THE COMING GROWTH IN THE GLOBAL WEATHER ENTERPRISE

Brought To Earth Through A Small Satellite Constellation Near You
"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”.

Access

Use
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
“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*

* Conservative figure based on 2019 projection
NOW I WANT TO REALLY STRETCH YOUR IMAGINATION

**Mobile Phone Subscribers (millions)**
NOW I WANT TO REALLY STRETCH YOUR IMAGINATION

Mobile Phone Subscribers (millions)
NOW I WANT TO REALLY STRETCH YOUR IMAGINATION

Mobile Phone Subscribers (millions)

VS

Nanosats Launched
NOW I WANT TO REALLY STRETCH YOUR IMAGINATION

Mobile Phone Subscribers (millions)

VS

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

2017: 205% increase over 2016.

2,600 NANO/MICROSATELLITES OVER THE NEXT 5 YEARS
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:

- 1,000,000 GNSS-RO Profiles
- 15 Minute Global DDM
- 15 Minute Global MW Sounding
- 15 Minute Global IR Sounding
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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