

# AI och språkmodeller – Vad händer och vart är vi på väg?

Olivier Rostang, 09/04/2025

## FUTURE

Research-  
based  
foresight

## STRATEGY

Future-  
based  
strategy

## ACTION

Strategy  
enforcement



# Om Kairos Future



# Introducing ChatGPT

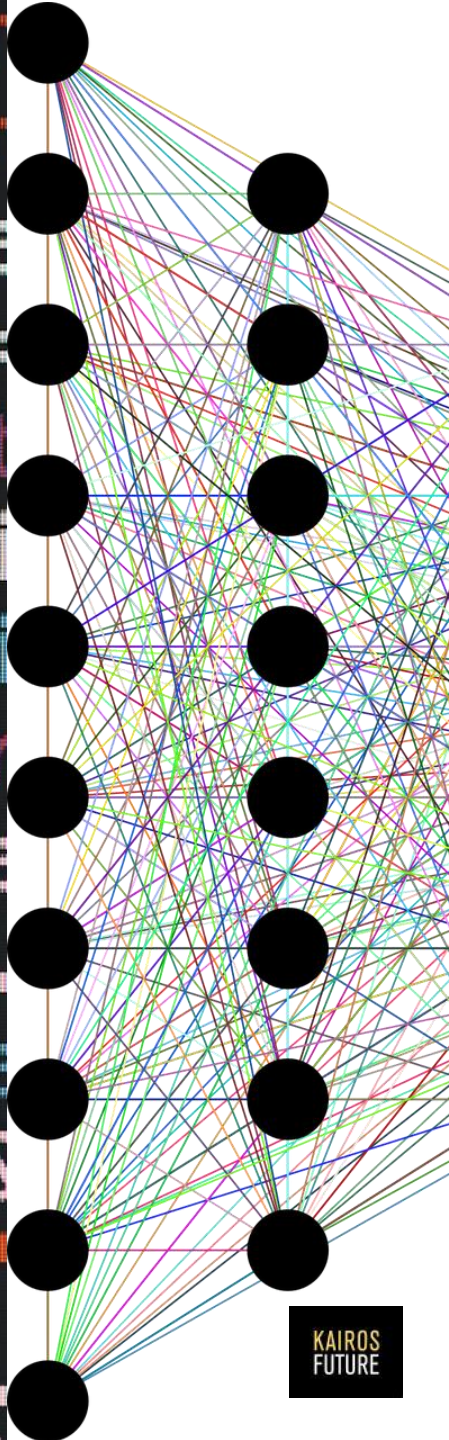
We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests.

How Long it Took Top Apps to hit 100M Monthly Users

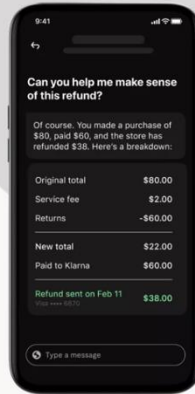
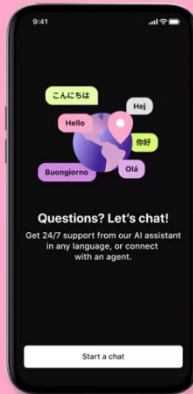
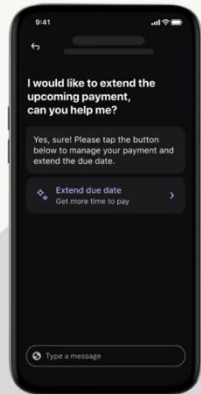




```
readyState:char  
ring Function  
(e){var t=_[e  
opOnFalse){r=  
s=t,c(r)}}ret  
u=[],this},di  
turn p.fireWi  
:function(){r  
e().done(n.re  
s},t[1^e][2].  
ments),r=n.le  
>t;t++)n[t]&&  
><a href='/a'  
) [0],r.style.
```



## Klarna's AI bot is doing the work of 700 employees. What will happen to their jobs?



Klarna



AI

## In a leaked recording, Amazon cloud chief tells employees that most developers could stop coding soon as AI takes over

Eugene Kim Aug 20, 2024, 9:38 PM CEST

🔊 Listen 04:18 min

🔗 Share

🔖 Save



Amazon; Getty Images; Tyler Le/BI

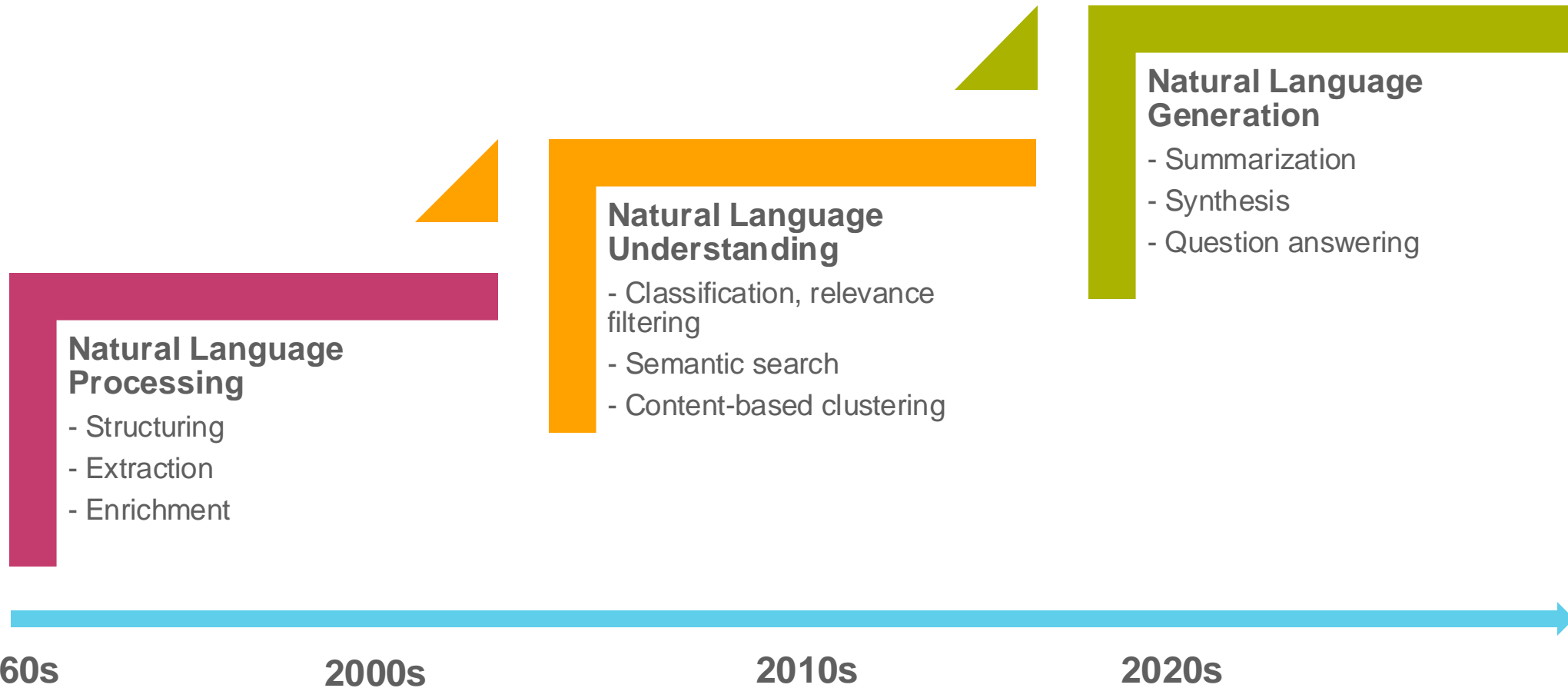
# Hur fungerar AI och språkmodeller?



