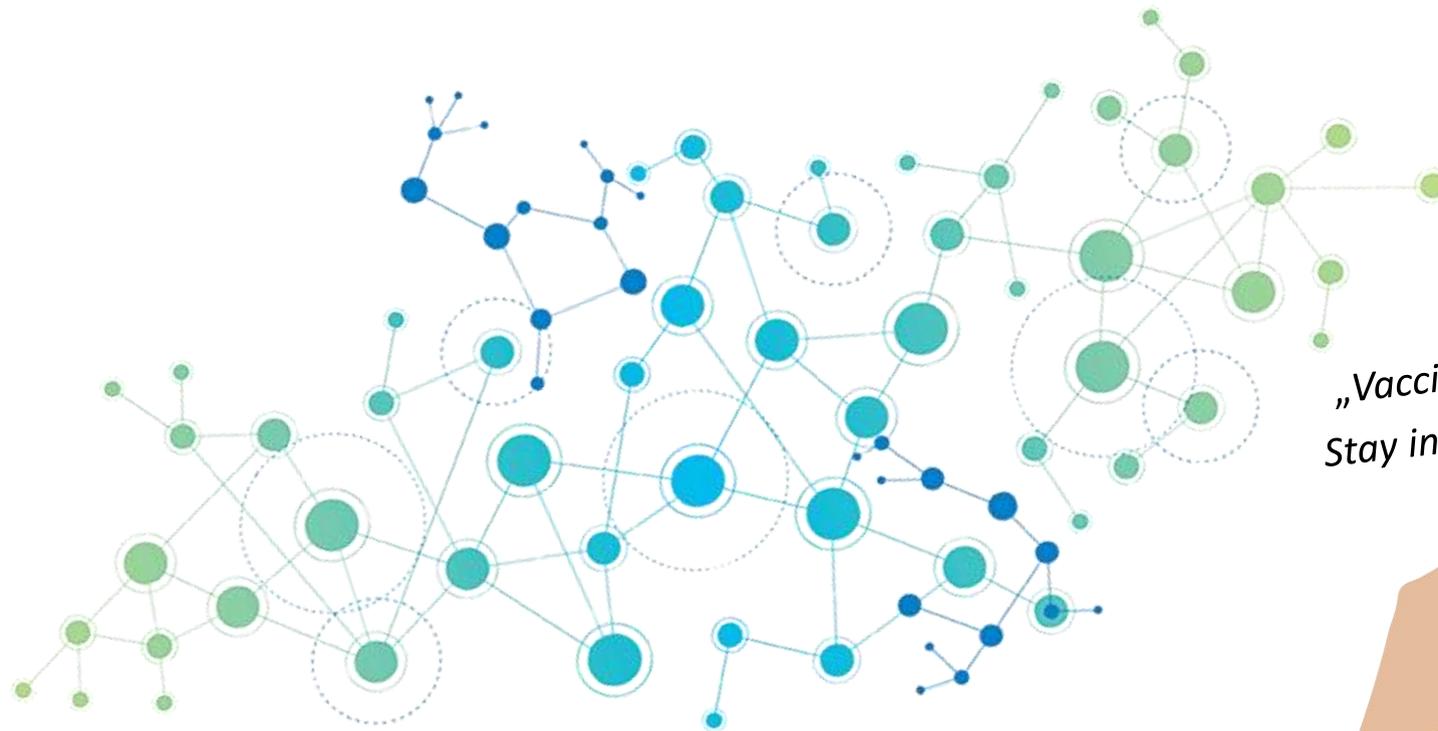




# How to feed Hungry AI with high-quality Data, on Demand, at Scale



*„Vaccinate Data against Abuse“  
Stay in control in your Ecosystems*



# AI solutions' growth driving growth elsewhere



The 18 potential arenas of tomorrow could generate \$29 trillion to \$48 trillion in revenues and \$2 trillion to \$6 trillion in profits.

