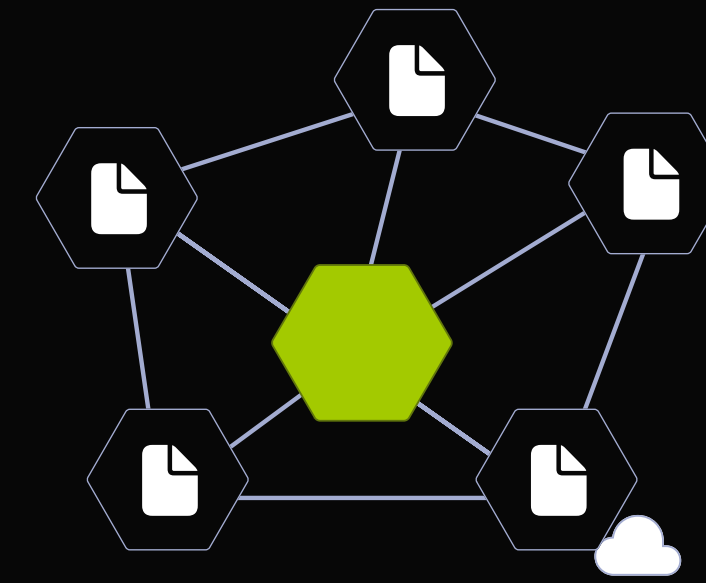
The Agile world requires
an Agile IT landscape

?
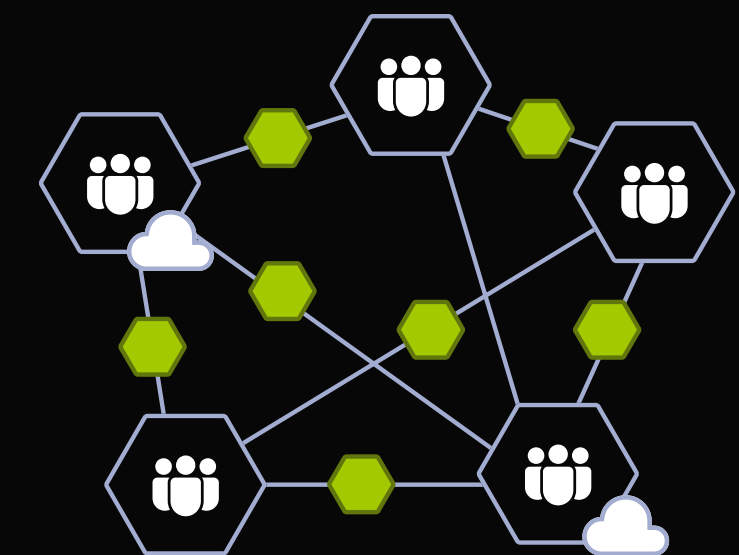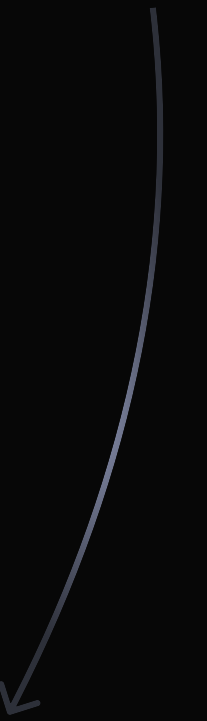
Hybrid Integration Platform
USEBUS AI-Code

USEBUS supports a wide range of installation options, including on-premises installation and cloud deployment, ensuring data protection from unauthorized access

1/ Real-time Data Processing
Allows continuous data flow and processing with minimal delays

3/ AI and Automation
Uses AI for smart workflows, decision-making, and automating repetitive tasks

2/ AI/NO/No-Code Tools
Empowers non-developers to create integrations through visual, user-friendly interfaces

4/ Strong Security
Incorporates encryption, compliance, and secure data handling mechanisms

5/ Business Efficiency
Dramatically decreases time to market for your integrations and reduces integration costs at average 30%—50%

USE TECH

ENJOY
THE IDEAL
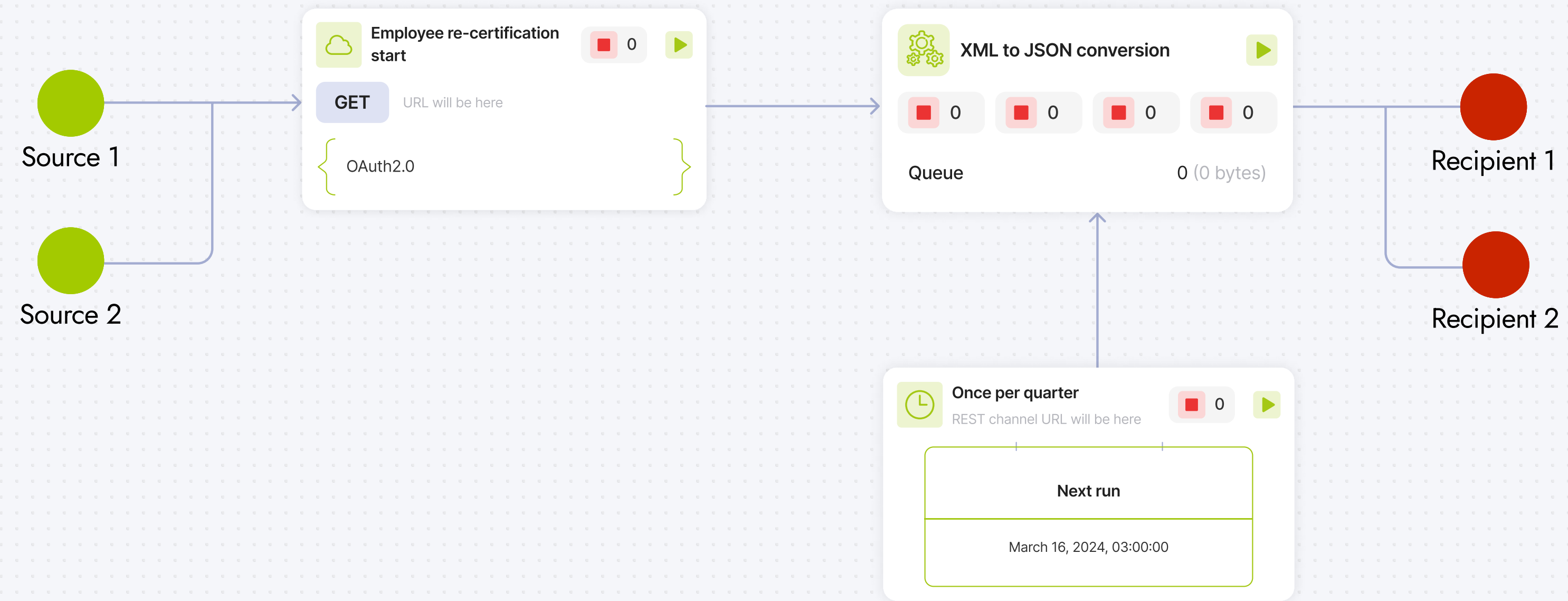IT LANDSCAPE!

launch

Think

Connect

check

USEBUS
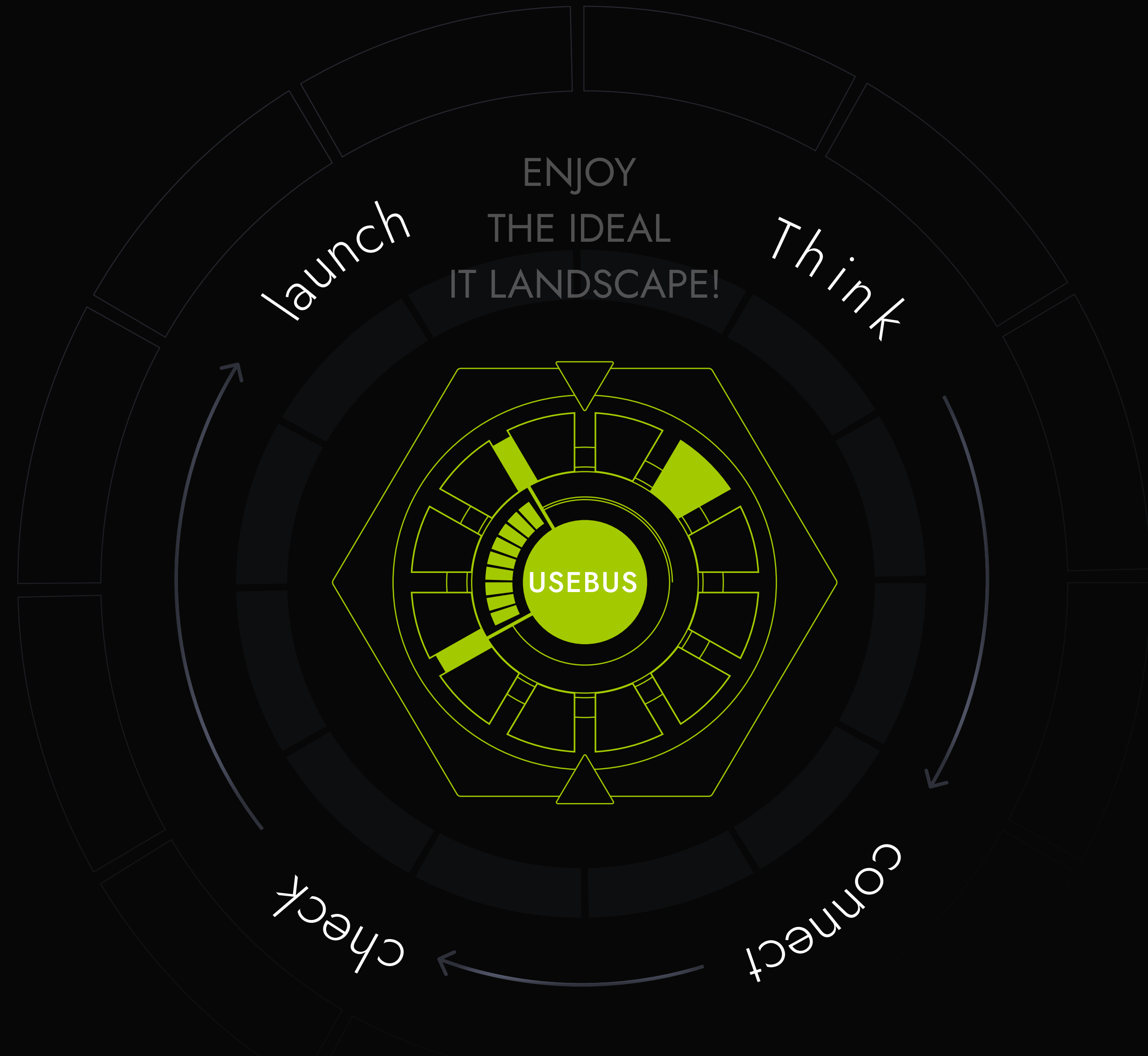
Deliver reliable integrations faster than ever!

