Camunda 8 - Overview

Process Orchestration and Automation
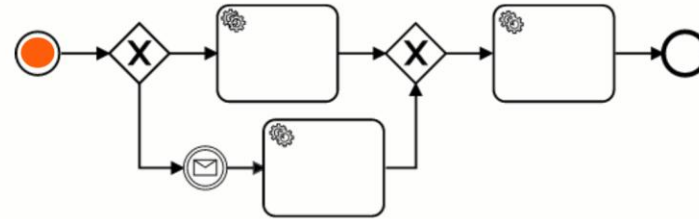
What is Process Orchestration and Automation?

Process orchestration and automation refer to the systematic approach of streamlining and optimizing business processes through technology.

Process Orchestration

Process Orchestration ensures the seamless coordination of tasks within an end-to-end process.

It maintains continuous awareness of the status of each instance and the subsequent actions required.

This encompasses both automated and manual tasks.

Task Automation

Task automation is the process of using software tools or systems to perform repetitive tasks without human intervention, increasing efficiency and consistency.

This typically involves software or robots, such as RPA(Robotic Process Automation), IDP (Intelligent document processing), integration with legacy systems, automated decision-making, and AI to carry out predefined actions within a process.

Automation helps reduce manual effort, minimize errors, increase efficiency, and speed up the overall process.

Process Automation

Process automation is a mix of process orchestration and task automation to automate a process where the degree of automation can vary.

Think Of It Like This

Task automation refers to the use of technology to execute specific tasks automatically, eliminating the need for human intervention.

Process orchestration involves coordinating various tasks within a process, **encompassing both** automated and manual activities.

Process automation combines elements of both process orchestration and task automation to streamline an entire process, with varying degrees of automation possible.
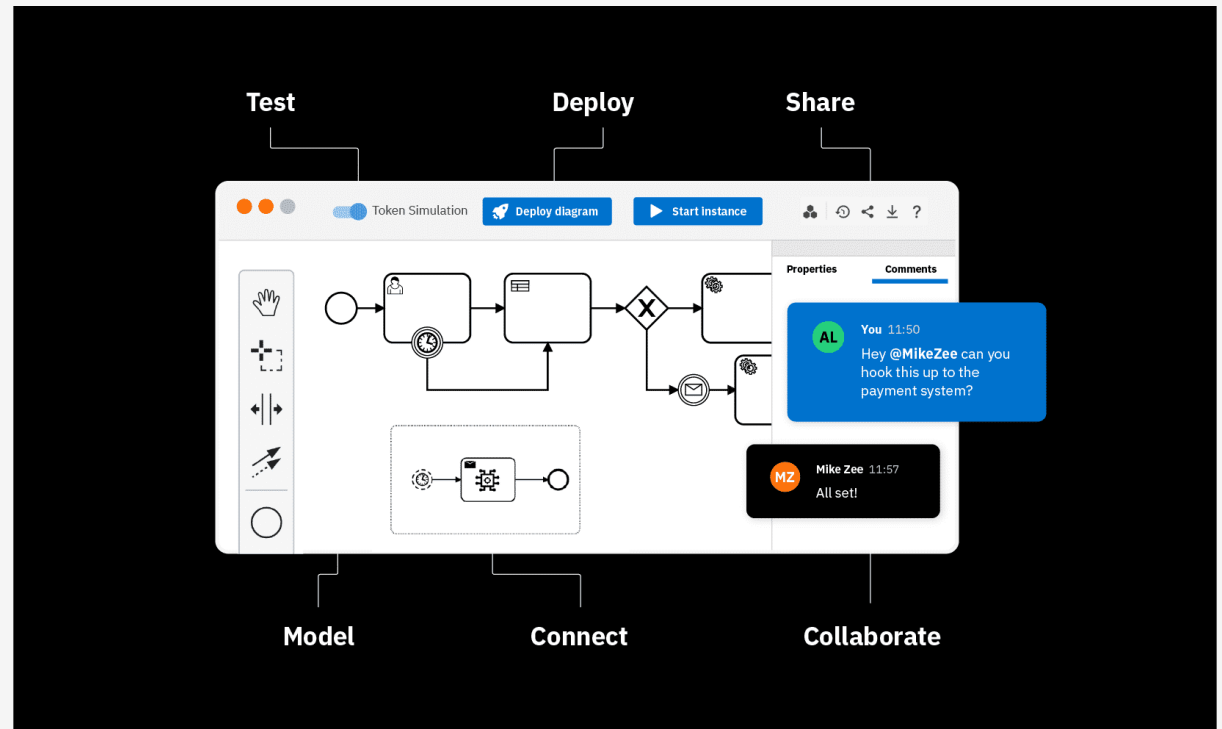
So, What is Camunda?