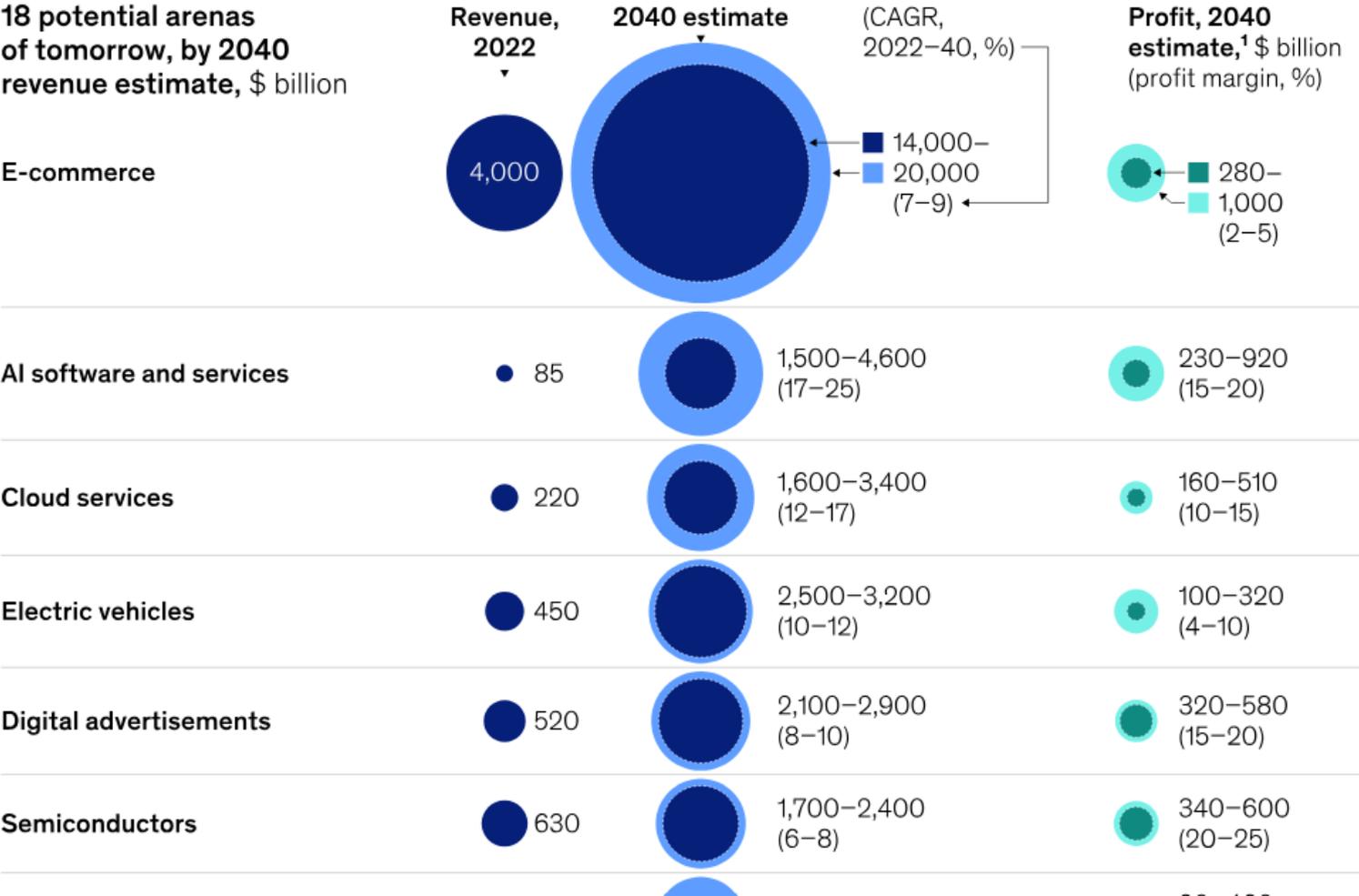


Figure: <https://www.mckinsey.com/featured-insights/sustainable-inclusive-growth/charts/dynamic-industries-to-watch/>



