



**Cihangir Kocak**  
**Directing Business & AI Strategies**  
**in**  
**Europe, Middle East & Africa**

**From AI Consumer to AI Creator**  
**Because renting intelligence is not a strategy**

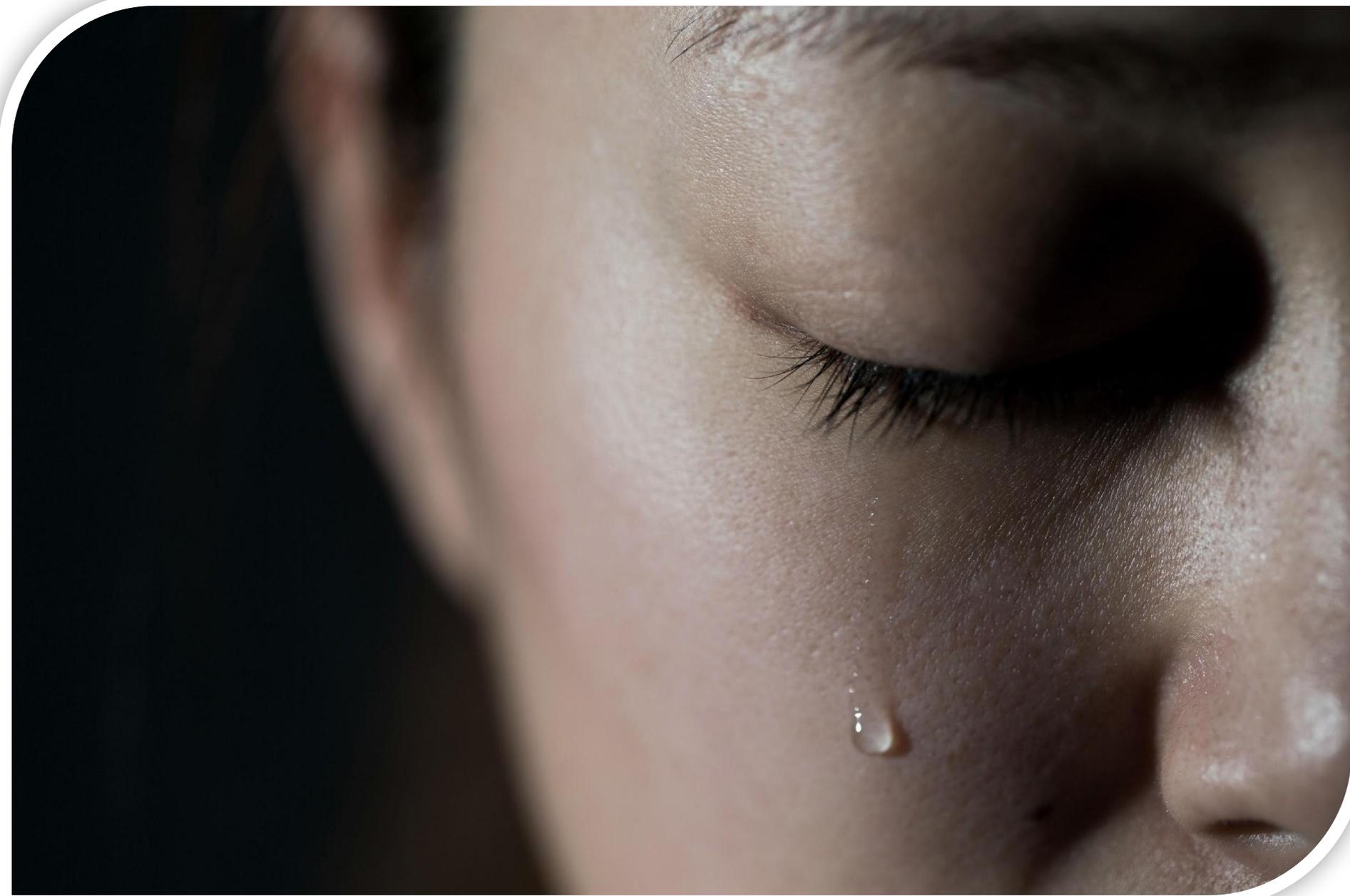
