

# OnePlus x Navitas

The Power of **GaNFast™**  
Technology on the  
OnePlus 10T<sup>5G</sup>



# Who is OnePlus?



**PETE LAU**

Founder of OnePlus & Chief Product Officer of OPPO

Inside every company, there is a passion. A passion to do better, believe in greater and dream of the best.

While other companies dream, OnePlus creates. Pushing the limits of what's possible, we defy the boundaries set by others and enable those around us to do the same.

This is our mission, to empower the world through better technology.

# Our Story

Founded in 2013 & arrived into the U.S. in 2018

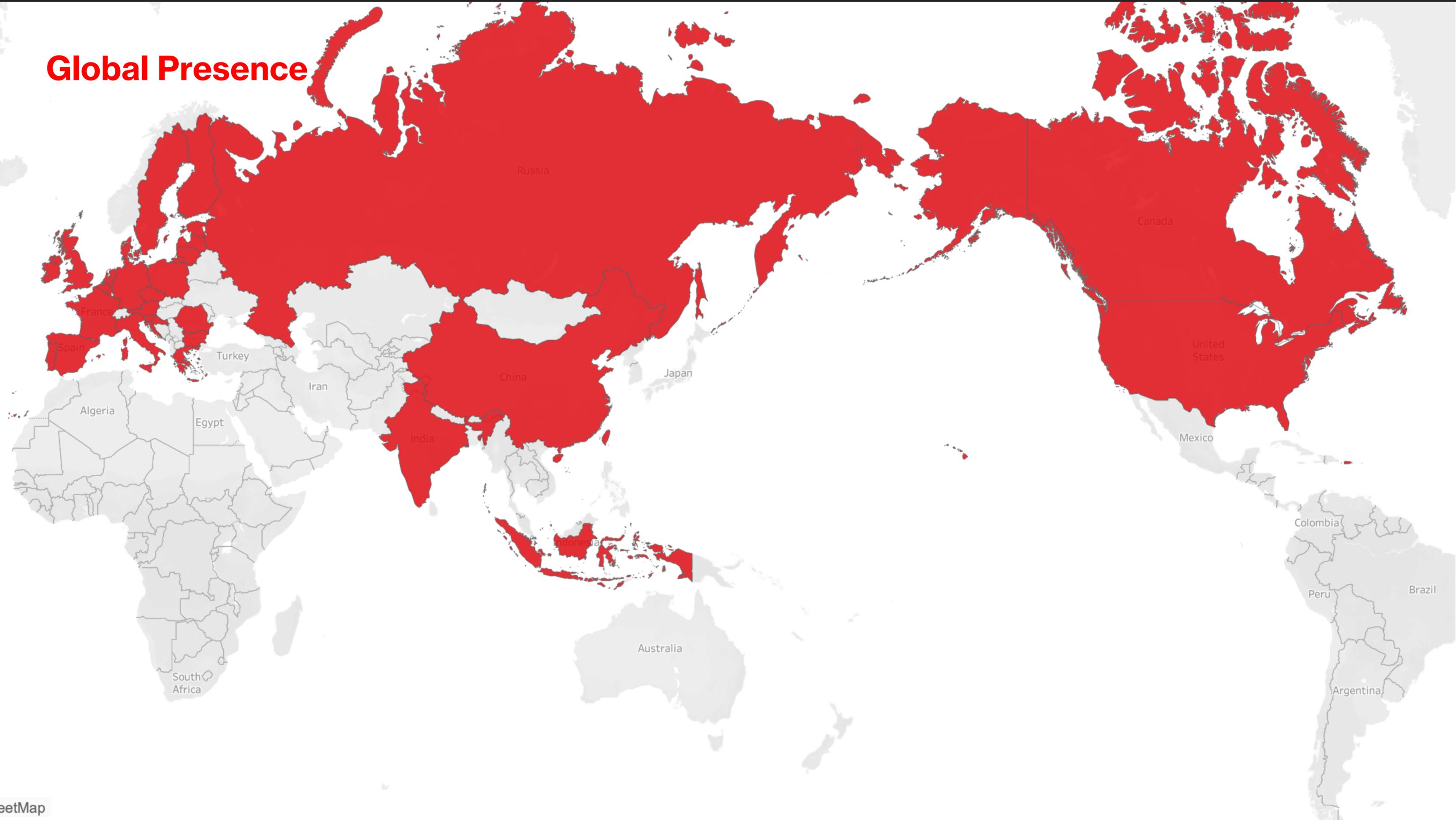
‘Never Settle’ – we are driven to always do better

‘One’ represents the way things are, and ‘+’ represents our desire to go beyond the status quo

Great products, with great technology, shared by great people.



