



Tuesday, June 22, 2010

Spread Networks Offers New "Lowest" Latency Route Between New York and Chicago

Global Markets Crashed Because Algorithms Saw War First



Analyst Uttam

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14 min read · Mar 1, 2026

PRIVATE

Wired for AI: The Present and Future of Artificial Intelligence in Energy

Rasmus Tranås, PhD, Sr. Data Scientist, Montel

Nord Pool Market Forum 2026, 2026-05-20

Introduction

AI in the present:

- forecasting
- data centers
- AI spending and bubble

Introduction

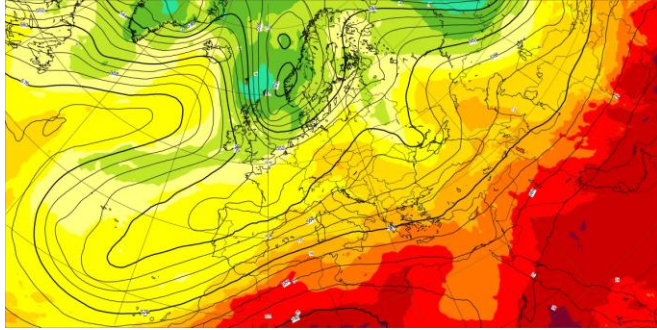
AI in the present:

- forecasting
- data centers
- AI spending and bubble

AI in the future:

- prompt-and-response vs agents
- agentic markets
- geopolitical risks
- cybersecurity

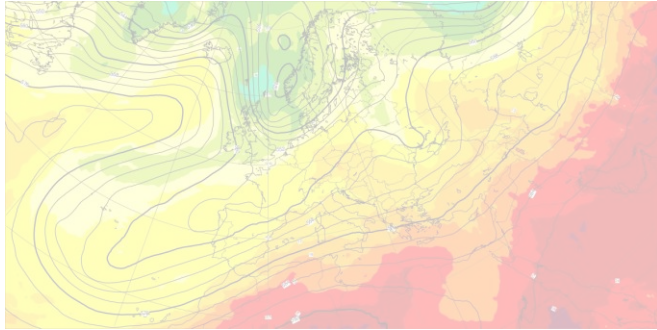
AI Enhances Weather Forecasts



Google DeepMind's weather AI can forecast extreme weather faster and more accurately

"It showed that these models are so good that we cannot avoid them anymore," he says.

AI Enhances Weather Forecasts



ECMWF's ensemble AI forecasts become operational

1 July 2025

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NEWS Hybrid forecasting: nudging large scales of the IFS to the deterministic AIFS

Inna Polichtchouk, Mariana Clare, Matthew Chantry, Michael Maier-Gerber, Simon Lang

Recently, weather forecasting models based on machine learning (ML) have surpassed physics-based models in their ability to predict large-scale weather patterns. However,

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AI Reshapes the Forecast Spectrum, From Minutes to Days

EC AIFS → days-weeks

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EC AIFS → days-weeks

Hyperlocal weather just got smarter: Google Maps Platform's Weather API, powered by MetNet, is now Generally Available

GraphCast: AI model for faster and more accurate global weather forecasting

Satellite images, radar, and weather station observations

AI Reshapes the Forecast Spectrum, From Minutes to Days

EC AIFS → days-weeks

Danish met + Energinet:

- Solar Nowcast
- 6 H forecast, update 15 min, resolution ~ 1 km

ENERGINET

Hyperlocal weather just got smarter: Google Maps Platform's Weather API, powered by MetNet, is now Generally Available

GraphCast: AI model for faster and more accurate global weather forecasting

Satellite images, radar, and weather station observations

AI Itself is Now a Power-Market Fundamental

MONTEL

Aker og OpenAI skal etablere KI-anlegg i Narvik (230 MW)

(Montel) Aker har inngått et samarbeid med OpenAI og Nscale om KI-anlegget Stargate Norway i Narvik som skal være i drift mot utgangen av 2026.

1 minute read



AI Itself is Now a Power-Market Fundamental

MONTEL

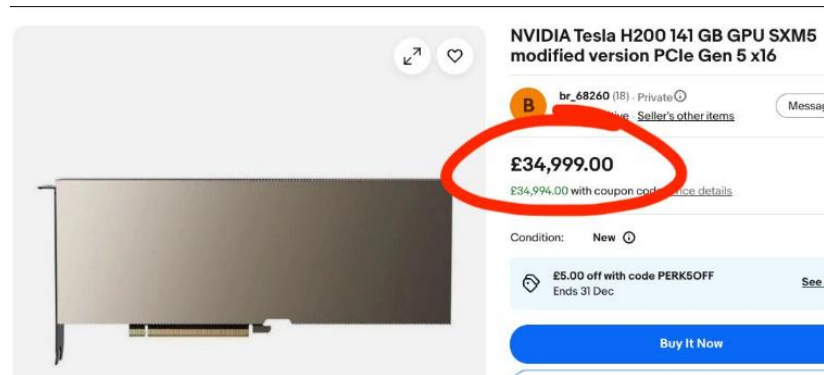
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1 minute read



- 230 MW with plans to expand 290 MW
- 100 000 GPUs



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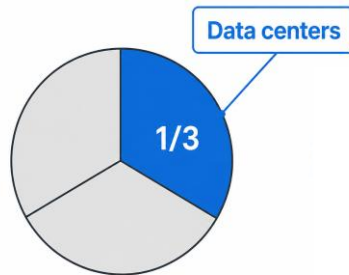
1 minute read

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PEXAPARK

Data centers are emerging as the largest single source of new renewable PPAs in Europe, already accounting for a third of the market.



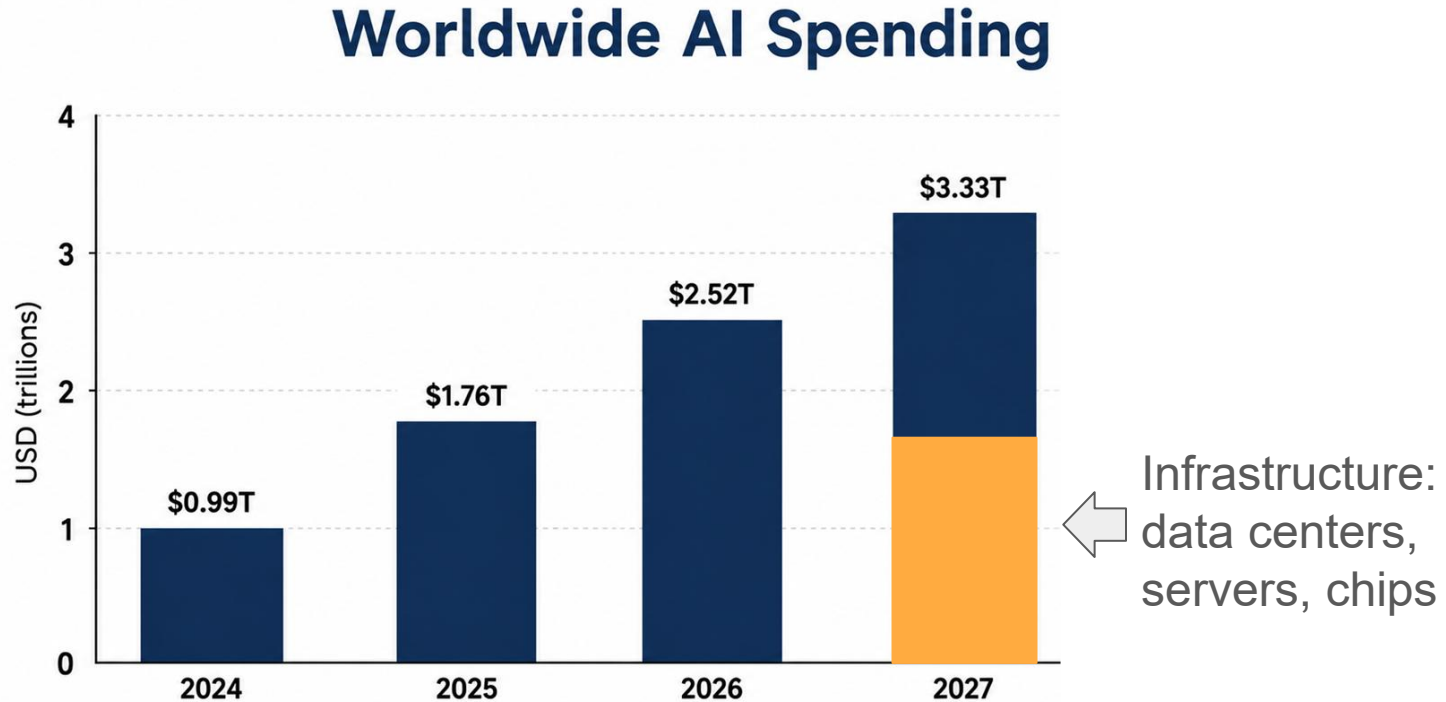
AI Spending Will Reach 2.5 trillion USD in 2026