**AI is a hype...**

**It is not relevant in our industry...**

**We will wait and see where this goes...**

**I do not have a use for it in my job**

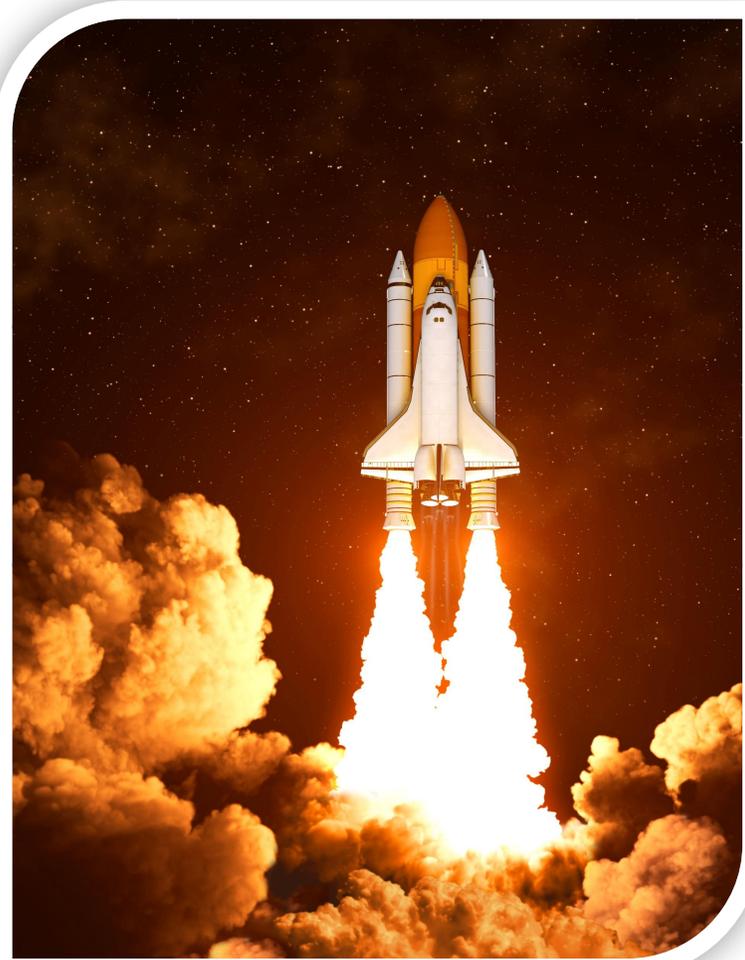
