

Tachyum™ Prodigy

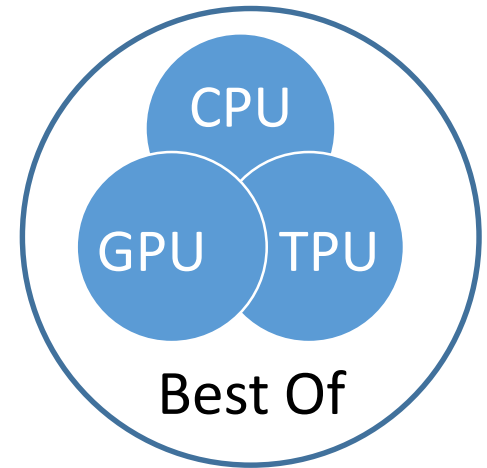


Introduction

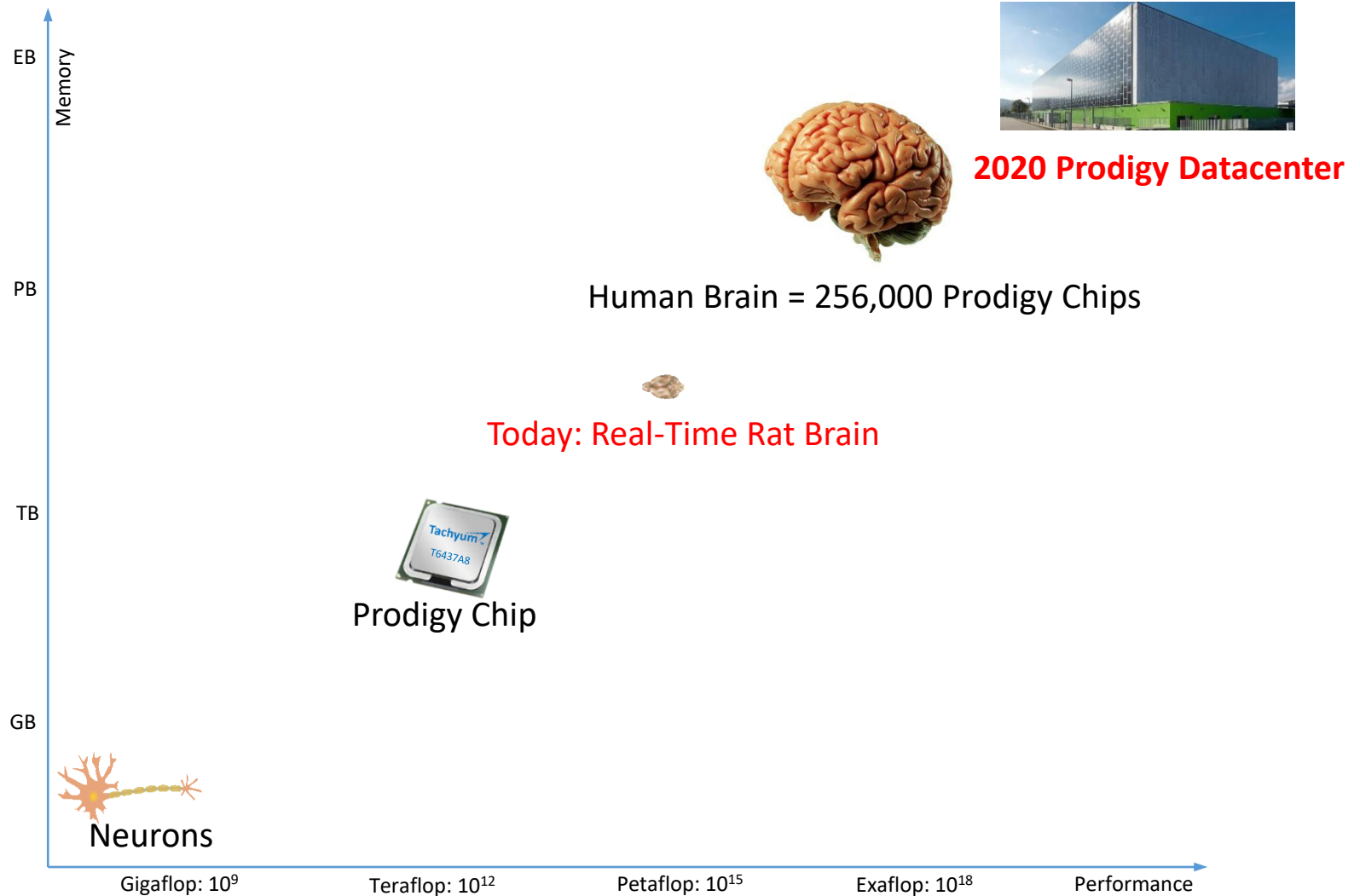
- Dr Radoslav Danilak
 - **Over 100 granted patents & over 100 patents pending**
 - The founder of Skyera acquired by Western Digital in 2014
 - **The founder of SandForce acquired by LSI for \$337M in 2009**
 - Member of the Forbes Technology Council, IDC and others
- **Tachyum: Cloud Chip Company with Over \$10B Potential**
 - Tachyum: Universal Processor / Artificial Intelligence HPC Chip
 - 2020 Real-Time Simulation of Human Brain Sized Neural Networks
 - Big AI for Datacenters for Free

