



FIRST THERE WERE A FEW SUPER COMPUTERS



"I think there is a world market for maybe five computers."

Thomas Watson, IBM, 1943

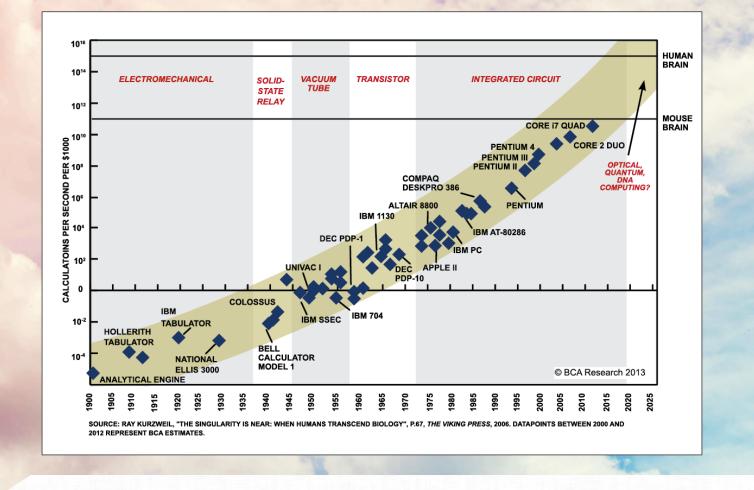




THEN THERE WERE PC's AND MOBILE PHONES

Creating networked compute power at a fraction of the cost and a rapid pace of innovation.





BRINGING MOORE'S LAW TO THE WORLD

Rapid innovation allowed the power of a Cray to be carried on one's wrist today.







CREATING THE FIRST TWO \$1T COMPANIES

One providing "access", the other providing "use".



BUSINESS The \$8 Trillion Internet: McKinsey's Bold Attempt to **Measure the E-conomy DEREK THOMPSON** NOV 6, 2011 The Internet -- that 200 million-person, \$8 trillion global economy -accounted for 21 percent of GDP growth in the world's largest economies over the last 5 years, McKinsey found in a report released this week.* As an entity, it