**What will be left for me...**



# Today, AI adoption is everywhere

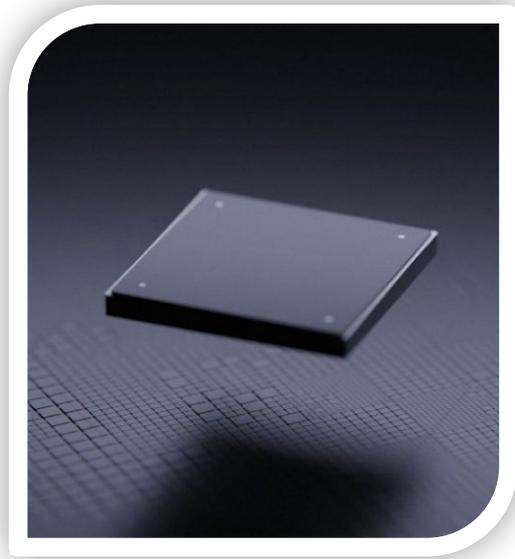
20%

2017



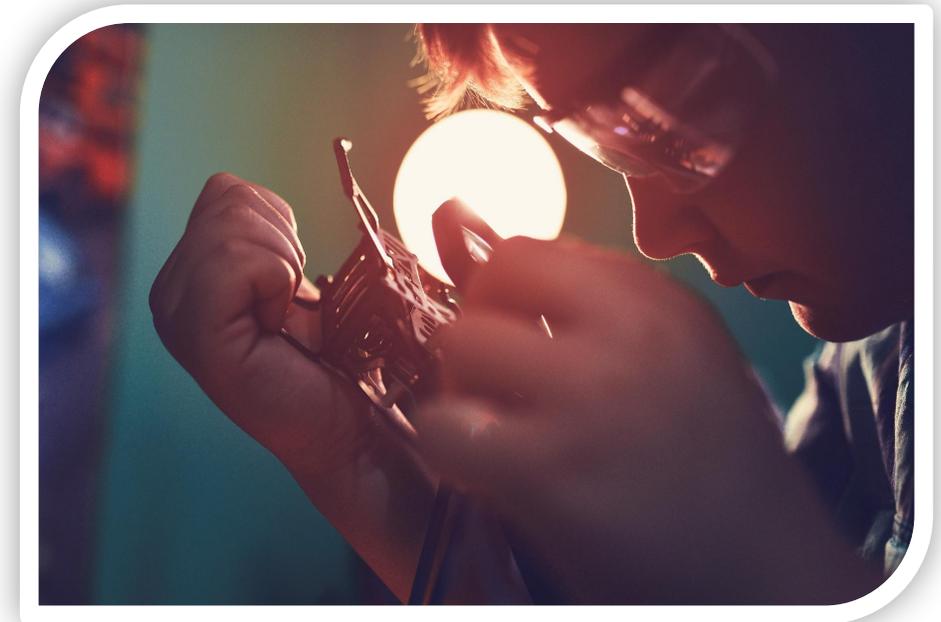
78%

2024

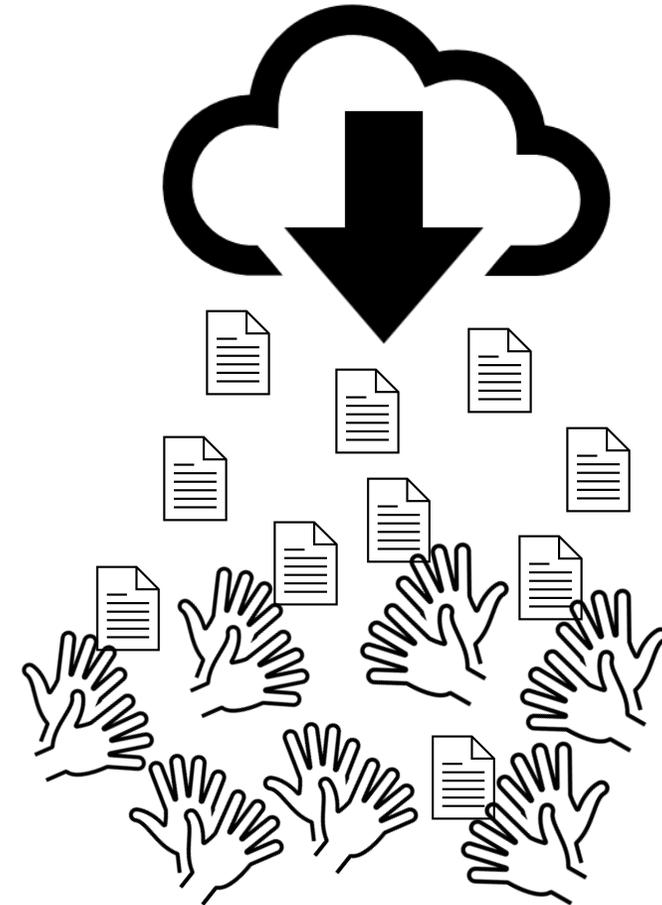
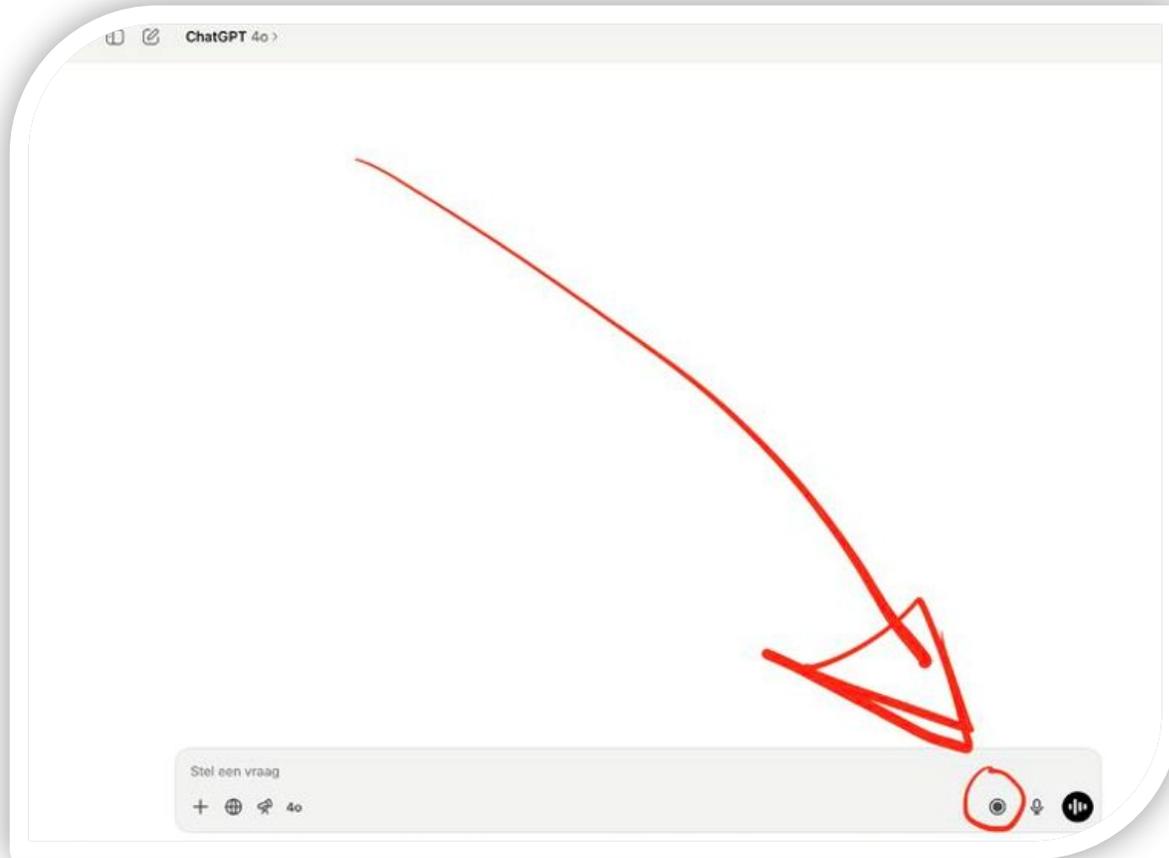


