

Digital Skills and Research Method Presentation

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UNIVERSITY OF WALES
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Miami University,
(2023)

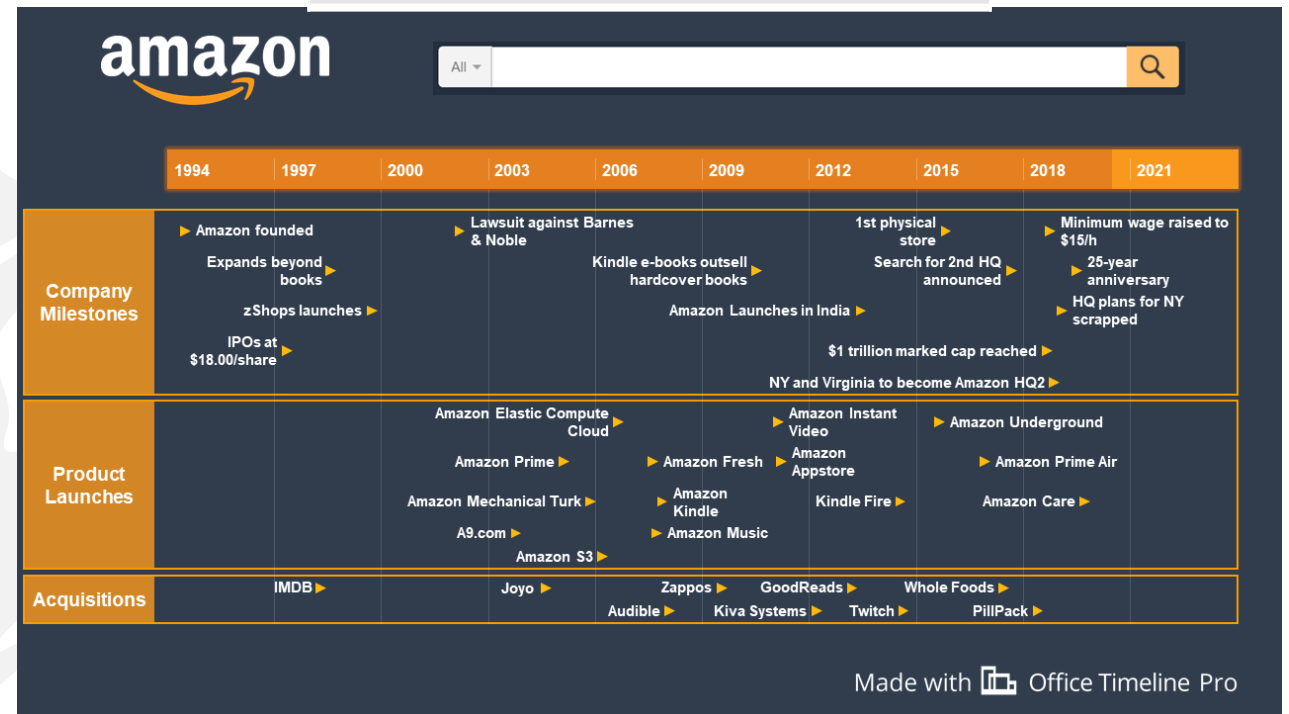
Amazon's Efficiency & Employability

A Deep Dive into **AWS** & **Kiva** Robots

Background of Amazon

- From a 1994 online bookstore to the world's technological and e-commerce powerhouse (Sadq, Nuraddin, Hama, 2018).
- Cultivated a culture of 'Day 1' thinking, emphasizing innovation and adaptability (Sadq, Nuraddin, Hama, 2018).
- Core principles: customer obsession, long-term thinking, and eagerness to invent (Sadq, Nuraddin, Hama, 2018).

Pinterest, (2023)



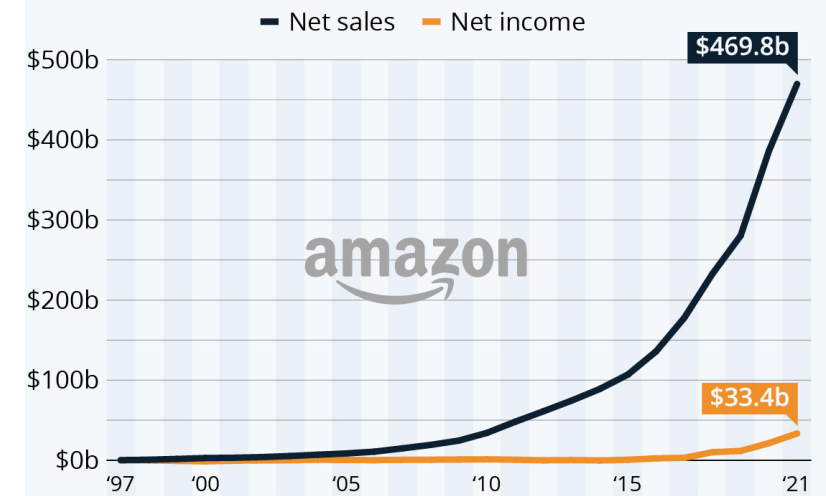
Pre-tech Challenges at Amazon

- Increasing global reach meant vast inventory management (Bandaru, 2020).
- Rising customer demands for efficient delivery and diverse product availability (Bandaru, 2020).
- Necessity to scale computing resources without prohibitive costs (Bandaru, 2017).

