

Hewlett Packard Enterprise

The Future of Technology Begins

Fernando Rio Maior

Senior Solutions Architect Hewlett Packard Enterprise Portugal

SAS Forum Portugal 2016 27 de Outubro de 2016/

Intel e o logótipo Intel são marcas registadas e/ou marcas comerciais registadas da Intel Corporation, nos E.U.A. e noutros países.

(intel)



Global Mega Trends 2020

Connectivity - 80 billion connected devices worldwide IoT - Reaches \$3.0 trillion; 30bi autonomous things attach to Internet Mobility- 9.5 billion mobile subscriptions Big Data Analytics - Data traffic values at 44 Zb Smart cities - Market value of \$1.57 trillion Mobile Robot - Fully autonomy machines Cloud in Services - Public cloud market reaches \$191 billion Enterprise Security - 50% of mobile access via biometrics Magnitude of the data Real-time insight needed Velocity of data Unable to secure Time-consuming data integration

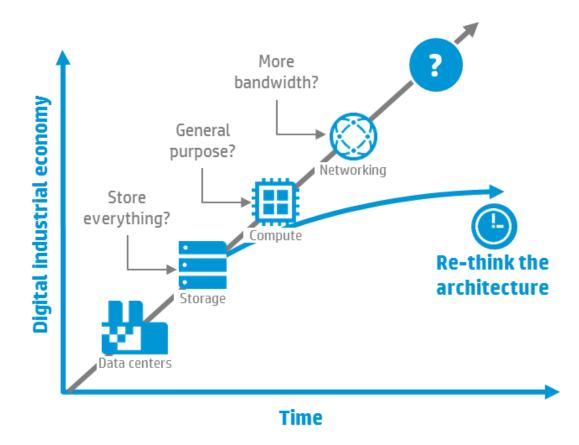
Insufficient resources

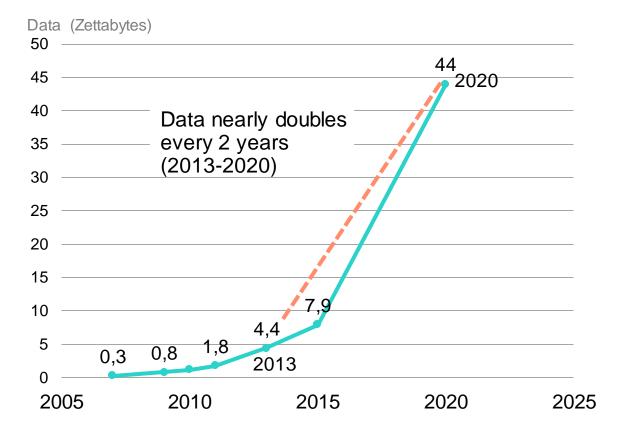




The end of scaling at just the wrong time...

