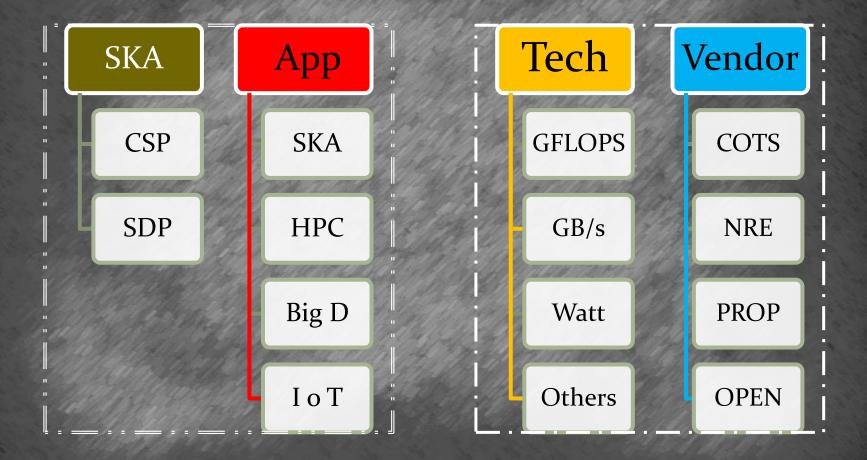
Open Architecture Genie SKA Spin-up & Spin-off

TN Chan tn@compucon.co.nz C4SKA 2016-02-11 AUT

Calling for Attention & Participation

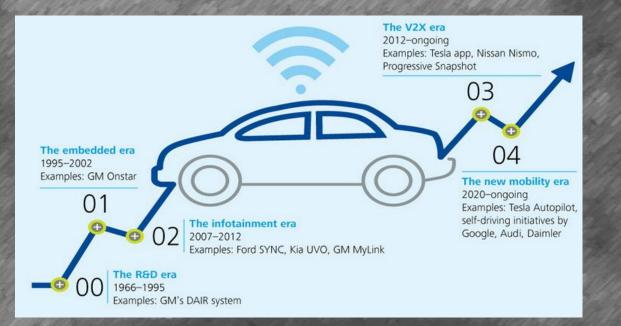
Computing-HPC & BD



Autonomous Cars (Example)

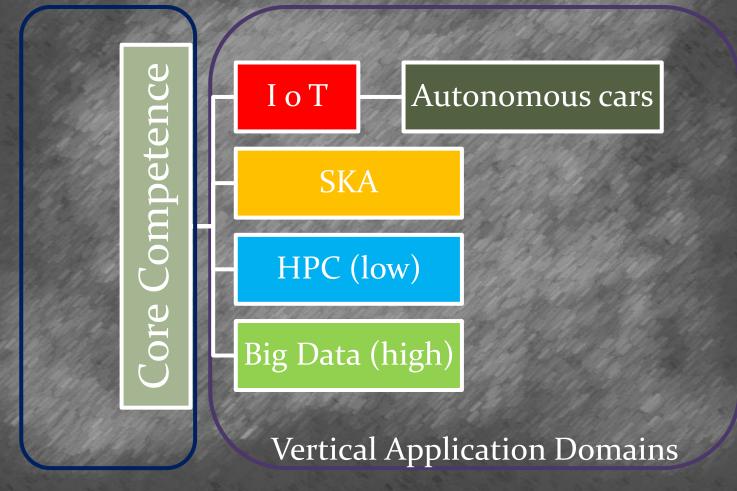
7 billion people connected in motion

- Does not happen overnight
- What does NZ contribute?