Commission Academy, (2023)

Amazon's Incredible Long-Term Growth

Amazon's revenue and net income from 1997 through 2021



source: Amazon



statista

Introduction to **AWS** - A Technological Breakthrough

- Launched in 2006 as a solution to scalable cloud computing (TheSeattleTimes, 2021).
- Offered computing power, database storage, and content delivery (Bandaru, 2020).
- Allowed businesses to scale without significant upfront hardware costs (Bandaru, 2020).
- Most businesses consider cloud computing safer and more trustworthy when it comes to inventory tracking (Bandaru, 2020)

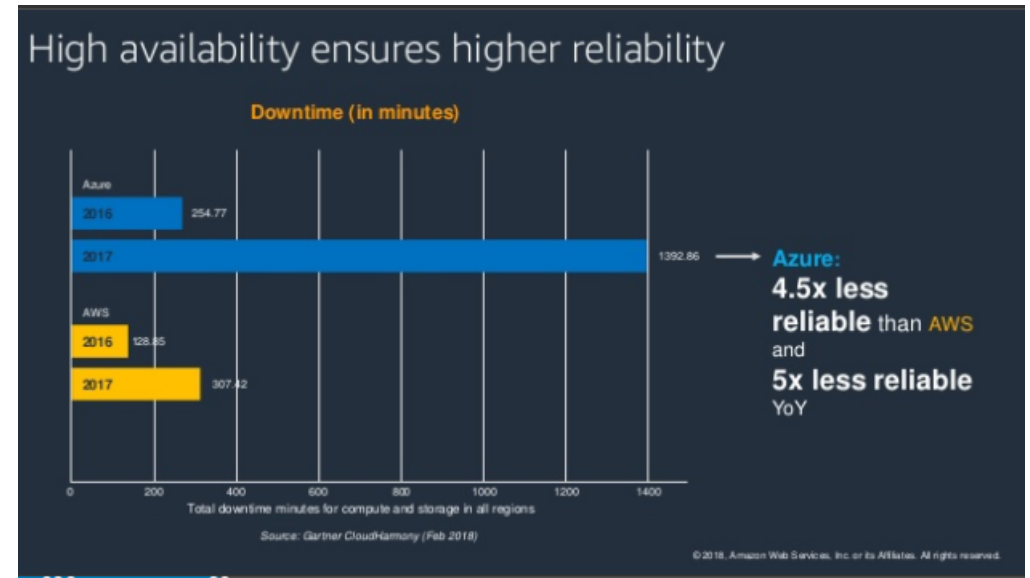
The EGGBRUSSELS, (2023)



AWS - Impact on Amazon's Internal Efficiency

- Streamlined Amazon's e-commerce operations by providing a reliable IT backbone (Talha, Sohail, Hajji 2020).
- Enhanced employability by requiring specialized skills, creating tech-savvy roles (Goteng, Shohel, Tariq 2022).
- Enabled real-time data analytics, improving decision-making and business strategies (Talha, Sohail, Hajji 2020).

Server Fault, (2020)



AWS - Impact on Amazon's Internal Efficiency

- Acquired by Amazon in 2012 to improve warehouse operations (Amazon Web Services, 2023).
- Automated product retrieval, significantly reducing processing time (Goteng, Shohel, Tariq 2022).
- Enhanced workplace safety and reduced dependency on manual labor (Goteng, Shohel, Tariq 2022).



Influence of Kiva robots on operational effectiveness

- Reduced “click to ship” cycle time, ensuring faster deliveries (Yang, Juntao, Lingling 2020).
- Increased storage capacity by 50% due to optimized storage (Yang, Juntao, Lingling 2020).
- Lowered operational costs by reducing manual errors and resource-intensive tasks (Yang, Juntao, Lingling 2020).



Harvard Business School,
(2012)

Enhancing operational and employee efficacy with technology at Amazon

- Emphasis on continuous innovation is crucial for adaptability and staying ahead (Rutakirwa, 2018).
- Automation, while improving efficiency, must be balanced with human-centric roles for holistic growth (Rutakirwa, 2018).
- Leveraging technology requires a clear vision, commitment to research and development, and alignment with business goals (Rutakirwa, 2018).

Oispice.com, (2019)



Employability in the age of AWS and Kiva Robots

Futurism.com, (2023)

- Creation of specialized tech roles, requiring continuous upskilling (Financial Times, 2019)
- Demand for interdisciplinary skills, combining tech knowledge with domain-specific insights (Financial Times, 2019).
- Greater emphasis on collaborative skills to work alongside automated systems (Financial Times, 2017).



Conclusion

- Amazon exemplifies how cutting-edge technology can be harnessed to drive efficiency and restructure the job landscape .
- Companies must be proactive, not reactive, in the face of technological evolution.
- The integration of technology requires vision, strategy, and a commitment to continuous learning.

Crunchgrowth.com, (2018)



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