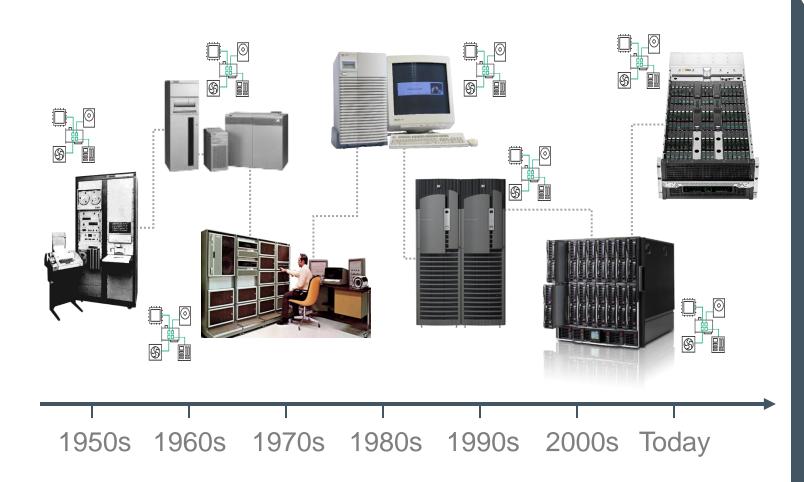
Compute is not keeping up



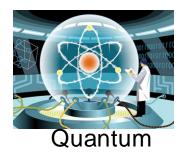


Inte

The Past 60 Years

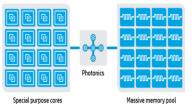


It's time to rethink how computers are built





Nueromorphic

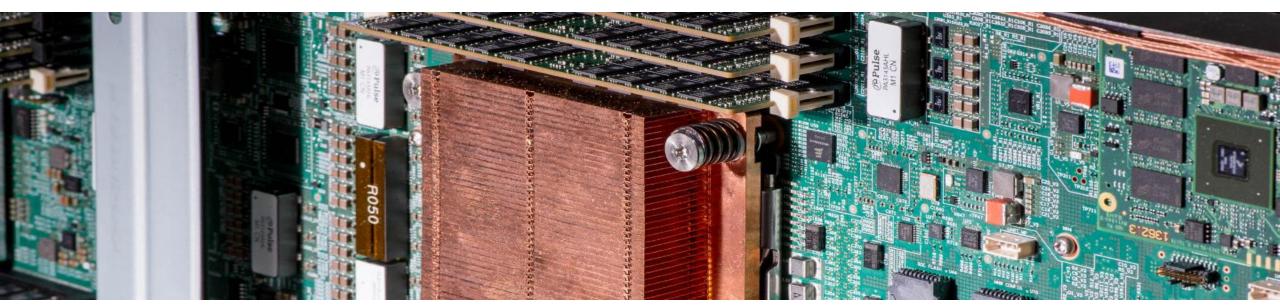


The Machine



(intel)

The Machine



Powerful

A quantum leap in performance, beyond what you can imagine

INCE

Open

An open architecture designed to foster a vibrant innovation ecosystem

Trusted

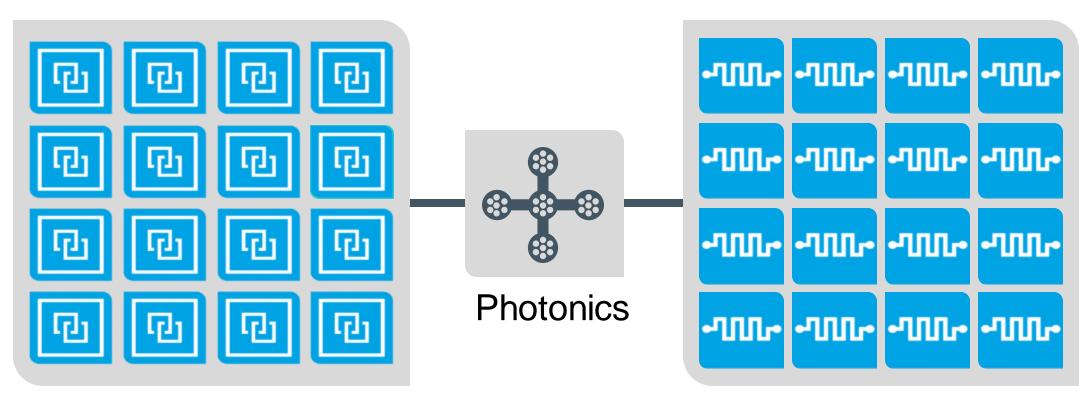
Always safe, always recoverable

All the benefits without asking for sacrifice

Simple

Structurally simple, manageable and automatic, so that "it just works"