Worldwide AI Spending



Source: Gartner, January 2026

AI Spending Will Reach 2.5 trillion USD in 2026

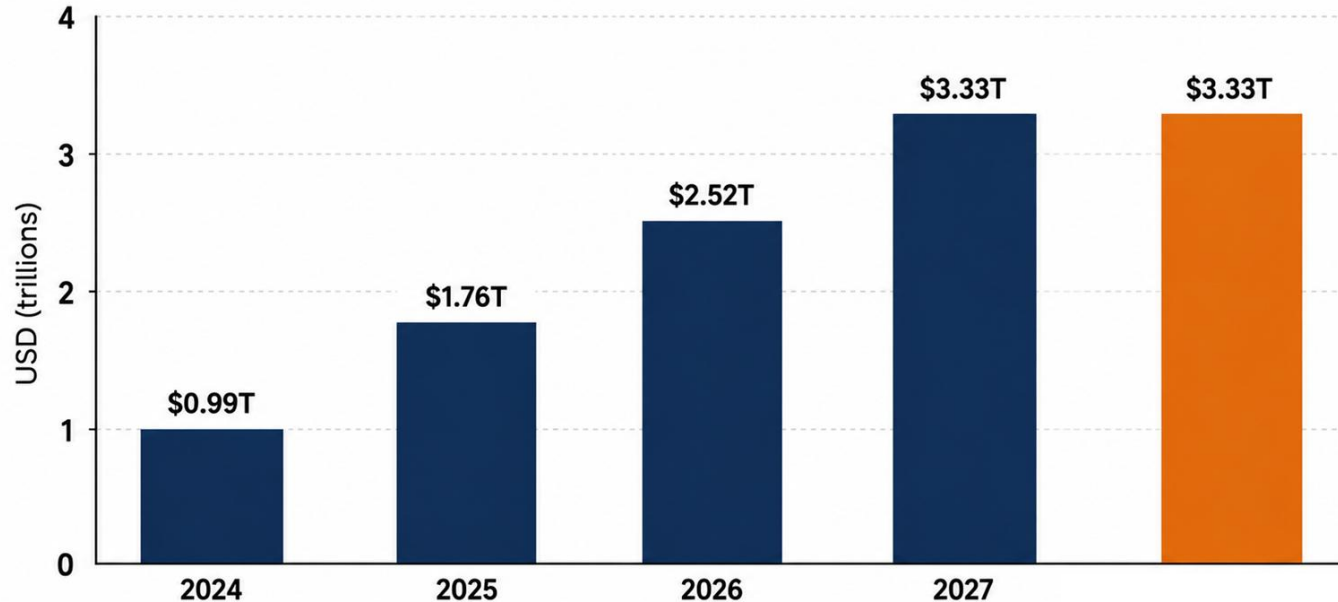


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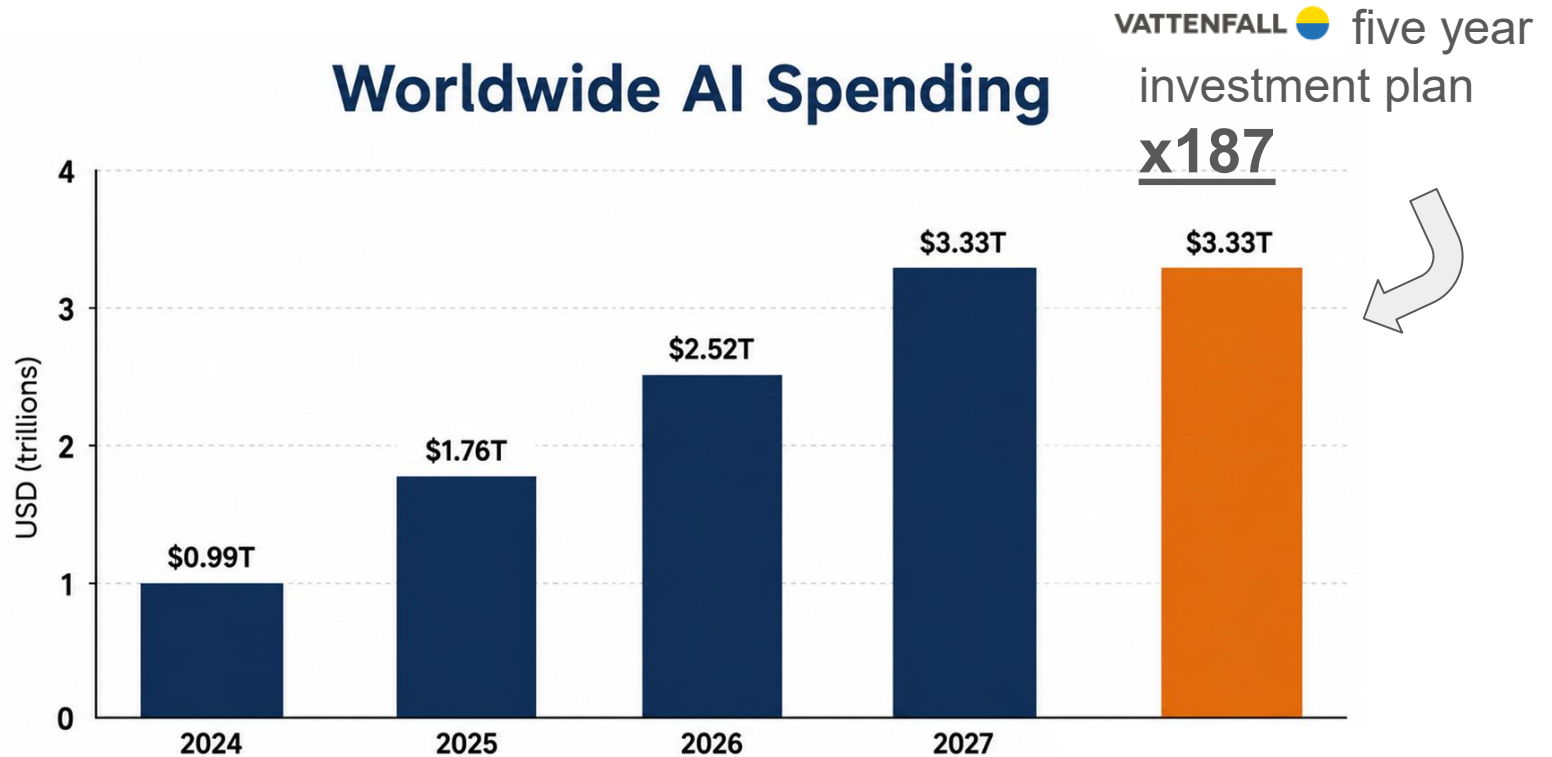
VATTENFALL  five year investment plan