# Global Presence



# Premium Flagship Devices



OnePlus One



OnePlus 2



OnePlus X



OnePlus 3



OnePlus 3T



OnePlus 5



OnePlus 5T



OnePlus 6



OnePlus 6T



OnePlus 7 Pro



OnePlus 7T



OnePlus 7T Pro



OnePlus 8



OnePlus 8 Pro



OnePlus 8T



OnePlus 9



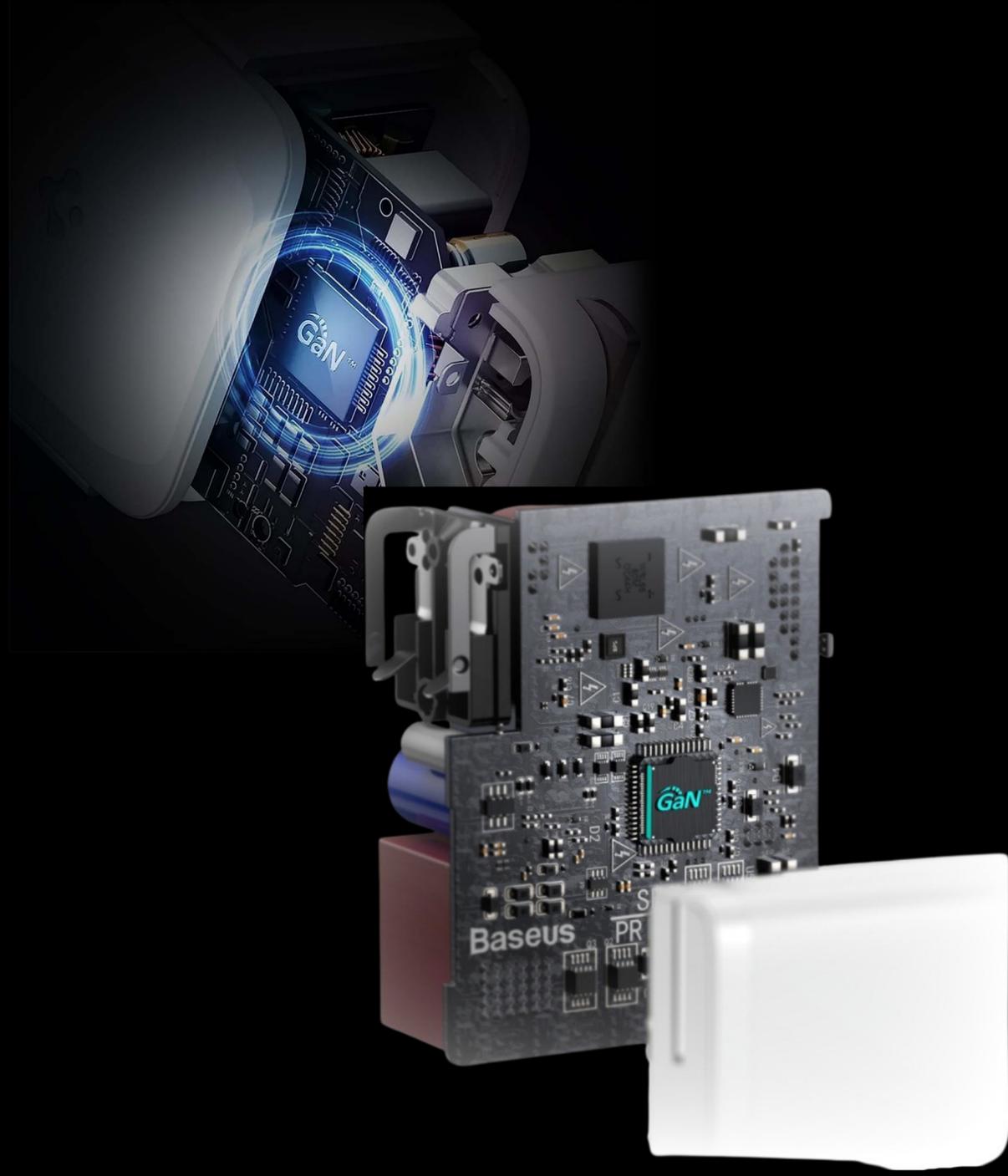
OnePlus 9 Pro



OnePlus 10 Pro

# The Power of *GaNFast*<sup>™</sup> in OnePlus Technology

# What is GaNFast™ Technology?



- Combining gallium (atomic number 31) and nitrogen (atomic number 7), gallium nitride (GaN) is a wide bandgap semiconductor material with a hard, hexagonal crystal structure.
- As bandgap determines the electric field that a material can withstand, the wider bandgap of gallium nitride enables the development of semiconductors with very short or narrow depletion regions, leading to device structures with very high carrier density.
- With much smaller transistors and shorter current paths, ultra-low resistance and capacitance is achieved, enabling speeds that are up to 100x faster.
- Ability to improve performance while reducing the energy and the physical space needed to deliver that performance when compared with conventional silicon technologies

# GaNFast™ Tech in OnePlus 10T<sup>5G</sup> & OnePlus 10R<sup>5G</sup>



**OnePlus 10T<sup>5G</sup> : 150W 1-100% in 19 minutes  
(125W in North America)**



**OnePlus 10R<sup>5G</sup>: 150W 1-100% in 17 minutes  
(Globally except North America)**

