AI in the South Pacific? Why Content Delivery May Have to Change

edgeconnex®

Pacific Islands Telecommunications Association

Standard Site Selection Model…

…can change when it comes to new needs…

Cloud based development review:

- Capacity of Market
- Competitors
- Development Pipeline

For Large Language Model (LLM) development:

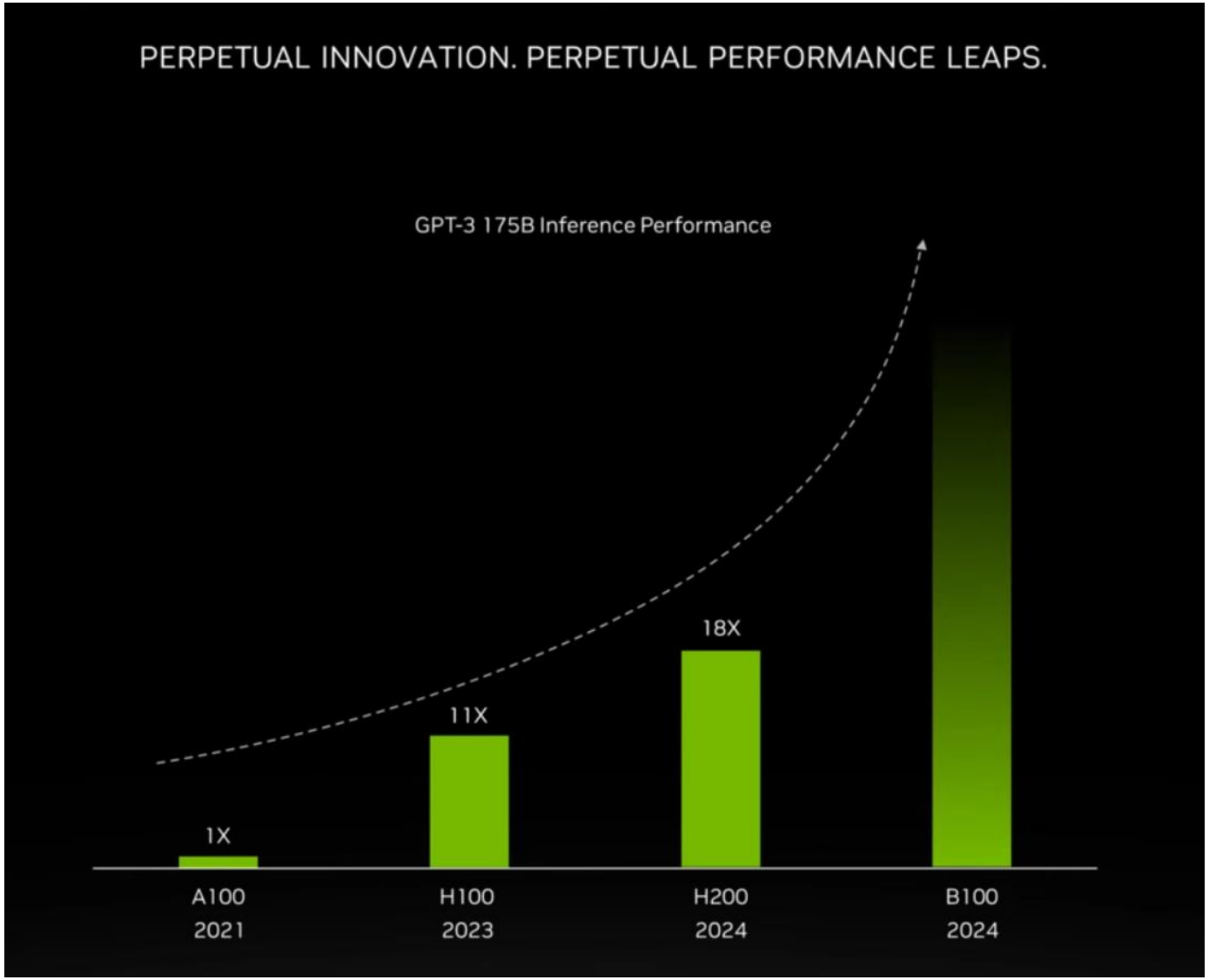
- Power availability and cost
- Incentives (sales tax, property tax?)
- Land pricing

For Inference:

- Population
- Rack density
- PUE

AI workloads are and will be extremely dense

Requiring select, specialized builds



- Current H100 generation cooling is ***45kW per rack***
- Next generation cooling is ***70kW per rack***
- Line-of-Sight to future capacities of **100-120+ kW per rack** in the next 2-3 years
- Early returns suggest that dedicated inference workloads may be a fraction of training… but still far denser than most current builds!

Source: Nvidia

Where would these workloads go in PITA territory?

Group of factors come into play; key to avoid latency!

- For large-scale AI training, inference, and more… Australia will naturally remain the choice…

- Sydney and Perth already there; Melbourne gaining interest (think Hawaiki Nui)

- But what about more AI-driven points-of-presence across the Pacific?
- Six cables linking Suva to date- why not?

- Somewhat PITA-adjacent hubs gaining interest thanks to connectivity and workloads- Guam and Hawaii

Deployment Playbook

What can be done to attract these workloads?

- Tax breaks- Areas in the US, Europe, and Asia offer sizable tax breaks on land acquisition, power pricing, sales taxes/VAT, and more. These often shift the decision quickly!

- If there is no IX present, can one be organized? Peering opportunities ease location anxiety to avoid replicating high expenditure and wait lists for GPUs.

- The more cables, the more interesting; where will the Humboldt cable land? What about more south-south traffic?

Thank You

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