CREATING A \$8TN GLOBAL INTERNET ENTERPRISE

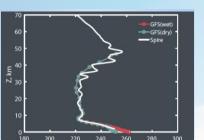




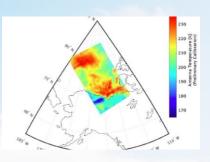
FIRST THERE WERE A FEW SUPER SATELLITES

"There's not that much interesting about CubeSats." – Jeff Bezos

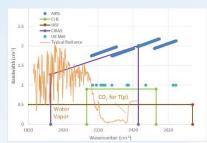




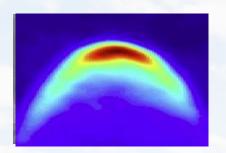
GNSS-RO Lemur, Spire



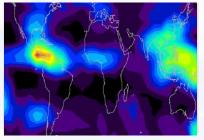
MW-Sounding
MiRata, MIT



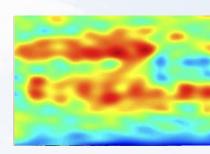
IR-Sounding CIRAS, NASA



DDM CYGNSS, NASA



Aerosol IceCube, NASA



Radiation RAVAN, NASA

THEN THERE WERE NANOSATELLITES



WITH THE COMPUTE POWER OF A CRAY

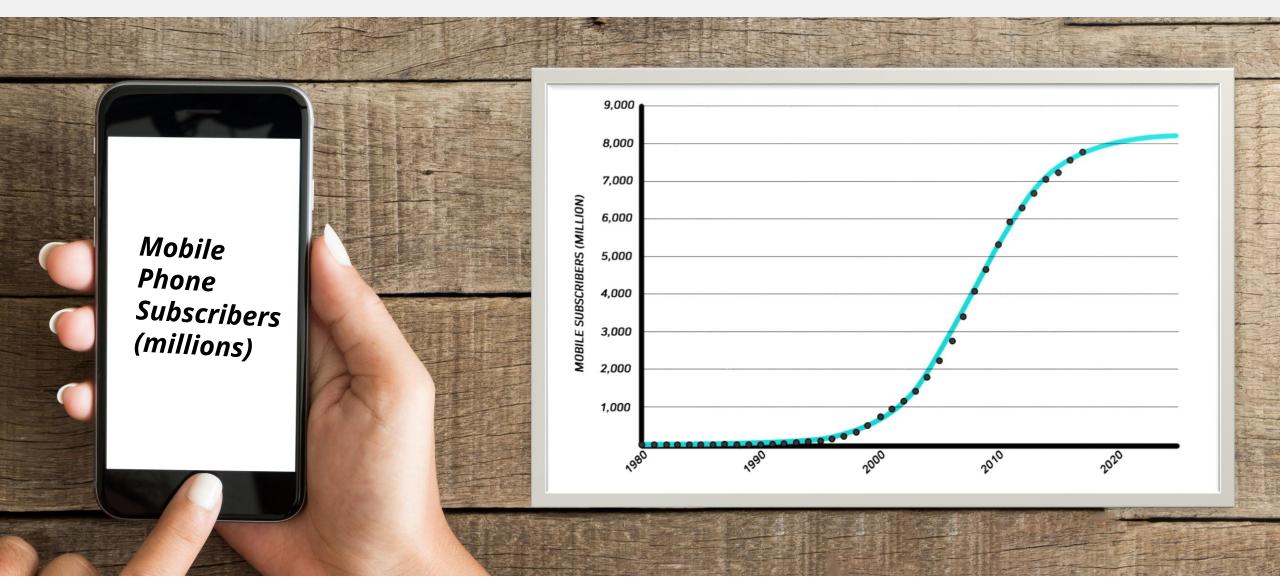


Cray-2 Supercomputer
1.9 GFLOPS