User-friendly interface allows to connect any IT systems

The interface was developed by skilled and passionate IT experts. It is built on top of Apache NIFI — an industrial standard in the world of integration and data processing — extended by our ideas, based on our experience and customer feedback.

Source 1

Source 2

Employee re-certification start
■ 0 ▶
GET   URL will be here
{ OAuth2.0 }

XML to JSON conversion ▶
■ 0 ■ 0 ■ 0 ■ 0
Queue   0 (0 bytes)

Once per quarter
REST channel URL will be here
■ 0 ▶

Next run

March 16, 2024, 03:00:00

Recipient 1

Recipient 2

Integration is easy!

Start building your own integration ➕ in one click,and the system will guide you and provide promptsat each step, through the entire integration process
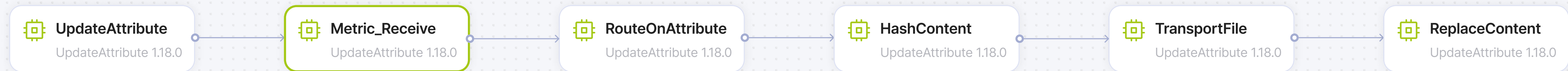
Build integrations as a data engineering guru by using template forms and following hints provided by the platform

🕐 Low-code allows you to design integration interactions up to 8 times faster than conventional coding, using more than 500 ready-made elements.

➕ Low-code elements can be supplemented by developers without any restrictions

📄 Instructions are developed for all Low-code elements

💬 Interface prompts will help you to get started

❓ User manual is integrated into the interface

There is an actively growing Russian-speaking NiFi community with more than 1,700 members

CREATION OF INTEGRATIONS IN ACCORDANCE WITH ENTERPRISE INTEGRATION PATTERNS

Witness for yourself, that integrations operate as intended by author

UpdateAttribute	Metric_Receive	RouteOnAttribute	HashContent	TransportFile	ReplaceContent
UpdateAttribute 1.18.0	UpdateAttribute 1.18.0	UpdateAttribute 1.18.0	UpdateAttribute 1.18.0	UpdateAttribute 1.18.0	UpdateAttribute 1.18.0

Atributes   Content   Properties   ☑ Show changes only   ⤓ Export

It was

filename
7c8a92cb-14ea-4b98-a1c8-b8a882c51271

http.context.identifier
415f5271-2096-4dd0-bc62-b331082448c1

http.headers.Content-Lenght
524288

http.headers.Content-Type
application/octet-stream

It has become

filename
2b8a63ab-23ba-4a55-b4c9-b8a000c51729

http.headers.Content-Lenght
634118

Clear batch trace

Trace allows you to track changes in data batches in each event and compare states of batches at different stages —as related both to data itself and to its metadata
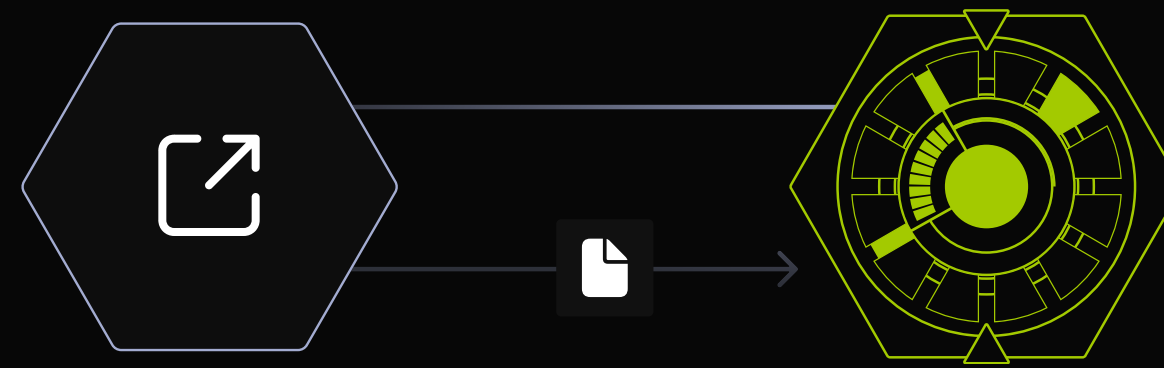
Convenient integrations debugging

Debugging is a faithful user assistant ensuring that the established data transformations chain operates as expected.

INDICATE TEST DATA AT ANY STEP AND GET RESULTS FOR TOTAL PEACE OF MIND, MAINTAIN A PERFECT IT LANDSCAPE
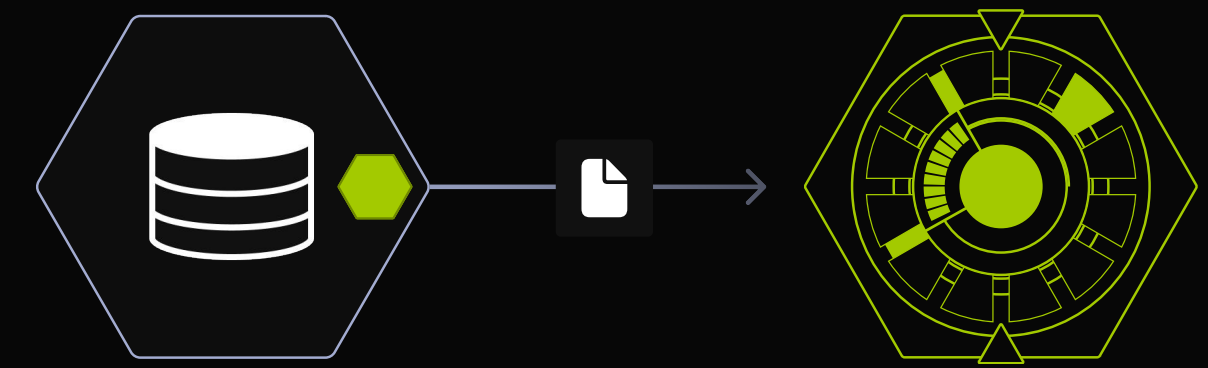
USEBUS connects everything and in all ways

USE TECH
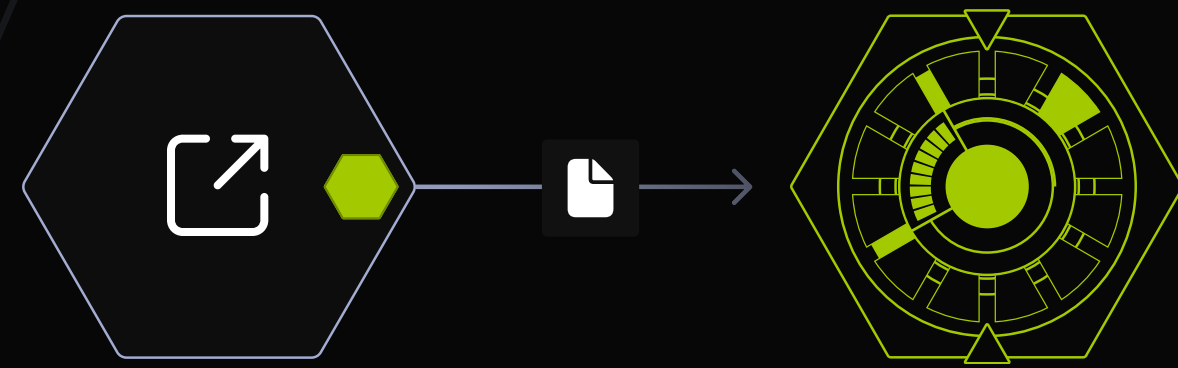
App

App

Database

Application Connectors

Versatile connectors for seamless system integration. Direct communication with various applications and databases from within the integration platform.

Application Adapters

External components for send data and events from applications to the integration platform. Enables proactive integration and immediate response to system changes.
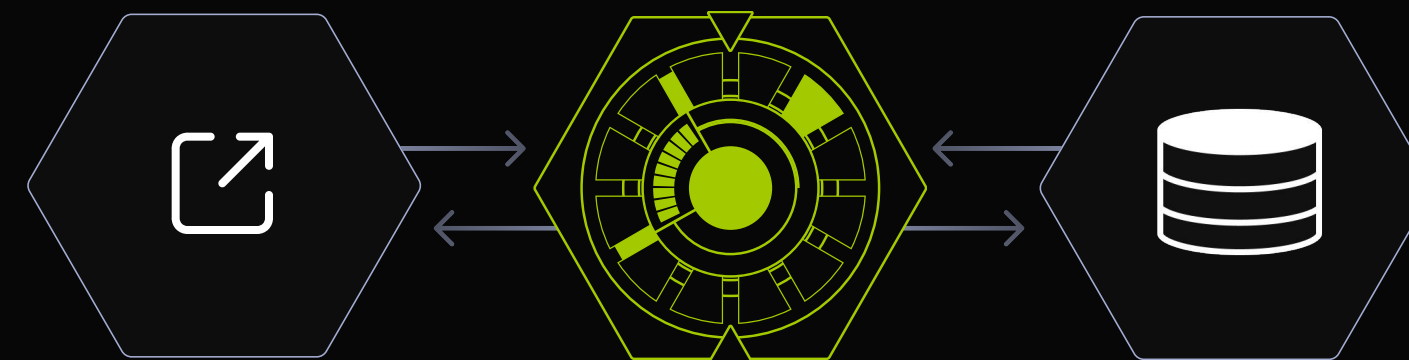
Database Change Data Capture