Graphic: Deloitte University Press, DUPress.com

Where to Start? (Platform Concept)



What's the Platform? (open bricks)

 Platform Concept → Foundation, on which we can build many different applications

Parallel Algorithms

Parallel Software

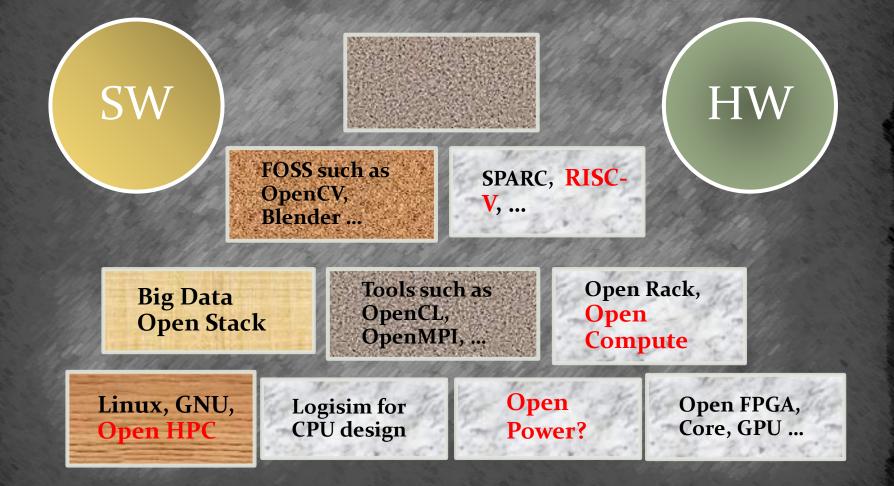
Parallel Hardware

Open Standards

A LAND AND A LAND

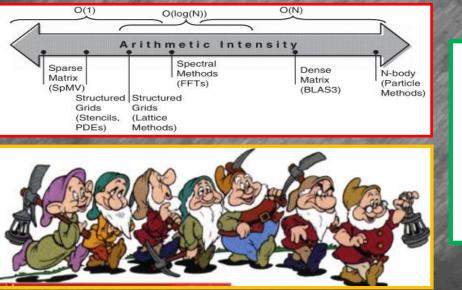
Open Architecture

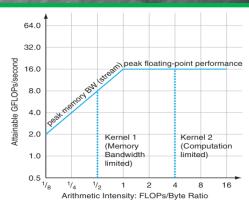
Open Bricks?



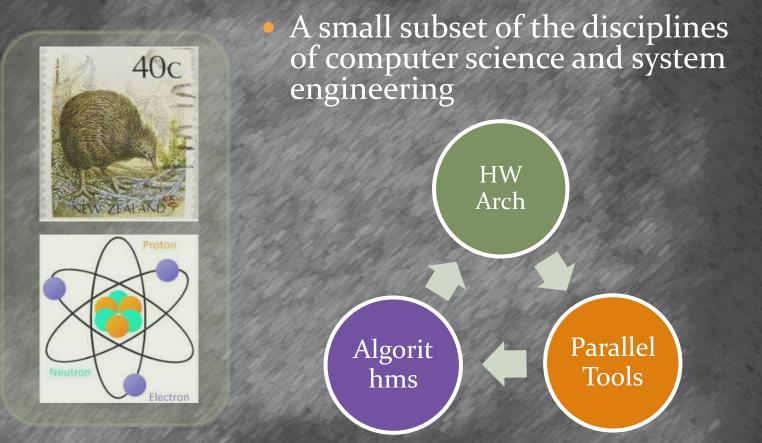
Spectrum of Applications

- Every application has its own specific requirements
 SKA CSP and SDP differ
- Every hardware type has its own specific merits
 CSP and SDP will use totally different hardware





Initial Approach & Scope



Benchmarking to verify claims and reveal relevant properties

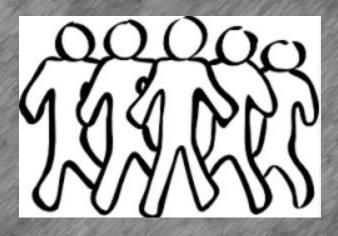
What will Happen? (release potentials)

SKA NZ Alliance
COTE for Applications
Supercomputing Centres
Research, Manufacturing, Service Industries

The innovation is the contribution of insight to the development of individual applications

Where are we at? (need to scale up)

5 / 100 * 100 = 500 / 100,000



 Compucon (5 R&D, 100 peers & citizen scientists) is a custodian till a national & inspirational organisation is ready to take over