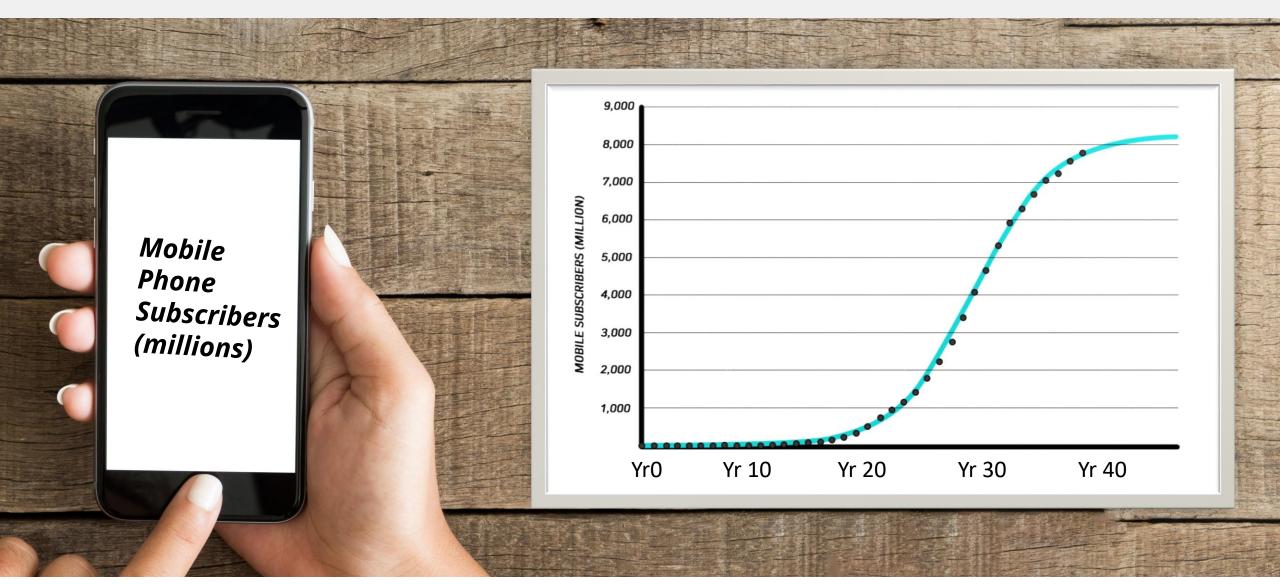


Spire's Nanosatellite >365 GFLOPS*

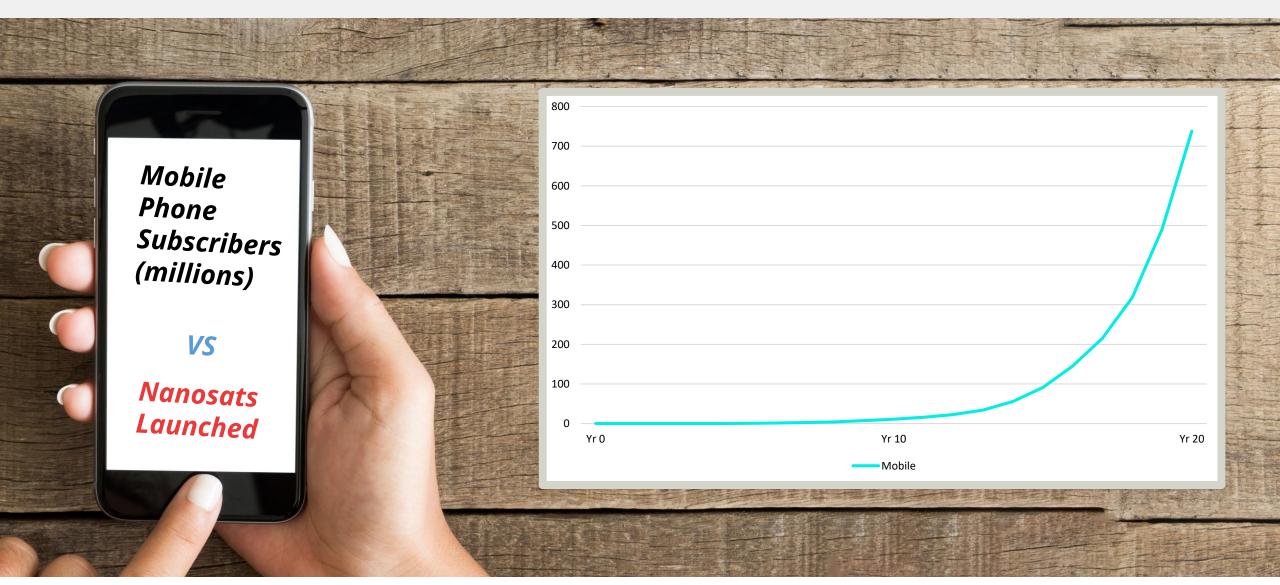




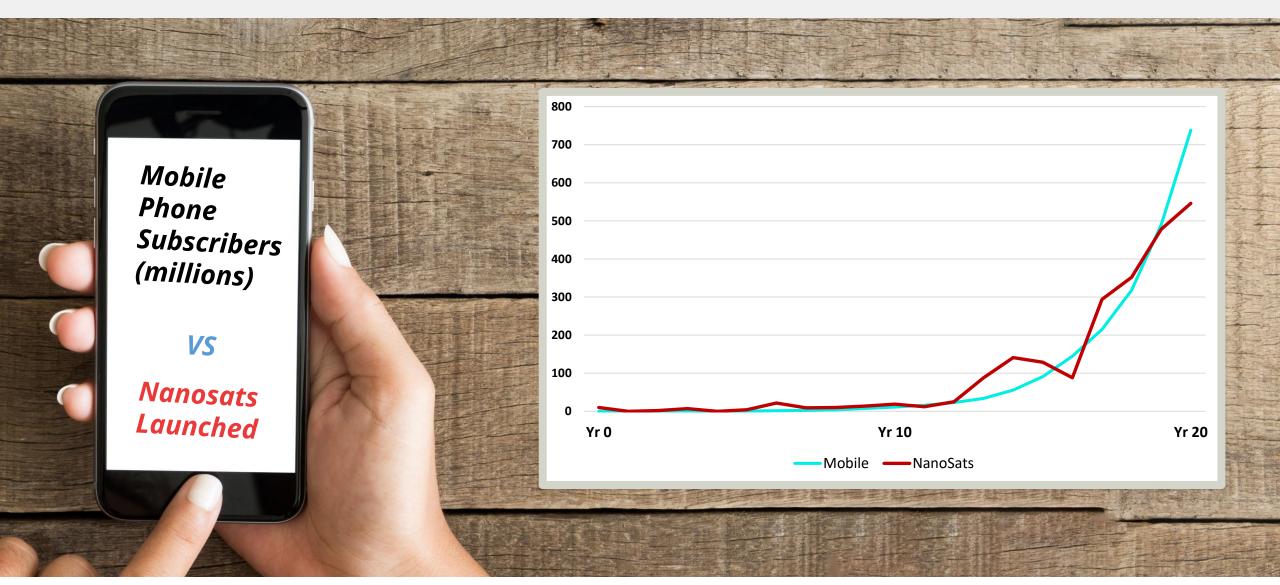




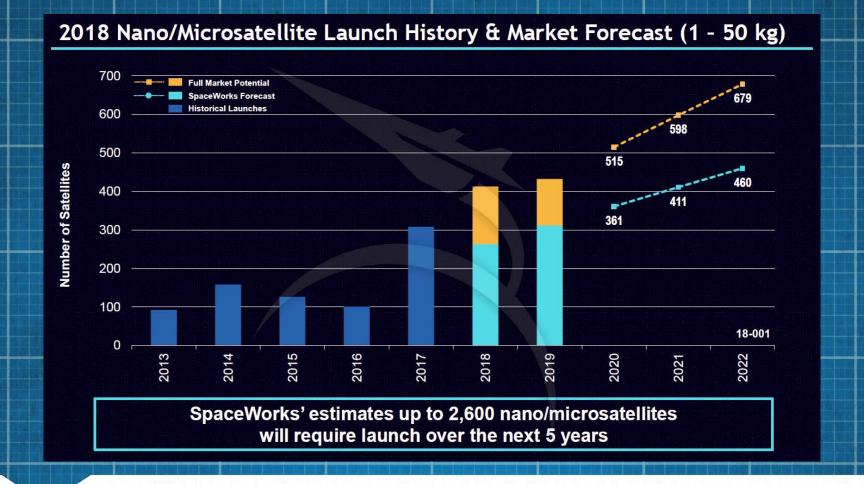












2,600 NANO/MICROSATELLITES OVER THE NEXT 5 YEARS

Forecasted by SpaceWorks, which had to re-adjust its forecast after 2017 outperformed projections