Worldwide AI Spending



Source: Gartner, January 2026

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Nordic Public AI Spending is 1/500 of One American AI Project (Stargate)



- NO's AI-milliarden: 1 bil. NOK
- DK's digi fund: 1.1 bil. DKK
- SE's WASP: 6.4 bil. SEK

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US Stargate: **500 bil. USD** over four years

We provide energy for the AI boom, but do not drive it.

AI is Moving from Assistant to Agent, Prompt-And-Respond to Autonomous Task Completion

Hva står på agendaen i dag?

+ Spør om hva som helst

Instant ▾



☀ Back at it, Rasmus

How can I help you today?

+

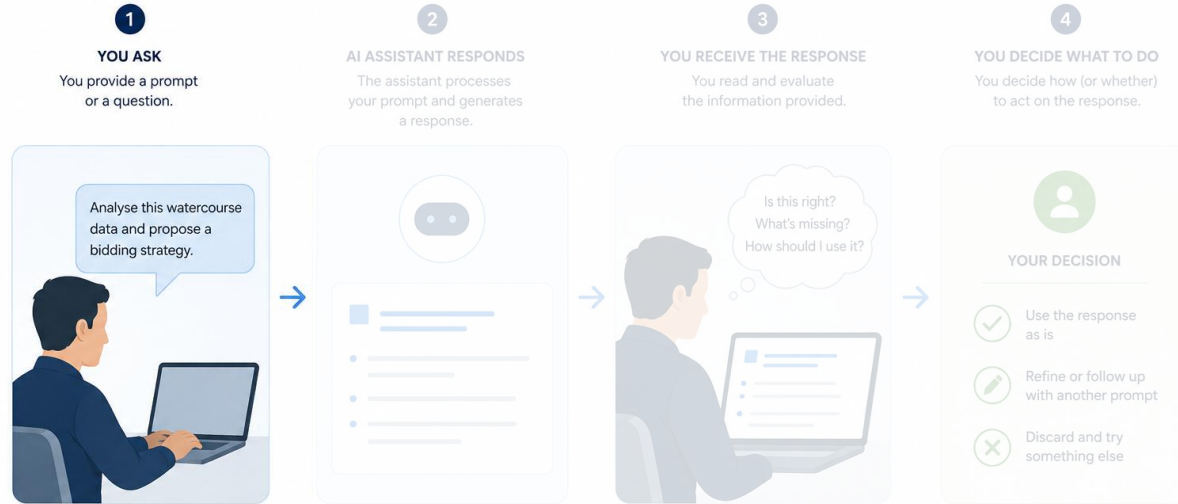
Opus 4.7 ▾



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AI ASSISTANT: THE PROMPT-AND-RESPOND PATTERN

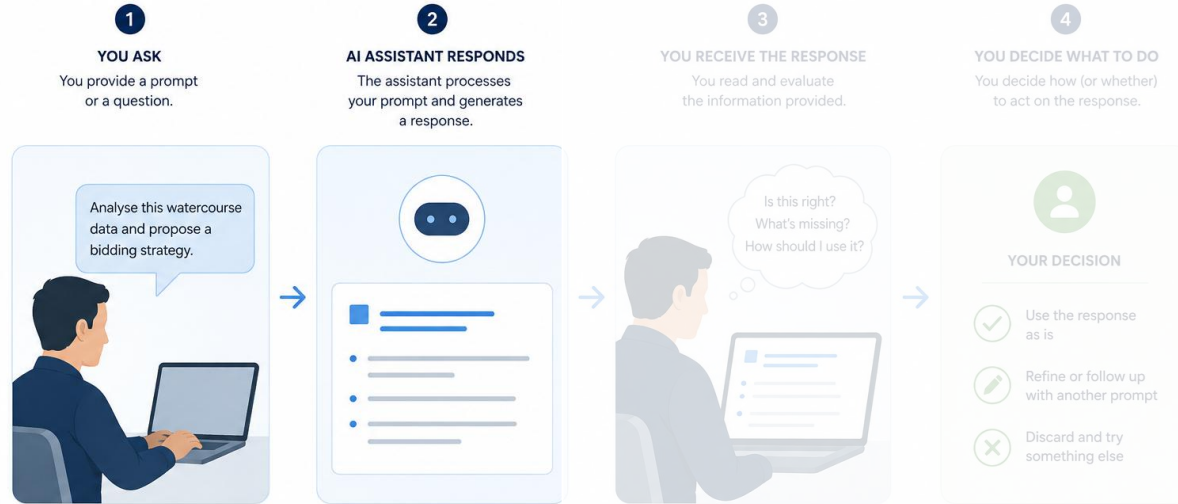
You ask. It responds. You decide what to do with the response.



