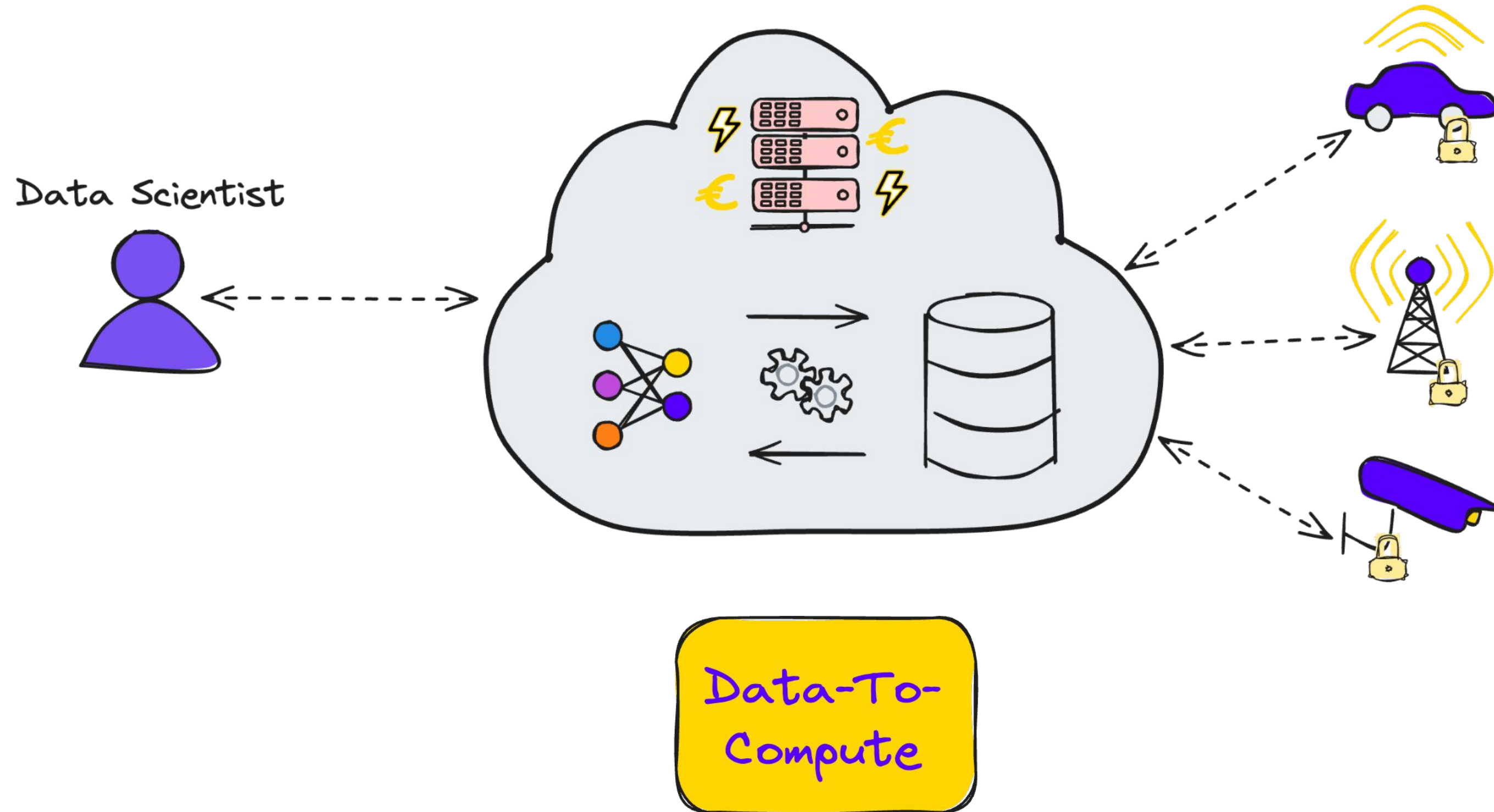


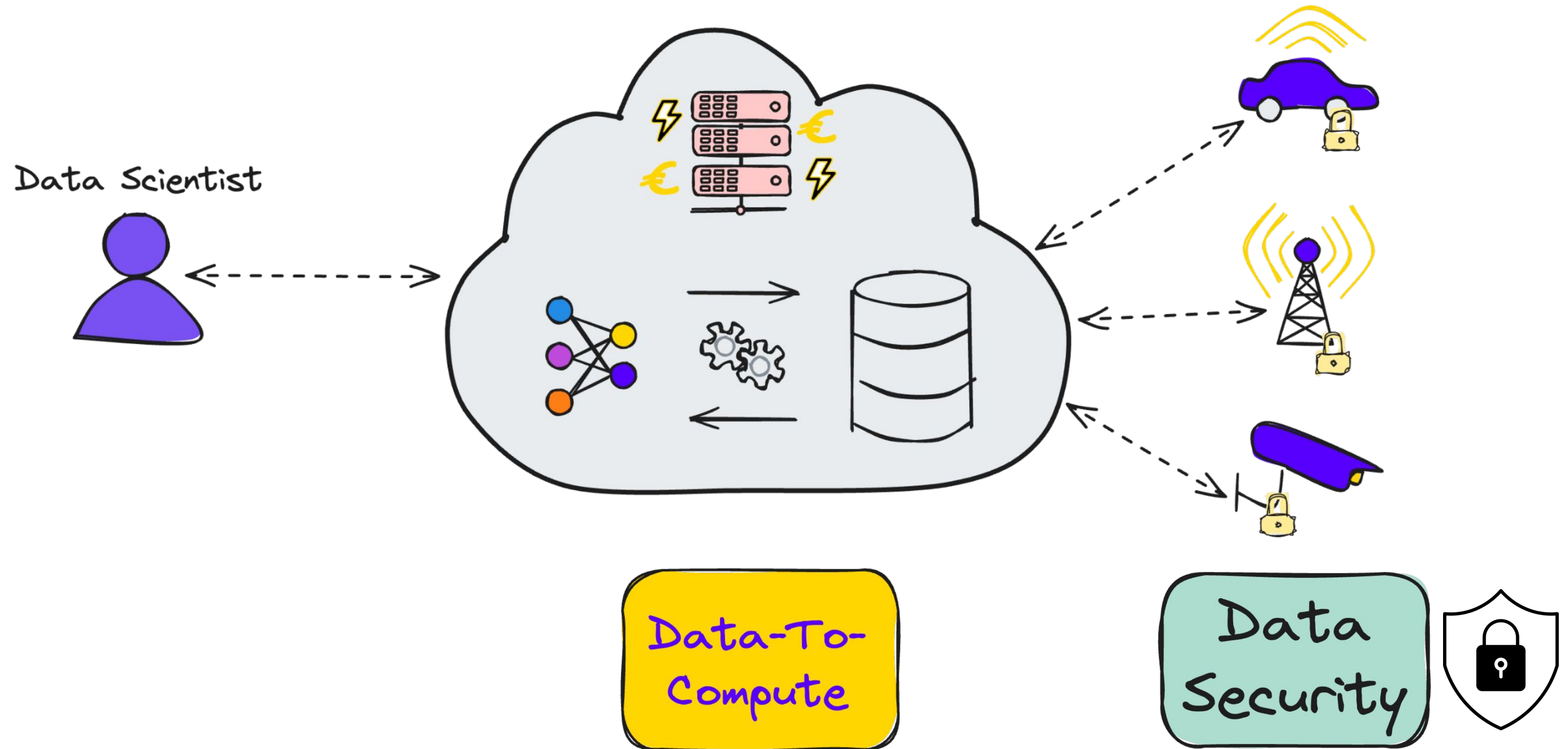


Bring AI Computation to  
Decentralized Data

# THE DATA SCIENCE LANDSCAPE: CLOUD-DRIVEN VALUE



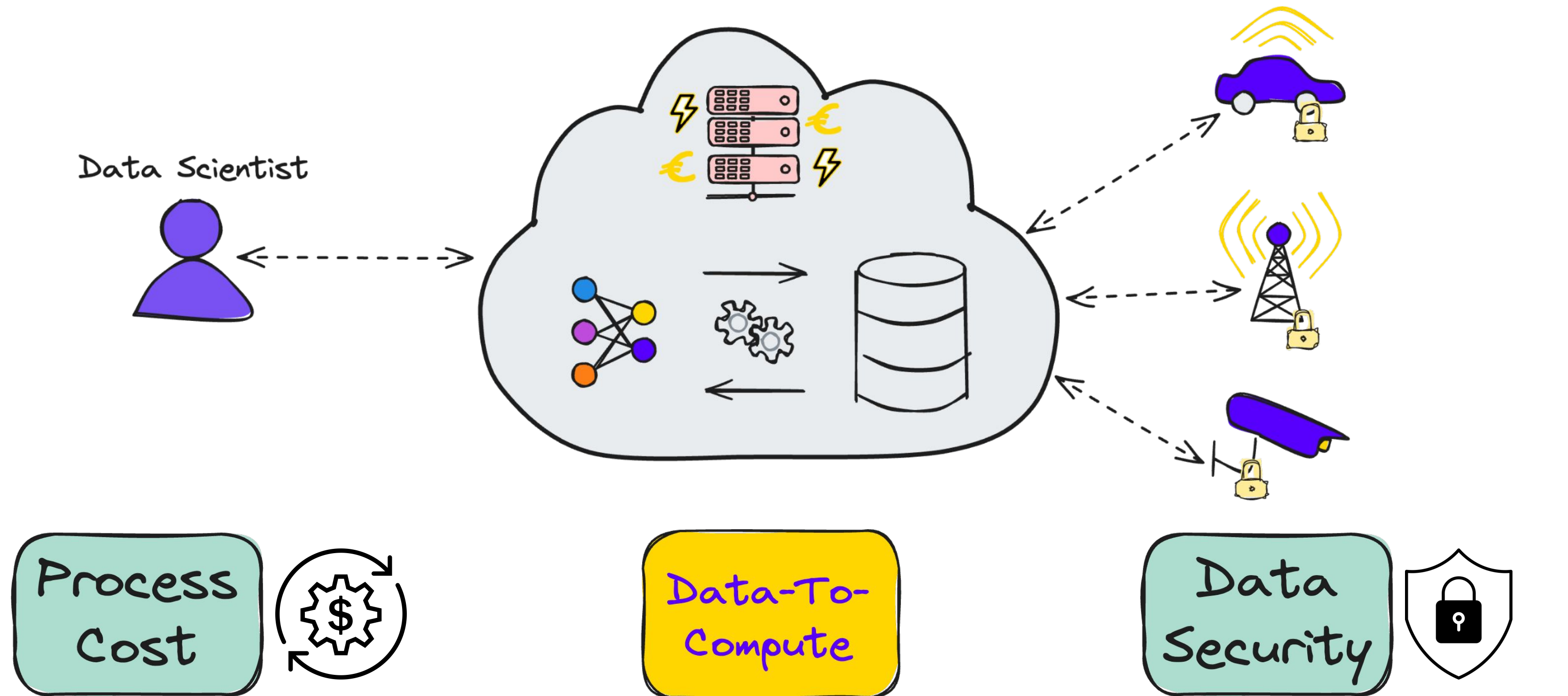
# THE DATA SCIENCE LANDSCAPE: CLOUD-DRIVEN VALUE



- Companies' **Sovereignty**
- User **Privacy** (GDPR)