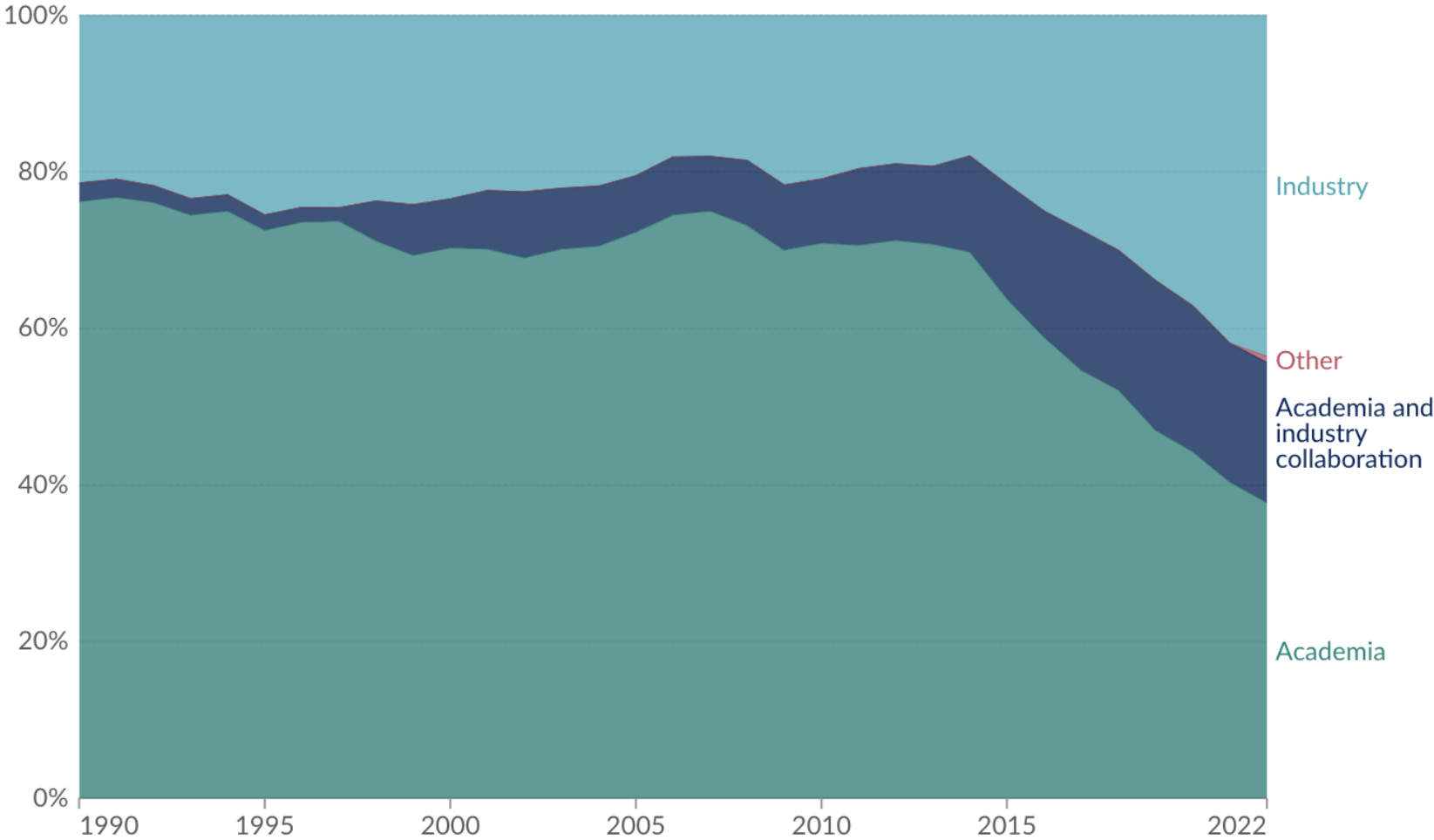
# LLMs: Så funkar det



# Bakom kulisserna på ChatGPT



# Cumulative number of notable AI systems by researcher affiliation



Data source: Epoch (2023) – [Learn more about this data](#)

OurWorldInData.org/artificial-intelligence | CC BY



# En “general purpose” teknik



- Ingen specifik domän
- Kan utföra varierade uppgifter
- Grundläggande nivå till doktorandnivå (beroende på uppgift och instruktion)
- → Kan liknas vid datorn, en allmän teknik vars tillämpningar går långt utöver informatik