Special purpose cores

(intel

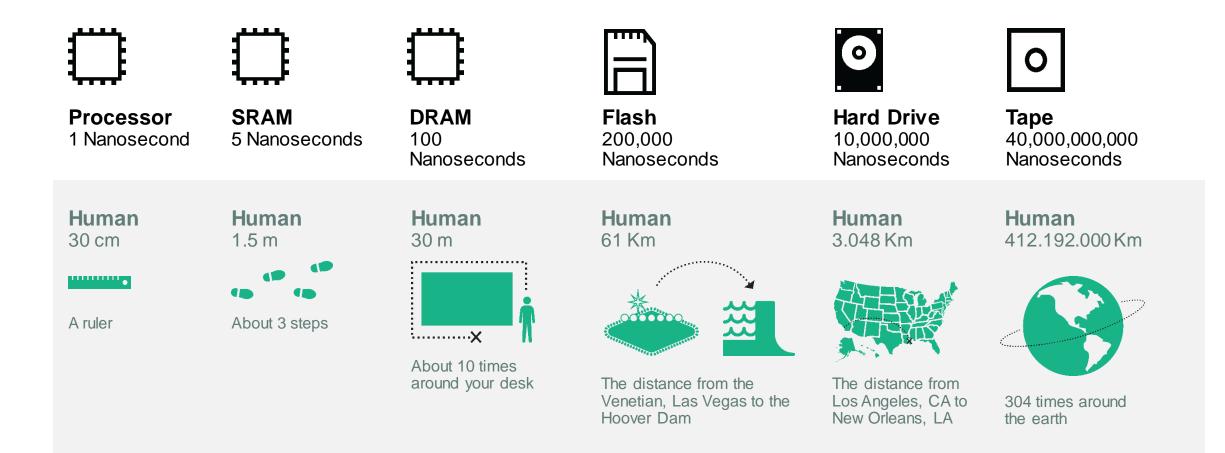
Massive memory pool

The Machine



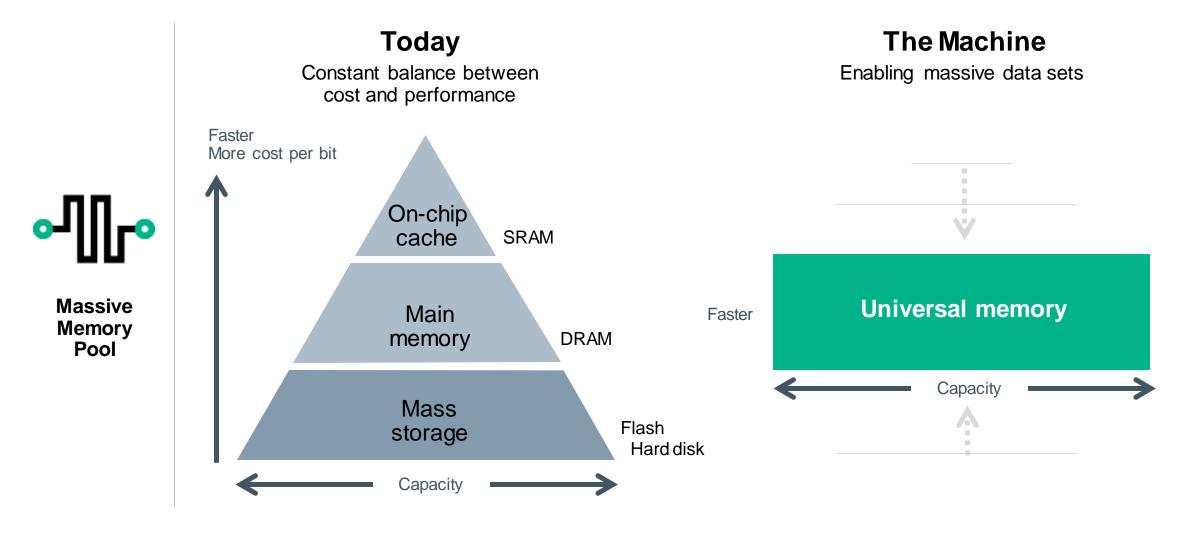
Speed is relative

Imagine if a computer ran at human speed