Instant capture and transfer of changes in SQL and NoSQL databases without performance loss. Efficient real-time data synchronization between systems.
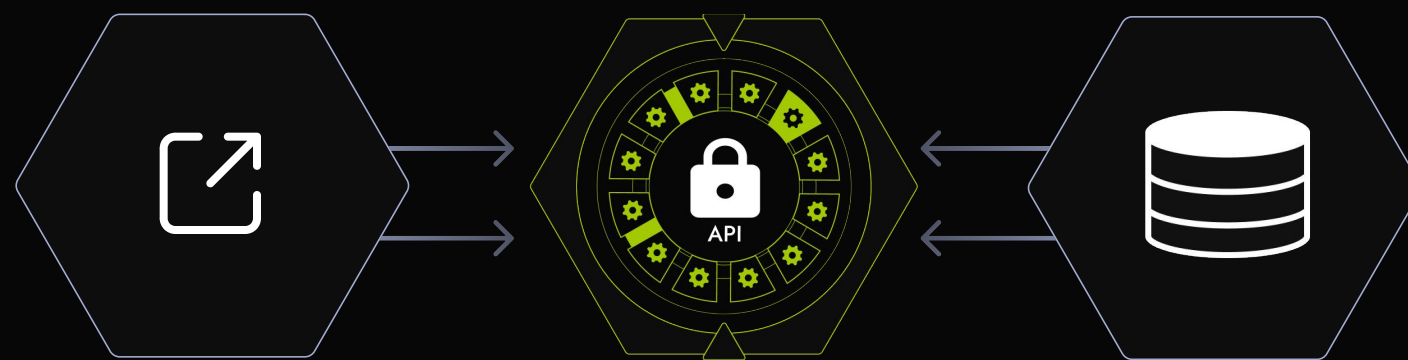
App

Database

App

Database
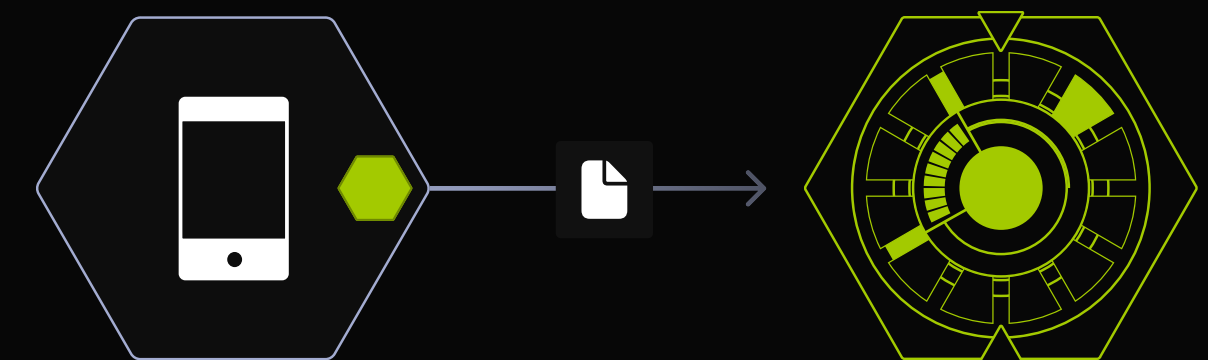
Device

API Gateway

Secure authentication and authorization with request validation for external systems. Automatic and dynamic configuration specifications without restart.

Schedulers

Flexible timing and frequency settings. Reliable task management for seamless data synchronization.

Agents IIoT and IoT

Lightweight data collection and preprocessing agents to collect and transfer data from industrial and smart devices to the integration platform.

TYPICAL USE CASES: INTEGRATION GATEWAY

USETECH

Clouds

Public Internet

Own servers

API Security Gateway
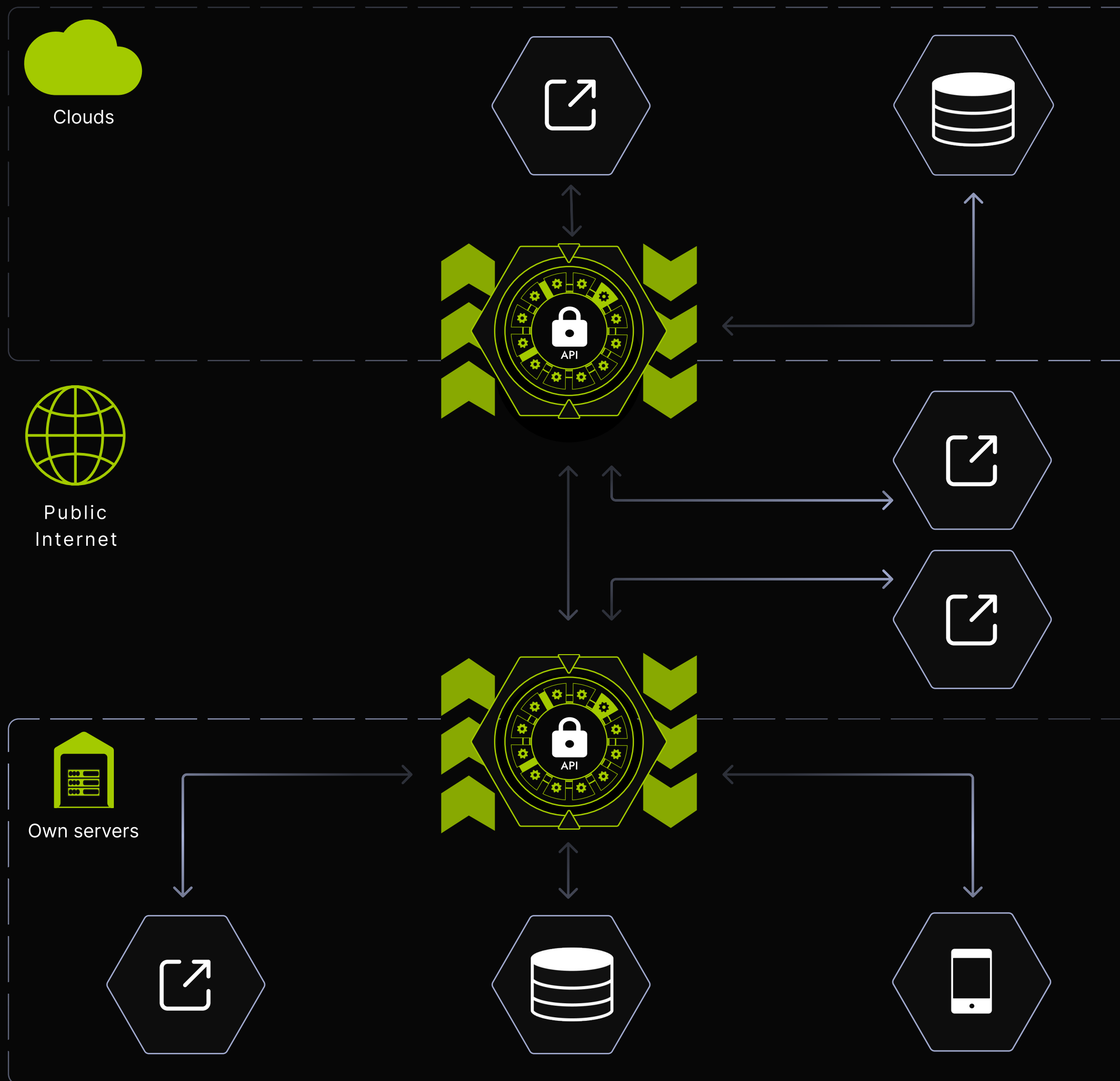
Business-technical cases:

/ Secure access from the cloud to the Internet and vice versa.

/ Providing secure access to the IT environment hosted on servers to the cloud infrastructure, as well as free Internet or partners.

Reactive API Security Gateway:

Flexible and resource-efficient access management between all incoming and outgoing data streams to ensure uninterrupted communication using various protocols and maintain reliable security.

Features and benefits:

+ Reduces integration costs
+ Deploys as a configurable black-box
+ Handles of all inbound and outbound data flows
+ Takes care of all security aspects
+ Centralize and secure all data flows

AMQP	MQTT	HTTPS	EnterpriseData	oData	HTTP	TCP/IP	UDP	TLS
SFTP	FTP	FTPS	SOAP	SSH	SSL	SMB	SNMP	Syslog	SMTP	POP3
IMAP	REST	LDAP	JMS	JDBC	OPC-UA	WebSocket	etc.