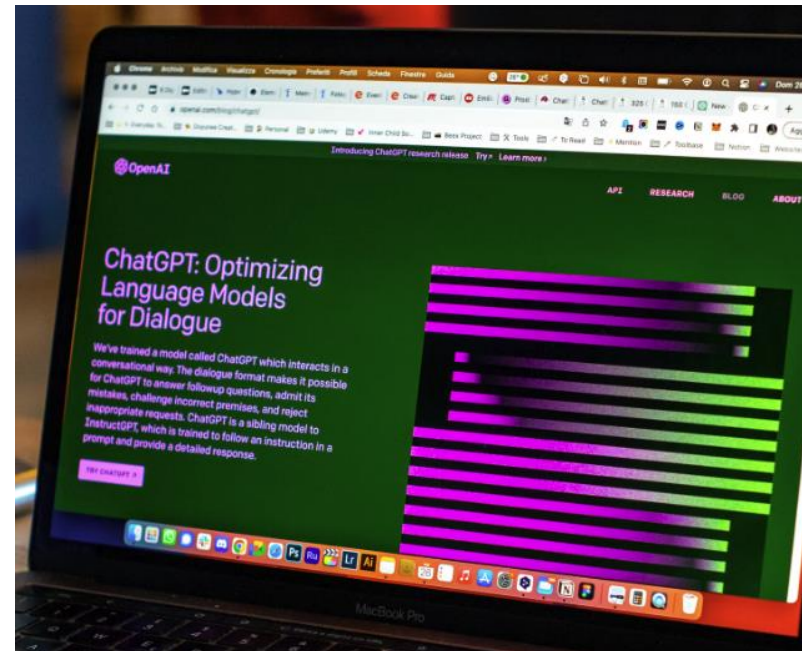
# En annan typ av maskin

**Maskin:** förutsägbar och bra på att hantera uppgifter på systematiskt sätt

**LLM:** oförutsägbar och opålitlig (ibland)

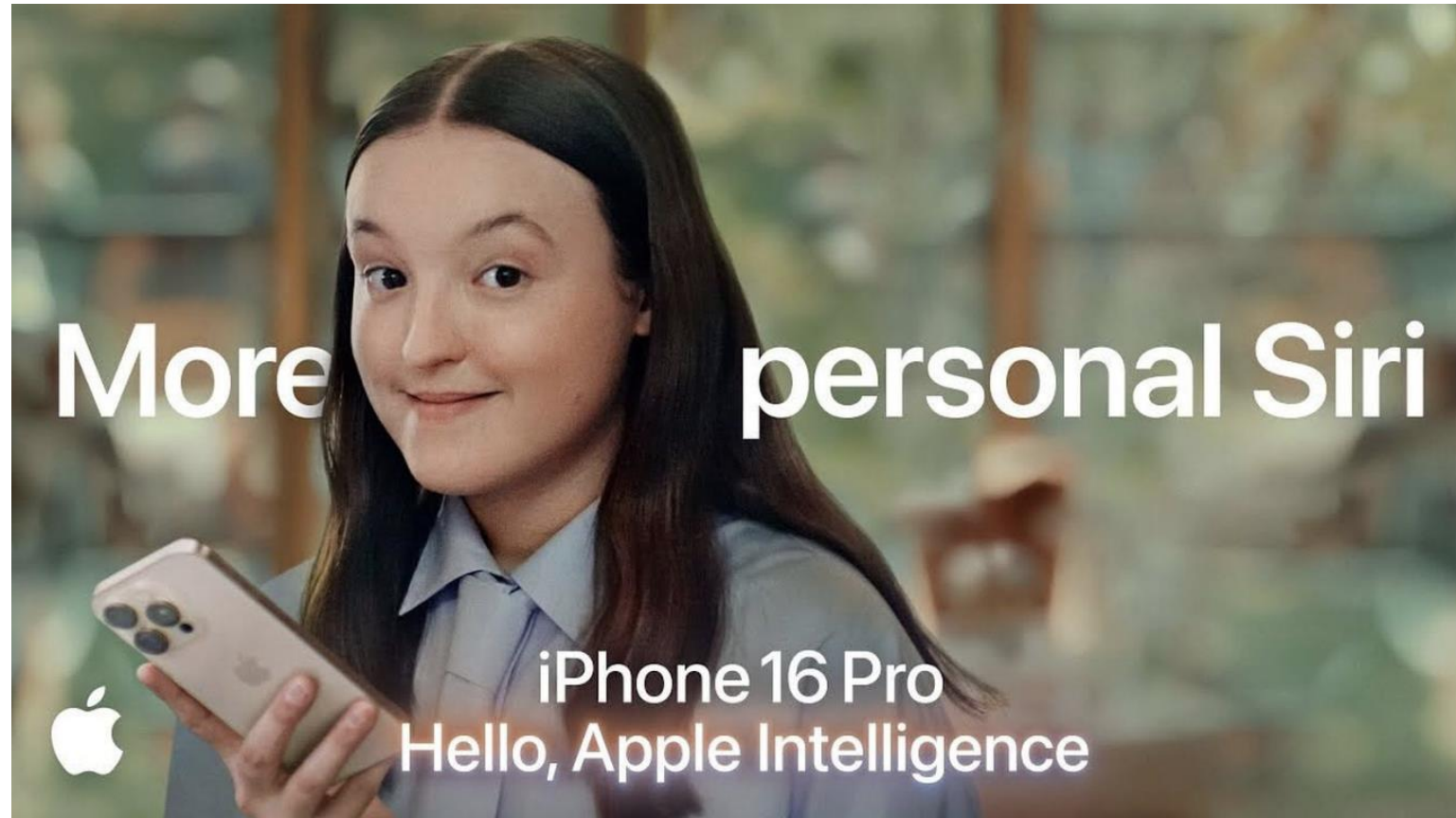


**”Deterministic”**

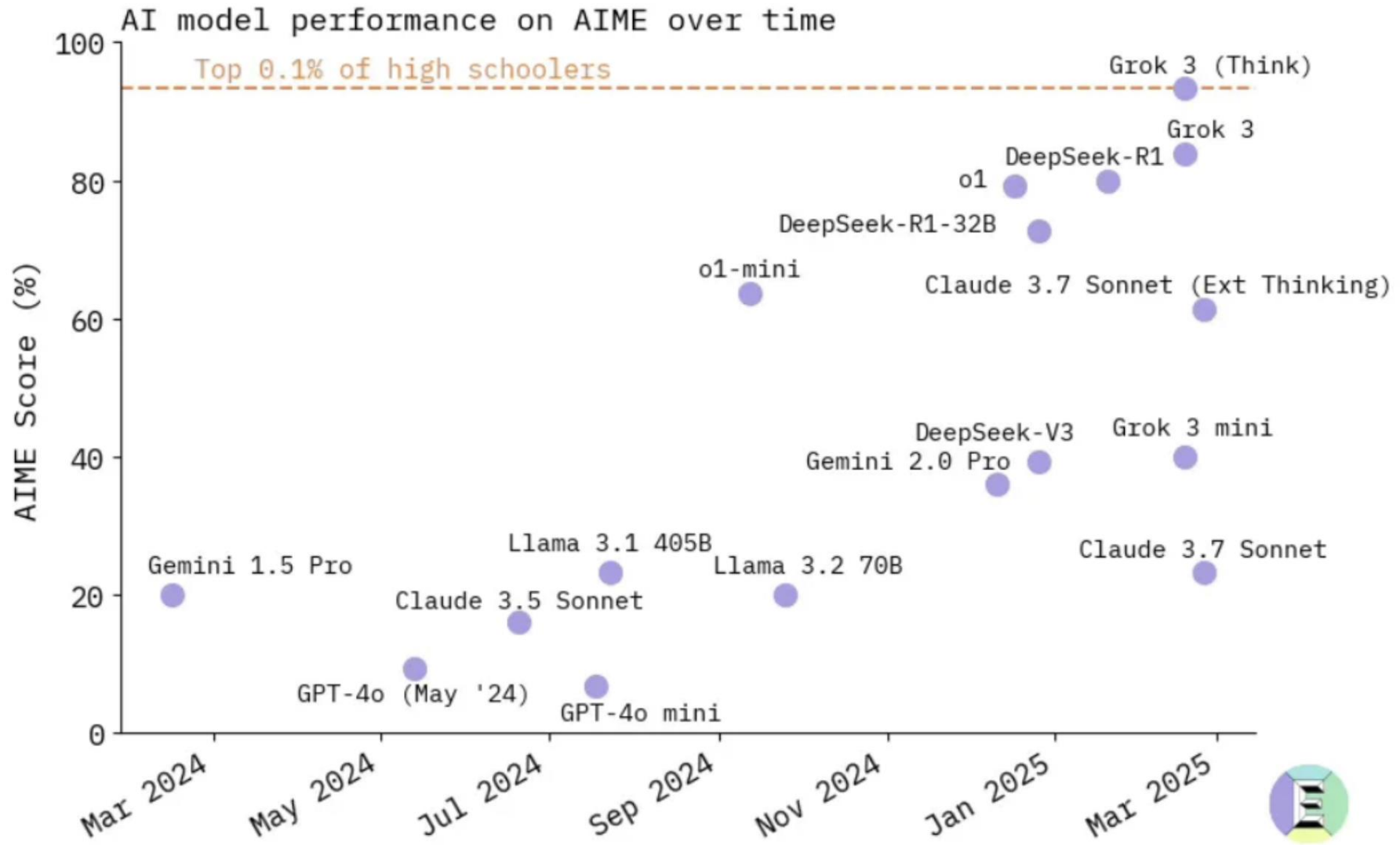


**”Probabilistic”**

# Apple tvingas ta bort reklam



# AI math skills now match top student performers



Exponential View. Source: MathArena.ai, AoPS



# Skifte 1: Generativ AI kommer (troligtvis) påverka varenda organisation



# Det 21:a århundradets utmaning

*”Managements viktigaste bidrag under 1900-talet var att femtiofaldiga de manuella arbetarnas produktivitet. Managements viktigaste bidrag under 2000-talet kommer att vara att **öka kunskapsarbetarnas produktivitet - förhoppningsvis med samma procentsats.**”*

*Peter F. Drucker, in “Management challenges of the 21<sup>st</sup> Century”, 1999*

# Draghi rapporten konstaterar att vi behöver en kraftig produktivitetsökning

- “The EU is entering the first period in its recent history in which **growth will not be supported by rising populations.**
- By 2040, the workforce is projected to shrink by close to 2 million workers each year. We will have to lean more on **productivity** to drive growth.
- The only way to [compete with the USA and China] is to grow and become more productive, preserving our values of equity and social inclusion.”

