



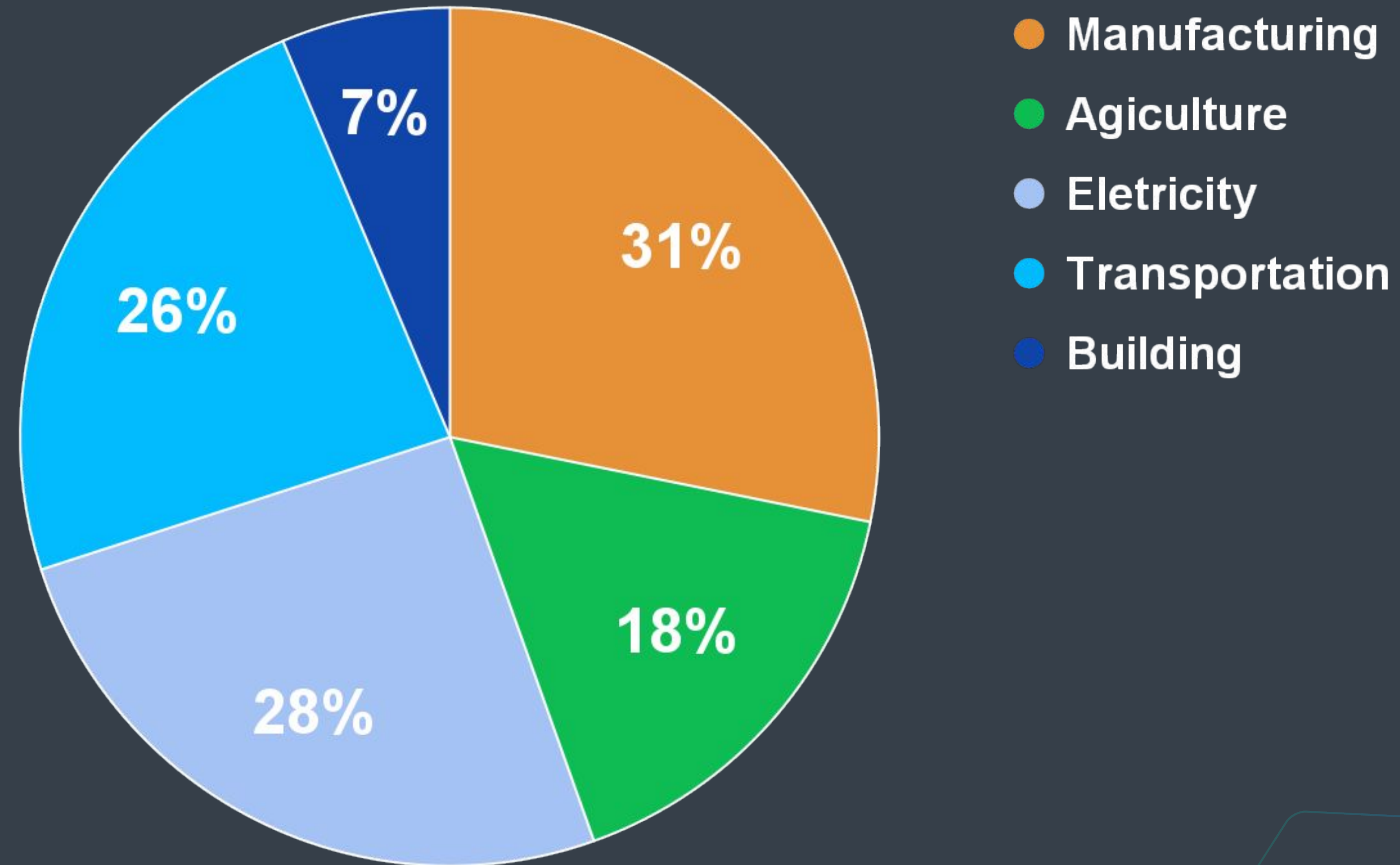
ENERGY EFFICIENCY & CO₂ REDUCTION in MANUFACTURING with AI

MIT Energy and Climate Hack

DID YOU KNOW?

Manufacturing (making things) and **Agriculture** (growing things) account for **49%** of the global carbon emissions?

Both require improved operations that are more energy efficient and uses less resources (e.g. fertilizers).



Source:

<https://breakthroughenergy.org/our-approach/grand-challenges/>

KOIDRA SOLUTIONS:

AI for Energy Efficient and Sustainable Manufacturing

We provide award-winning autonomous control tech for energy-intensive industries



Higher operational efficiency



Energy and resource savings



Process standardization, automation, and optimization



Datapilot
Advanced Operational Analytics



Autopilot
Automation & Optimization with AI

HOW OUR SOLUTIONS SAVE THE PLANET



Datapilot delivers data dashboards that enable operators to analyze critical factors affecting production bottlenecks and derive data-driven strategies.



Autopilot optimizes and automates the data-driven control strategies.