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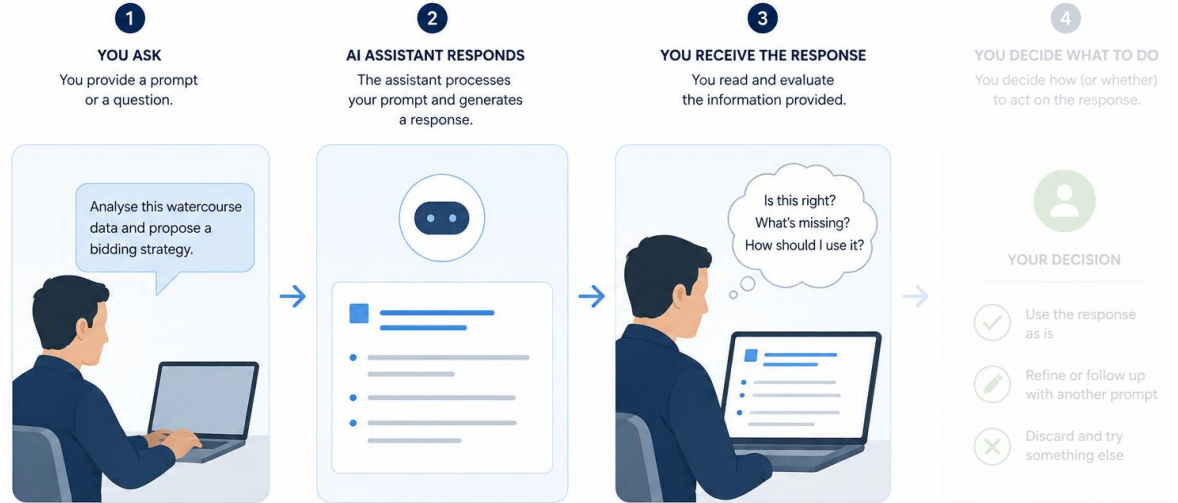
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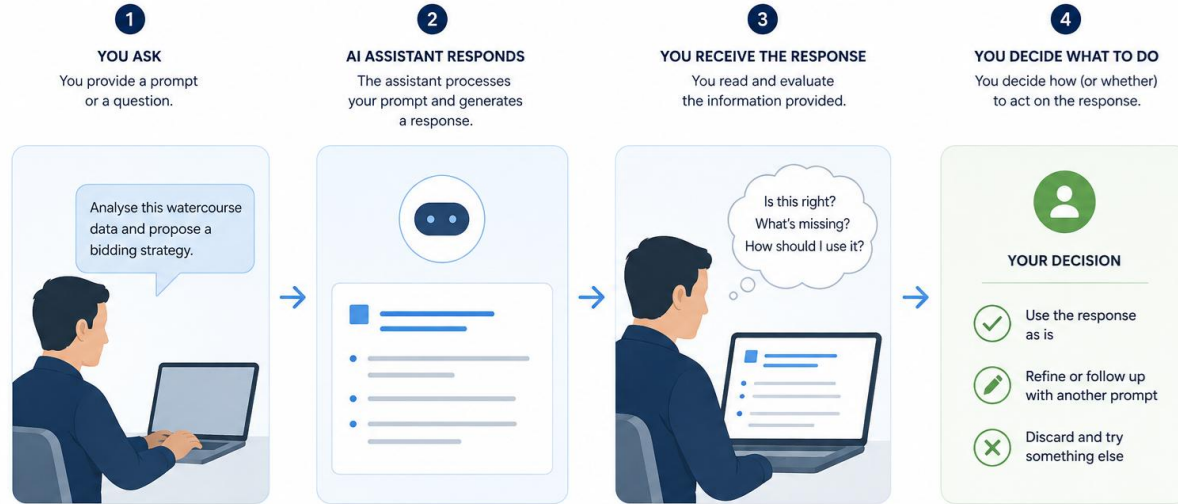
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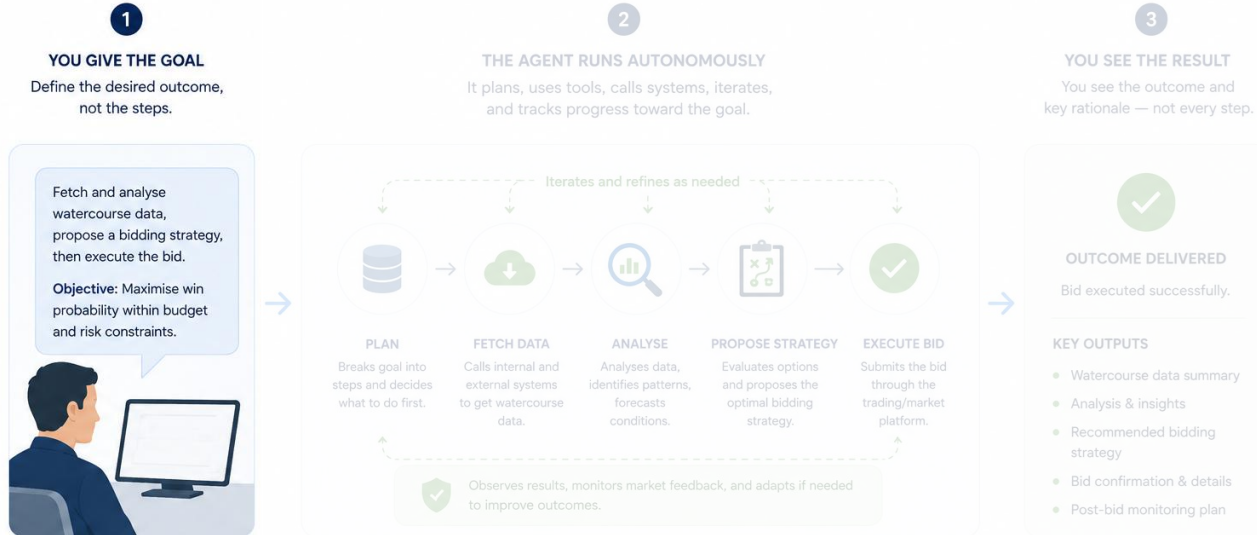
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AI AGENT: GOAL-DRIVEN AND AUTONOMOUS

You give it a goal — and it runs. It uses tools, calls other systems, iterates, and delivers the result.



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1

YOU GIVE THE GOAL

Define the desired outcome, not the steps.

Fetch and analyse watercourse data, propose a bidding strategy, then execute the bid.

Objective: Maximise win probability within budget and risk constraints.



Anthropic (Claude creator) Service Usage Nov.-Feb.

3

YOU SEE THE RESULT

You see the outcome and key rationale — not every step.



OUTCOME DELIVERED

Bid executed successfully.

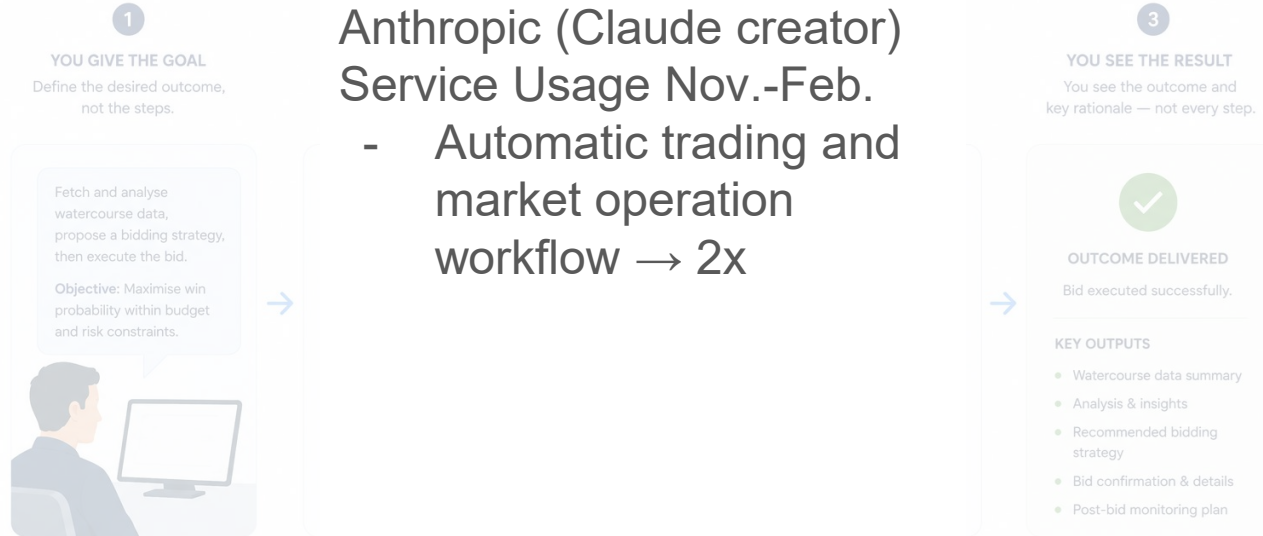
KEY OUTPUTS

- Watercourse data summary
- Analysis & insights
- Recommended bidding strategy
- Bid confirmation & details
- Post-bid monitoring plan

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Anthropic (Claude creator) Service Usage Nov.-Feb.

- Automatic trading and market operation workflow → 2x
- Monitoring positions
- Proposing investments
- Informing on market conditions

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Ganesh Bell: “A new computing fabric will emerge to manage more Agents at work than humans. The question isn’t if, but who builds it.”