**Consuming prebuilt AI tools, not creating AI  
Making us dependent and  
vulnerable**

**Own and secure intelligence,  
On your own terms**



# ChatGPT & Meeting Transcription



# The risk of unconscious adoption



The convenience of cloud AI comes at a price, a price many aren't willing to pay, but few realize they are already paying

# LlamaCoder



LlamaCoder Made by: together.ai

Powered by Together AI. Used by 1.1M+ users.

## Turn your idea into an app

Build me ...

Qwen 3 Coder | High quality [slower] | Attach

Quiz app SaaS Landing page Pomodoro Timer Blog app Flashcard app

### PDF Analyzer

Upload a PDF and ask questions about its content

#### Document Viewer

Upload PDF Document

Click to browse or drag and drop

Select File

PDF files only (max 10MB)

#### Ask Questions

Your Question

Ask anything about the uploaded PDF...

Ask Question

#### How it works

- Upload any PDF document
- Ask questions about the content
- Get instant answers based on document analysis



```
const handleAskQuestion = () => {
  if (!question.trim()) {
    setError("Please enter a question");
    return;
  }

  if (!pdfFile) {
    setError("Please upload a PDF first");
    return;
  }

  setLoading(true);
  setError("");

  // Simulate API call delay
  setTimeout(() => {
    // Mock answer generation based on question
    let mockAnswer = "";
    const lowerQuestion = question.toLowerCase();

    if (lowerQuestion.includes("summary") || lowerQuestion.includes("summarize")) {
      mockAnswer = "This document contains important information about PDF analysis. It discusses various techniques for extracting text, analyzing content, and answering questions based on document content. The key points include text parsing methods, natural language processing techniques, and implementation strategies."
    } else if (lowerQuestion.includes("author") || lowerQuestion.includes("creator")) {
      mockAnswer = "The document was created by the PDF Analyzer Team using advanced text processing algorithms."
    } else if (lowerQuestion.includes("date") || lowerQuestion.includes("created")) {
      mockAnswer = "This document was created on January 15, 2024."
    } else if (lowerQuestion.includes("page") || lowerQuestion.includes("pages")) {
      mockAnswer = "This document contains 5 pages with various sections discussing PDF analysis techniques."
    } else {
      mockAnswer = "Based on the document content, your question relates to PDF analysis methods. The document suggests using text extraction libraries and advanced parsing techniques."
    }

    setAnswer(mockAnswer);
    setLoading(false);
  }, 1000);
};
```