TYPICAL USE CASES: ENTERPRISE SERVICE BUS

USETECH

WebSocket

REST

SOAP

oData

HTTPS
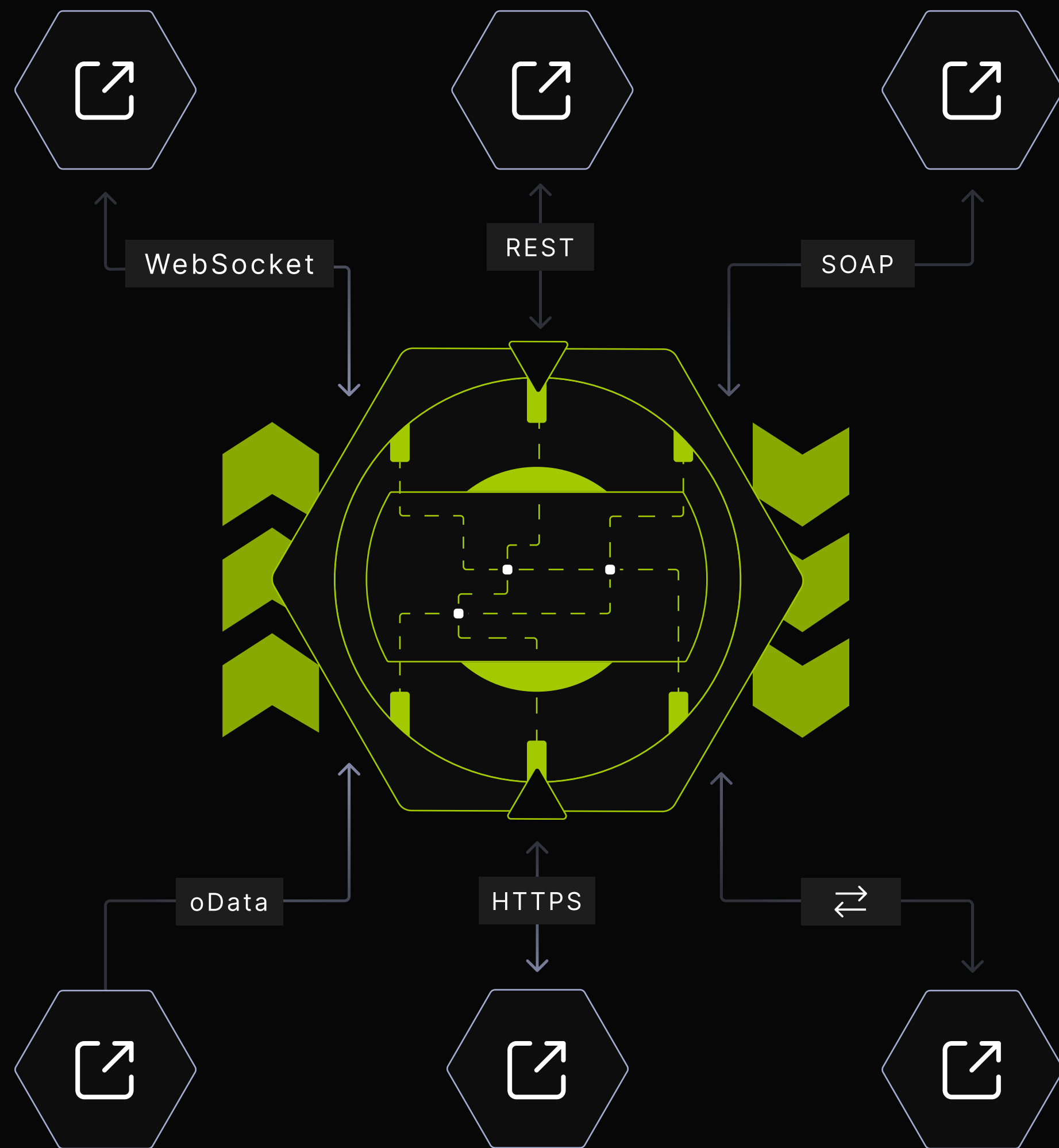
⬡ **Adapters, connectors transport data with** ⇄ **protocols**

Business-technical cases:

/ Data synchronization between aplecation

/ Optimization of interaction between applications and complex integrations

/ Improving interoperability and scalability of the IT landscape

Adapters, connectors to applications and databases:

A complete set of tools for receiving, extracting data, routing, mapping and converting messages between various enterprise applications and services.

Features and benefits:

+ Guarantees delivery and data consistency

+ Supports wide range of APIs, and data formats

+ Enables "one-to-one", "one-to-many" and "many-to-one" integration types

+ Uses AI to enhanced message routing, prioritization and ordering, data transformation, and recovery from delivery failures

Azure   Amazon   Apache   Google Cloud   Oracle   SAP   Salesforce   IBM

VMware   and many others

TYPICAL USE CASES: ENTERPRISE DATA TRANSFORM
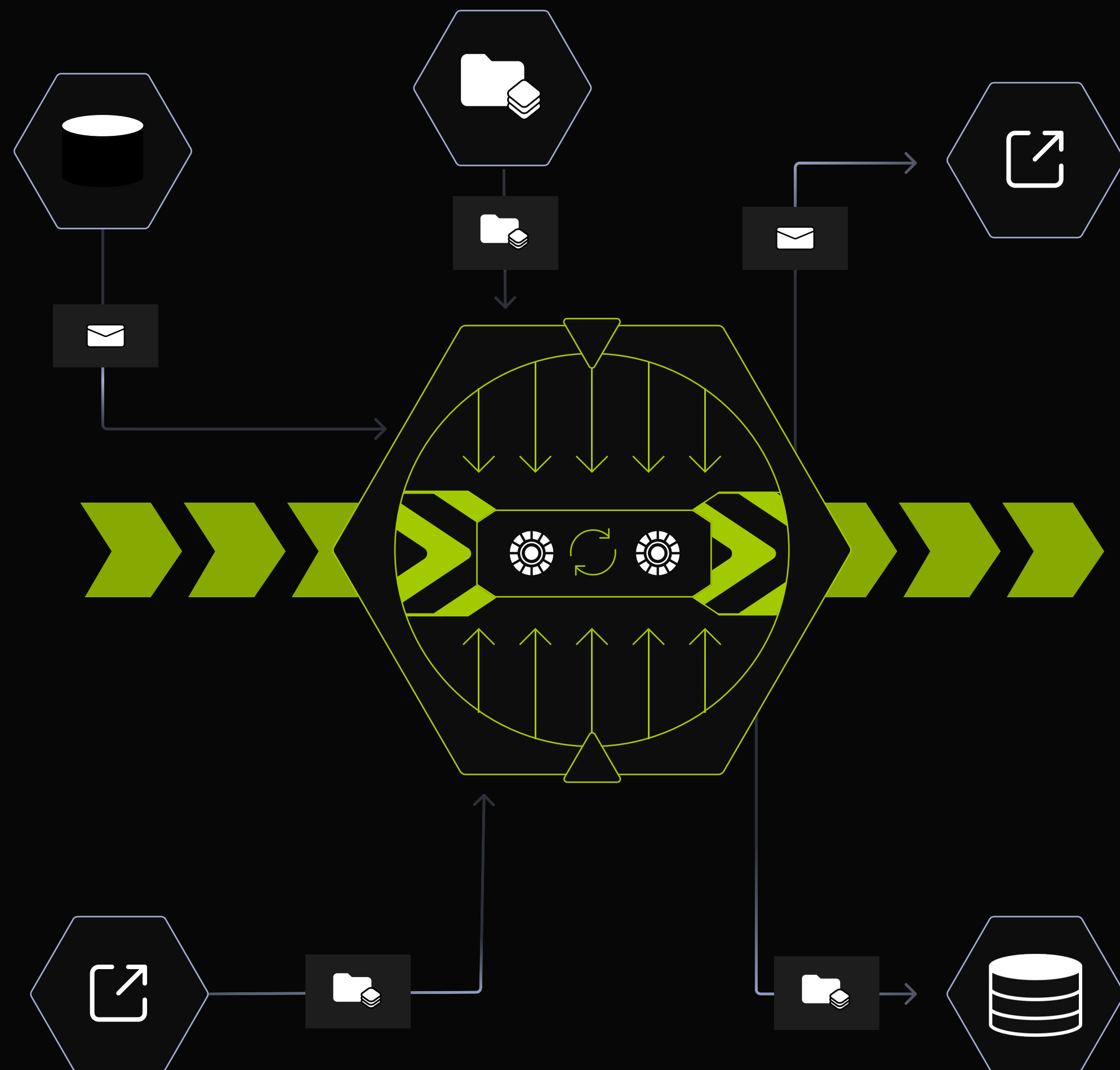
⚙ **Handlers** *transform* 🗂 **data**

Business-technical cases:

/ Bringing the data to the type and type required by the target system
/ Data preparation for data analysis using BI, ML and AI tools
/ To organize migration from outdated IT systems to new ones

The data processor:

A wide range of processors for data processing, conversion and enrichment, file type conversion, extraction, and content modification. Files can be compressed, archived, or decompressed. Both text and binary files can be processed.

Features and benefits:

+ USEBUS can process any files: both text and binary
+ Expanded range of handlers is supplemented by Usetech team for a fee as per USEBUS license and by NiFi open-source community for free.
+ Independent components supplement without any restrictions!
+ Multi-language documentation

Avro CSV HTML JSON XML XLSX PDF PPTX TXT etc.

TYPICAL USE CASES: CHANGE DATA CAPTURE

USE TECH

1st stage

2nd stage

3rd stage

4rd stage

*1st stage

*3rd stage

5fth stage
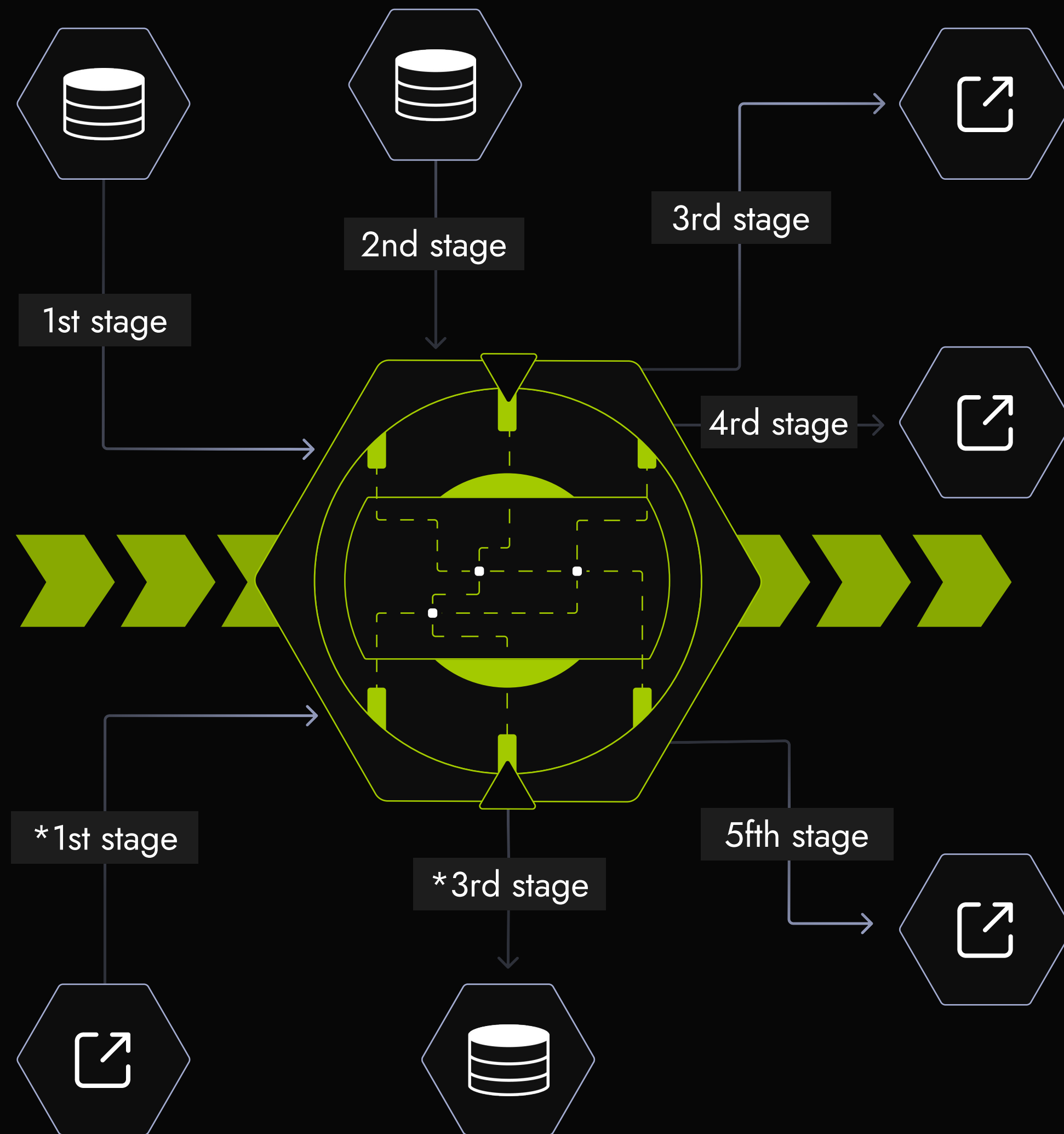
Event-Driven Architecture and Data Synchronization