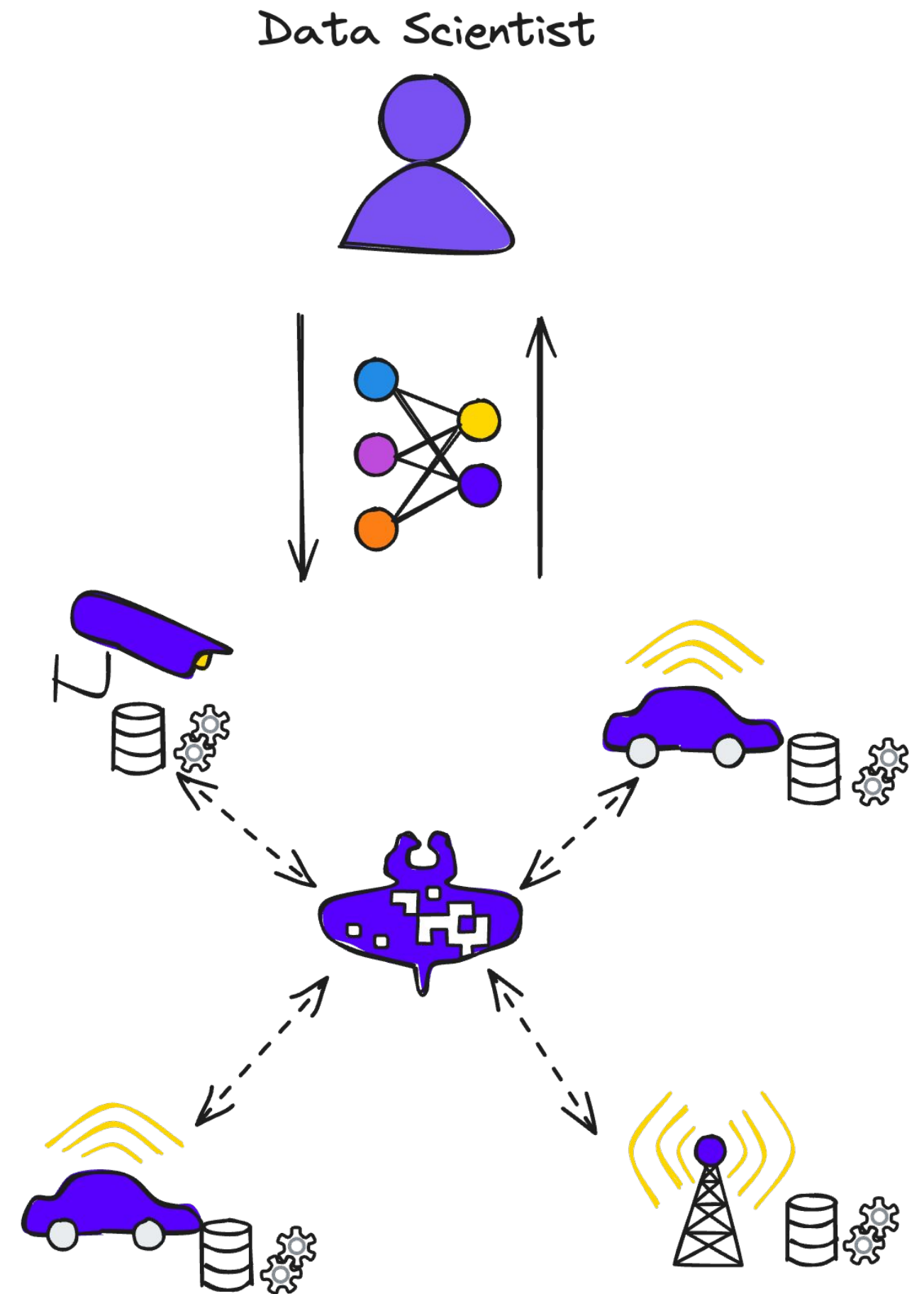
# THE DATA SCIENCE LANDSCAPE: CLOUD-DRIVEN VALUE



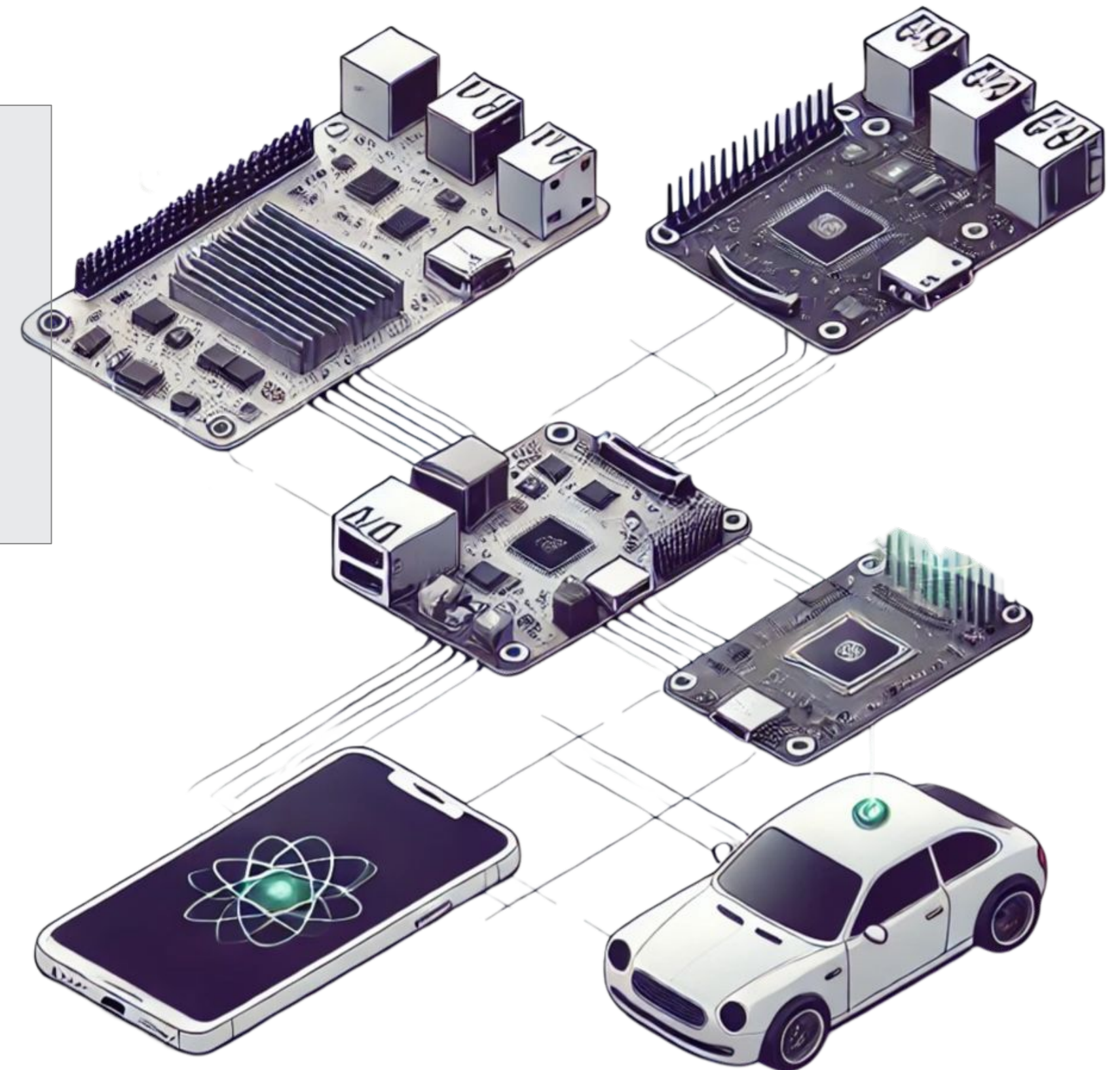
- Financial Cost
- Environmental Cost
- Latency

- Companies' **Sovereignty**
- User **Privacy** (GDPR)