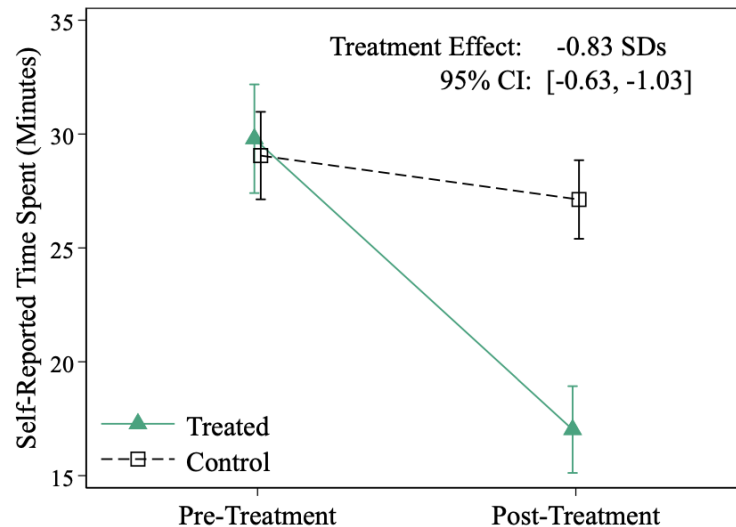


# Hur mycket ökar produktiviteten med Generativ AI?

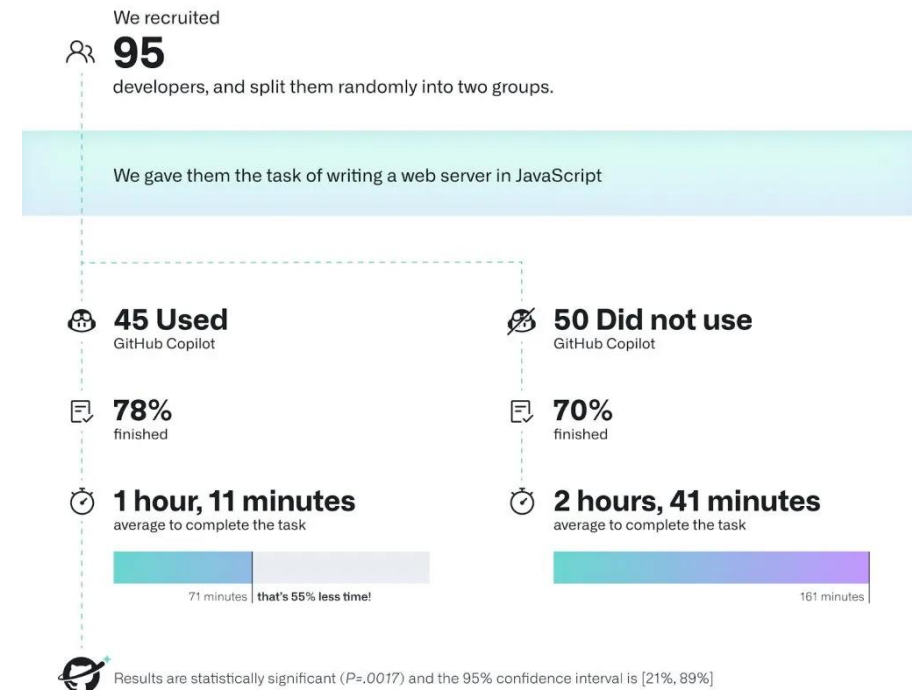
Skriv: 60% snabbare med ChatGPT

Kodning med Copilot: 128%

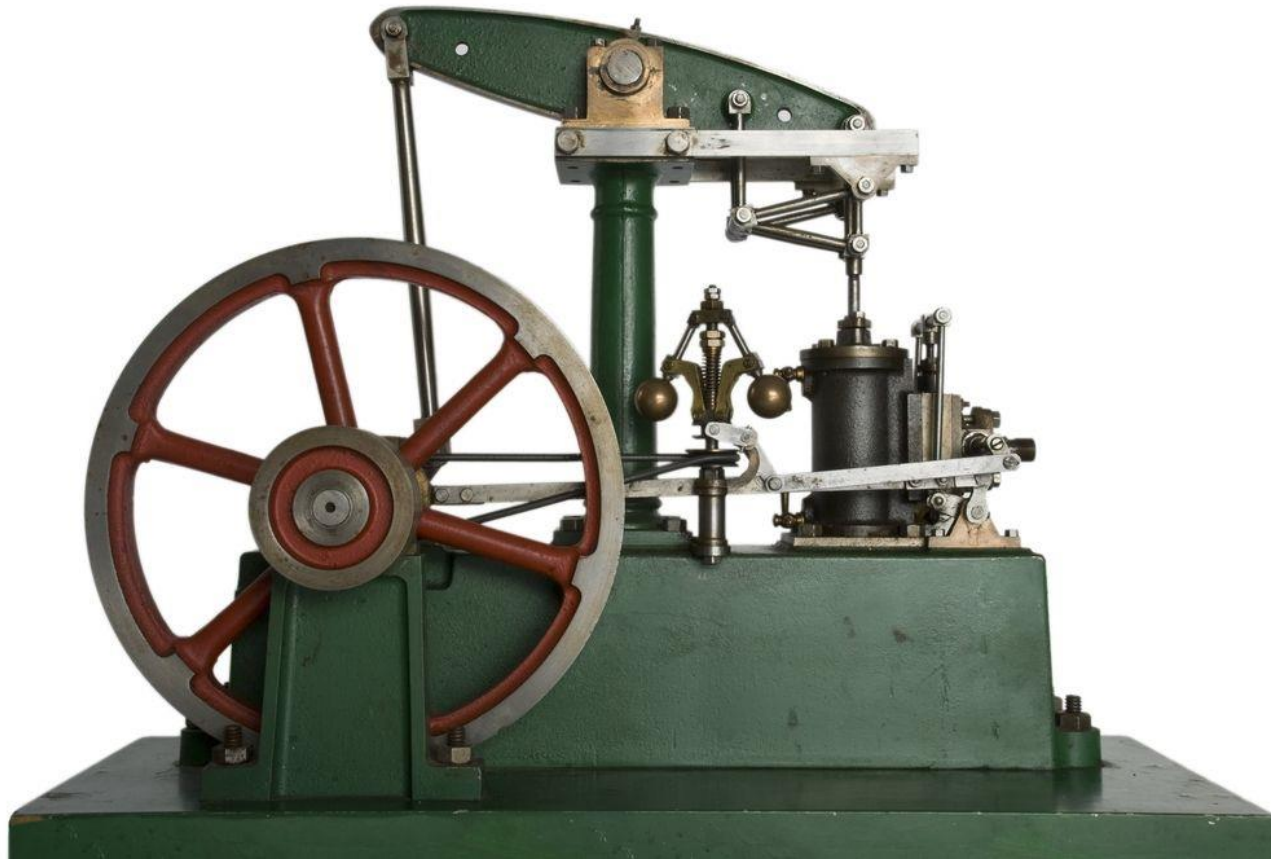
(a) Time Taken Decreases



(c) Time Distribution (Second Task)



# AI-revolution > ångkraft?



# 25%

# Generativ AI har gjort entré på arbetsplatsen

44%

*av svenskar med 3+ års utbildning har testat  
generativ AI*

26%

*av svenskar med 3+ års utbildning använder  
generativ AI i arbetet*

Kairos Future, 2023

# Hur mycket sparar vi

*Svenskar med 3+ års högskoleutbildning, juni 2023*

Förväntad arbetstidsbesparing med  
generativ AI (bland icke-användare)

15%

Observerad arbetstidsbesparing med  
generativ AI (bland användare)

27%

# human or not?

A Social Turing Game.

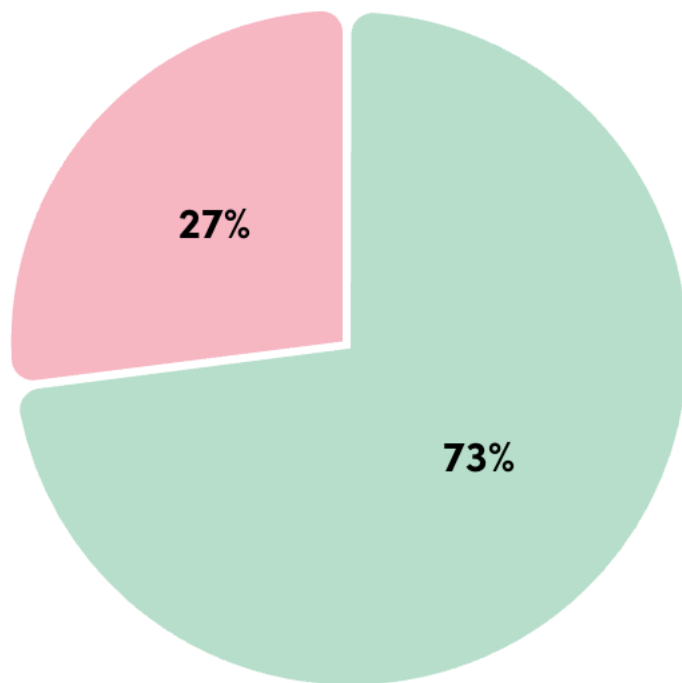
Chat with someone for two minutes, and try to figure out if it was a fellow human or an AI bot.

Think you can tell the difference?