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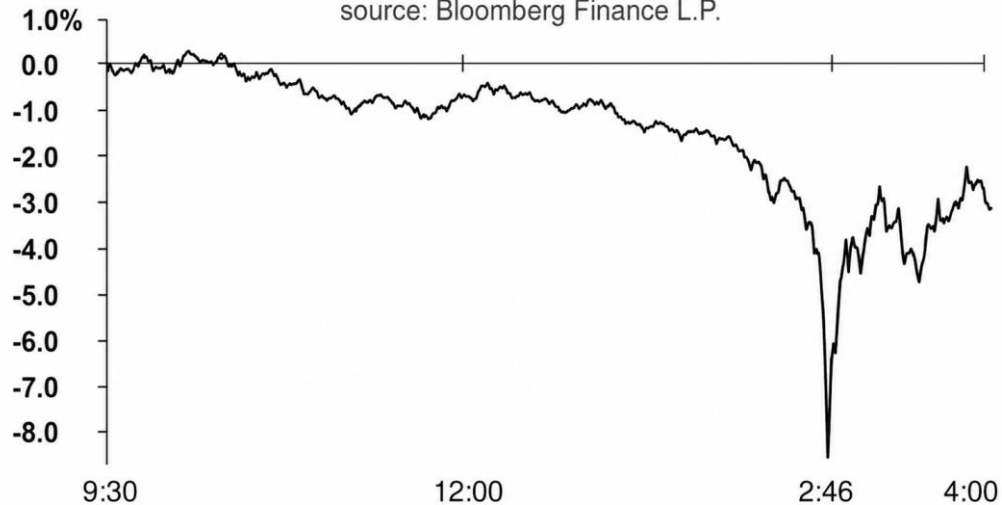
When Many Market Participants Run AI on Similar Data, The Market Might Start to Behave Differently

The “Flash Crash” of 2010

The "Flash Crash," May 6, 2010

Standard & Poor's 500 Index at one minute intervals

source: Bloomberg Finance L.P.



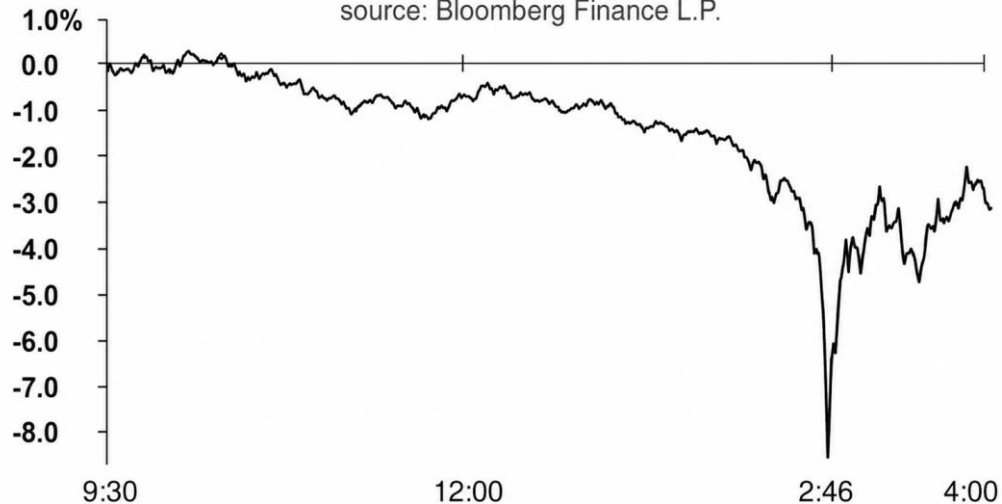
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- 14:32-15:08, 1 T USD lost and recovered

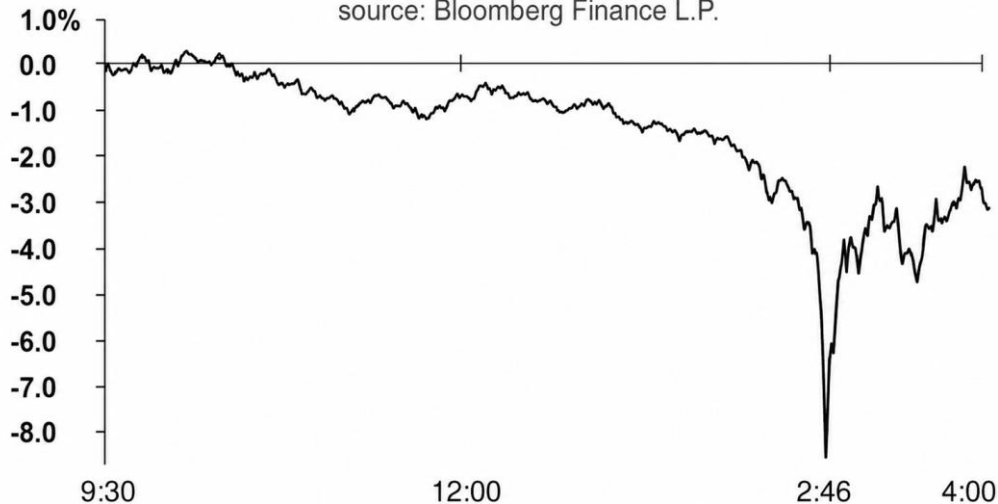
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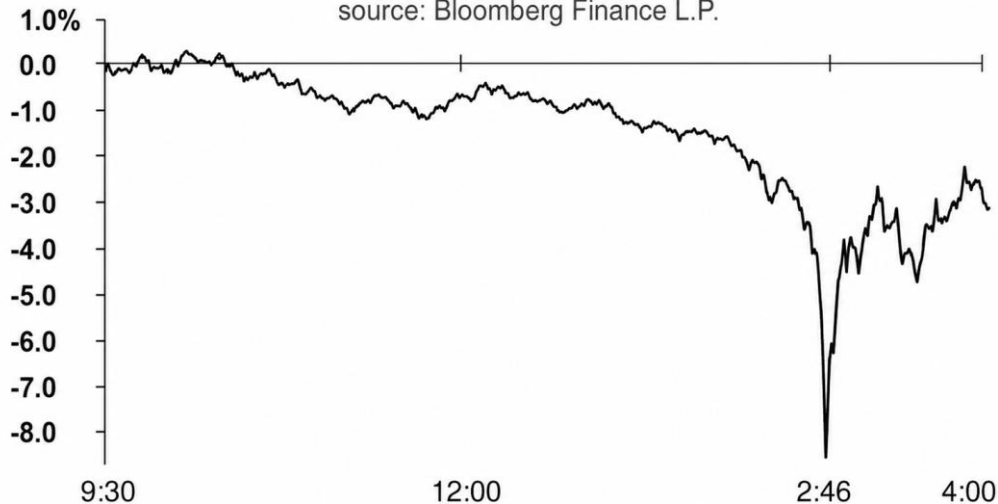
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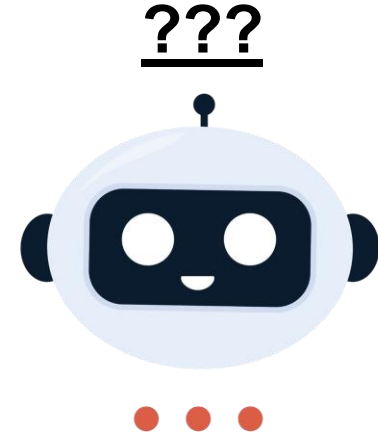
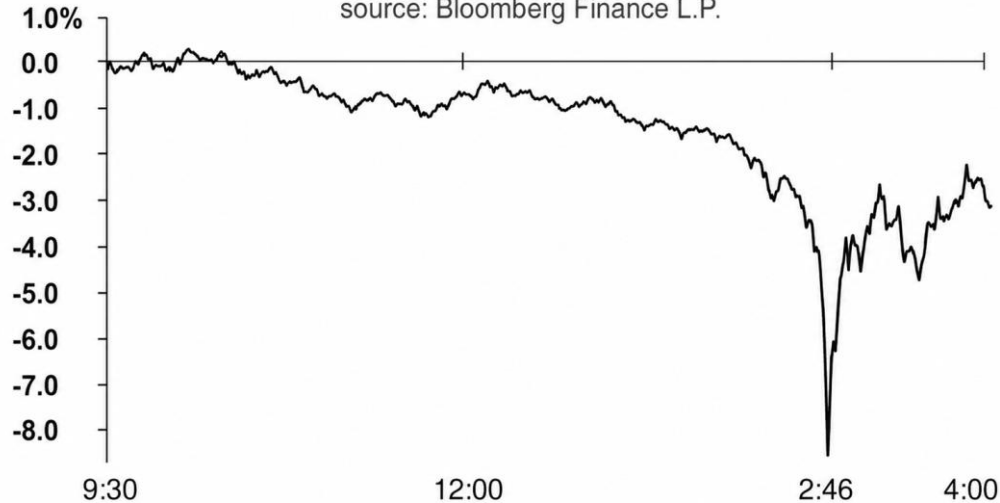
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- Exchange five-second circuit breaker