## Applications always needed good data

- Accurate, structured, curated
- Centrally organized data or federated data
- Right-time data, from...
  - Post-transaction analytics to
  - Decision support to
  - Real-time decision making

# AI's hunger games: Data Markets to feed insatiable LLMs



Figure: <https://www.linkedin.com/pulse/ais-hunger-games-lucrative-data-market-exploding-feed-insatiable-9a4ie/>

# AI's Hungry Brain: A Data-Driven Dilemma



## Why is AI so data-hungry?

- **Training Models:** AI models learn from massive datasets. The more data they consume, the more accurate and sophisticated they become.
- **Real-time Processing:** AI applications often require real-time processing of large amounts of data, such as in self-driving cars or facial recognition systems.
- **Constant Updates:** AI models need to be continuously updated and retrained to keep up with new data and evolving trends.

Figure: <https://www.linkedin.com/pulse/ais-hungry-brain-data-driven-dilemma-meghan-mcparland-tgvqe/>

# Generative AI Is Data-Hungry: Is the All-You-Can-Eat Buffet Over?



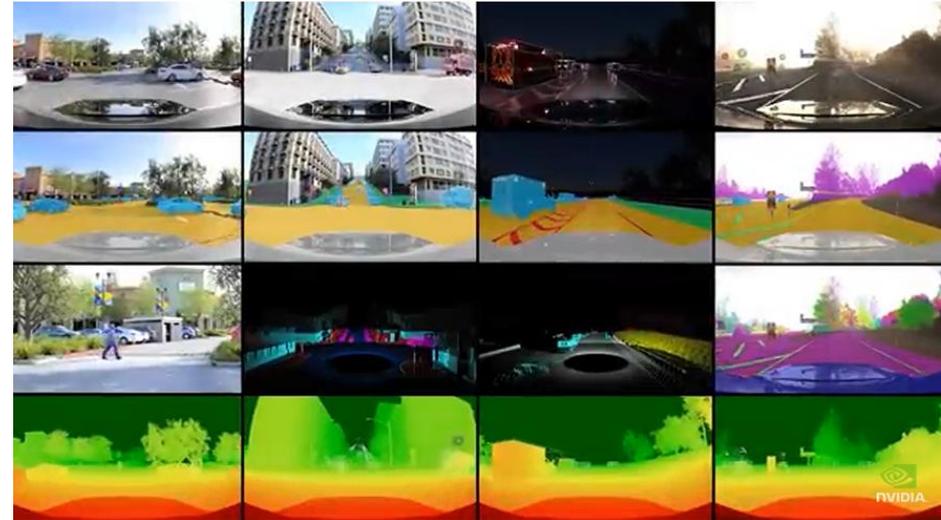
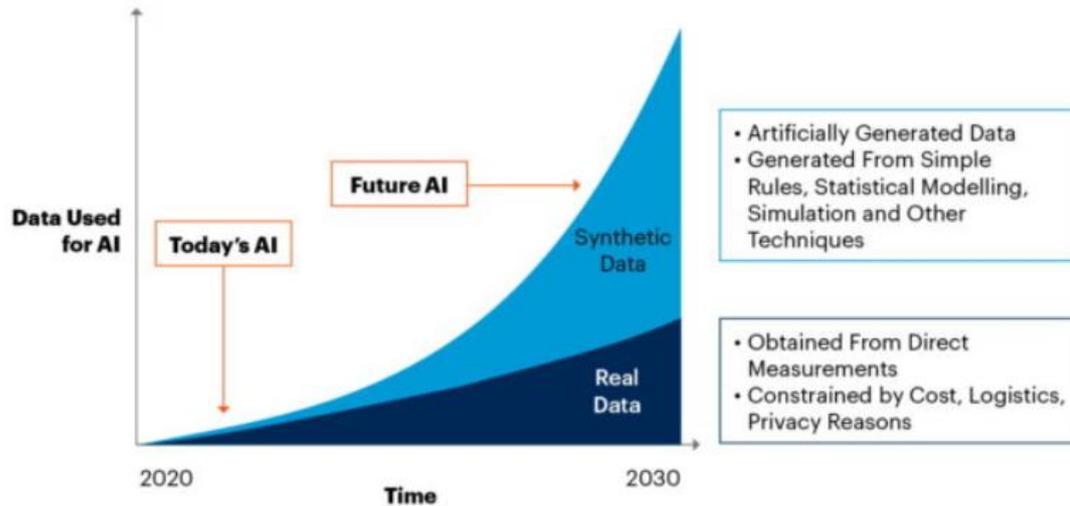
Finding good quality data on which to train generative AI models has been difficult. And it's going to get harder, too, as rights holders to vast quantities of internet data begin to close ranks in recognition of just how valuable a resource it all is, observes Stephen Marcinuk of Intelligent Relations.