Business-technical cases:

/ Automation of business processes based on new changes
  in databases about enriching a data package from other databases

/ Real-time data synchronization between multiple systems in the right order

/ Efficient data replication for disaster recovery and reporting

Proactive Change Data Capture:

High-performance, low-impact solution for capturing and propagating data
changes across various database systems, ensuring real-time data consistency
and enabling efficient data integration and analytics.

Features and benefits:

+ Integrates with all modern SQL and NoSQL databases

+ Supports most typical CDC methods: trigger-based,
  table-deltas, log-based, audit columns, query-based

+ Shows outstanding performance in case of high data churn rate

+ Buffers data in case of destination outage or back pressure

+ Minimal impact on source database performance

PostgreSQL   MySQL   Oracle   MongoDB   MariaDB   SQL Server   etc.

TYPICAL USE CASES: BUSINESS PROCESS ENGINE

USETECH

Adaptive Case Management on application integration

Business-technical cases:

/ Automation of business processes based on new changes in databases about enriching a data package from other databases

/ Real-time data synchronization between multiple systems in the right order

/ Efficient data replication for disaster recovery and reporting

Intelligent Business Process Engine:
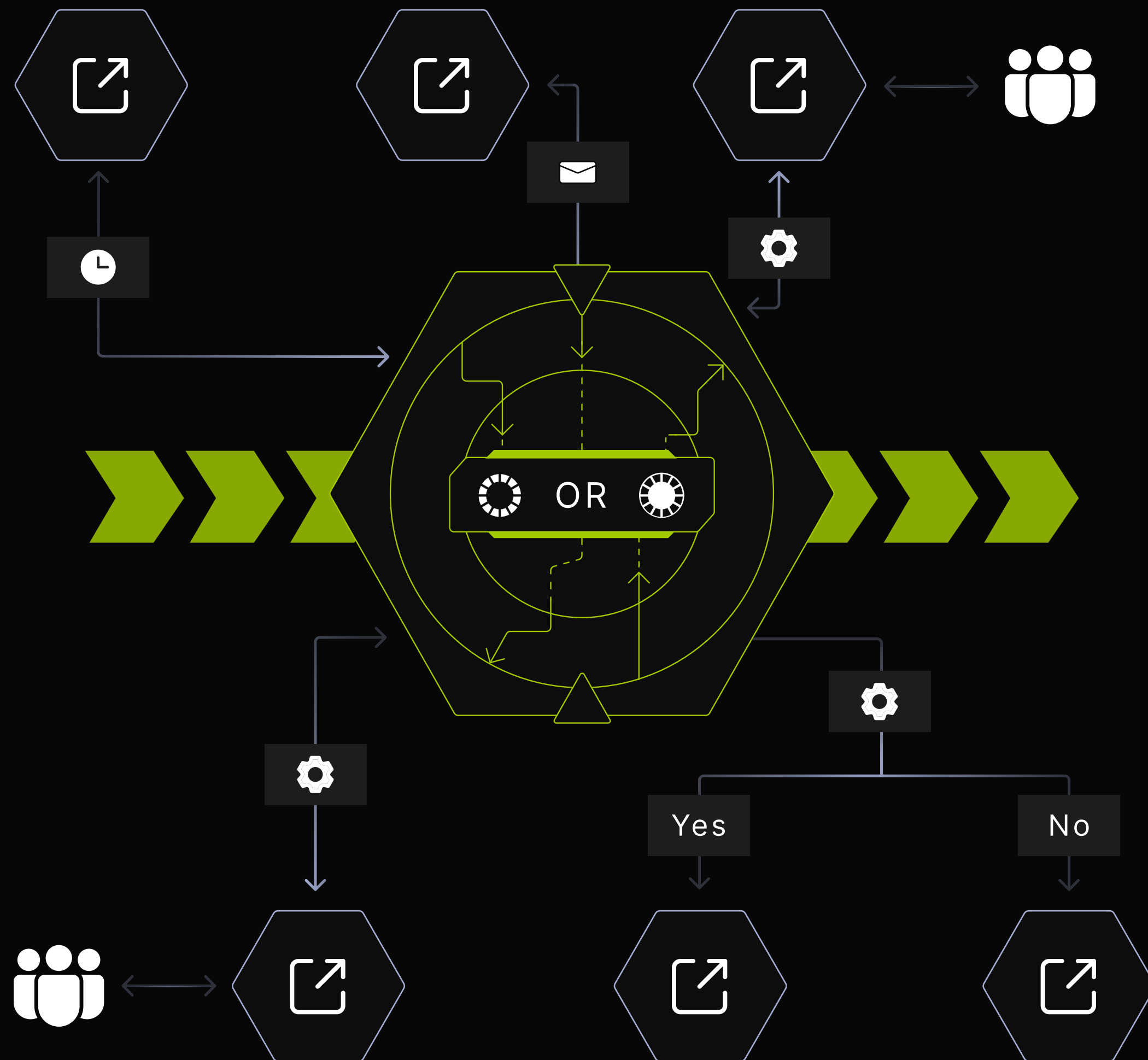
A powerful, user-friendly solution for designing and executing business processes. Allows quick creation, modification, and optimization processes.

Features and benefits:

+ Provides basic BPM capabilities with a low entry barrier and development costs, including Adaptive Case Management (ACM) to work with unpredictable work schedules.

+ Simplifies monitoring and troubleshooting, message tracking and process visualization capabilities

+ Uses AI to analyze workflows, suggest efficiency improvements and forecast potential bottlenecks based on historical data

| Azure Apps | Amazon Apps | Apache Apps | Google Apps | Oracle Apps |

| SAP Apps | Salesforce Apps | IBM Apps | VMware Apps | and many others |

OR

Yes   No

TYPICAL USE CASES: BRIDGE TO AI MODELS

USE TECH

Anthropic

Open AI

BERT
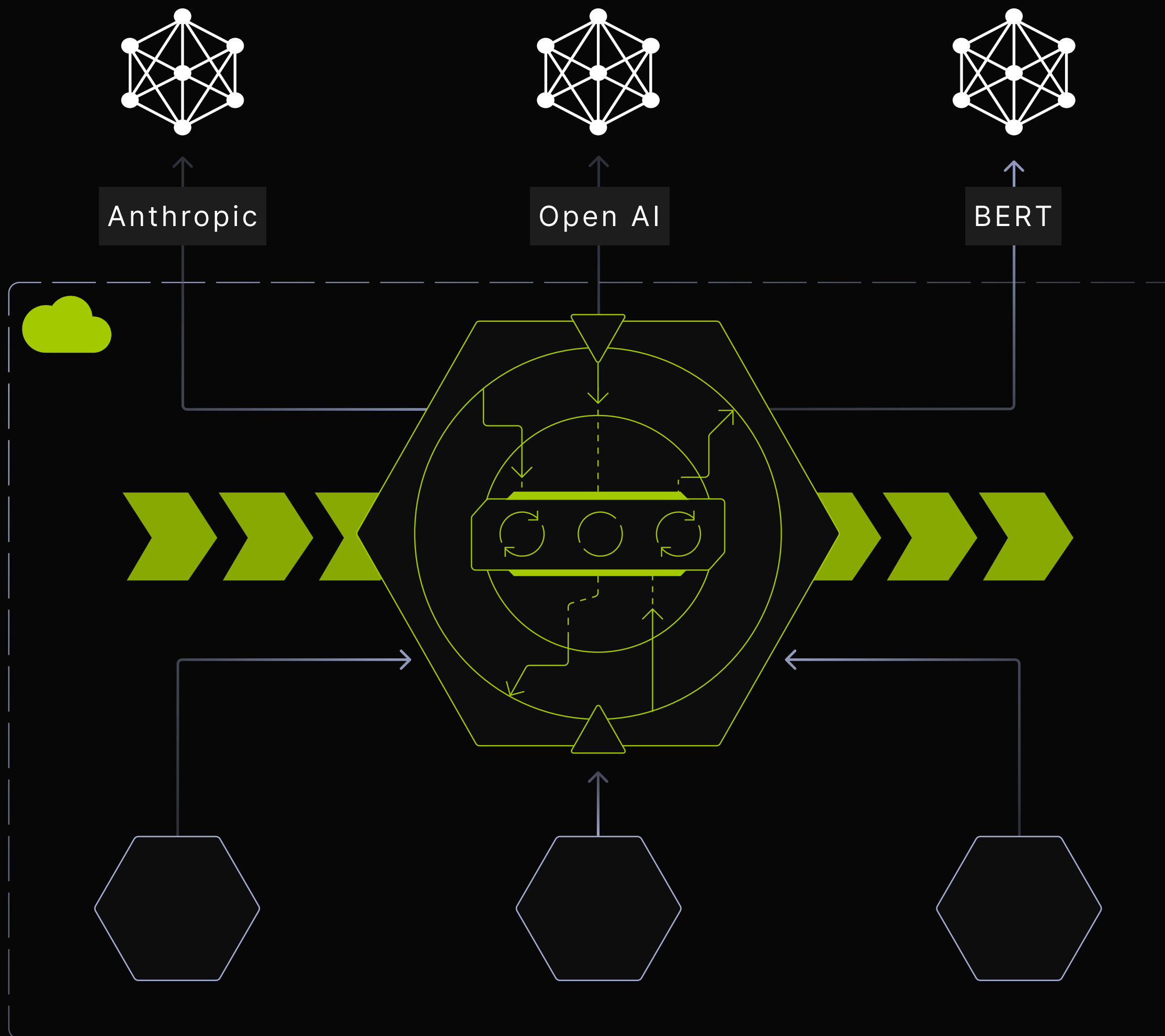
AI Integration Hybrid

Business-technical cases:

/ Seamless integration of AI models into existing business processes and applications

/ Creation of complex, AI-driven data analysis pipelines for enhanced decision-making

/ Standardization of AI interactions across multiple platforms and models

Intelligent Data Transformation

A versatile solution for accessing and leveraging various AI models through a unified interface, enabling businesses to harness the power of AI without the complexity of managing multiple APIs and integrations.