Camunda is a process orchestration and automation platform that supports the entire lifecycle of business processes.
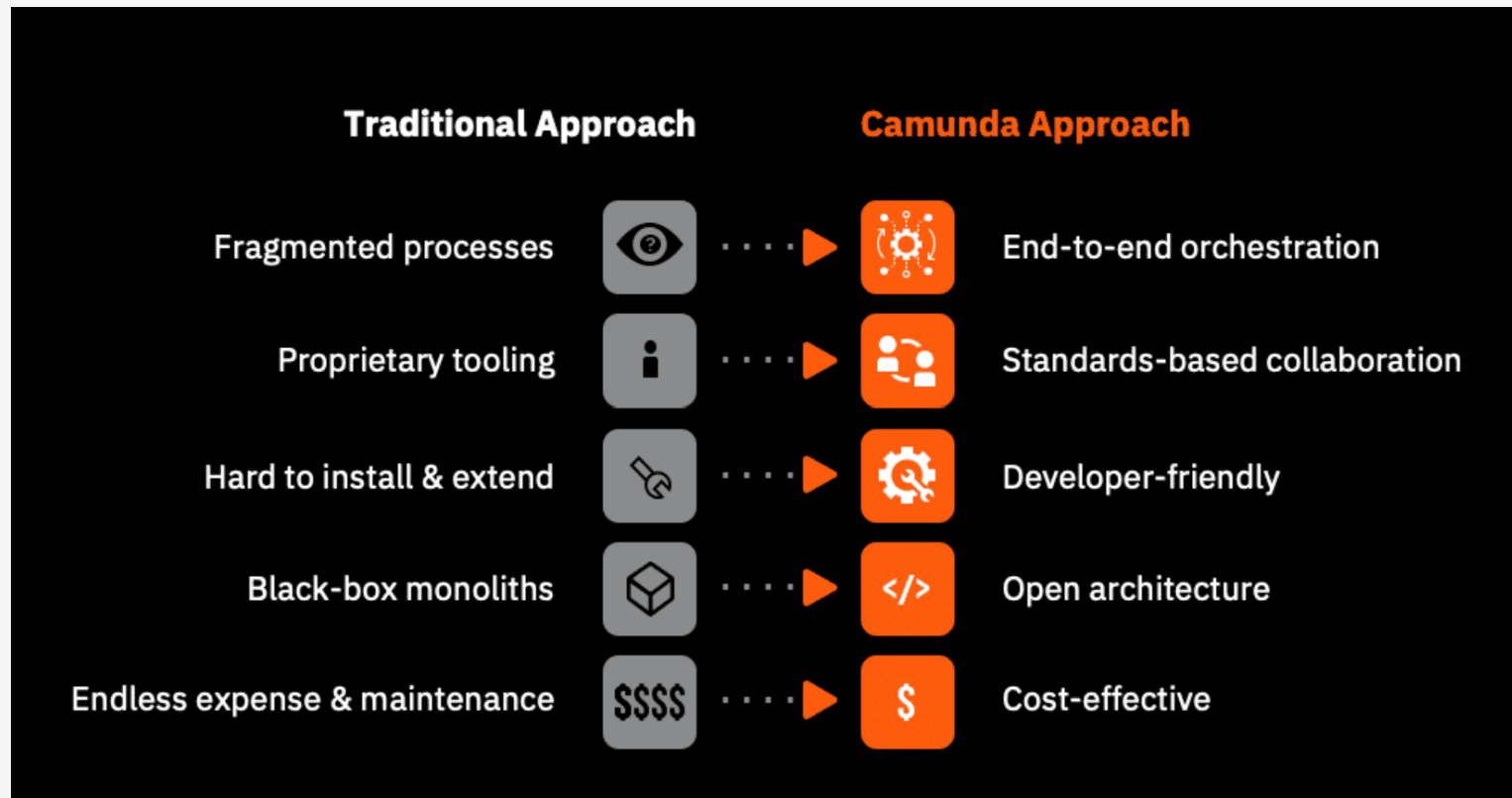
It's an **open-source** workflow and decision automation platform that enables developers to design, automate, and streamline processes and business rule management.