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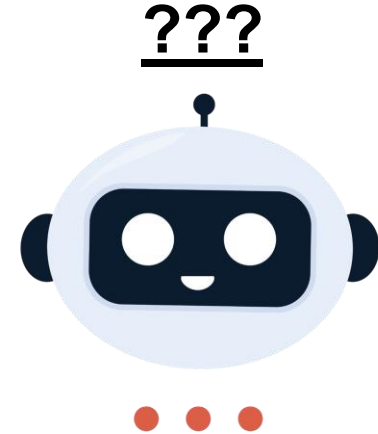
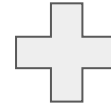
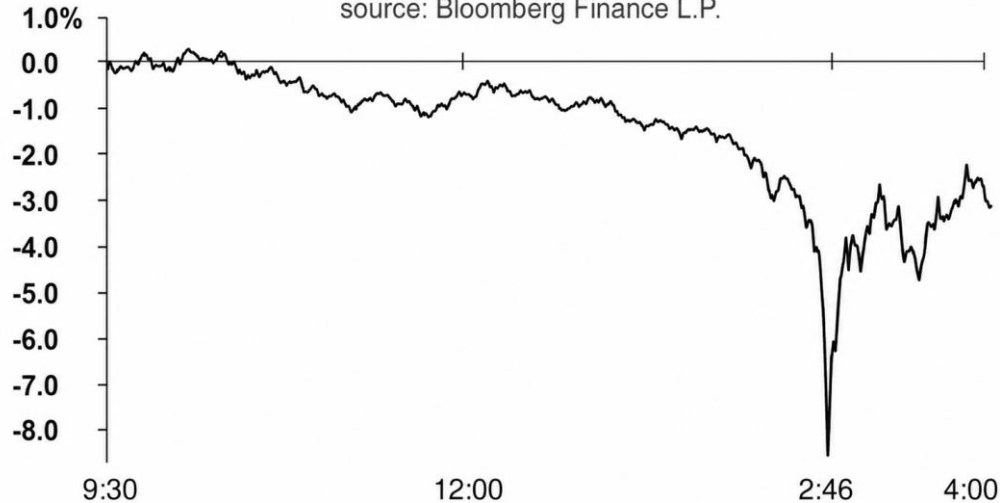


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Who is responsible?
What circuit breaker?

EU Regulations: Power Systems are High-Risk Under the EU AI Act

The EU Artificial Intelligence Act

Up-to-date developments and analyses of the EU AI Act

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The AI Act defines:

- Providers (builders)

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AI systems used in critical infrastructure → high risk category

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High risk regime: risk management, data governance, accuracy, robustness, and cybersecurity

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Recommended practice for assurance of AI-enabled systems (DNV-RP-0671)

[Download your copy](#)

Your AI Vendor is Now a Geopolitical Exposure

Major AI Model Providers by Jurisdiction

UNITED STATES	CHINA	EUROPEAN UNION
OpenAI GPT-5, ChatGPT	DeepSeek DeepSeek-V3, R1	Mistral AI (France) Mistral, Mixtral, Le Chat, Codestral
Anthropic Claude (Opus / Sonnet / Haiku)	Alibaba Qwen3	Aleph Alpha (Germany) Pharia
Google DeepMind Gemini 2.5	Baidu ERNIE 4	Black Forest Labs (Germany) FLUX (image)
Meta Llama 4	Moonshot AI Kimi	Silo AI (Finland) Poros, Viking [AMD-owned since 2024]
xAI Grok 4	Zhipu AI GLM-4.5	Pleias (France) Pleias multilingual open models
Microsoft Copilot, Phi	ByteDance Doubao	LightOn (France) Alfred
NVIDIA Nemotron	Tencent Hunyuan	

Snapshot, May 2026

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Anthropic Claude (Opus / Sonnet / Haiku)	Alibaba Qwen3	Aleph Alpha (Germany) Pharia
Google DeepMind Gemini 2.5	Baidu ERNIE 4	Black Forest Labs (Germany) FLUX (image)
Meta Llama 4	Moonshot AI Kimi	Silo AI (Finland) Poros, Viking [AMD-owned since 2024]
xAI Grok 4	Zhipu AI GLM-4.5	Pleias (France) Pleias multilingual open models
Microsoft Copilot, Phi	ByteDance Doubao	LightOn (France) Alfred
NVIDIA Nemotron	Tencent Hunyuan	

Already EU restrictions for AI, Italy fined OpenAI 15 Mil. euros.

Snapshot, May 2026

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So, what can happen if we build trading workflows, forecasting pipelines, report generators when...

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TRADE

Trump threatens EU with ‘much higher’ tariffs if no trade deal signed by new deadline

PUBLISHED FRI, MAY 8 2020-3:32 AM EDT | UPDATED MON, MAY 11 2020-7:28 AM EDT



World ▾ Business ▾ Markets ▾ Sustainability ▾ Legal ▾ Commentary ▾ Technology ▾ Investigation

China poses pressing threat, deterrence needed to avert invasion, Taiwan says

wire

Cyber Security

What the CLOUD Act Really Means for EU Data Sovereignty

The CLOUD Act allows U.S. authorities to access data stored in the EU, putting it in direct conflict with GDPR. Learn how this impacts data sovereignty and what EU businesses can do to stay compliant

Russian troops attack gas pipeline facilities – TSO

1 minute read

MONTEL

Trump threatens to “massively blow up” Iran’s South Pars Field

1 minute read

(Montel) US president Donald Trump warned on Thursday that the US would “massively blow up the entirety of the South Pars Gas Field” should Iran launch further attacks on Qatar’s LNG infrastructure.

