

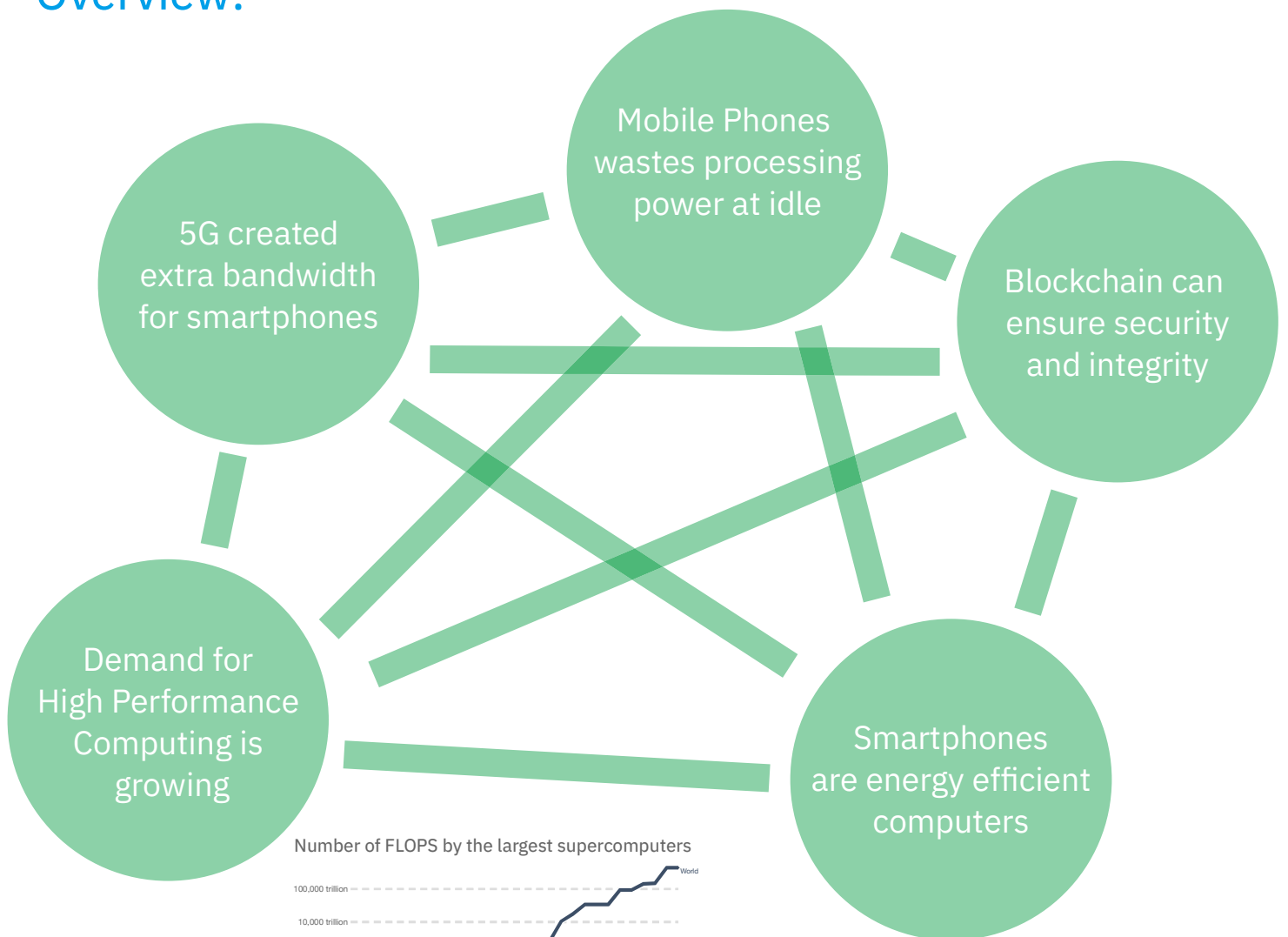
Mobile Blockchain Distributed Supercomputer

Democratised High Performance Computing in everyone's pocket

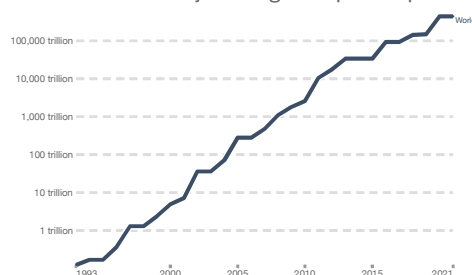
Motivation:

Idle processing power of modern smartphones are wasted if the processor does not perform computation. We can create a collective computing platform using 5G, applying blockchain for task assignment and validation.

Overview:



Number of FLOPS by the largest supercomputers



Source: TOP500 Supercomputer Database

Impact to society:



Fully utilise available resources



More accessible High Performance Computing



Accelerates medical and scientific research

Sustainability:

Mobile Blockchain Supercomputer

Social

Utilising wasted resource for the common good such as academic research can gain popularity among the general population

Environmental

The high energy efficiency of smartphones leaves smaller carbon footprint than comparable supercomputers

Economic

Researchers can submit tasks with cryptocurrency as incentive to have their task done. Owners of the smartphones will receive the reward

Related Work:



Folding@home - connecting home computers to a distributed computing platform for scientific researches such as protein folding



HTC POWER TO GIVE - harnessing collective processing power of smartphones for medical researches