It provides tools for modeling, executing, and monitoring business processes and decisions across on-premise and cloud environments, often used for orchestrating microservices, improving business operations, and connecting disparate systems within an organization

So, What is Camunda?

Hosting Options

Camunda | SaaS

Technical Setup

Camunda 8's SaaS offering eliminates the need for teams to handle technical setup and ongoing infrastructure maintenance.

This allows teams to focus on developing and optimizing business processes without worrying about the underlying technical complexities.

The managed service ensures that all necessary updates, patches, and configurations are handled by Camunda, providing a seamless and hassle-free experience.

This significantly reduces the time and effort required to get started with process automation.

High Resilience

Camunda 8's SaaS offering is optimized for high resilience and low latency, ensuring fast and reliable process execution under high load conditions.

With built-in redundancy and failover mechanisms, the platform guarantees minimal downtime and quick recovery, crucial for maintaining business continuity and consistent performance.

ISO 27001

Security is a top priority for Camunda, which has been ISO 27001 certified since 2021.

This certification demonstrates Camunda's commitment to the highest standards of information security management, ensuring your data is protected against unauthorized access, breaches, and other threats.

This provides confidence that your sensitive information is in safe hands.

Flexible Packages

Camunda offers flexible SaaS packages that accommodate any volume of process instances, automated decisions, and users.

This scalability allows you to tailor the service to your specific requirements, ensuring optimal performance and cost-efficiency.

Whether you are a small business or a large enterprise, Camunda's packages can be customized to fit your unique situation, making it easier to scale your operations as your business grows.

Development Clusters

Camunda offers development clusters for teams to develop applications, run integration tests, build functional test environments, and perform load testing in a safe and controlled environment.

By using these clusters, teams can ensure that all processes and integrations are thoroughly tested before deployment to production, helping to identify and resolve issues early and ensuring a smooth transition to live operations.

Hosting Options

Camunda | Self Managed

Camunda | Self Managed

Camunda's self-managed option is ideal for organizations that prefer to host on their own infrastructure, either on-premises within their data center or in the cloud.

With this option, organizations are responsible for setup, performance, security, redundancy, and maintenance.

A working knowledge of Docker and Kubernetes is also necessary.
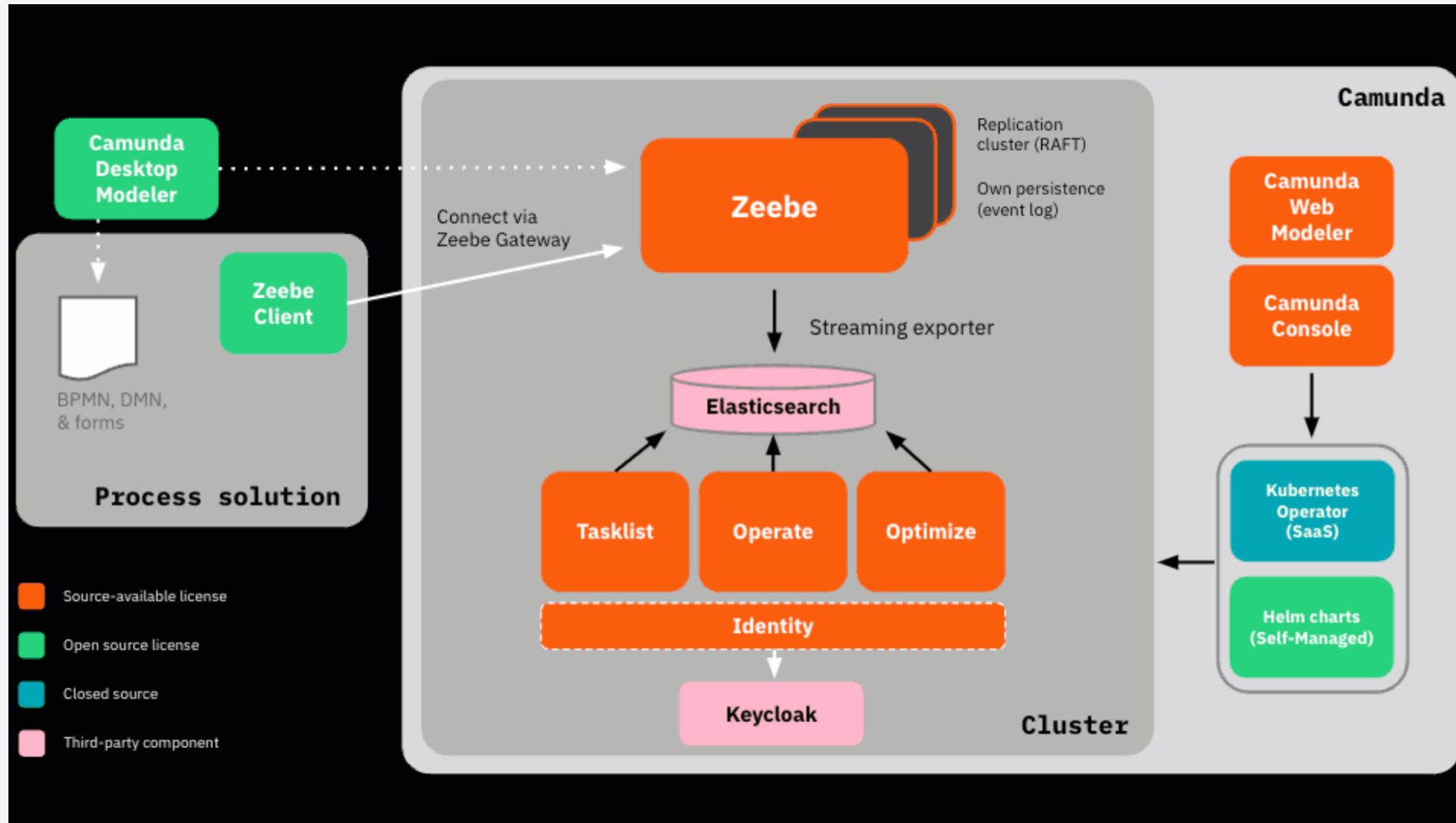
Platform Components and Licenses