Figure: <https://www.spiceworks.com/tech/artificial-intelligence/guest-article/generative-ai-is-data-hungry/>

# Not enough real-world data for AI > go Synthetic !?



## By 2030, Synthetic Data Will Completely Overshadow Real Data in AI Models



Source: Gartner  
750175\_C



Gartner



Figure: Gartner, NVIDIA

<https://blogs.nvidia.com/blog/what-is-synthetic-data/>

# AI GIGA FACTORIES (AI 1.0 = everything “Huge”)



AI Gigafactories are large-scale facilities dedicated to the development and training of next-generation AI models containing trillions of parameters. 3 Jun 2025

The CPU handles all the tasks required for all software on the server to run correctly. A GPU, on the other hand, supports the CPU to perform concurrent calculations.

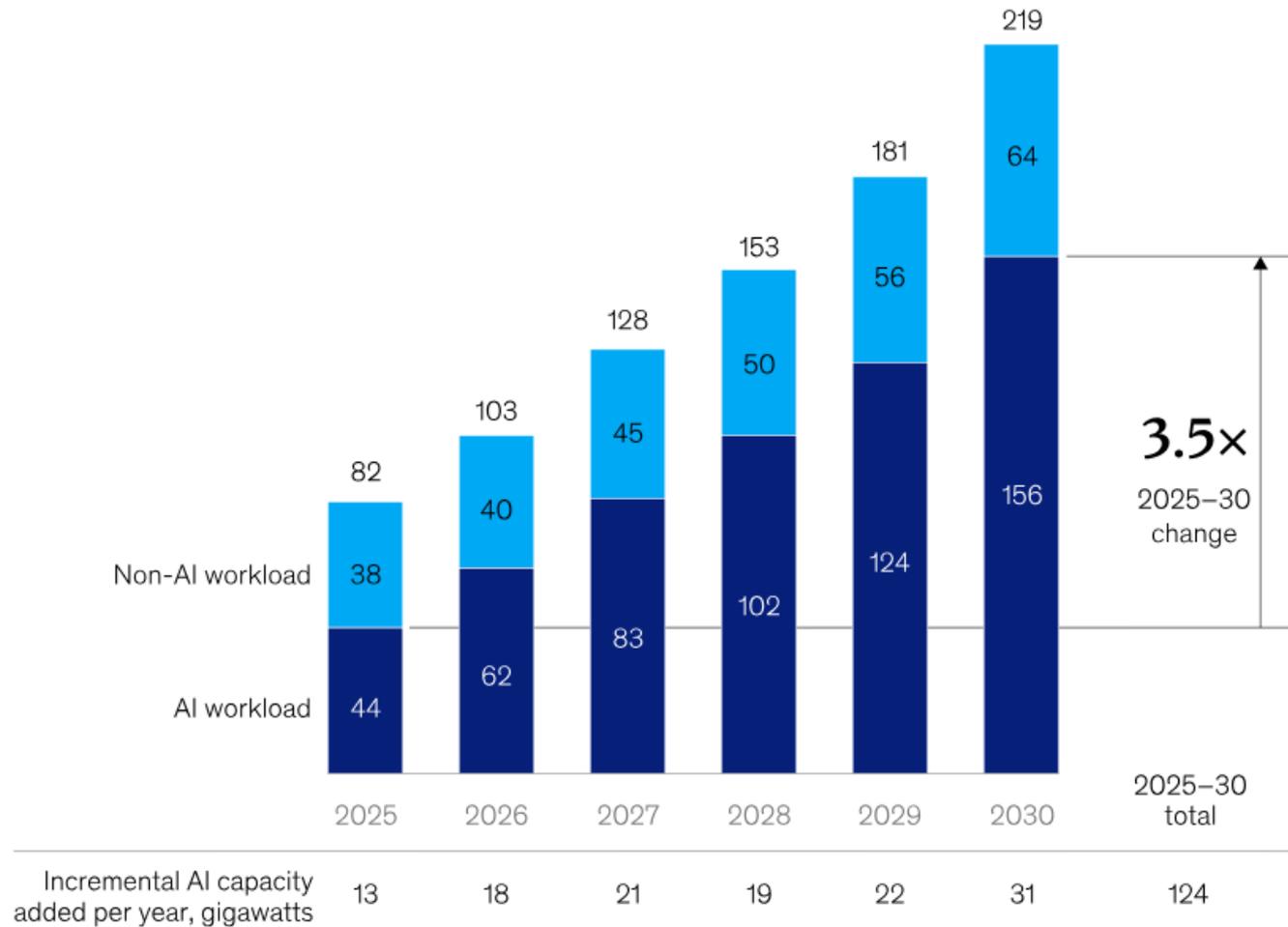
- **Huge** Data Centers
- **Huge** Processing Farms (GPUs from NVIDIA etc.)
- **Huge** Power Consumption
- **Huge** Costs

