

*Electrify  
Our World*™



**Gene Sheridan**  
**Co-founder and CEO**



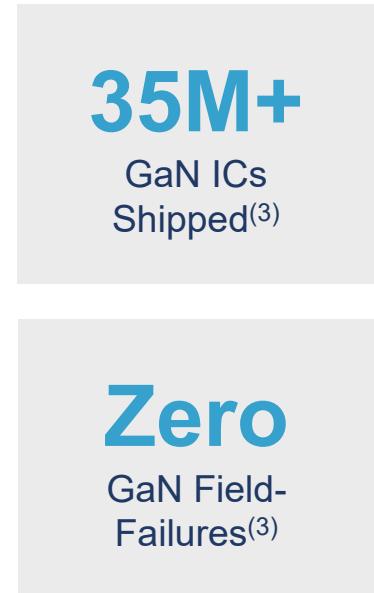
# Navitas

*Energy • Efficiency • Sustainability*

Nasdaq : NVTS



# GaN Expected To Replace Silicon In Power Applications



**20x**  
Faster  
Switching

**3x**  
Smaller &  
Lighter

**Up To  
40%**  
Energy  
Savings

**Up To  
3x**  
Higher  
Power Density

**3x**  
Faster  
Charging

**20%**  
Lower  
System Cost

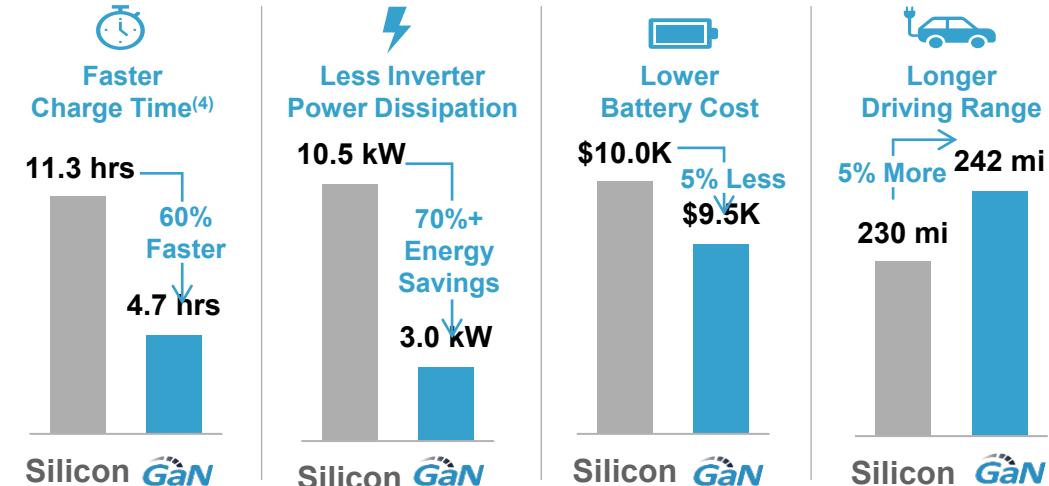
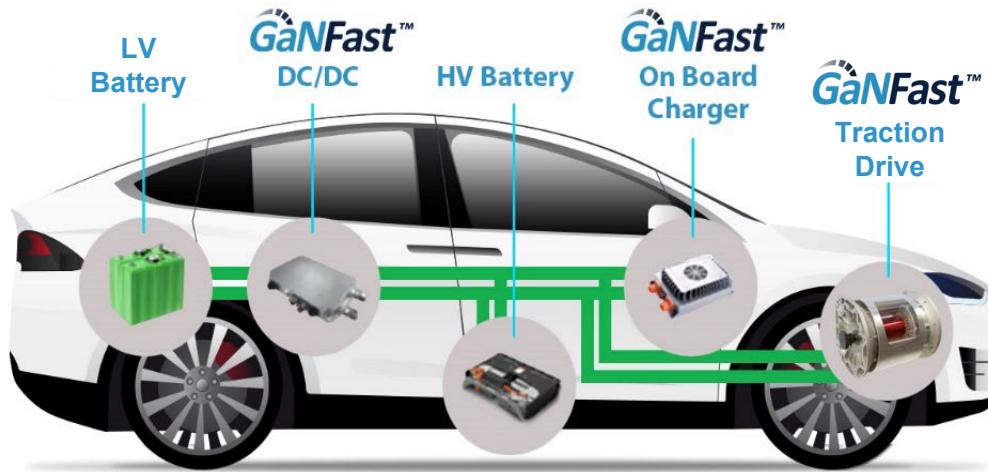
Navitas GaN Is Empowering Efficiency In Industries Where Power Is Key<sup>(1)</sup>

Note: Statistical data is based on Navitas estimate of GaN-based systems compared to Si-based in the 2024-2025 timeframe. Based on Navitas measurements of select GaN-based mobile wall chargers compared to Si-based chargers with similar output power.

(1) Relative to silicon, GaN has 10x stronger electrical fields and 2x greater electron mobility, enabling high voltages in fast chips and fast switching with high energy savings.

(2) #1 market share by number of charger designs in production (company data Oct'21), #1 share of power GaN shipments (TrendForce, Sep'21)

# Longer Range, Lower Costs: Accelerate Adoption by 3 Yrs <sup>(1)</sup>



- 3x faster charging<sup>(4)</sup>
- Extended range
  - 70% energy savings enables 5% extended driving range, or 5% lower battery costs<sup>(3)</sup>
- >\$2.5B/yr GaN OBC opportunity in 2030<sup>(2)</sup>
- \$400M opportunity with 1st EV customer (2025-30)

- OBC ~\$ 50
- DC-DC ~\$ 15
- Traction ~\$200
- GaN potential/EV => \$250 <sup>(5)</sup>

“Our current OBC product line up is Si & SiC. **GaN** will enable us to *further improve*.”  
“Navitas advantages are *simplicity of driving, high-speed, reliability & compact form factor*.”

VP Power Products

**BRUSA**

Note: Assumes 150 kW traction inverter, 100 kWh battery, \$100/kWh battery cost and typical 230 mile range.

(1) Based on DNV and Navitas analysis

(2) Based on BCG Research, Yole Research and Navitas analysis, 50M vehicles/yr and \$50 potential GaN content per OBC

(3) Navitas estimate based on discussions with major suppliers of power electronics to the electric vehicle industry.

(4) 6.6 kW Si OBC vs. 21 kW GaN OBC assuming a 90 kWh battery and 80A wall charge limit.

(5) Navitas estimate based on discussions with major suppliers of power electronics to the electric vehicle industry.

# Accelerating EVs



“Navitas Announces First-Time Availability of GaN power ICs for Data Center, Solar and EV Customers”  
(December ‘21)



“Navitas Opens World’s First GaN IC Design Center Dedicated to EVs”  
(Shanghai, China January ‘22)



Accelerate transition from ICE to EV by 3 years, saving 20%/year of road sector emissions by 2050 <sup>(1)</sup>

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