The components that make up the Camunda Platform and the type of license required to use them include various elements.

Components highlighted in **orange** have a source-available license, whereas those in **green** are open-source, and components in **teal** are closed-source.

Additionally, Camunda utilize some third-party components, including Elasticsearch and Keycloak that are highlighted in **pink**.

Platform Components and Licenses

Lesson Takeaways

Process orchestration and automation are significant in enhancing business processes through technology.
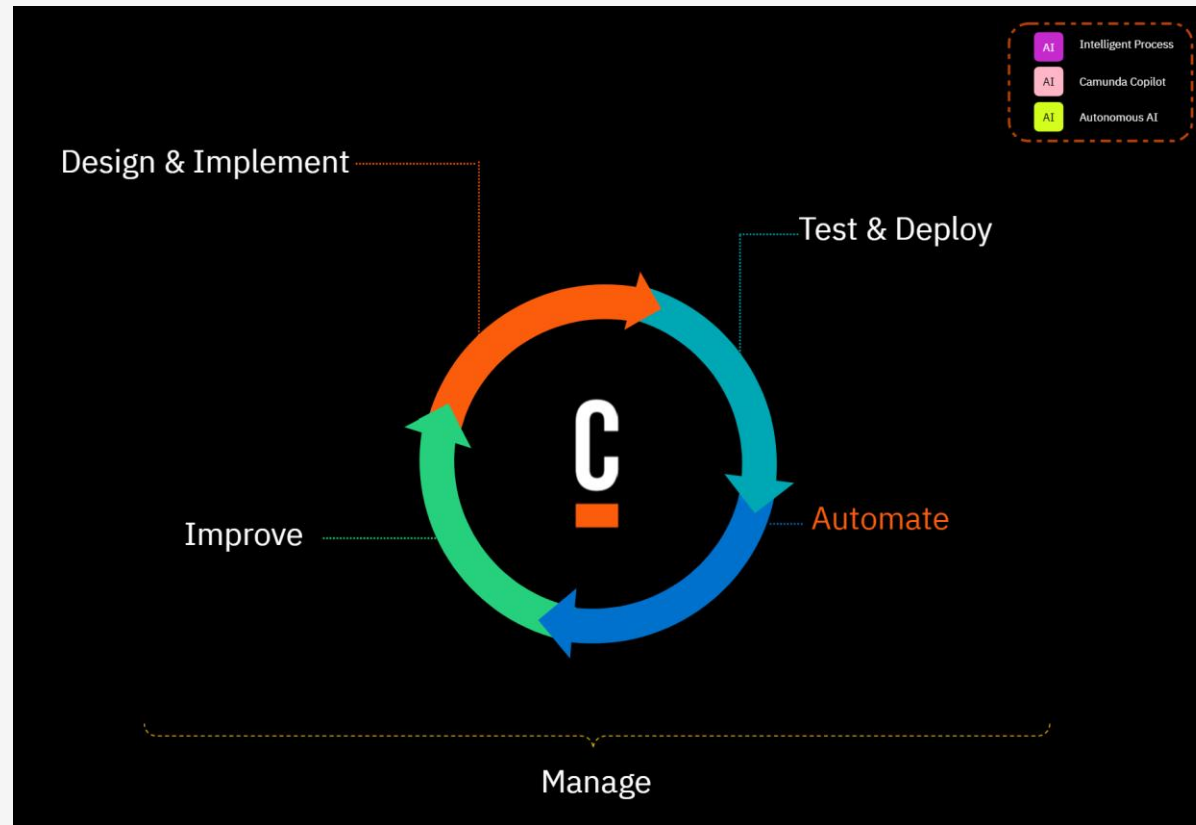
Here are some key takeaways:

1. **The distinction**. Process orchestration is the coordination of the different tasks in a process. (automated and manual) Task automation is the use of technology to perform certain tasks without human intervention. and process automation is a mix of both process orchestration and task automation.

2. **Leveraging Camunda's capabilities**. The platform supports the entire lifecycle of business processes, enhancing efficiency and connectivity.

3. **Prioritizing security and resilience**. Camunda's ISO 27001 certification and high resilience features ensure data protection and reliable performance.

4. **Utilizing flexible packages**. Camunda offers scalable solutions tailored to various business needs, accommodating growth and operational demands.
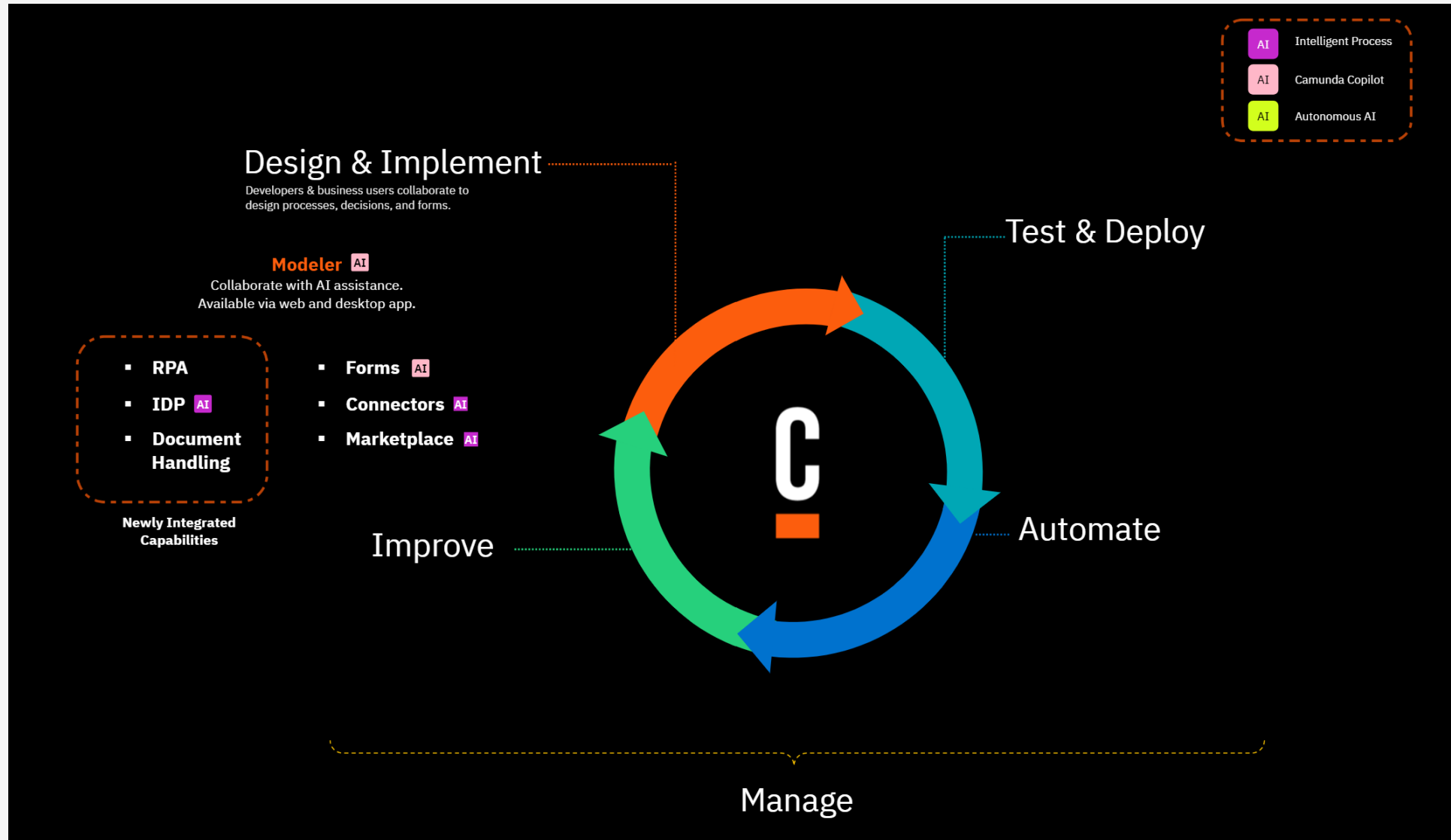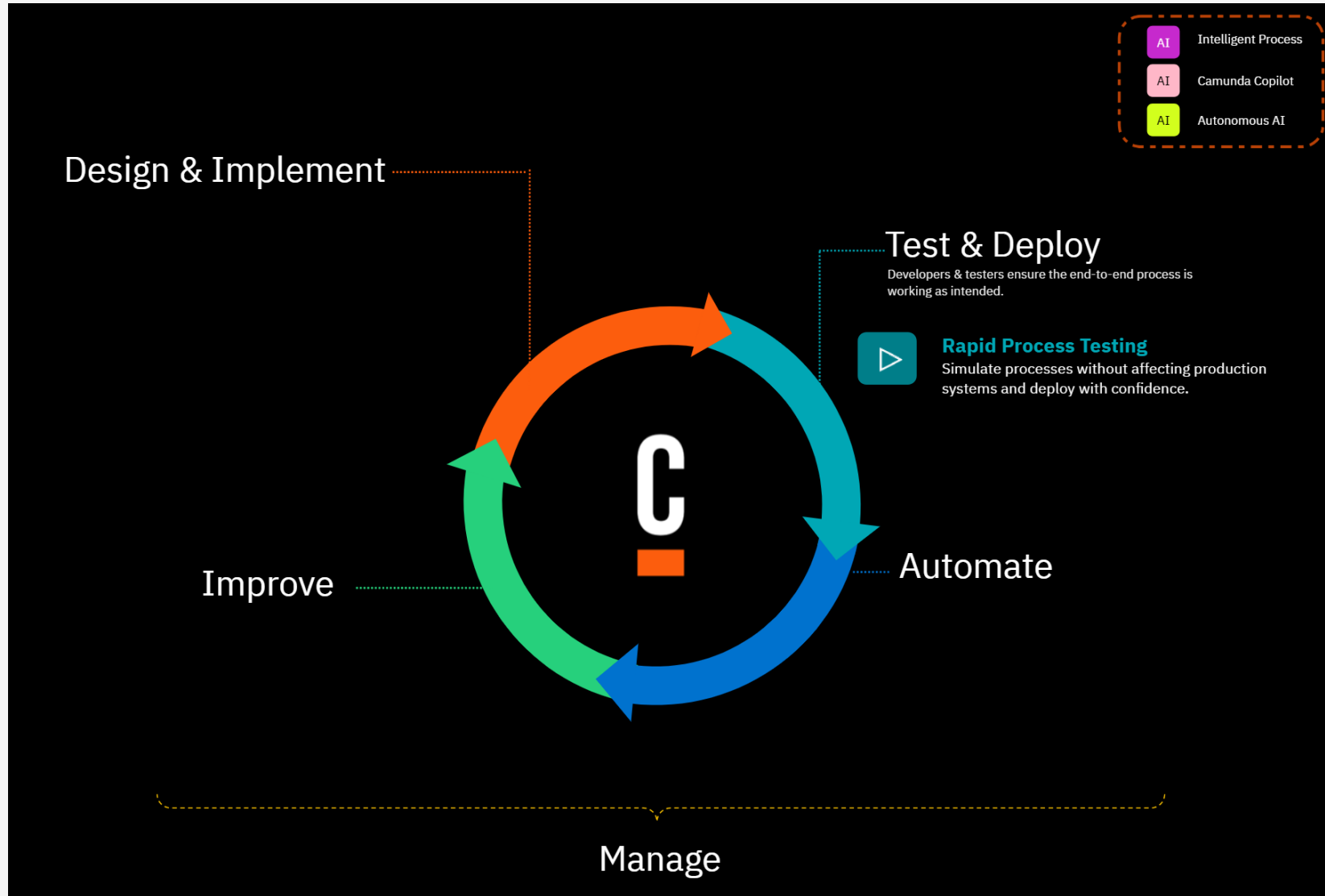
Product Details