- Local Processing

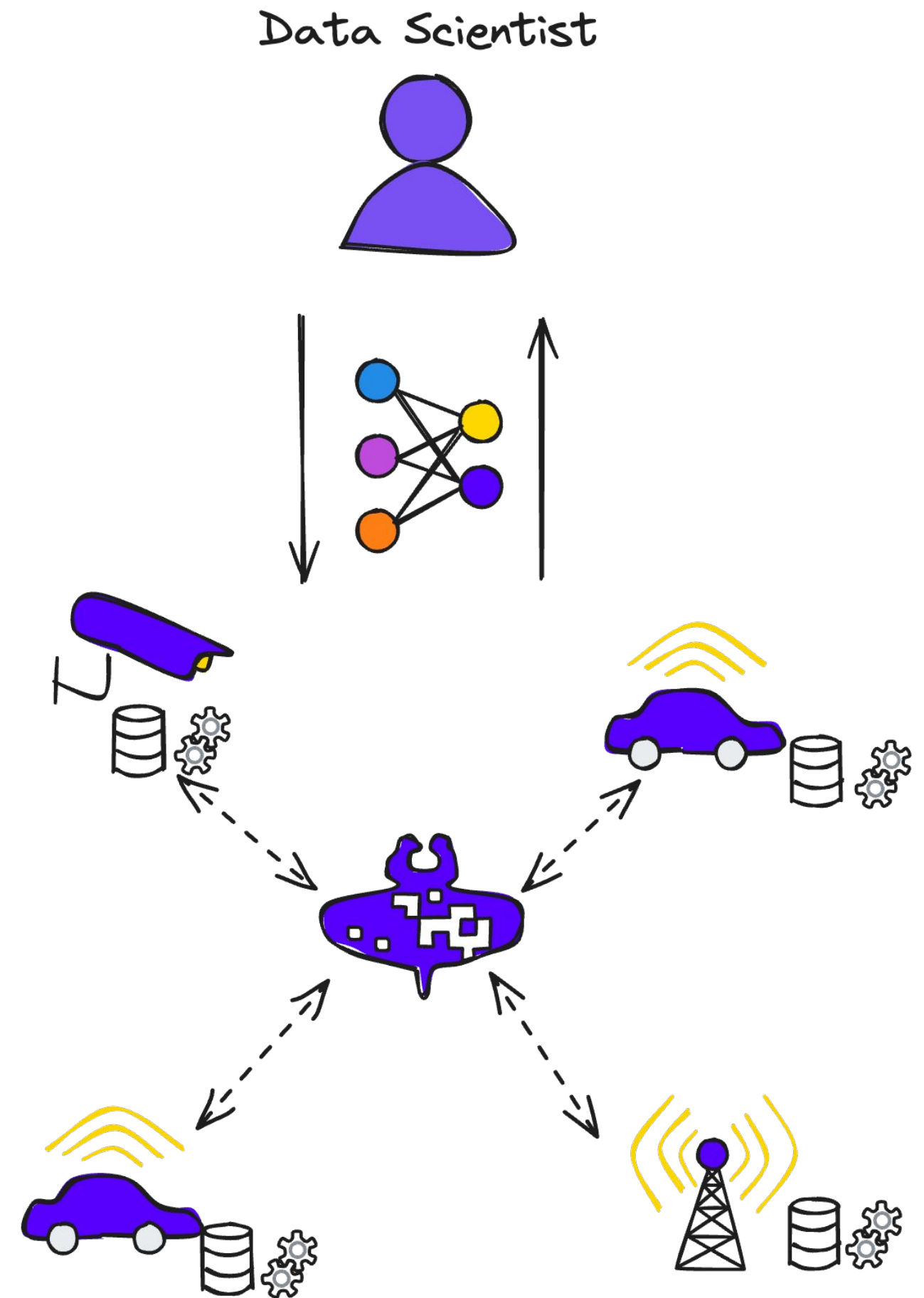


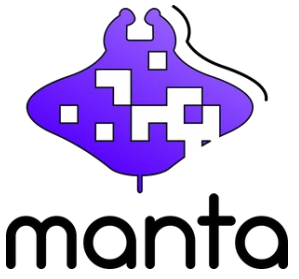
- Local Processing
- Empowered Embedded Devices:  
Modern autonomous systems, including vehicles, leverage **enhanced onboard computing power**.





- **Local Processing**
- **Empowered Embedded Devices:**  
Modern autonomous systems, including vehicles, leverage **enhanced onboard computing power**.
- **Collaborative Algorithms:**  
Harnessing **decentralized** and **federated learning** to enable real-time collaboration across devices.