**Start Game**

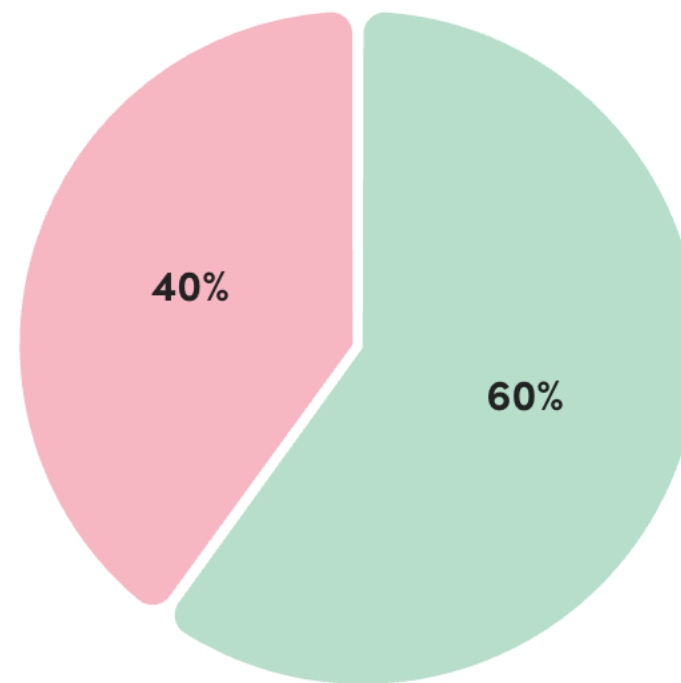
### Talking to Humans

Correct Guess Wrong Guess

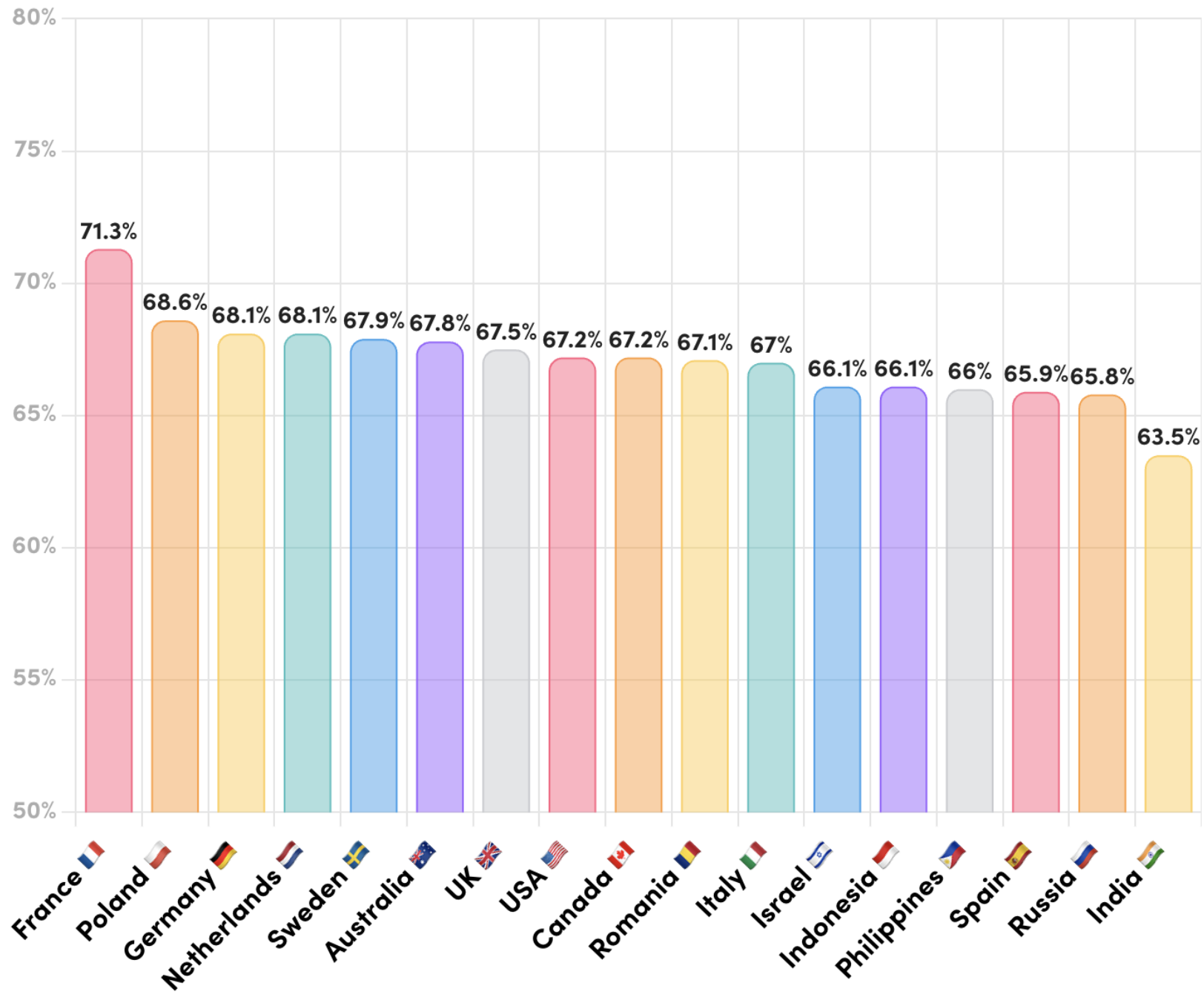


### Talking to Bots

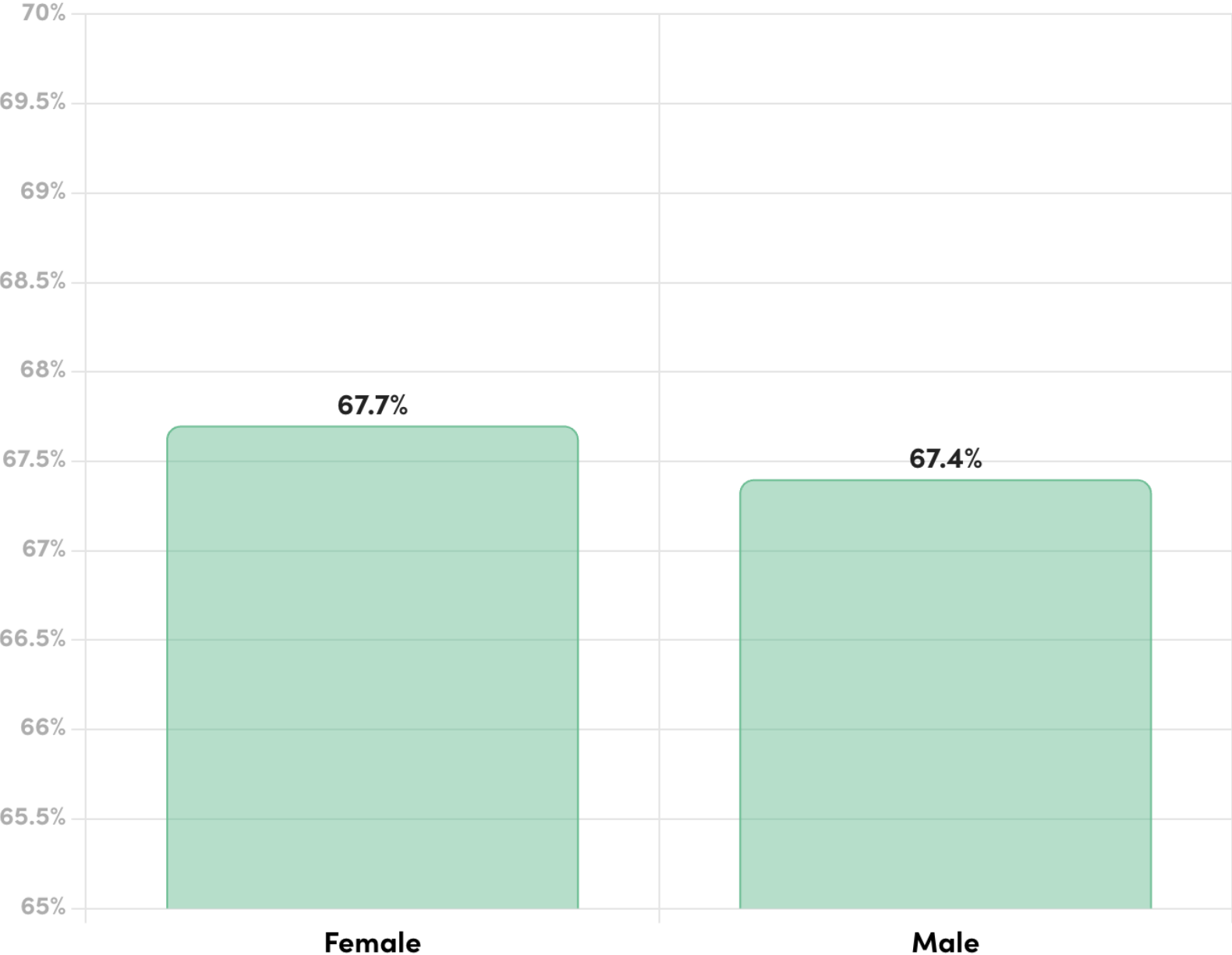
Correct Guess Wrong Guess



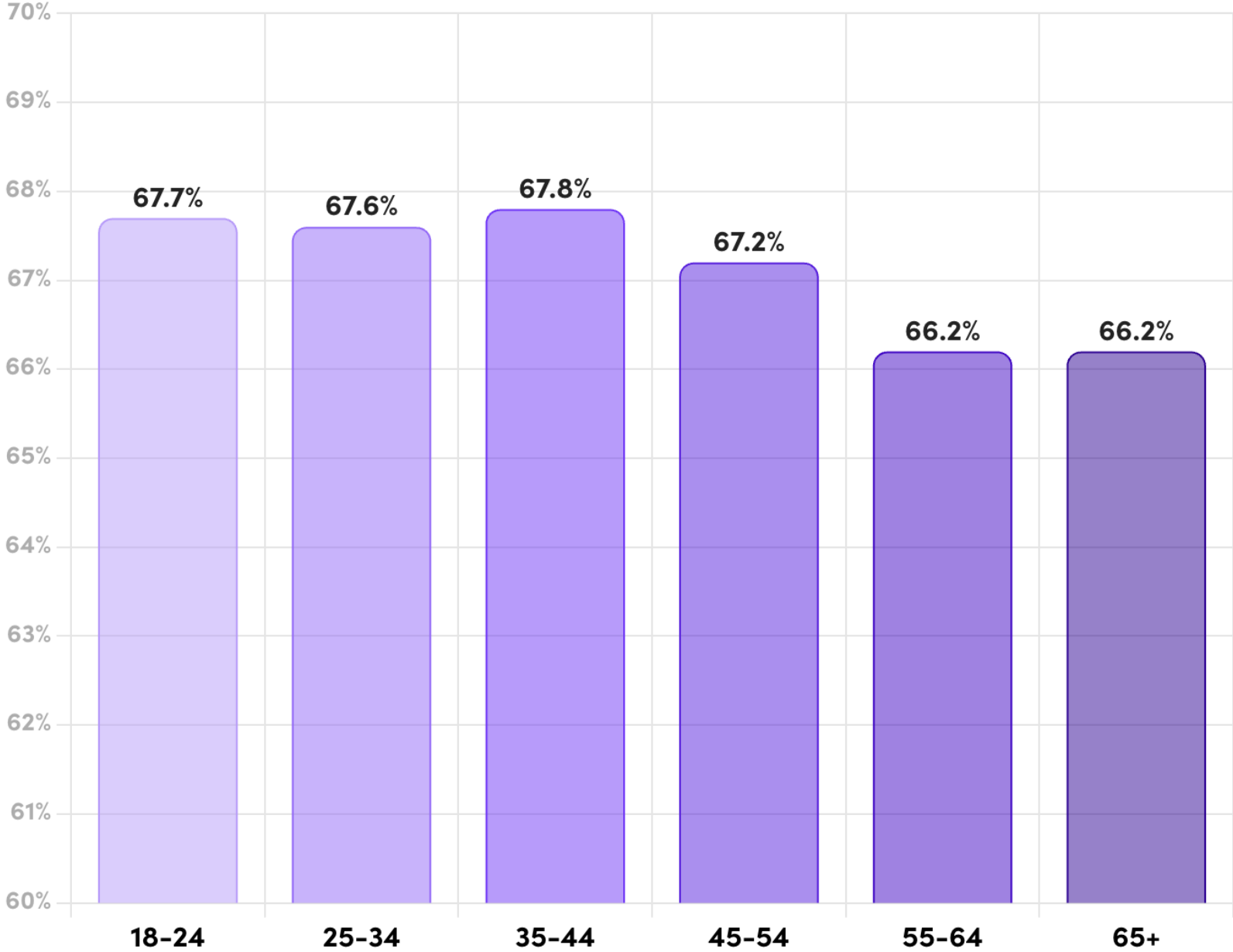
## Correct guesses by country



Correct Guess by Gender



Correct guess by age group





# Är AI redan den nya kollegan?

*Andel av dem som testat generativ AI*

39%

*säger hej och tack  
i interaktioner med chattbottar*

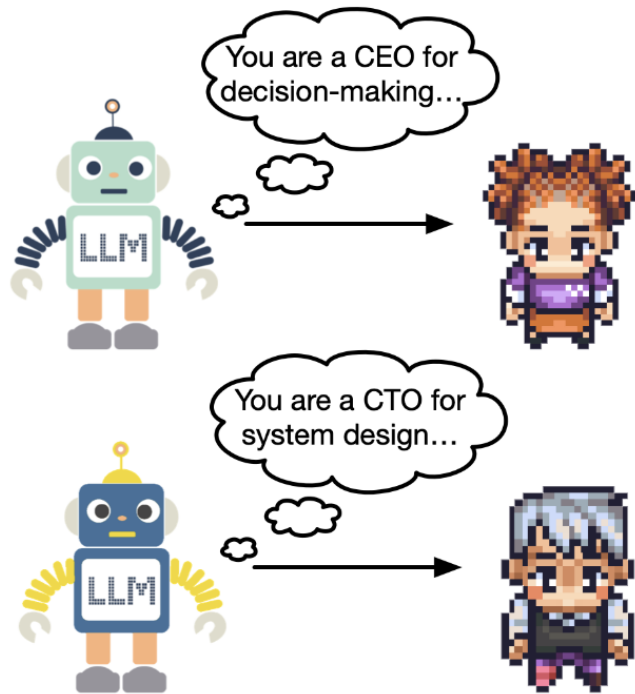


# Skifte 2: Från omöjligt till lönsamt

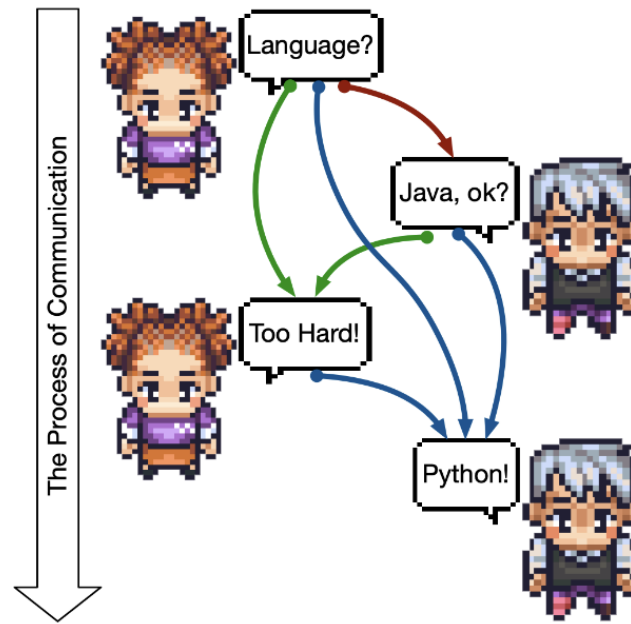


# Ett helt digitalt utvecklingsteam?

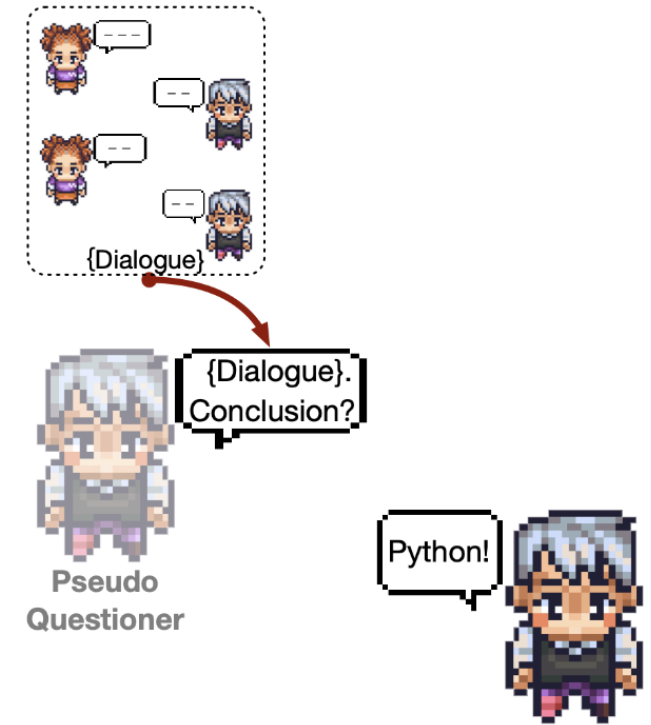




(a) Role Specialization



(b) Memory Stream



(c) Self-Reflection

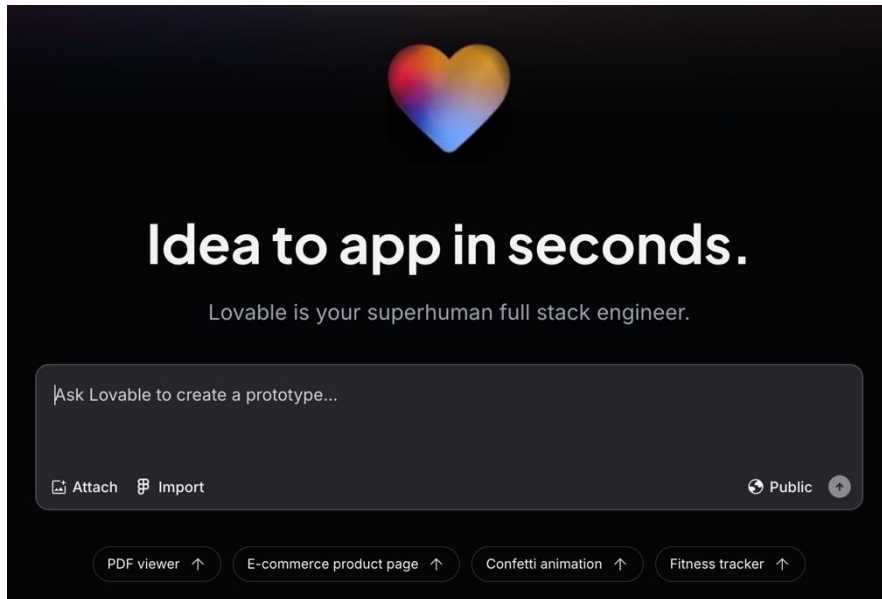
**”I genomsnitt genererade CHATDEV 17,04 filer per programvara, minskade potentiella sårbarheter i koden orsakade av kodhallucinationer 13,23 gånger, hade en produktionstid för programvara på 409,84 sekunder och en tillverkningskostnad på 0,2967 USD.”**




# Rakettillväxt för svensk AI: "Många i Silicon Valley tycker vi är bäst"

Svensk AI-succé: Lovable bygger appar  
åt dig

Hajpade AI-bolaget Lovable stänger stor  
runda: "Potential att utlösa en unik nivå av  
innovation"






Help me create a very simple budgeting app for myself where I can get personalized tips from an LLM. It should be able to import my bank statements and analyze them and create spending categories and spending recommendations. And possibly more if you recommend any other functions. Make it modern and minimalistic.



 Attach  Import


 Public






 pocket-pal-pro






 index





Publish


Help me create a very simple budgeting app for myself where I can get personalized tips from an LLM. It should be able to import my bank statements and analyze them and create spending categories and spending recommendations. And possibly more if you recommend any other functions.


 Lovable


I'll help you create a personal budgeting app with LLM-powered tips! This project evokes

Ask Lovable...


 Attach


 Edit






Spinning up preview...

 Select specific elements to modify

 Upload images as a reference

 Instantly preview your changes

Consultants for Strategic Futures.