PRIVATE

Your AI Vendor is Now a Geopolitical Exposure

Think about AI redundancy for in-house solutions as well as off-the-shelf products.

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Mistral AI



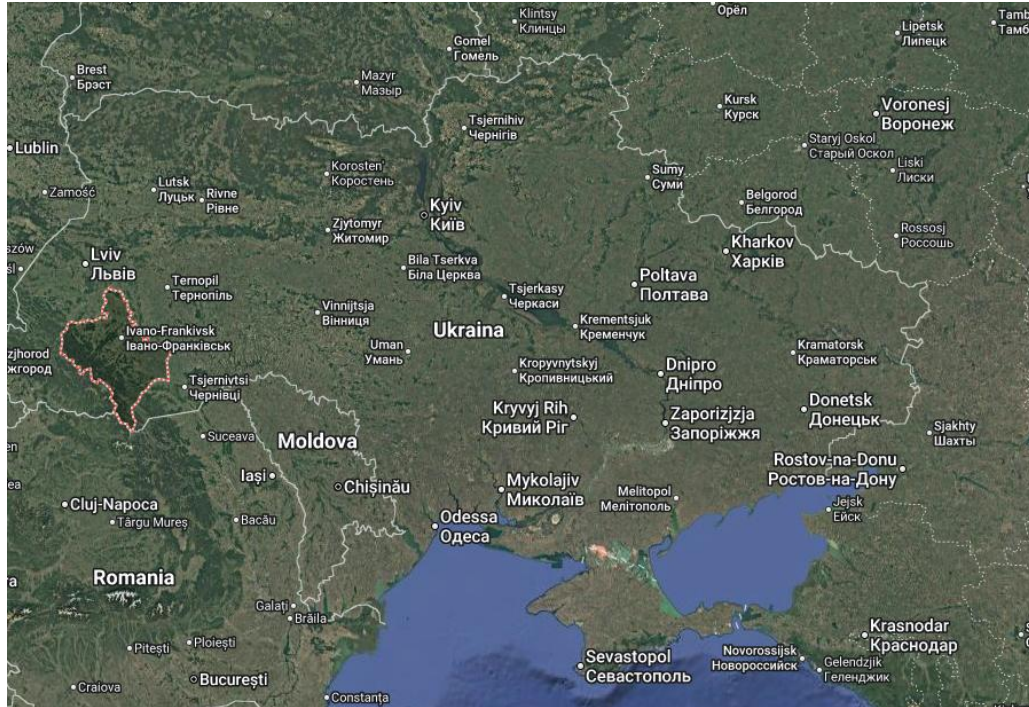
Your AI Vendor is Now a Geopolitical Exposure

Think about AI redundancy for in-house solutions as well as off-the-shelf products. The cost of having no Plan B when the world shifts can be enormous!

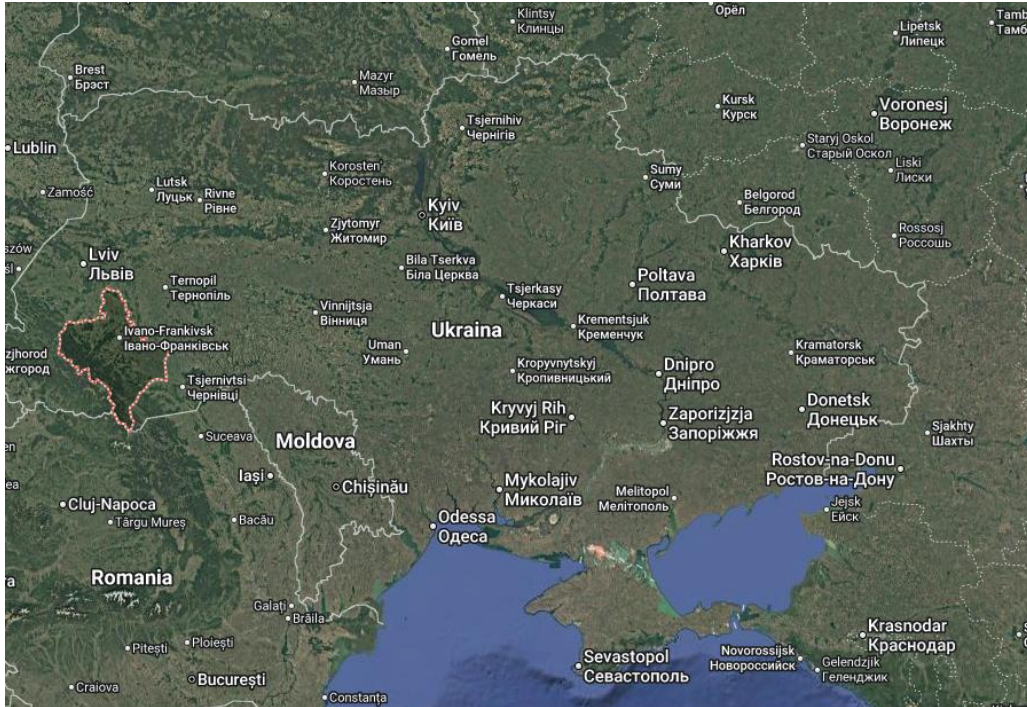


Mistral AI

Cybersecurity is “When, Not If”



Cybersecurity is “When, Not If”



Deeply integrated with Russian tech → **Exposed**

Cybersecurity is “When, Not If”

MONTEL

Norway’s use of Chinese drones raises energy security concerns

(Montel) The Norwegian oil and gas sector’s use of Chinese-made drones is raising security concerns in the country that is responsible for more than 30% of Europe’s gas consumption, with the practice being criticised by politicians.

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DefenseNews

4.2.2 Market shares

There are many different players in the global solar inverter market. However, it is dominated by a few companies and countries. Market data showing the actual installed capacity per manufacturer is not readily available. However, the market can be characterized by looking at available shipping data from WoodMcKenzie. DNV analysis of this data shows that 536 GWac of solar PV inverters were shipped in the year 2023. As of 2023, the top 12 manufacturers accounted for 85% of this volume, with nine out of the twelve coming from China. That year, 78% of the PV inverters shipped, originated from China.

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EU moves to ban high-risk inverters from China.

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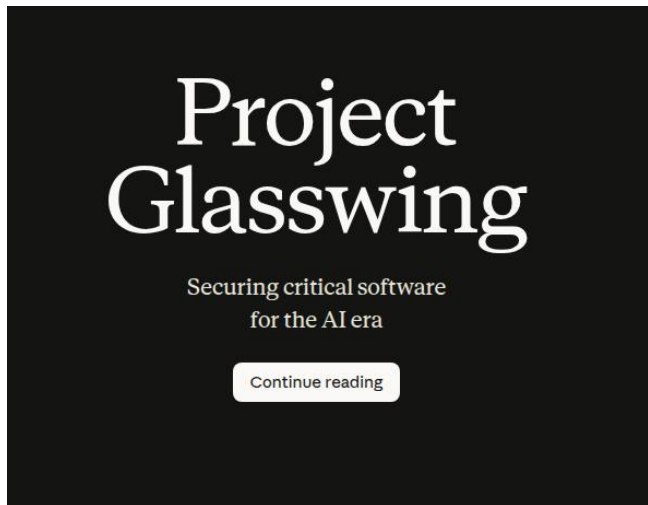
EU moves to ban high-risk inverters from China.

What happens when AI is added to the mix?