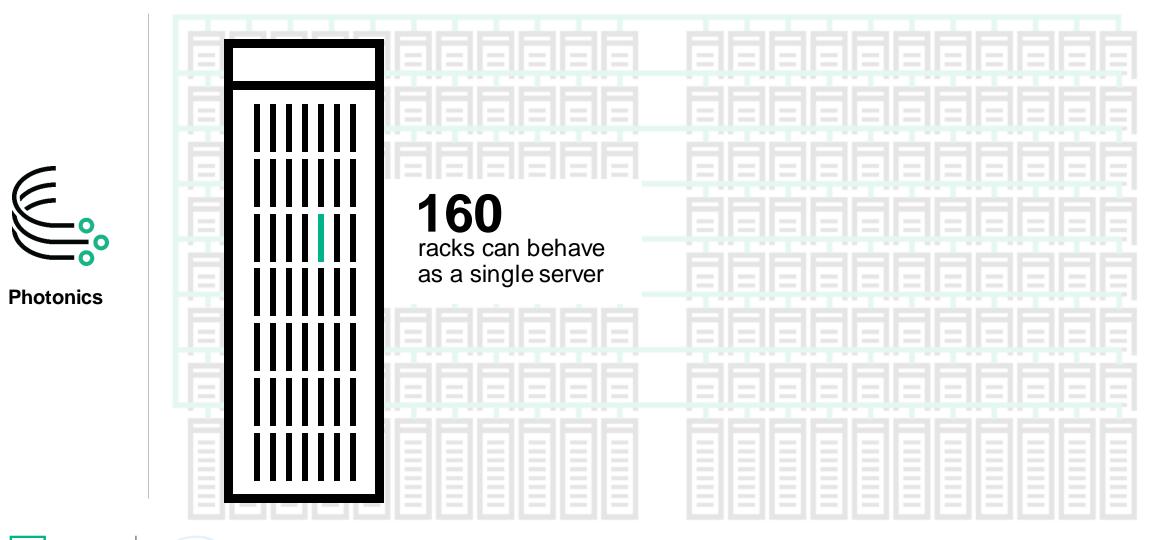


Making the memory hierarchy obsolete



intel

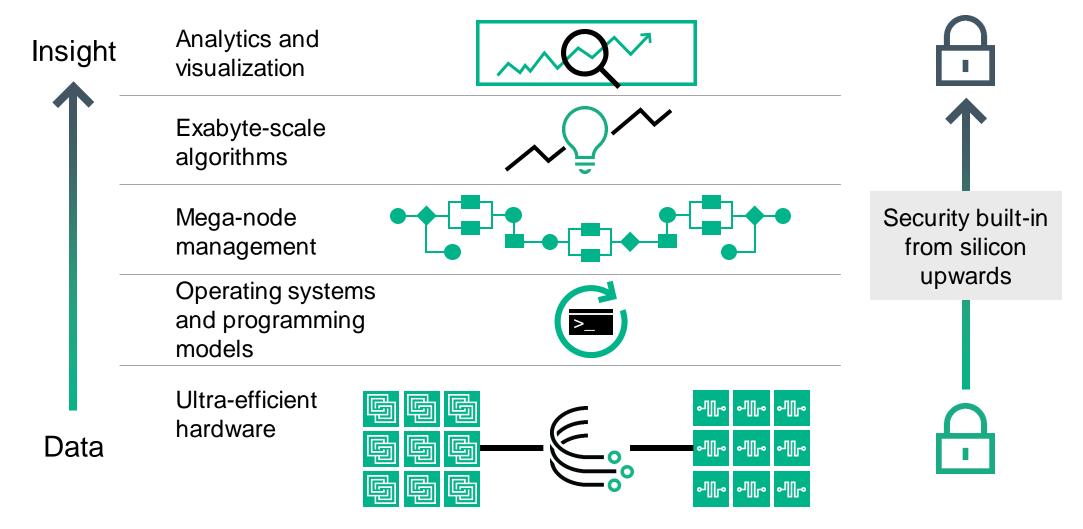
Photonics destroys distance



Hewlett Packard Enterprise

(intel)