Features and benefits:

+ Enables real-time AI model integration within existing business processes

+ Helps to build complex AI aided data analysis pipeline

+ Simplifies AI model selection and integration based on specific business needs

| Azure Apps | Amazon Apps | Apache Apps | Google Apps | Oracle Apps |

| SAP Apps | Salesforce Apps | IBM Apps | VMware Apps | and many others |

USEBUS expands capabilities of developers with no unreasonable limits

USE TECH

If Low-Code options are not enough for you, then:

/ Develop new Low-Code elements in:

`Java` `Python` `Kotlin` `Scala` `Groovy` etc.

/ Add your own integration adapters and transformers in any languages andin any ways (via API, message brokers, file exchange, etc.)
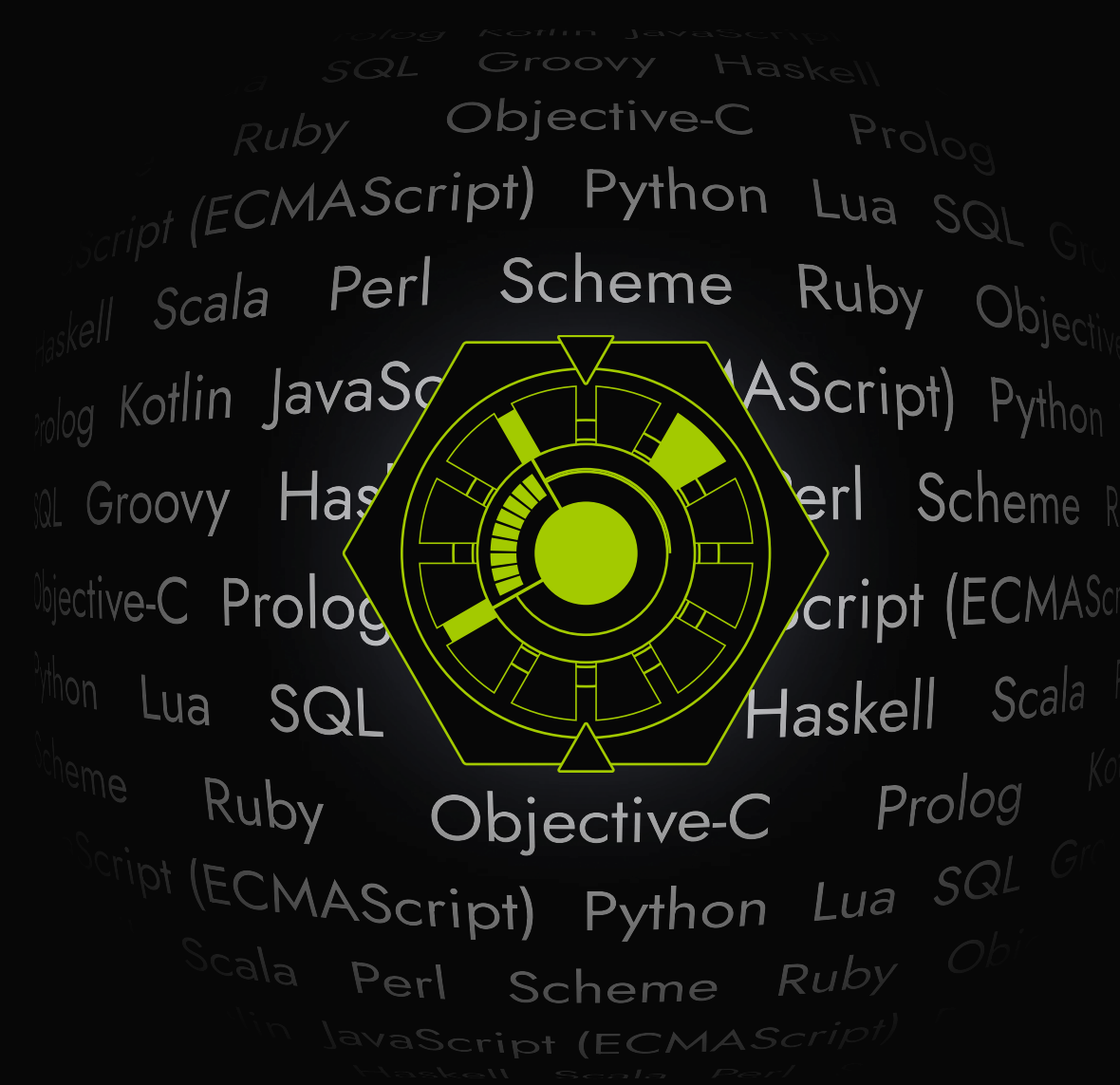
You can write your own scripts for data handling in various languages:

/ Java implementation: `Jython` `JRuby` etc.

/ Implementation via Java Native Interface:

`C++ / C#` `Rust` `Swift` `Objective-C` `F#` `Haskell` `Prolog` `Racket` `Scheme` etc.

/ ExecuteScript processor supported:

`JavaScript (ECMAScript)` `Python` `Ruby` `Lua` `Groovy` `Perl` `R` `PHP` `Shell Script` `VBScript` etc.

/ ExecuteSQL processor supported: `SQL` etc.

/ Using gRPC and other tools: `Go` etc.

/ Can be used for processors writing, but requires additional compilation into Java bytecode: `Scala` `Clojure` etc.

The product strategy is to free the user from proprietary ecosystems

USEBUS ensures on-time message delivery regardless of any issues encountered

USETECH

USEBUS monitors and helps to deal with out-of-step situations, not sensitive to failures

Your data will never be lost

In the event of infrastructure failure, message delivery continues without loss of data from the point of failure

### Reduces message delivery time after failures

The application automatically redistributes the load through clustering and transfer the processed data to another node

Flexibility in choosing how to keep your data safe

Depending on the type of integration, you can choose the best option for data backup and recovery
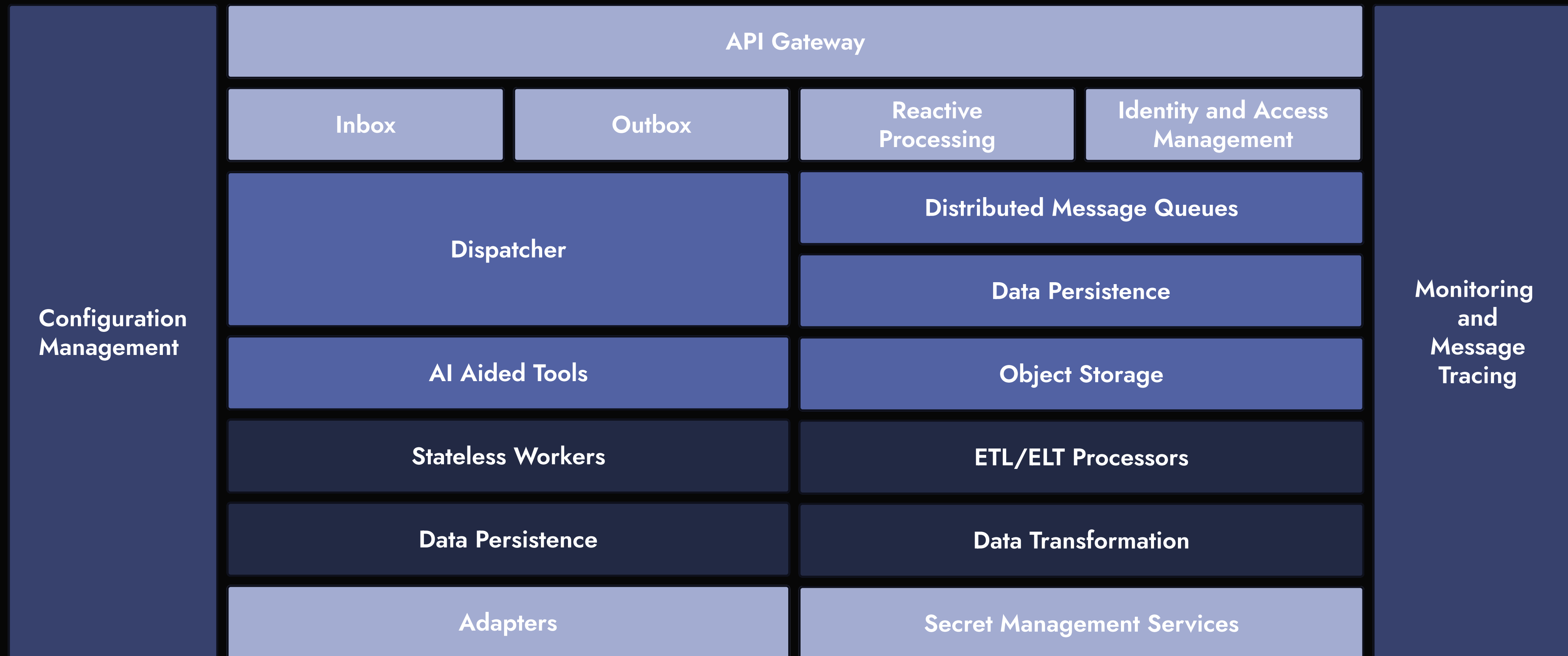
Reduces the speed of solving precedents by 5 times