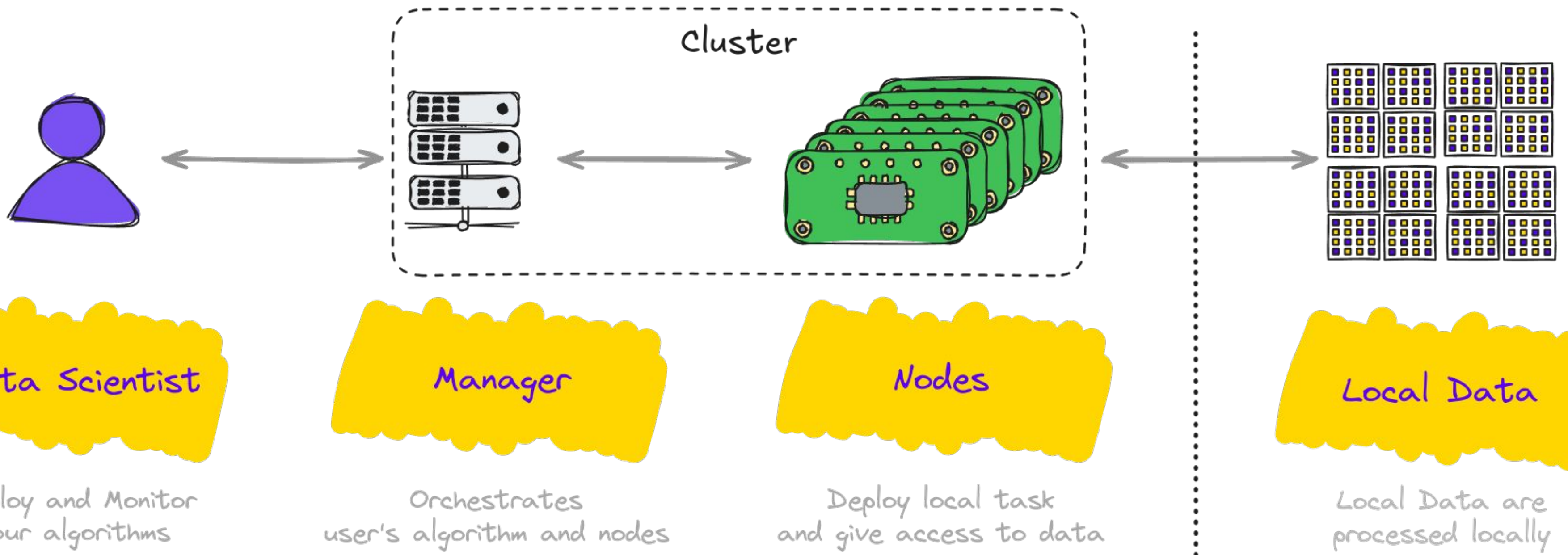


# DEPLOY SOVEREIGN, SECURE, AND COST-EFFECTIVE AI SOLUTIONS

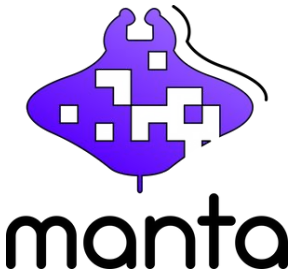
Built-In Security

Data Sovereignty

Cost Optimization



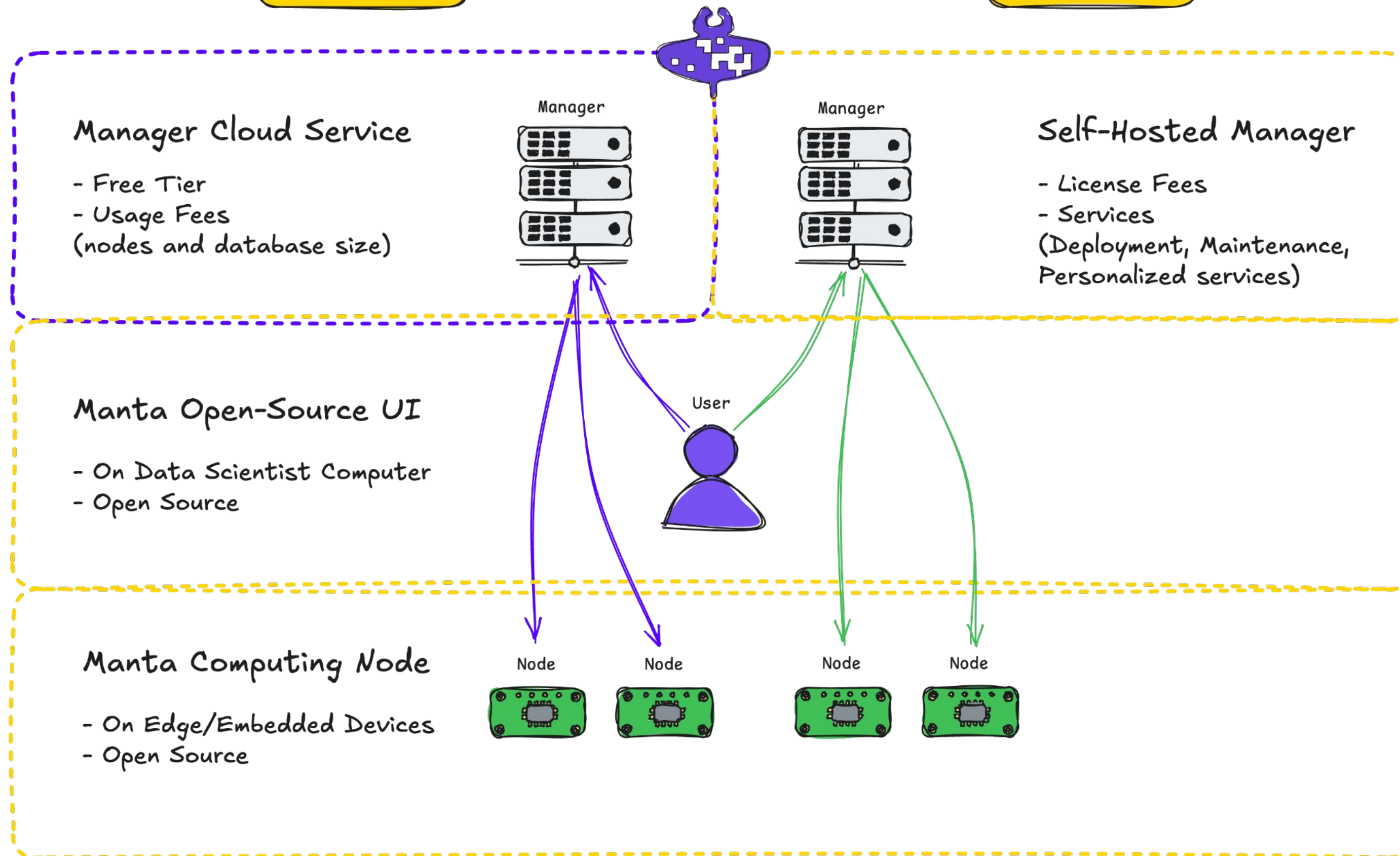


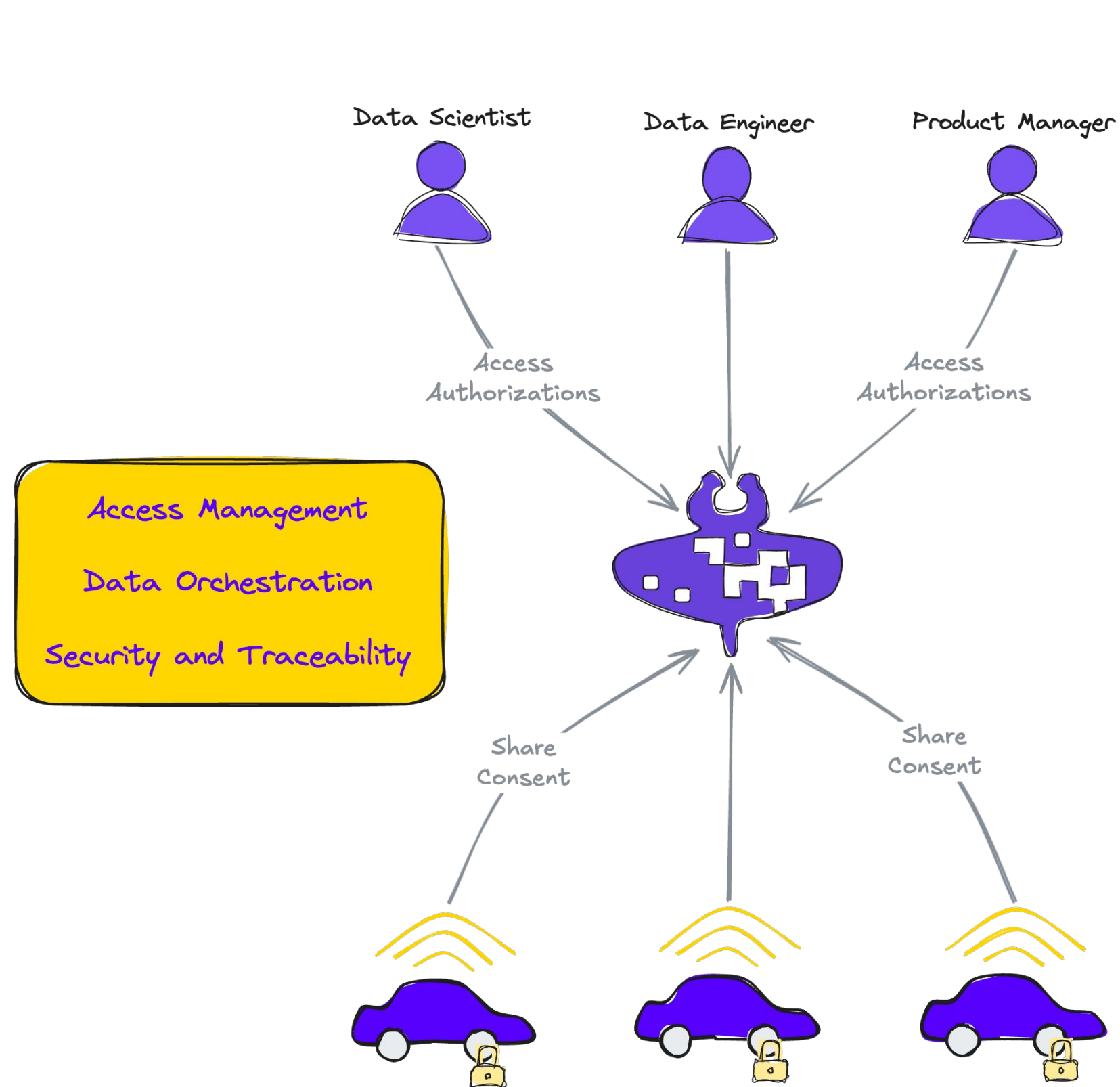


# MANTA: A HYBRID AND SCALABLE BUSINESS MODEL

SaaS Model

On-Premise





- **Emerging Standards**
- **Clean and Smart Cities:**  
Autonomous mobility integrates with **city infrastructure** for a more sustainable future
- **Technological Transformation:**  
From sensor-driven decision-making to **collaborative AI**
- Diverse use-cases:
  - **Embedded cybersecurity** and **predictive maintenance**
  - **Autonomous driving** and **ADAS**
  - **Personalized User Experience**



**HUGO MIRALLES**

**CO-FOUNDER**



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THANKS FOR YOUR ATTENTION

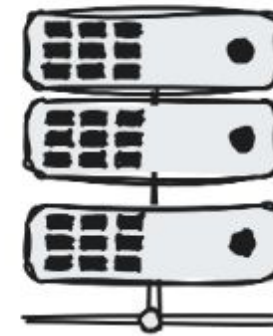


# MANTA: SEAMLESS AI LIFECYCLE FROM PROTOTYPE TO PRODUCTION

- Optimize every stage of the AI lifecycle
- **Reduced Latency** for real-time data processing
