





Global Forum on Emergency Telecommunications (GET-19)
Telecommunication Development Bureau (ITU-D)
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LOON PARTICIPANTS IN GET-19



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LOON, AN ALPHABET COMPANY





CONNECTIVITY

GREATER COVERAGE

NAVIGATION



THE BALLOON







LANDING AND RECOVERY

Today's configuration

- Extends and augments coverage of partners' terrestrial network(s)
- Direct to handset
- Works with standard LTE handsets



- 40 km radius
- >1 Gbps capacity
- Uses partner SIMs and core network









WE SAW STRONG MOMENTUM OVER THE PAST YEAR

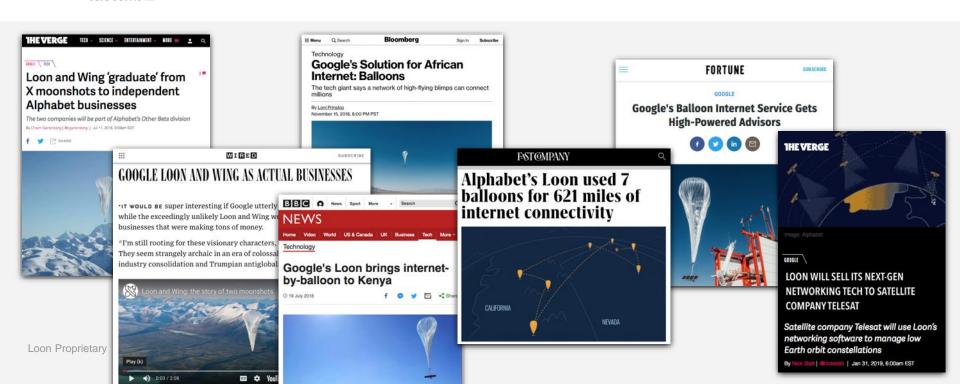
Loon, however, remains one of the rare Alphabet companies now plotting a clear path toward becoming a viable, self-sustaining venture.

the next moonshot to make waves

THE VERGE

they overcame all the things that make the idea of delivering internet access with high-flying balloons not just crazy, but nearly impossible __

WIRED





TELKOM KENYA HAS CHOSEN LOON TO PROVIDE LTE COVERAGE ACROSS UN-SERVED AND UNDER-SERVED AREAS IN KENYA



"This partnership demonstrates the **Board's commitment to guide** and oversee the transformation of Telkom into a business with a reputation for innovation, with respect to its product and service offering. This partnership with Loon is also true testament of our resolve to deploy pioneer technologies due to their potential impact on our customers."

--Mr. Eddy Njoroge, Board Chair, Telkom Kenya:

"This collaboration represents another important step towards Telkom's continued quest to provide high-quality, reliable and affordable data offerings to our customers and we remain focused to bring innovative solutions to the Kenyan market. Our association with Loon will therefore see us endeavor to pioneer in the use of high altitude balloons to provide LTE coverage across un-served and under-served areas in Kenya. This will greatly improve our network's availability to our consumers in areas that were initially challenging to service."

--Mr. Mugo Kibati, CEO, Telkom Kenya:

WE SUCCESSFULLY BROUGHT NETWORK CONNECTION OVER 1000 KM



Rapid Availability During Terrestrial Outages

Weather Resilient

Power Resilient

Rapid deployment

Standard Devices







Each balloon is solar powered (not reliant on power grid).



Balloons launched from
Puerto Rico and
Winnemucca, Nevada and
delivered to serviced
regions. No local staff
involved for activation or
deployment.
No shipment of equipment.

No logistics



System created to support standard LTE handsets.
Since no terminals need to be distributed, end users can quickly, and transparently, connect

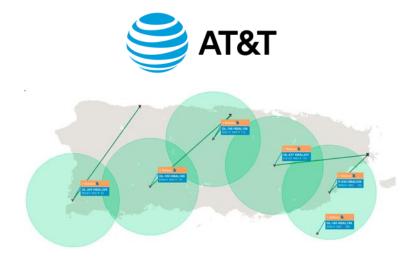
Emergency Deployments: A History of Helping

With minimal advance preparation, Loon can provide supplemental network coverage after a natural disaster. Each balloon covers over 5,000km², from islands to mountains, and can connect thousands of users direct to 4G smartphone.