With visibility into the process, you can track the status of message delivery and quickly identify issues for remediation with built-in tracking.
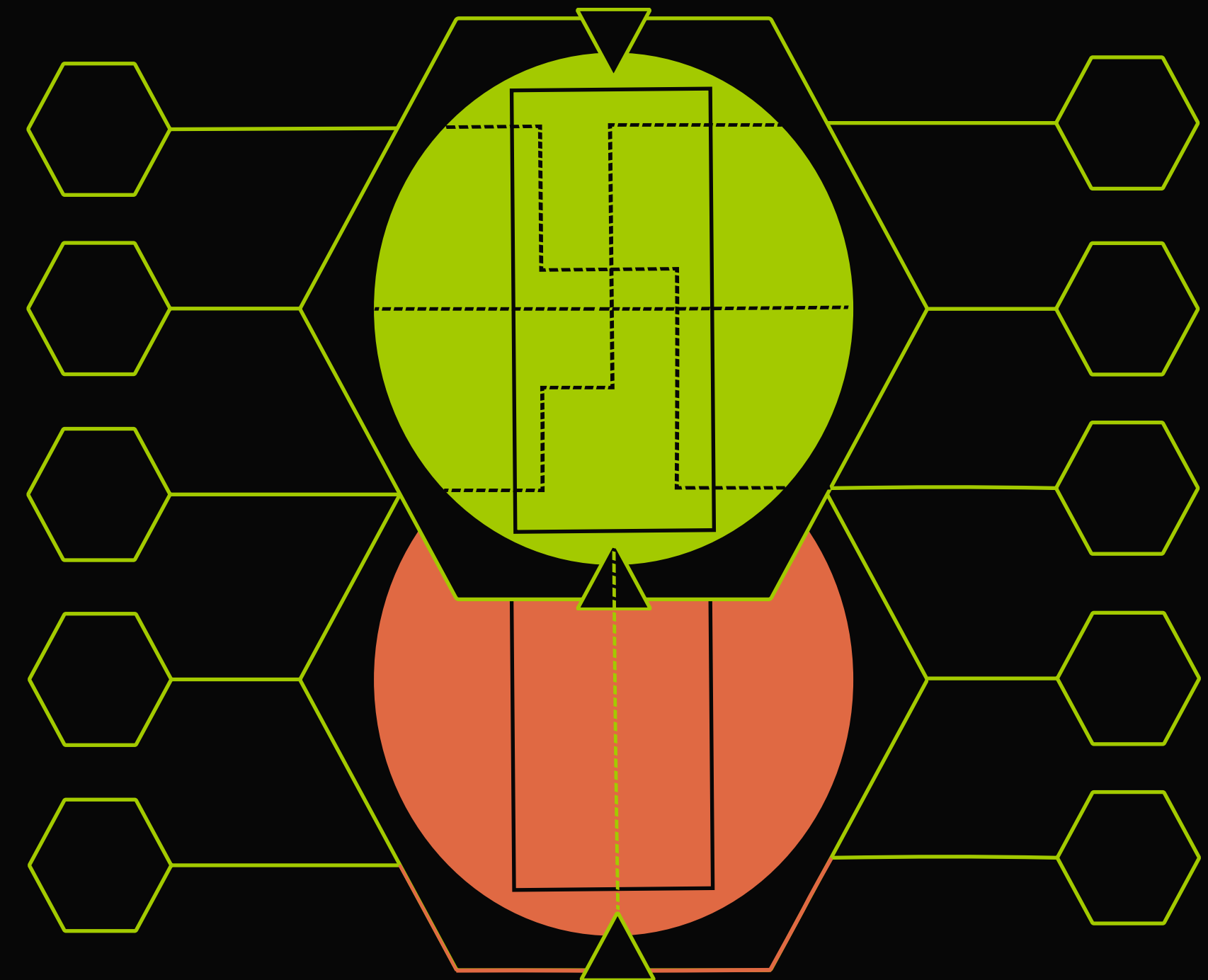
If USEBUS fails, other copies of USEBUS will continue to process the data.

We care for your data and your budget

We will offer a license and a service scope

LICENSES

from 10 to 20%
less expensive as compared to competitors

- ☑ Term: indefinitely / 1 year
- ☑ Stands and nodes: one server / cluster / georeserve
- ☑ Warranty and updates: minor / major
- ☑ Modules: adapters and software and hardware packages

VENDOR SERVICES

up to 50%
time savings

SELF-service
your employees will do everything themselves

- ☑ General training: managers, regular users and administrators
- ☑ Advanced user support: installation, update, operation and support
- ☑ Development of additional modules under GC USETECH license
- ☑ Vendor supervision of the integrator

USEBUS installation is included in the license price, updates are delivered "over the air" or transferred as a secure file on a USB drive

OpenAI

SLA (P3)
TIER II 99.741%

Georeservation
SLA (P1)
TIER III 99.982%

SLA (P1)
TIER IV 99.995%

kafka

SQL

G

SLA (P2)
TIER I 99.671%

JIRA

USE TECH
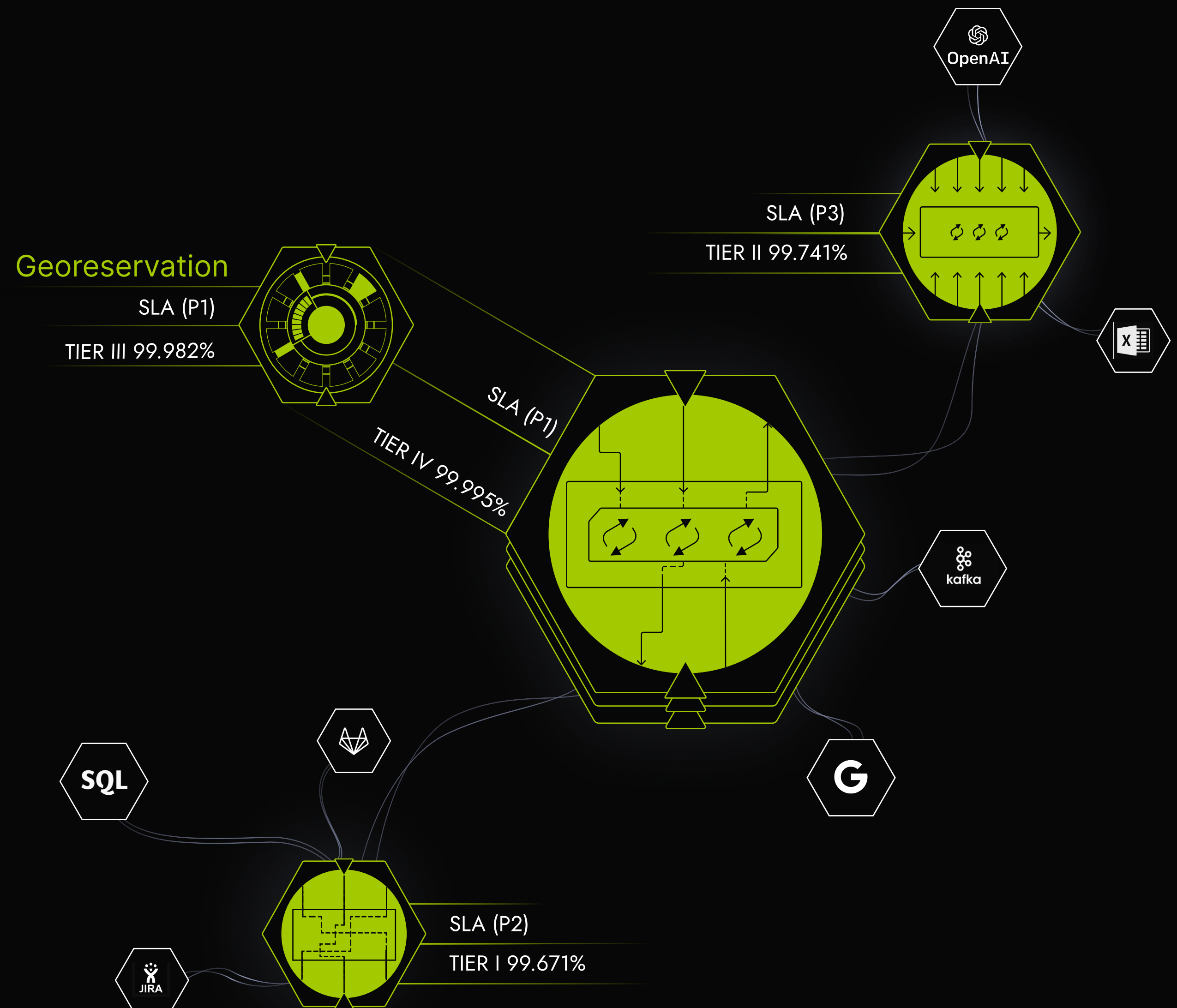
We will create integrations for you
or suggest a proven system integrator

95% savings
business-time

/ Usebus licenses and modules installation
/ Customized additional modules development
/ Established integration flows support
/ Integration data flows creation
/ IT landscape maintenance and development

Primary analytics of integration interactions —
free of charge!