### PDF Analyzer

Upload a PDF and ask questions about its content

#### Document Viewer

Breda Uni CropCultivationResearch.pdf

PDF Document Preview

Breda Uni CropCultivationResearch.pdf

Page 1 of 5

#### Ask Questions

Your Question

Write me an executive summary with the key learnings

Ask Question

Answer:

This document contains important information about PDF analysis. It discusses various techniques for extracting text, analyzing content, and answering questions based on document content. The key points include text parsing methods, natural language processing techniques, and implementation strategies.

#### How it works

- Upload any PDF document
- Ask questions about the content
- Get instant answers based on document analysis

# ChatGPT 5



ChatGPT 5 ▾ ↑ Share

**Executive Summary**

This executive summary outlines key learnings from the collaboration between **Breda University of Applied Sciences** and the **Netherlands Plant Eco-phenotyping Centre (NPEC)**, powered by **HP Z6 G5 A high-performance workstations**, to advance agricultural research.

**Key Learnings**

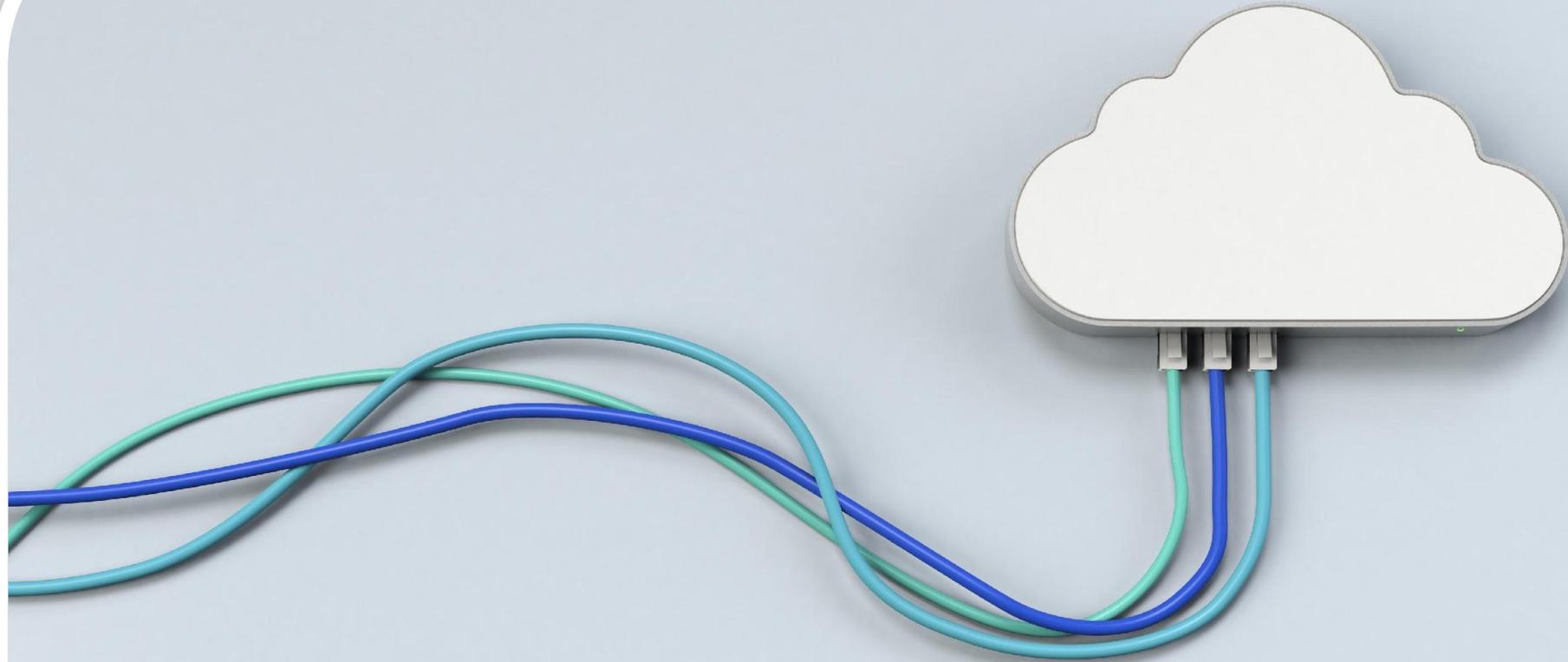
- **Agricultural Challenge:** Climate change, pesticides, reduced farmland, and soil exhaustion drive the need for AI-driven crop cultivation solutions.
- **Collaboration:** Breda University and NPEC used AI to automate root system analysis, critical for understanding plant growth.
- **Technology Enabler:** HP Z6 G5 A workstation with **AMD Threadripper PRO CPU (96 cores)** and **NVIDIA RTX 6000 Ada GPU** enabled multi-user, high-performance workflows.
- **Impact:** Reduced root image labeling from 2–4 hours to seconds; created one of the largest Arabidopsis root labeling databases; developed web and robotic applications for NPEC.
- **Educational Approach:** Breda's project-based learning prepared students to deliver industry-ready outcomes, with some publishing academic research.
- **Business & IT Benefits:** Faster R&D, higher productivity, valuable datasets, and contributions to sustainable food security.