- **Data Traceability**
- **Unmatched Flexibility**

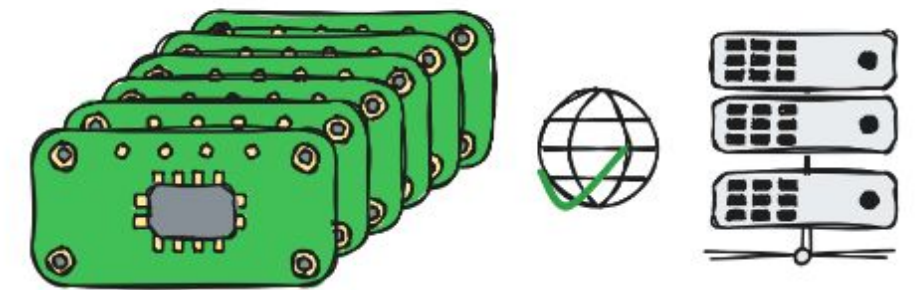
① Set up your servers

Server  
(Manager)



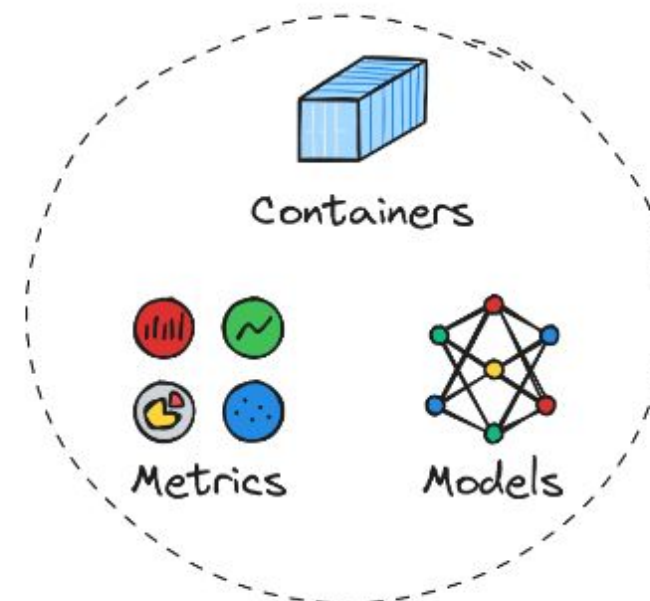
② Connect your embedded devices

Devices (Nodes)



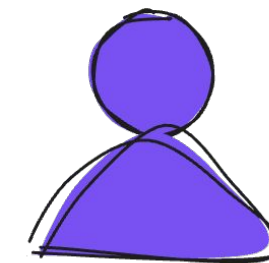
③ Deploy your algorithms

Decentralized algorithm  
(Swarm)



⑤ Repeat 3 and 4

User



④ Monitor your results



Evolution Performances Inspection

## Autonomous Vehicles Europe

CAGR 41,1 %\*      76 billion US\$

## Autonomous Vehicles Worldwide

CAGR 13,5 %\*      2 trillion US\$

- **Emerging Standards:**  
The shift towards autonomous and connected vehicles requires **new industry standards**.
- **Clean and Smart Cities:**  
Aligned with global efforts to create **greener and smarter cities**, autonomous mobility integrates with city infrastructure for a more sustainable future.
- **Technological Transformation:**  
From sensor-driven decision-making to **collaborative AI across vehicles, infrastructure, and smart cities**, the market is embracing transformative innovation.