Local
network

Internet

PC

Phone
number

Rest

Rest

Soap

Rest

Retail

Warehouse

Rest

In-memory

Rest

On-disk

Rest

illot

Rest

Rest

Soap

Rest

Rest

Rest

Website

CRM

Billing

Accounting

Analytics

Device
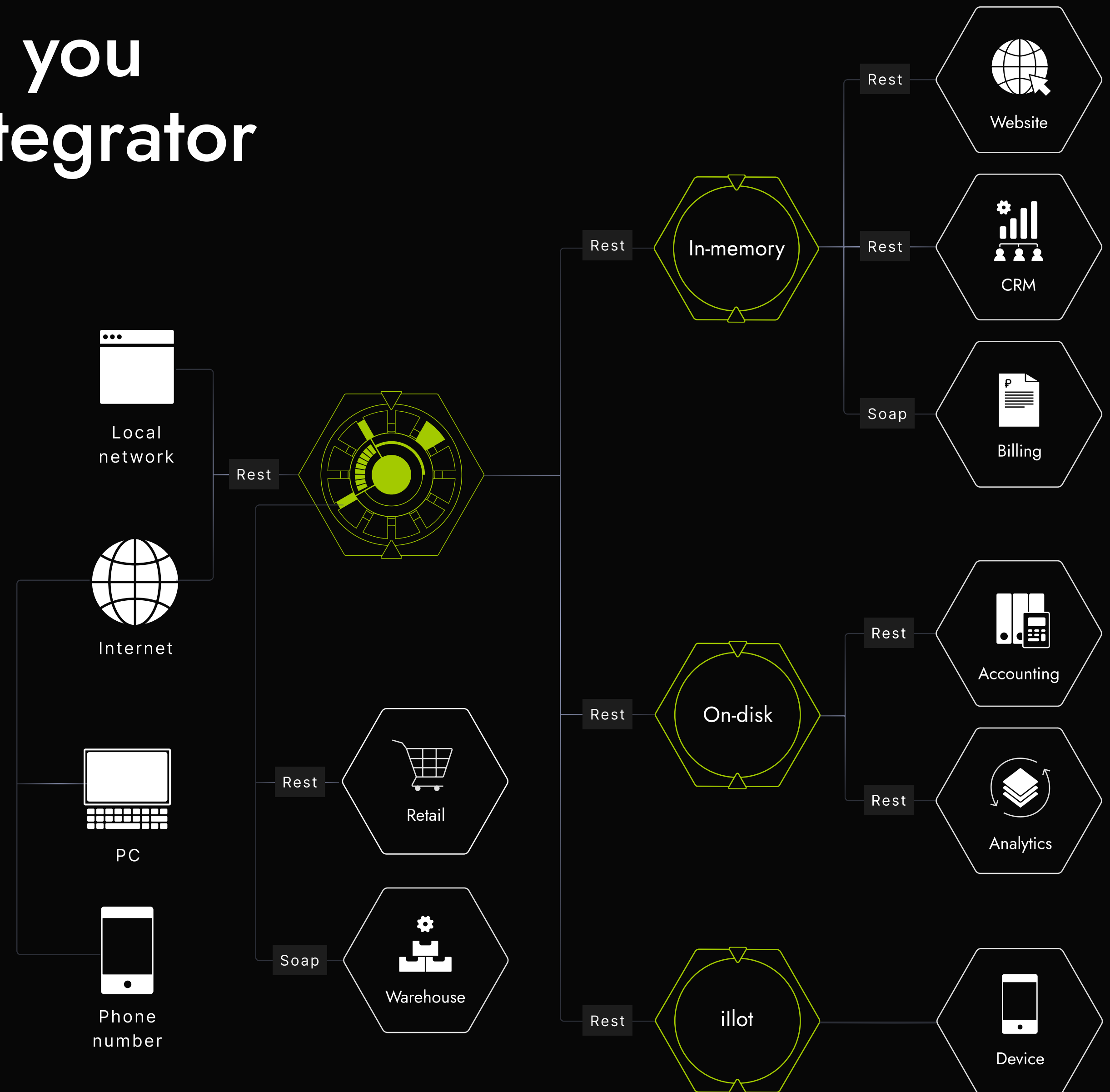
USE TECH

Road map of implementation USEBUS

USE TECH

1/ Questionnaire

| 1-2 weeks | 1-20 hours |

Gathering information about basic needs and requirements of the IT landscape to focus the platform capabilities demonstration.

2/ Demonstration

| 1-2 days | 2-8 hours |

Presentation of USEBUS and overview of platform capabilities on a demo stand.

3/ Free Business Analytics

| 2-4 weeks | 4-60 hours |

Signing an NDA. Preliminary analysis of the client's business processes to identify potential areas for improvement using USEBUS.

6/ System Analytics

| 4-10 weeks | 60-240 hours |

Detailed analysis and preparation of integration specifications.

5/ Commercial Proposal

| 1-2 weeks | 1-20 hours |

Creating an individual SLA. Legal formalization of cooperation between the parties.

4/ Free Business Analytics

| 1-2 weeks | 1-20 hours |

Preparation of an individual offer based on the identified client needs and results of the free analytics.

7/ Installation

| 1-2 weeks | 1-20 hours |

Your servers are not enough and/or you need more protection of individual nodes with constant Internet access

8/ Data Flow Construction

| 4-6 weeks | 100-150 hours |

Creation, configuration, and testing of integration flows. Putting into operation.

9/ Operation and Maintenance

| Ongoing | 0-160 hours per month |

Technical support, solution updates, optimization, and building new integrations.

Success

Your ideal Agile IT landscape

| Duration Usetech works |
| Your time investment |

14 - 24 weeks
Total estimated duration
(excluding ongoing maintenance)

299 - 423 hours
Total estimated time investment
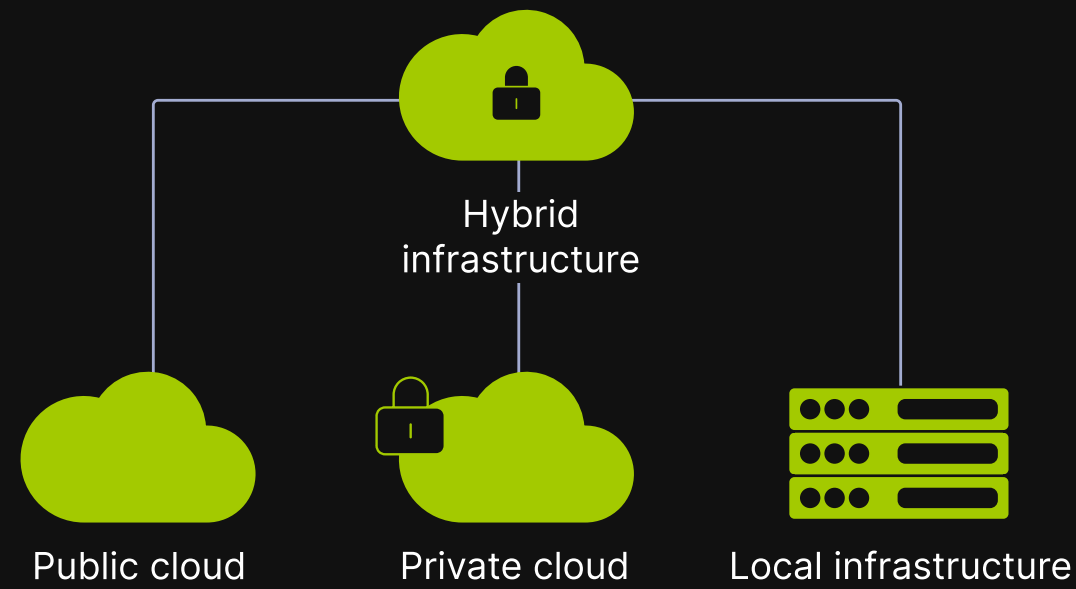(excluding ongoing maintenance)

What infrastructure do YOU need?

USE TECH

Local infrastructure

Hybrid infrastructure

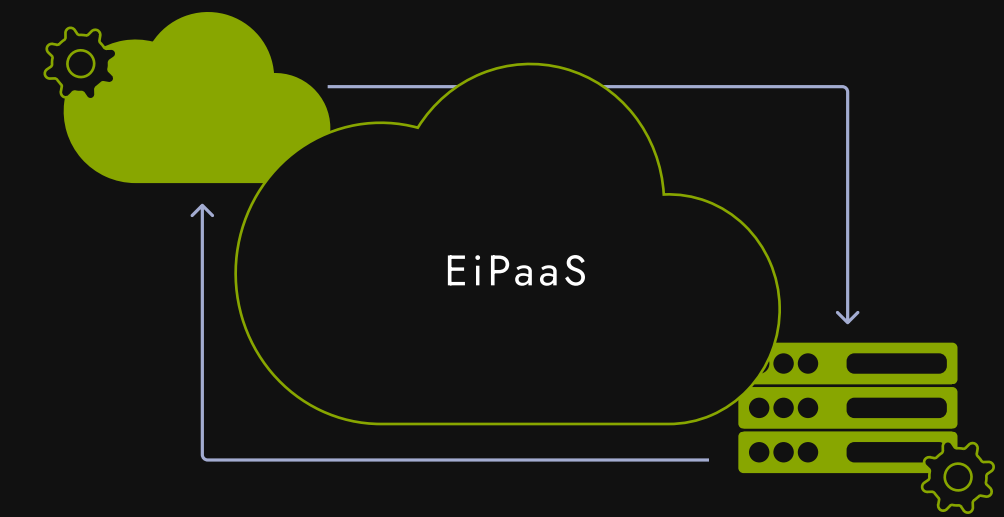Public cloud   Private cloud   Local infrastructure

EiPaaS

Your servers

You have your own servers
with the strictest internet access policies
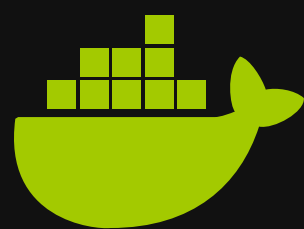
Hybrid clouds

Your servers are not enough and/or you need
more protection of individual nodes
with constant Internet access

Integration is a cloud service

You want to minimize capital expenditures and know
nothing about server administration, but start using it
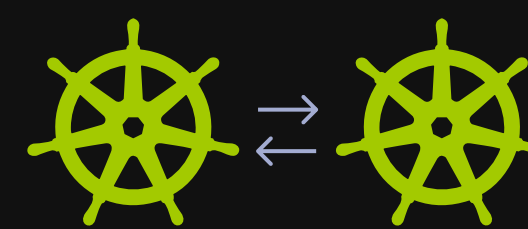in a short time

Usebus across your infrastructure

On-premise,
one node

On-premise,
per cluster

On-premise,
georeserved cluster

Clouds