Hardware + software stack





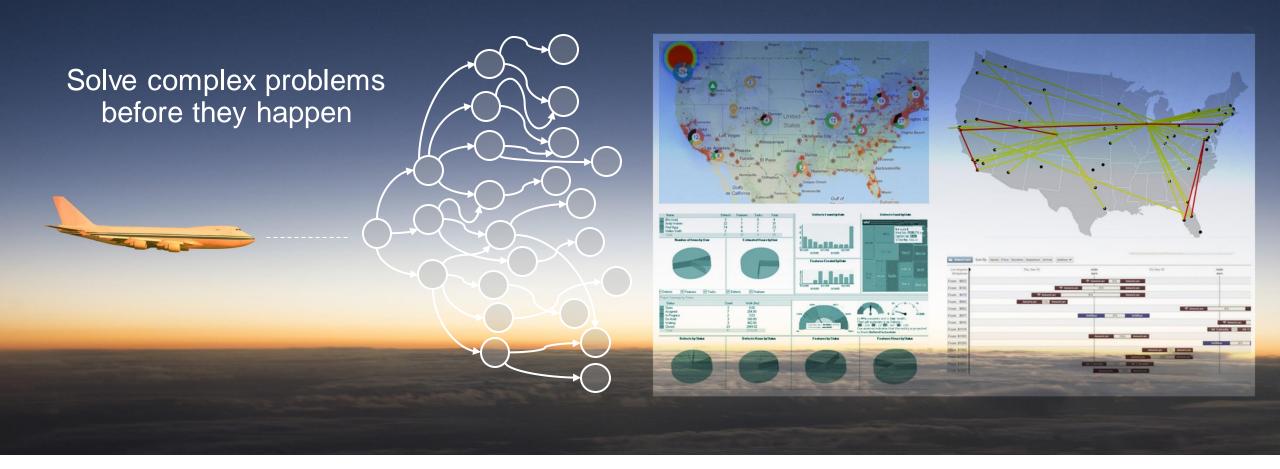
What kind of world becomes possible?





What if we could pre-compute an almost infinite set of "what ifs"?

Optimization over a large search space in real time becomes realistic

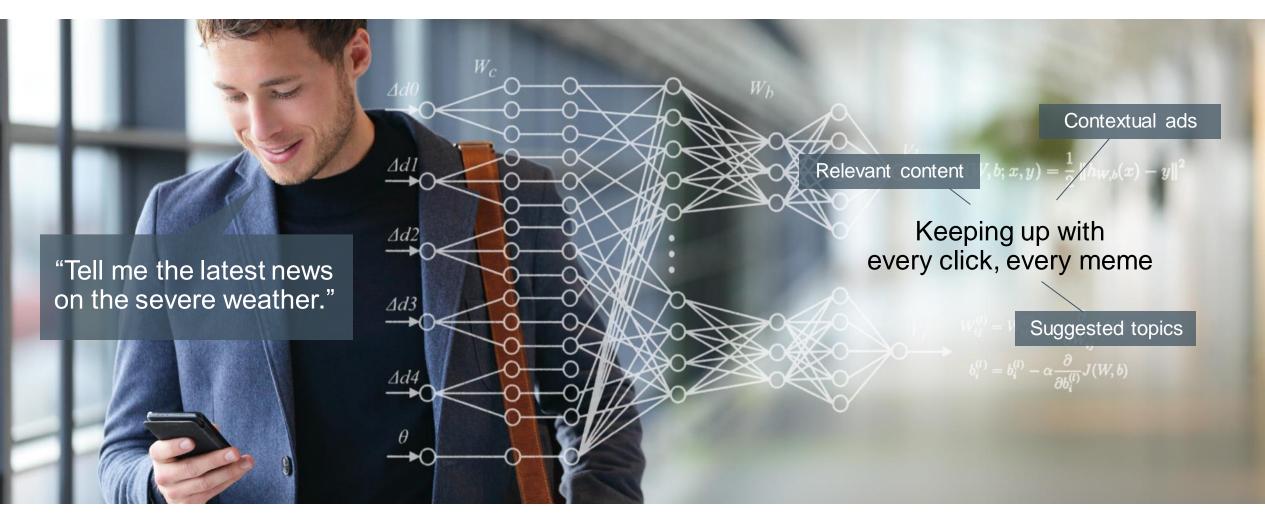






Machine Learning that can keep up with the now

Training up-to-date deep neural networks in minutes, not weeks



Hewlett Packard Enterprise



Thank you

This changes everything