Product Details

Camunda supports the **entire lifecycle** of process improvement through a **suite of tools** that align with the various **stages of process management.**
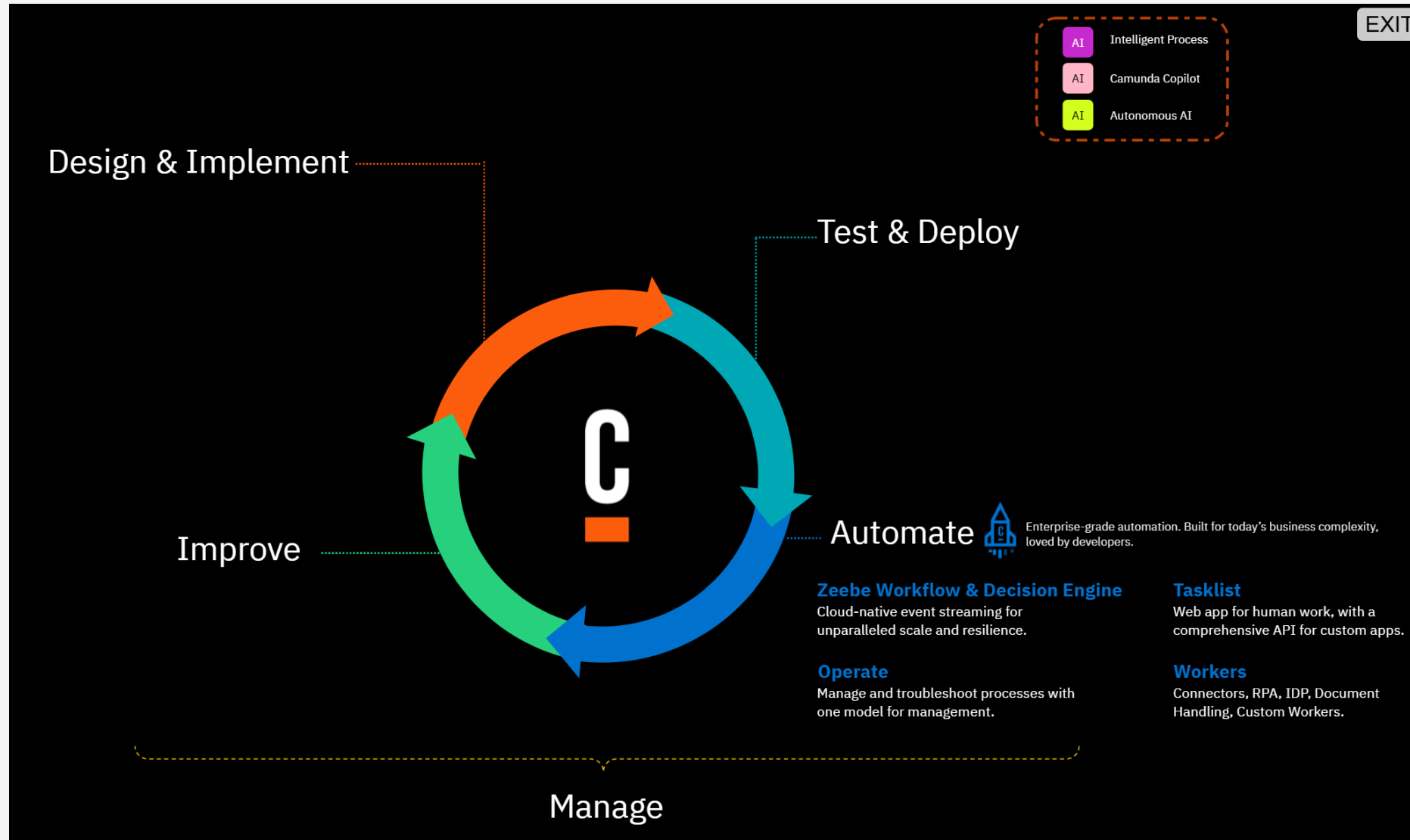
Product Details

Design & Implement
Developers & business users collaborate to design processes, decisions, and forms.

Modeler AI
Collaborate with AI assistance.
Available via web and desktop app.