BENEFITS OF OUR SOLUTION



**HIGHER
YIELD**



**HIGHER ENERGY
EFFICIENCY**



**LOWER CARBON
EMISSION**

Success Stories in Greenhouse Growing

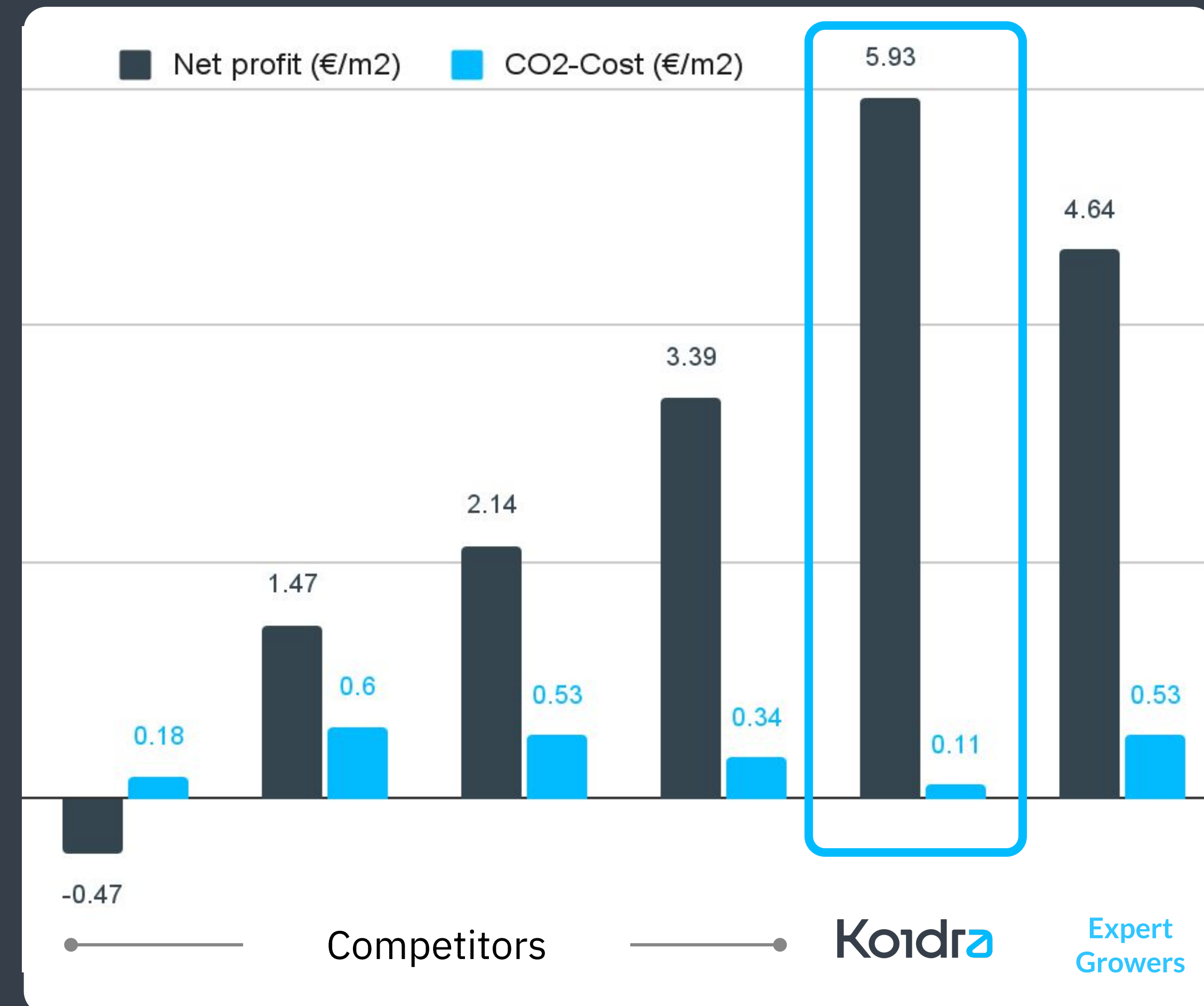
Our smart climate control solution is transforming the greenhouse industry with an unparalleled track record of success.



Consecutive victories in the prestigious **Autonomous Greenhouses Challenge**, surpassing expert growers with up to **27% higher profits**.



Commercial trials: yield increases and electricity saving of **more than 20%**.



We also achieved higher energy efficiency and higher CO2 efficiency during the process.

Ref: <https://www.mdpi.com/1424-8220/23/6/2929>

The Challenge: Scale the Business

1. How would you scale our business?
2. What go-to-market strategy and partnerships: target customer segments and how to penetrate them?
3. How would you set pricing to best capture our value and create alignment with the customers?
4. How would you shift the customers' mindset in traditional CapEx-intensive industries to appreciate software and AI as the low-hanging fruit to reduce energy consumption?
5. How would you address risk management concerns, including but not limited to potentially harmful operational decisions, data security?

Ko1dra