## Making 125W Charging Possible on the OnePlus 10T<sup>5G</sup>



- GaNFast ICs integrate GaN power with drive, control, protection and sensing to enable 3x faster charging with up to 40% energy savings in only half the size and weight of legacy silicon solutions.
- Using an NV6125 GaN IC for the high-frequency boost PFC, followed by a high-frequency QR flyback converter, the 160W charger measures just 58 x 57 x 30 mm (99 cc) with power density over 1.6W/cc.
- OnePlus chargers also follow USB-PD protocols, being able to safely fast charge laptops, gaming devices, etc.
- OnePlus has committed to having optimizations within the device in order to preserve battery health, such as the Battery Health Engine



**GaNFast™**

# Why OnePlus Invests in **GaNFast™** Technology for its Portfolio

# A Key Product Feature for the OnePlus Portfolio



## Addressing Concerns about User's Mobile Battery Health

64%

Will leave their handset plugged in for at least 40 minutes

97%

Would be interested in a phone that charges in less than 20 minutes

2/3

Users charge their phone at least twice a day and 64% of users charged overnight

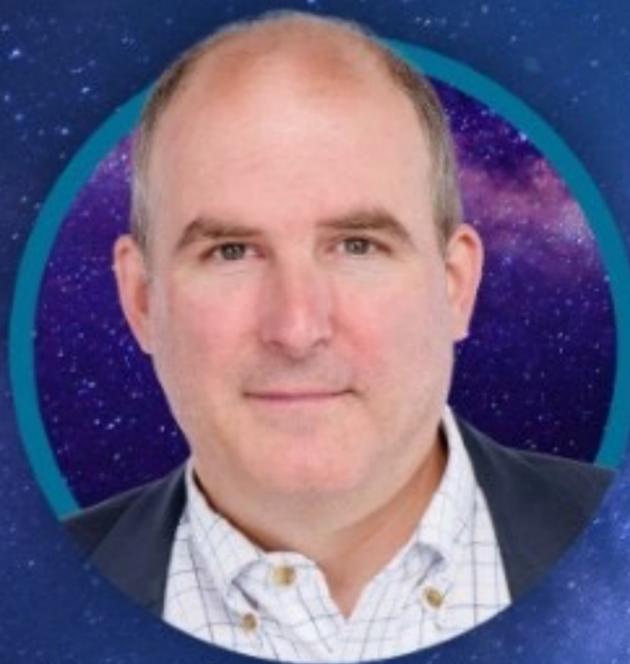
# Continuing our commitment of fast charging



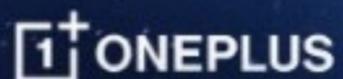
# Navitas *presents:*



**Spenser Blank**  
Head of PR, OnePlus North America



**Jim Harris**  
Strategic Advantage



*A GaNFast™ fireside chat at CES*  
11:30am 5th January