# INDUSTRY 4.0: SEIZING THE OPPORTUNITY WITH DECENTRALIZED AI SOLUTIONS

Industry 4.0  
Europe

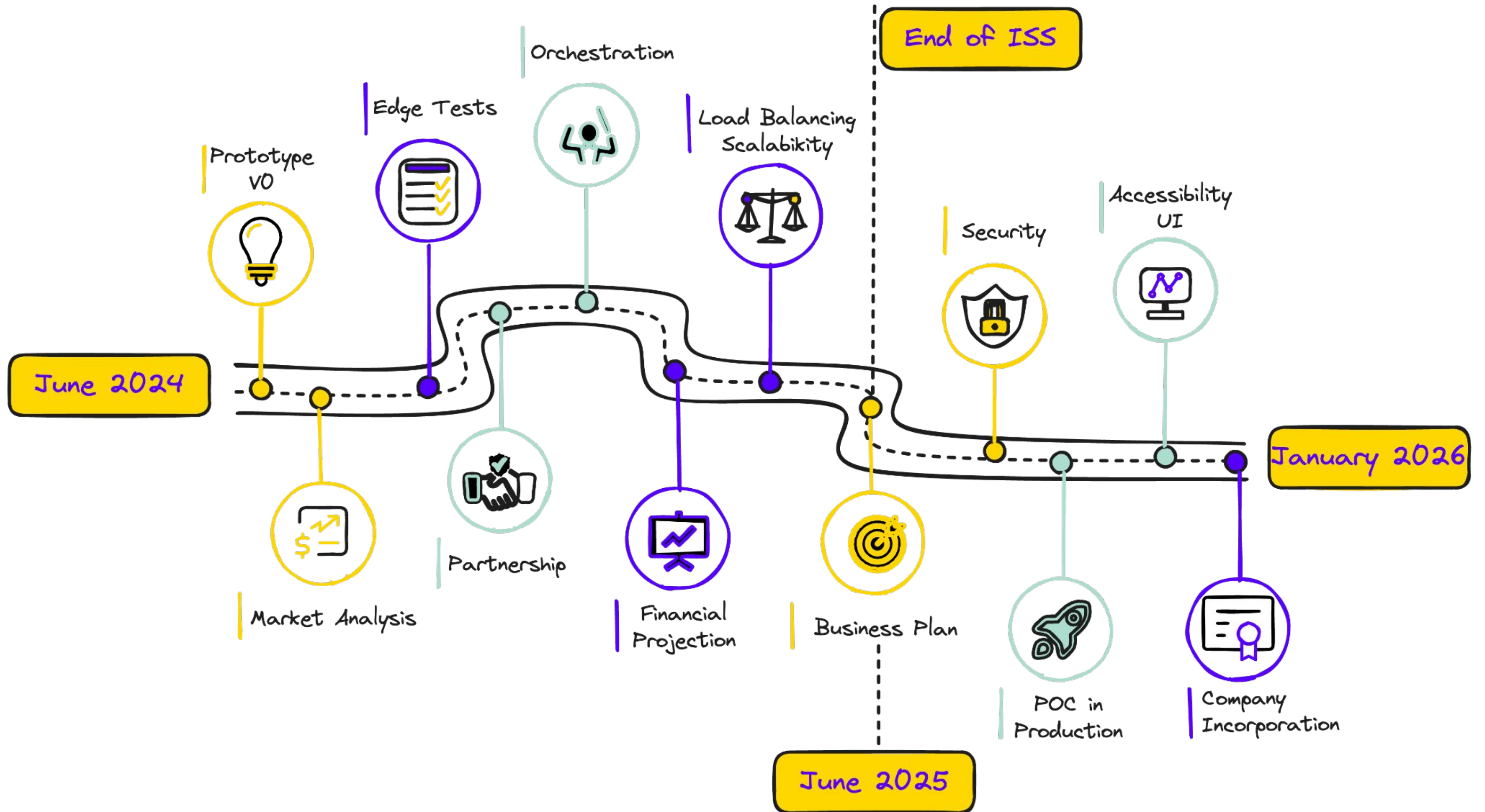
CAGR 19.2 %\*    36 billion US\$

Industry 4.0  
Worldwide

CAGR 20,7 %\*    94 billion US\$

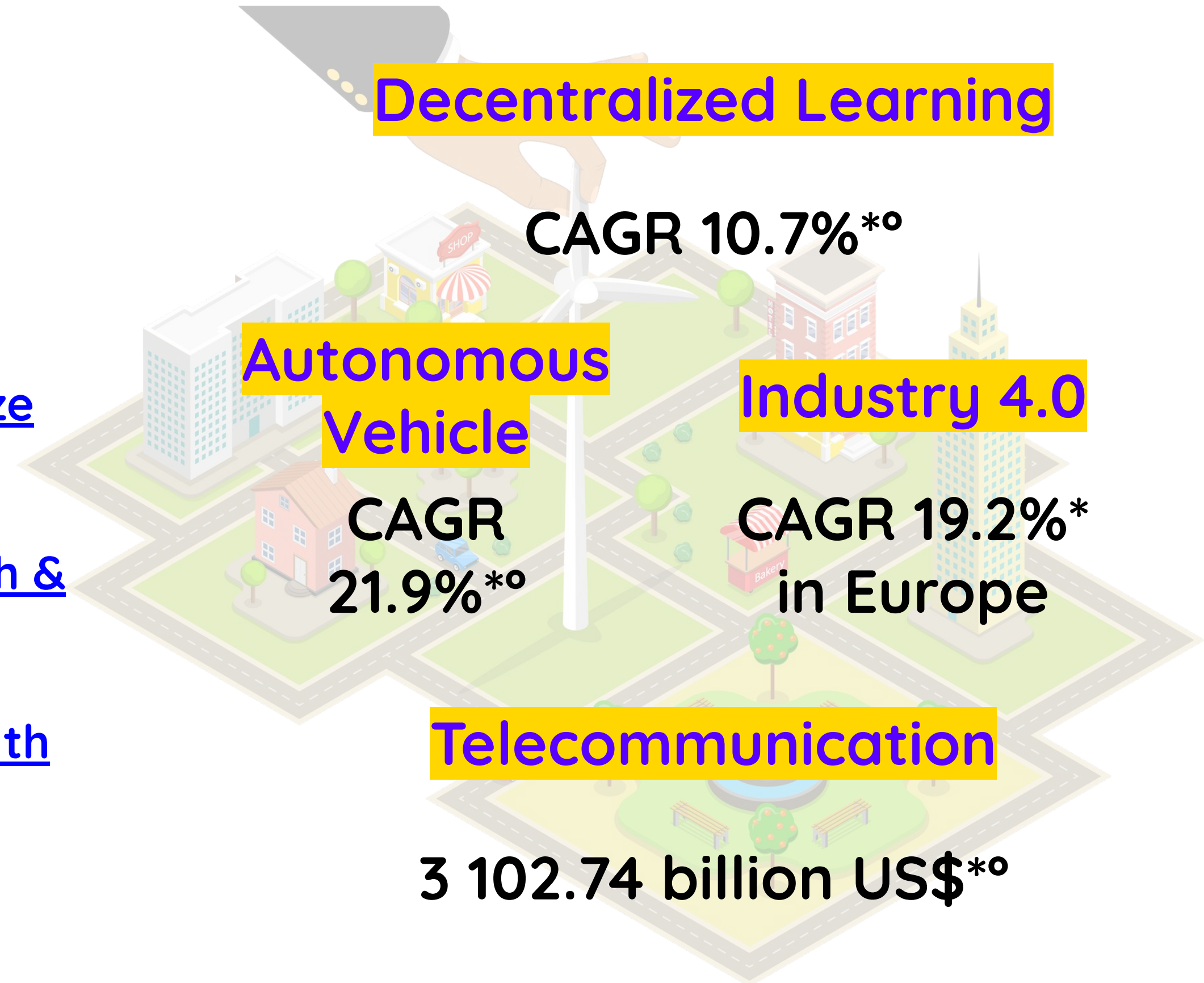
- **Decentralized Data Management**  
Decentralized processing solutions reduce **bandwidth costs** and **improve latency**.
- **Predictive Maintenance**  
Manta facilitates the deployment of predictive maintenance solutions, **reducing downtime** and **operational costs**.
- **Emerging Applications in Automation**  
Embedded AI technologies enable the **automation** and **optimization of production lines**.
- **Data Security and Sovereignty**  
Manta's solutions ensure **secure data management**, addressing the growing concerns around **cybersecurity** and **sovereignty**.