AI is Now Both Finding Vulnerabilities and Creating New Ones



AI is Now Both Finding Vulnerabilities and Creating New Ones



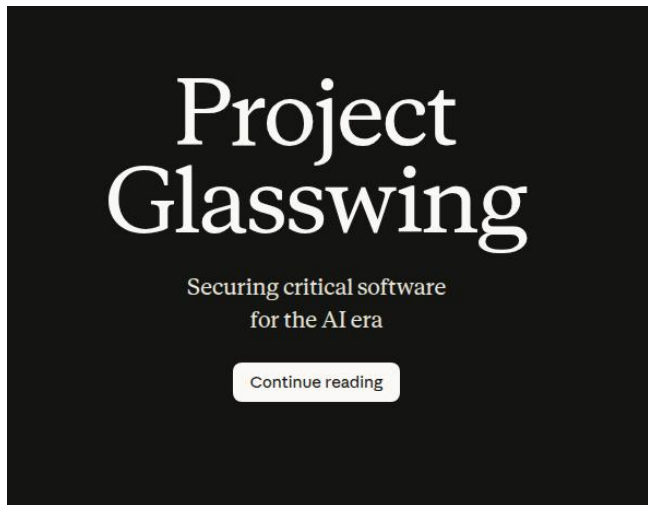
Anthropic Mythos model,
collaboration with:



J.P.Morgan



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Anthropic Mythos model,
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J.P.Morgan



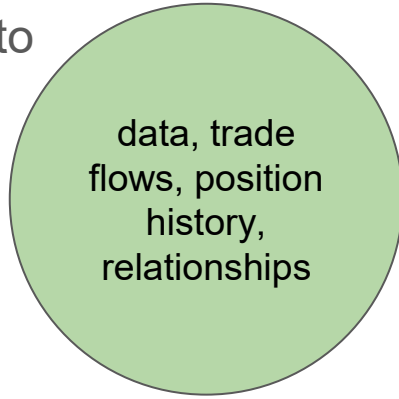
Center for Governance of AI:

- Cybercrime 500 Bil. USD/y
- Modest 20 % increase via AI
→ 100 Bil. more

The Edge Has Moved, Data, Judgement, and Governance Gives Edge

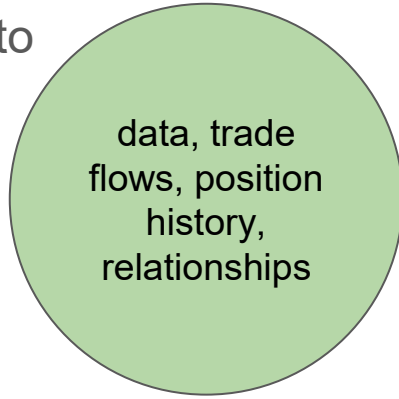
The Edge Has Moved, Data, Judgement, and Governance Gives Edge

Not open to
others



The Edge Has Moved, Data, Judgement, and Governance Gives Edge

Not open to others

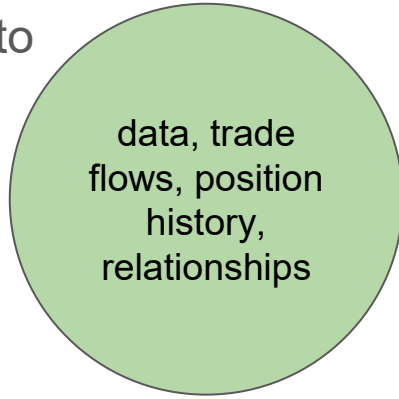


A light blue circle containing the text: judgement, human assessment of model, politics, counterpart risk

From experience

The Edge Has Moved, Data, Judgement, and Governance Gives Edge

Not open to others



judgement,
human
assessment
of model,
politics,
counterpart
risk

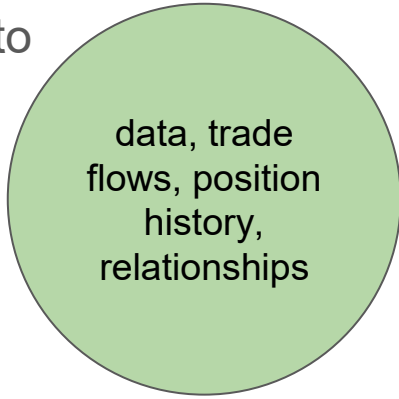
From
experience

With discipline
and structure

governance,
regulatory
readiness,
documentation

The Edge Has Moved, Data, Judgement, and Governance Gives Edge

Not open to others



From experience

Models, agents, forecasts anyone can buy.

With discipline and structure



These factors + AI makes competitive input

Markets Have Changed, and Will Continue To Do So



Markets Have Changed, and Will Continue To Do So



Microwaves were faster

Markets Have Changed, and Will Continue To Do So



Microwaves were faster

Exchanges introduced delay →
neutralized the advantage.
Always a response to new tech

Wired for AI Doesn't Mean Wired For Everything, It Means Choosing What's Worth Wiring

Summary

Where we are

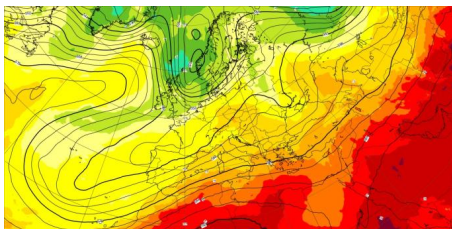
ECMWF's ensemble AI forecasts become operational

1 July 2025

Aker og OpenAI skal etablere KI-anlegg i Narvik (230 MW)

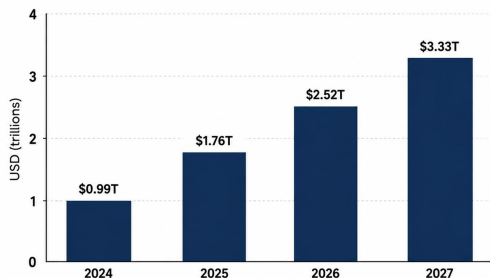
(Montel) Aker har inngått et samarbeid med OpenAI og Nscale om KI-anlegget Stargate Norway i Narvik som skal være i drift mot utgangen av 2026.

1 minute read



rasmus.tranas@montel.energy

Worldwide AI Spending



Source: Gartner, January 2025

Where we are headed,
agentic workflows, geopolitical
risks



Trump threatens to "massively blow up" Iran's South Pars Field

(Montel) US president Donald Trump warned on Thursday that the US would "massively blow up the entirety of the South Pars Gas Field" should Iran launch further attacks on Qatar's LNG infrastructure.

1 minute read

PRIVATE

References

Slide 1 (Title): None.

Slide 2 (Introduction / Map): None.

Slide 3 (AI Enhances Weather Forecasts):

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Slide 5 (AI Itself is Now a Power-Market Fundamental):

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Slide 7 (Combined Nordic State AI Investment): Norwegian, Danish, Finnish, Swedish government AI strategy announcements (national ministry sources, 2024-2025).

Slide 8 (AI is Moving from Assistant to Agent):

- <https://www.anthropic.com/news/3-5-models-and-computer-use>
- <https://openai.com/index/introducing-operator/>
- <https://openai.com/index/introducing-deep-research/>

Slide 9 (When Many Market Participants Run AI on Similar Data):

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- <https://www.sec.gov/litigation/admin/2013/34-70694.pdf>
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Slide 10 (EU Regulations: Power Systems are High-Risk):

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Slide 11 (Your AI Vendor is Now a Geopolitical Exposure):

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Slide 14 (The Edge Has Moved): None.

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