# Data Center energy demand to grow by 3.5x



Both AI and non-AI workloads will be key drivers of global data center capacity demand growth through 2030.

Estimated global data center capacity demand, 'continued momentum' scenario, gigawatts



# Edge AI (AI 2.0 = do it where the action is)



- Low latency
- Lower bandwidth demand
- Higher scalability
- Better data privacy
- Higher security
- Lower costs

**Edge AI will grow even faster than “GIGA AI”, and will substitute parts of it.**

10 minutes on Edge AI: <https://www.youtube.com/watch?v=QXuvUW4B7jU>

# PPP to ensure Sovereignty in AI-ready Data Ecosystems



## GOVERNANCE LAYER

### DATA CLEARING AND INTERCONNECTION SERVICES

- Transaction registry, full audit trail
- Metering capabilities
- Non-repudiation qualities
- Access control and validation services (certify integrity, authenticity, etc.)
- Operated by a trusted third party (GOV)

## BUSINESS LAYER

SERVICE PROVIDER 1

SERVICE PROVIDER 2

SERVICE PROVIDER ...N

- Providing regional & business - related services for data sharing
- User management & user authentication
- Software distribution
- Commercial agreements

Hospitals

Pharma

Science

Universities

- End users or machines producing or consuming data
- Machine to machine communication
- Integration by using software development kits (SDK)

## TRANSPORT LAYER

email

(s)ftp

www

usb

- Any electronic transport channel
- Machine - machine, machine - human, human - human

Public-Private-Partnerships (PPP) to balance governance and business needs.



[Access whitepaper](#)



# Thank you.

slides at <https://datavaccinator.com/news.html>

## Let's stay in touch.

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DataVaccinator (DV) powers Data Ecosystems. By “vaccinating data against abuse”, DV solutions protect sensitive data, enable secure collaboration and ensure Data Sovereignty in AI environments. DV products rely on its unique technologies (60 patents).

As partner in major initiatives, DV provides guidance on cyber security, governance, compliance, setup and operation of AI-ready data networks.

## Background and Expertise:

- Deep Technical Know-how in secure Collaboration and Ecosystems
- Intellectual Property Rights (IPR): Assessment and Management
- Data Ecosystems: Healthcare in EU/MENA, Secure Supply Chains (WEF), Belt&Road (Asia), Logistics (Air, Sea, Road), Cyber Security (ASEAN)
- Belfer Security Center (Harvard, JFK), WEF Security Group