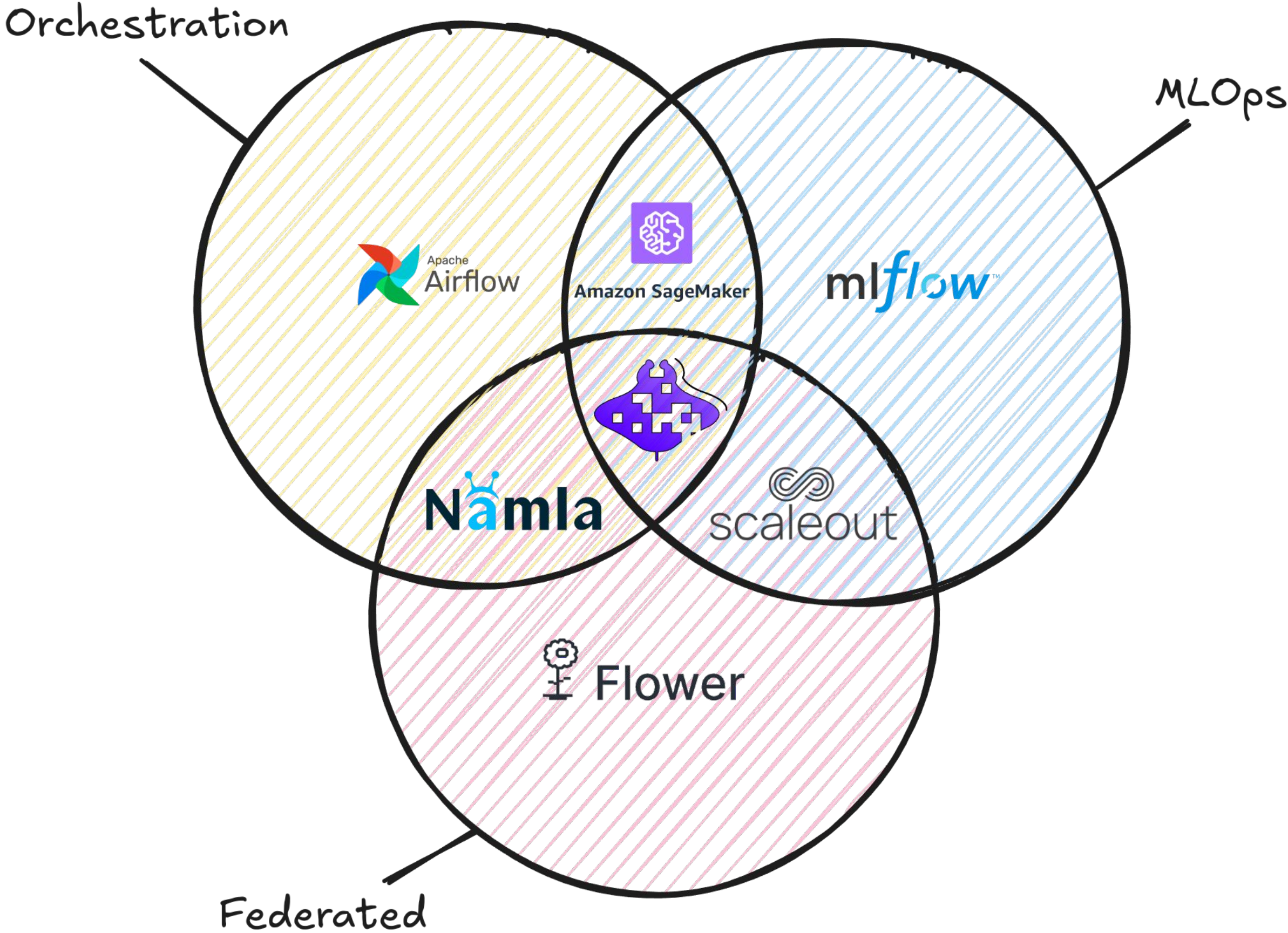
## SOURCES

- [Federated Learning Market Size Global Report, 2022 - 2030](#)
- [Autonomous Vehicle Market - Share, Size and Industry Analysis](#)
- [Europe Industry 4.0 Market Size, Growth & Future by 2028](#)
- [Telecommunication Market Size & Growth Analysis - Industry Forecast 2023-2030](#)





MARKET: NAVIGATING COMPETITIVE WATERS







Hugo Miralles

CEO

Combines a scientific background in Federated Learning with a passion for ethical AI and team building.



TEAM MANTA



Benjamin Bourbon

CTO

A detail-oriented technologist. Benjamin's expertise lies in computer science, AI, and distributed computing.

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THANKS FOR YOUR ATTENTION