KAIROS  
FUTURE

2. The Progress component doesn't accept an indicatorClassName prop

Let's fix these issues one by one:

<> Fix: Import AreaChart from ui/chart >

View code

Restore Preview

These changes fix both errors by:

- Using the recharts library components directly instead of trying to import a non-existent AreaChart from the UI components
- Adding support for the indicatorClassName prop in the Progress component
- Using CSS custom properties to style the progress indicator colors dynamically for each category

The application should now render properly without those errors.

Error

Build unsuccessful

>

Ask Lovable...

+ Attach Edit

↑

BudgetWise

Dashboard Transactions AI Insights Import Data

Dashboard

Welcome to your financial overview

Import Transactions

Current Balance

\$3,113.27

Monthly Income

\$0.00

Monthly Expenses

\$5.25

Savings Rate

0.0%

Spending Overview

Track your spending over time

7 Days 30 Days Year

\$140

\$105

Top Categories

Last 30 days

Groceries

\$125.45

Dining Out

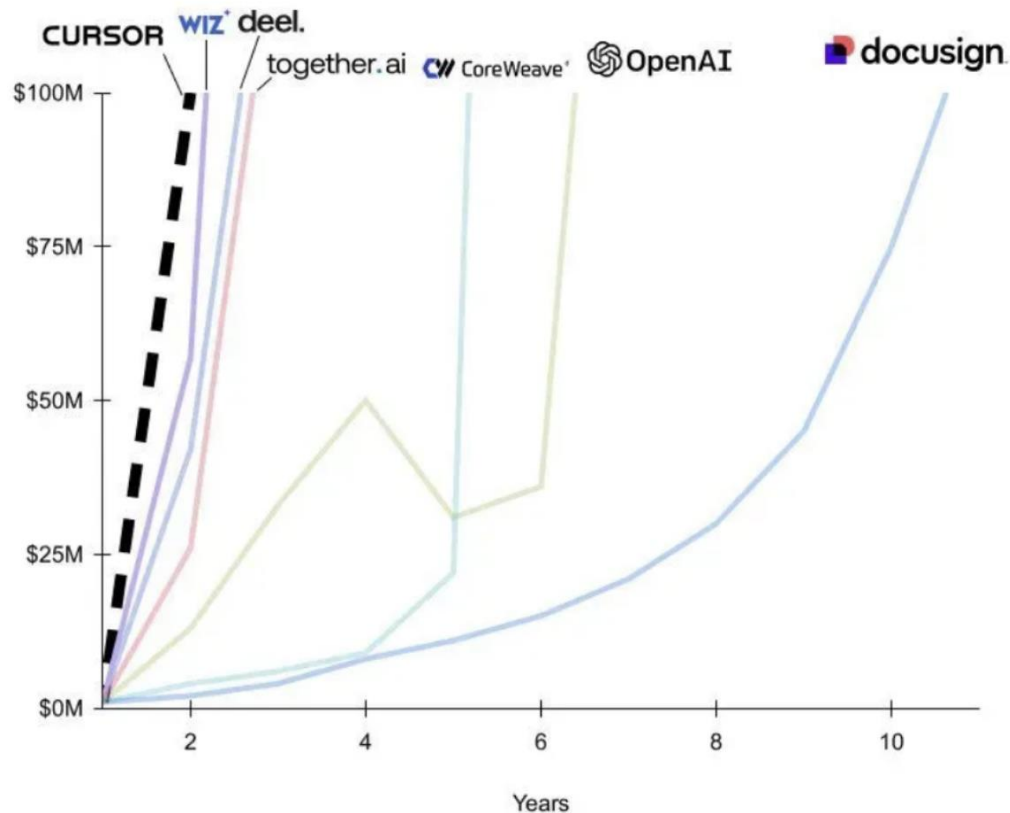
\$90.45

Utilities

\$45.80

# AI-assisted programming är det hetaste just nu

Years from \$1M to \$100M ARR



Consultants for Strategic Futures.



The screenshot displays the CURSOR AI-assisted programming interface. On the left, a code editor shows Rust code for a transport stack builder. On the right, a chat window is open with the prompt: 'How could I make it easier to switch certificates in the transport listeners?'. The chat response suggests leveraging the existing `TlsAccept` trait and provides a code snippet to modify the `get_certificates` function. The interface also includes a 'COMPOSER' tab and a 'CHAT' tab.

```
src > listeners > mod.rs
46  async fn get_certificates(&self, server_name: &str) -> Option<Vec<Certificate>> {
47      None
48  }
49
50  /// Called to get SNI-specific certificates
51  /// Returns a tuple of (certificate_chain_pem, private_key_pem)
52  async fn get_certificates_for_sni(&self, server_name: &str) -> Option<Vec<Certificate>> {
53      self.get_certificates().await // Fall back to default
54  }
55
56
57  pub type TlsAcceptCallbacks = Box<dyn TlsAccept + Send>
58
59  #[derive(Default)]
60  pub struct TlsConfig {
61      pub cert_path: Option<String>,
62      pub key_path: Option<String>,
63      pub tls_accept: Option<TlsAcceptCallbacks>,
64  }
65
66  struct TransportStackBuilder {
67      l4: ServerAddress,
68      tls: Option<TlsSettings>,
69      tls_config: Option<TlsConfig>,
70  }
71
72  impl TransportStackBuilder {
73      pub fn build(&mut self, #[cfg(unix)] upgrade_listener: Option<UpgradeListener>,
74                  TransportStack {
```

CHAT COMPOSER

mod.rs Current File

How could I make it easier to switch certificates in the transport listeners?

I can help you enhance the certificate flexibility by leveraging the existing `TlsAccept` trait. Here's how we can modify the code to make certificate switching easier:

mod.rs Done x Reject ✓ Accept

```
// ... existing code ...

/// The APIs to customize things like certificate data
#[async_trait]
pub trait TlsAccept {
    /// Called during TLS handshake to provide certificates
    /// Returns a tuple of (certificate_chain_pem, private_key_pem)
    /// Default implementation returns None, allowing for a custom implementation
    async fn get_certificates(&self) -> Option<Vec<Certificate>> {
        None
    }

    /// Called to get SNI-specific certificates if a server name is provided
```

+ mod.rs Current File x

Ask followup (⌘Y), ↑ to select

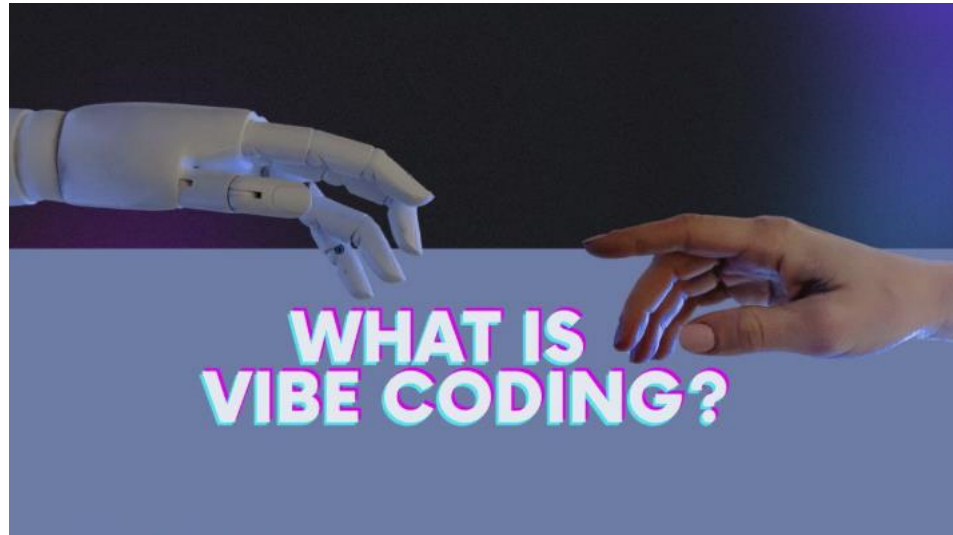
~ claude-3.5-sonnet @ Mention Image chat ⌘ codebase ^