2017: 205% increase over 2016



COMMUNICATIONS SATELLITES

Today

100s of Satellites

Planned

10,000+ Satellites

SpaceX, Boeing, Sky Global, OneWeb, Keppler, etc

EARTH OBSERVATION SATELLITES

Today

< 50 Satellites

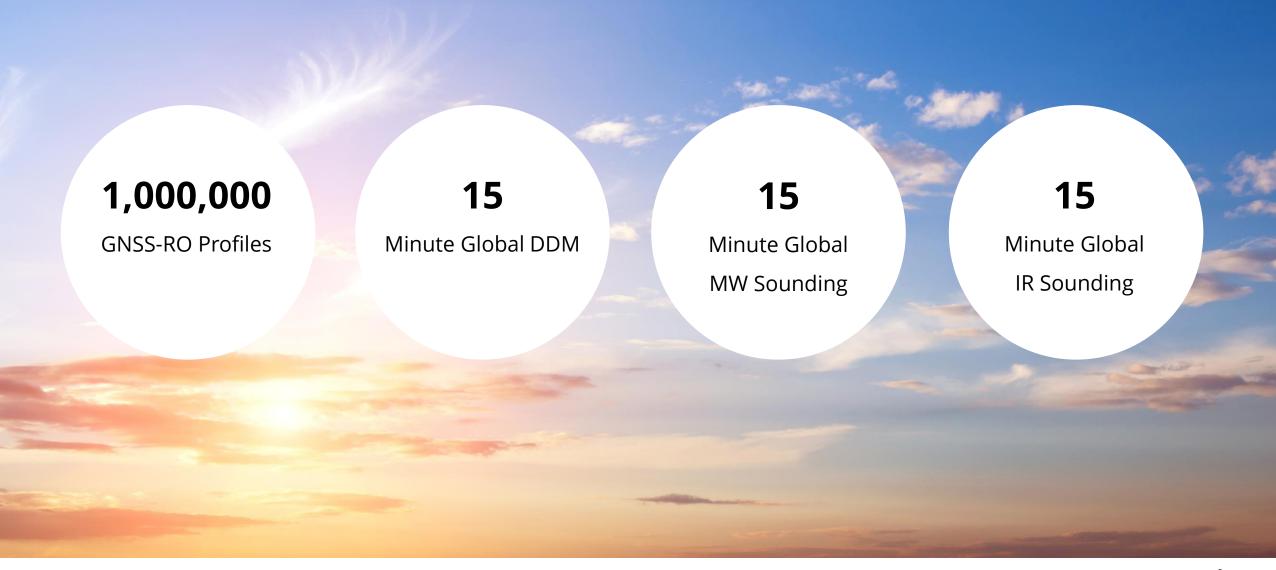
Potential

5000 Satellites

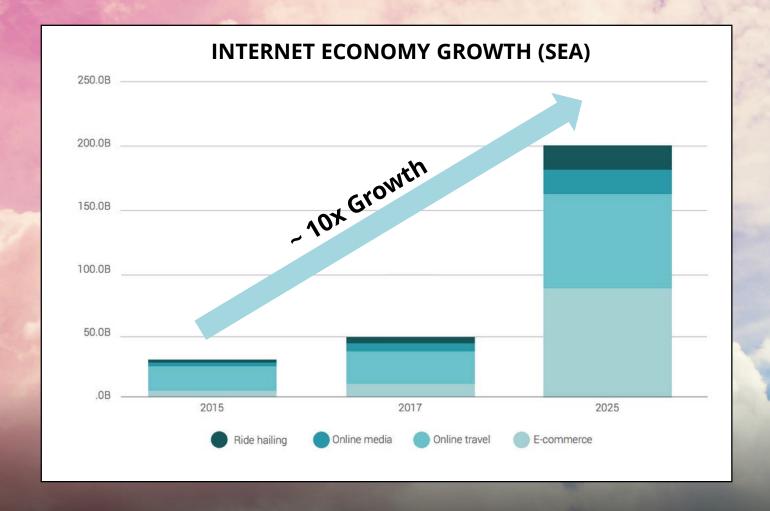
IMAGINE A FUTURE EARTH OBSERVING SYSTEM 5000 Satellites



IMAGINE A FUTURE OF THE GWE BY 2030 WITH:







I believe in the possibility of 10x GWE in 10 years

If we collaborate and support each other.



"I think there is a world market for maybe five computers."

Thomas Watson, IBM, 1943

"People will carry around small devices that allow them to constantly stay in touch and do electronic business from wherever they are."

Bill Gates, 10 years before the iPhone launched

WHOSE SIDE DO YOU WANT TO BE ON?



For any questions, please contact:

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