Tachyum Universal Processor / AI Chip

- First time humanity can simulate human brain sized neural networks in real-time
 - Critical tool for the Human Brain Project
- Prodigy is Server / Supercomputer
 - Critical chip for world fastest supercomputer
- Prodigy is Best of CPU, GPU and TPU
 - CPU: easy to program, costly & power hungry
 - GPU: very hard to program but much faster

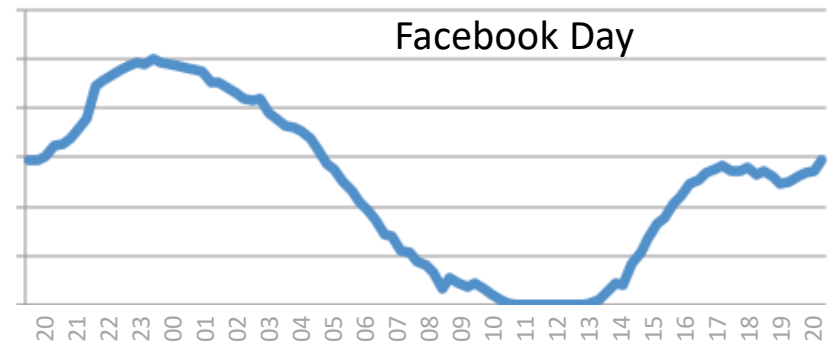
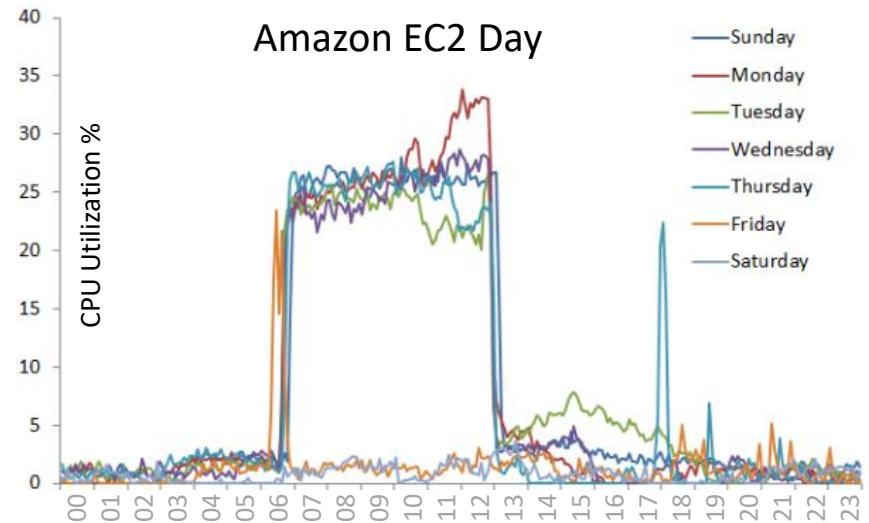


Real-Time Human Brain Simulation: 10^{19} Flops in 2020



Big AI for Datacenters for Free

- Universal Processor / AI chip:
10x more AI using idle servers
- 60-80% of server time wasted
<5% of server have AI GPU
- Processors are not good for AI
and GPU or TPUs are used



10% of Planet's Energy Consumed by Cloud in 2030

- Datacenters today consume 2% total electricity

- Consume 40% more power than UK

- **10% of planet energy by 2030**

- 15% growth: is 2x every 5 years
- 40% of planet energy by 2040

- New Technology is needed

- To continue technology growth



One More Thing ...

- Much smaller servers



Summary

- Available in 2020 in European R&D Center:
Prodigy Universal Processor / Artificial Intelligence Chip
- Prodigy Enables European Supercomputer in 2020 to Simulate
Human Brain Sized Neural Networks in Real-Time
- Big AI for Datacenters for Free