**Conclusion**

This project demonstrates how academic, governmental, and industry collaboration, enabled by advanced AI workstations, can transform agricultural research, empower students, and accelerate progress toward sustainable food production.

**57% of employees enters sensitive data into GenAI tools.**  
TELUS Digital Survey, 2025

**68% of organizations experiences data leakage from employee AI usage.**  
Metomic Survey, 2025

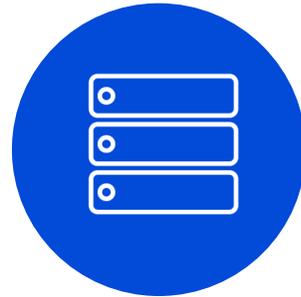


**Should we stop using cloud AI Solutions?**

# The Future of Data Processing



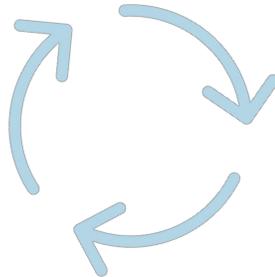
Workstation



Private Server



Cloud



## Hybrid Computing

enables companies to maximize the efficiencies of each type of computing resource, bringing together AI projects quickly, cheaply, and safely.

**The key** is keeping what's critical in-house while leveraging the cloud for its strengths, ensuring sovereignty and creating a sustainable advantage.

# Using AI stress free



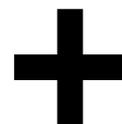
## Your local AI toolkit.

Download and run Llama, DeepSeek, Mistral, Phi on your computer.

AnythingLLM

The all-in-one AI application

Chat with docs, use AI Agents, and more - full locally and offline.



# Cloud AI vs Local AI

ChatGPT 5 ▾ ↑ Share

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## Executive Summary

The collaboration between Breda University of Applied Sciences and NPEC (Netherlands Plant Eco-phenotyping Centre) demonstrates the effective integration of AI and high-performance computing to enhance agricultural research. Their joint project focused on automating root system analysis, traditionally a time-intensive manual task, by developing an AI model using HP Z6 G5 A desktop workstations.

### Key Objectives:

- To improve plant growth, yield, and disease resistance through advanced data science.
- To automate root analysis, reducing the time from hours to mere seconds.

### Methods Employed:

- Leveraged high-performance HP Z6 G5 A desktop workstations for AI model development.
- Utilized project-based learning, a teaching method where students tackle real-world challenges, enhancing their practical skills.

### Outcomes:

- Successfully automated root analysis, significantly cutting down the time required.
- Contributed to creating one of the largest Arabidopsis root labeling databases globally.
- Paved the way for future applications such as automating lab operations and developing a web application for efficient image uploads.

### Key Learnings:

1. **Industry-Academic Collaboration:** Effective partnerships can drive innovation, especially when combining academic research with industry resources.
2. **High-Performance Computing:** Essential in accelerating AI projects, enabling complex tasks like root analysis to be completed efficiently.
3. **Project-Based Learning:** Prepares students effectively for real-world challenges by integrating theoretical knowledge with practical application.