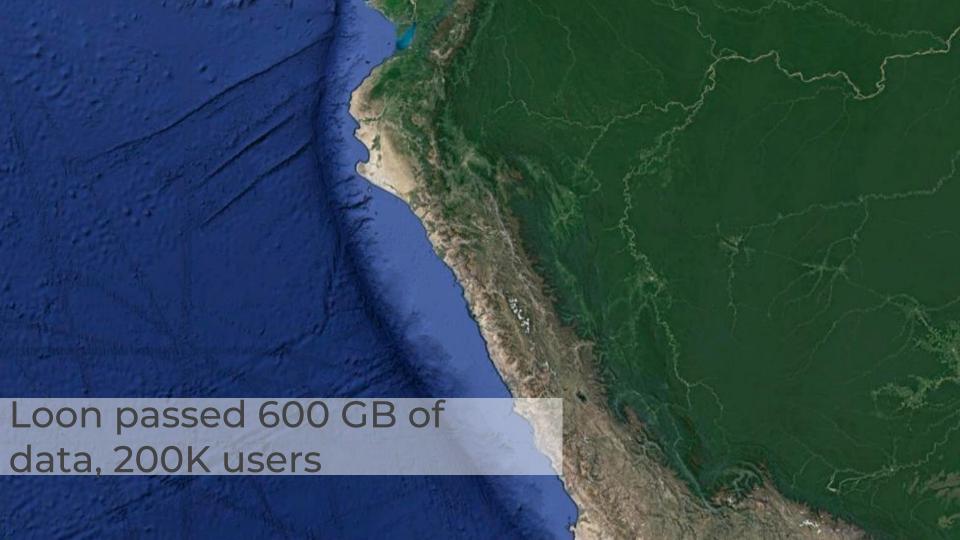




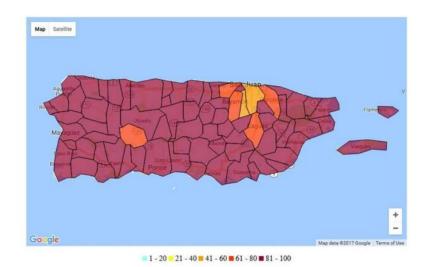
100,000+ LOON USERS IN PERU



200,000+ LOON USERS IN PUERTO RICO



Connectivity: Post-Hurricane



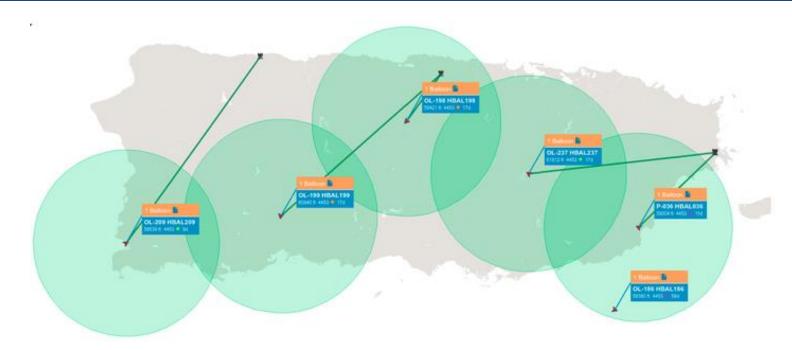


Red = connectivity knocked out as of Friday October 6

Humacao, Puerto Rico

*FCC, Hurricane Maria Communications Status Report, % cell sites down by county

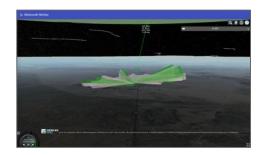
Expedient, Broad Coverage



250,000+ LOON USERS IN PUERTO RICO

Time to Prepare Instead of React

"Cloud"

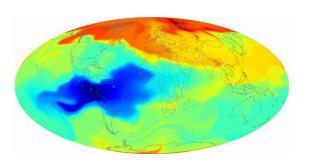


Network Interoperability, Architecture, & Routing Ground



Spectrum & Ground Infrastructure

Sky



Fleet Planning & Testing

SUSTAINABLE GALS





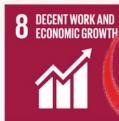
































TO RECONNECT AS MANY PEOPLE AS POSSIBLE, AS QUICKLY AS WE CAN