- RPA
- IDP AI
- Document Handling

- Forms AI
- Connectors AI
- Marketplace AI

Newly Integrated Capabilities

Test & Deploy

Automate

Improve

Manage

AI Intelligent Process
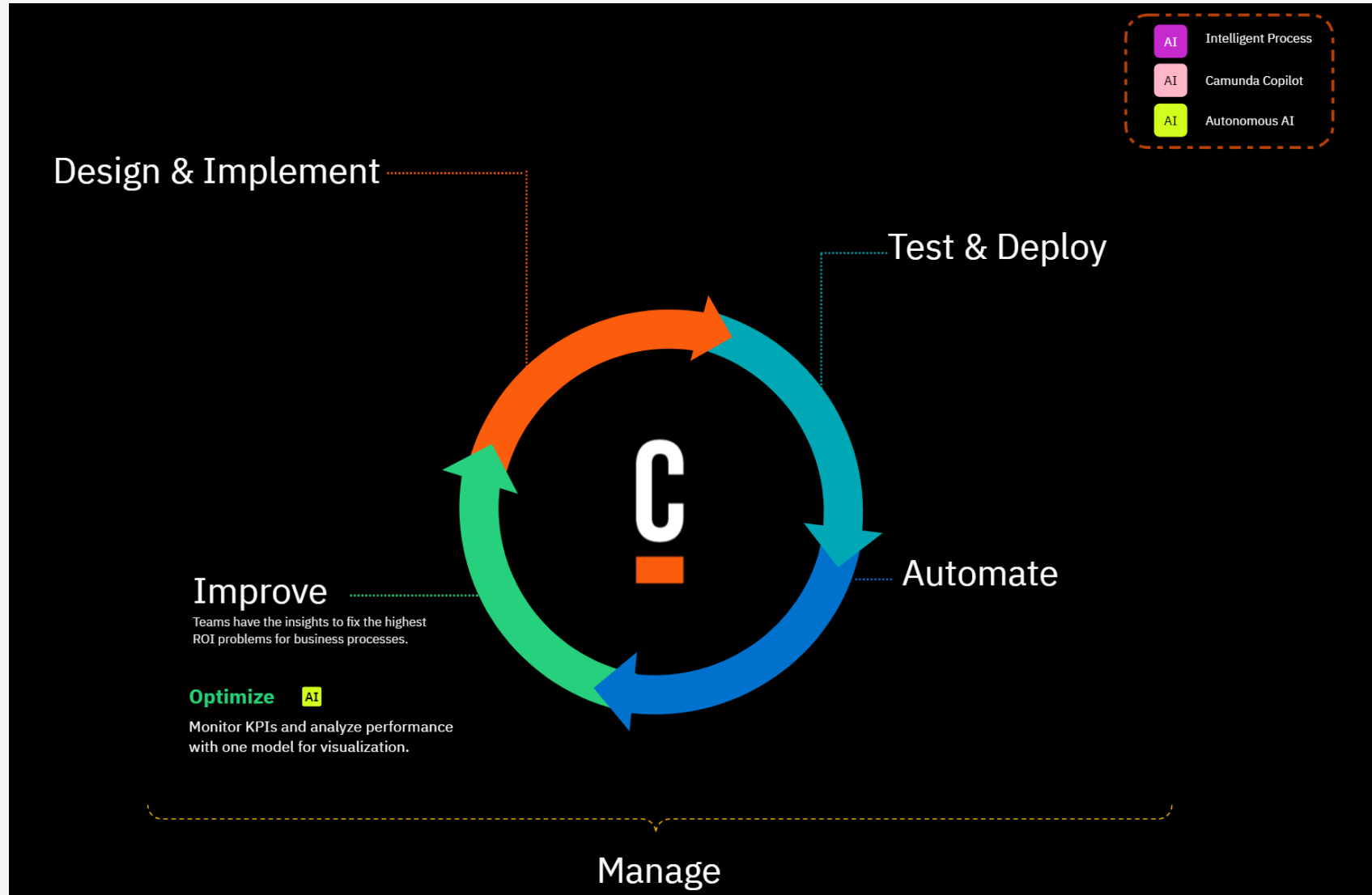AI Camunda Copilot
AI Autonomous AI

Product Details

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Design & Implement

Test & Deploy

Improve

Automate

Manage

Console
Create and manage clusters,
and monitor their health.

Identity
Authentication and authorization for APIs,
applications, roles, and permissions.