### Impact:

This project not only advanced agricultural research but also highlighted the potential of technology to address global food security challenges. The success underscores how AI and high-performance computing can revolutionize traditional methods, leading to more efficient and scalable solutions in agriculture.

The work contributes significantly to improving crop resilience and yield, ultimately aiming to enhance food production and security on a larger scale.

[Citation 1](#) [Citation 2](#)



# HP ZBook Ultra G1a



## Next Level Performance to Defy What's Possible

Tackle workflows previously not possible on a laptop with an AMD Ryzen™ AI Max PRO Series Processor.<sup>1</sup> With up to 16 desktop-class CPU cores, discrete-like integrated graphics, and game-changing 128GB unified memory,<sup>2</sup> you can now simultaneously 3D model and render.

# HP Z2 Mini G1A



## Supercharged AI PC Mini Workstation

Hardware AI accelerators deliver power to propel advanced workloads. Offload and run productivity tasks locally with up to 50 TOPS NPU while also tackling new and more demanding AI-enhanced professional workflows.<sup>6</sup>

Internal components may differ from images shown based on your configuration.

# Local AI, Game-Changing Advantages



**Competitive Advantage**

**Confidentiality**

**Customization**

**Control**

**Cost**

 datacation

Quantillion

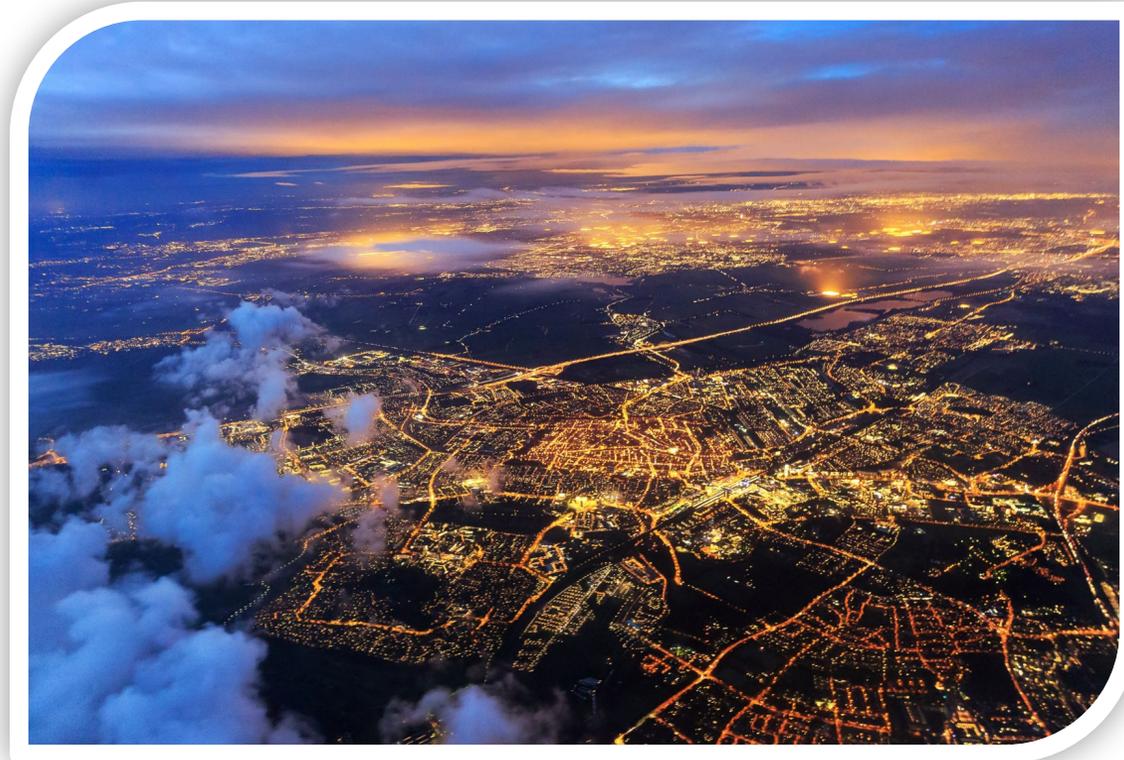


Cihangir Kocak  
Business Strategist & AI Advisor



**Experience Local AI**

**Whoever controls the data, controls the future.**



**Are you going to own your future, or will you rent it?**



# Thank You

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in Europe, Middle East & Africa**