KAİROS  
FUTURE

# Silicon Valleys senaste grej: Vibe Coding



/ innovation



**What is AI vibe coding? It's all the rage but it's not for everyone - here's why**



# FINANCIAL TIMES

US COMPANIES TECH MARKETS CLIMATE OPINION LEX WORK & CAREERS LIFE & ARTS HTSI

Cyber Security

+ Add to myFT

## Arup lost \$25mn in Hong Kong deepfake video conference scam

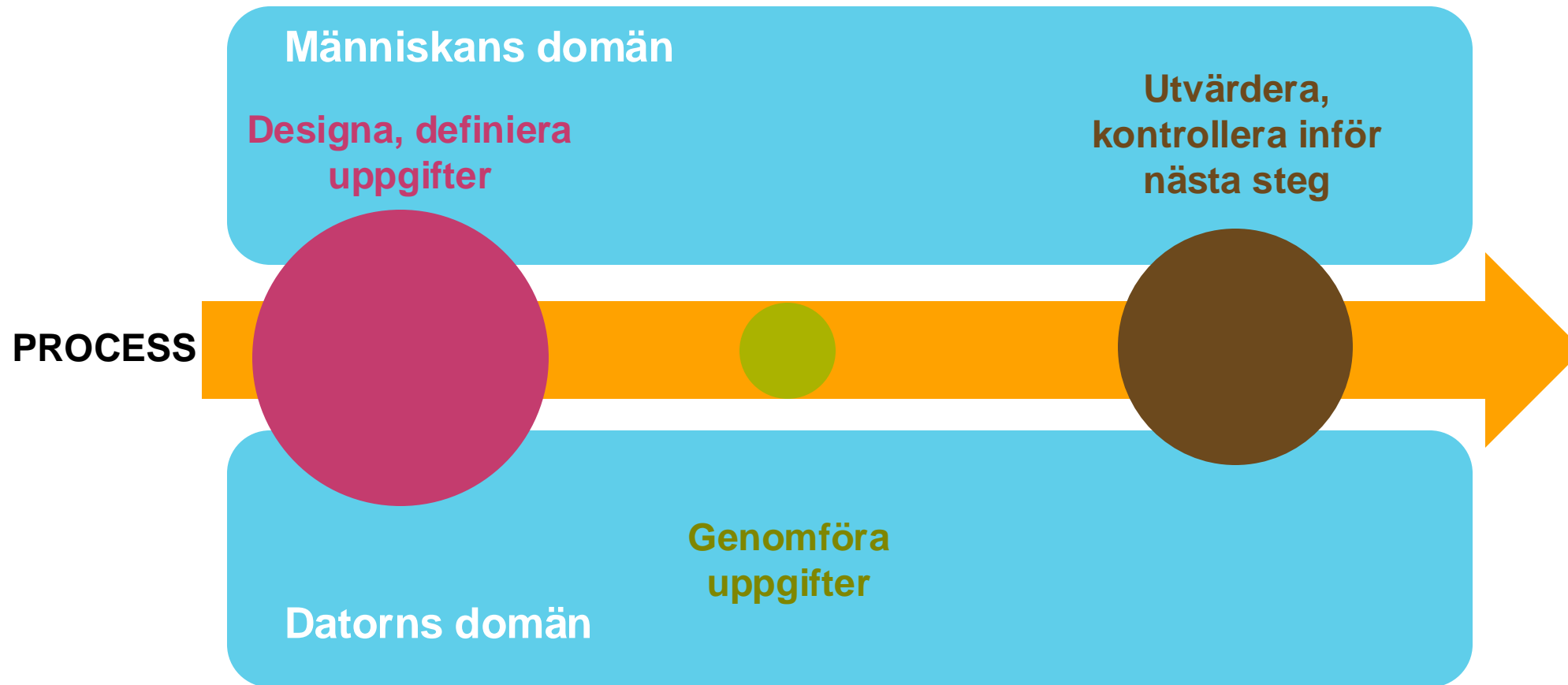
UK-based engineering group identified as target of fraud that used digitally cloned CFO to trick staff



# Skifte 3: Från medarbetare till chefer



# AI-fieringen: alla blir chefer

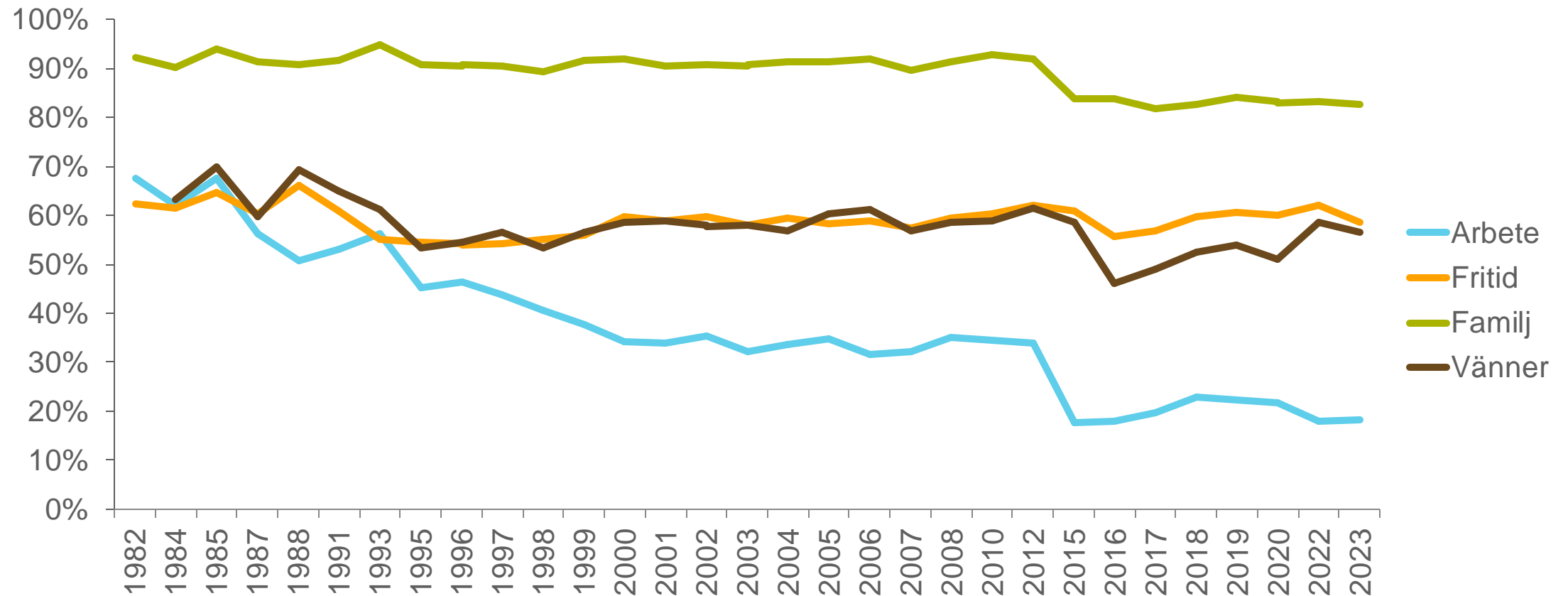


# Sammanfattning:

- **AI kommer (troligtvis) påverka allt och alla**
- **Från omöjligt till lönsamt**
- **Från medarbetare till chefer**

# Arbetet sjunker som meningsskapare

*Andel som ser följande som viktigt för mening i livet*



# Tack för idag!

**[olivier.rostang@kairosfuture.com](mailto:olivier.rostang@kairosfuture.com)**



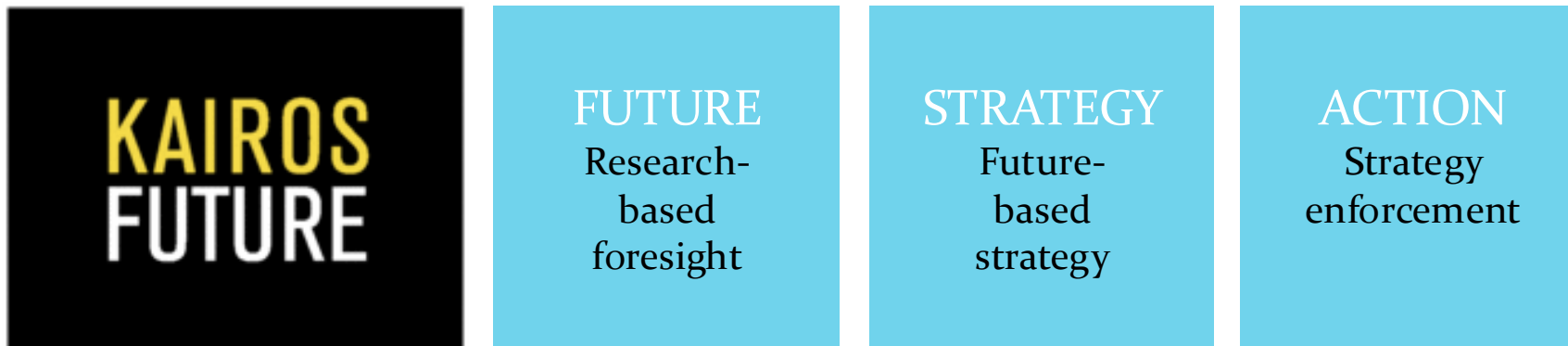
**Olivier Rostang** (He/Him)



**Få nyhetsbrevet om AI:**



# Vi hjälper företag och organisationer att förstå och forma framtiden



Kairos (καιρός)  
är det antika grekiska begreppet för  
rätt tid eller tid för förändring.