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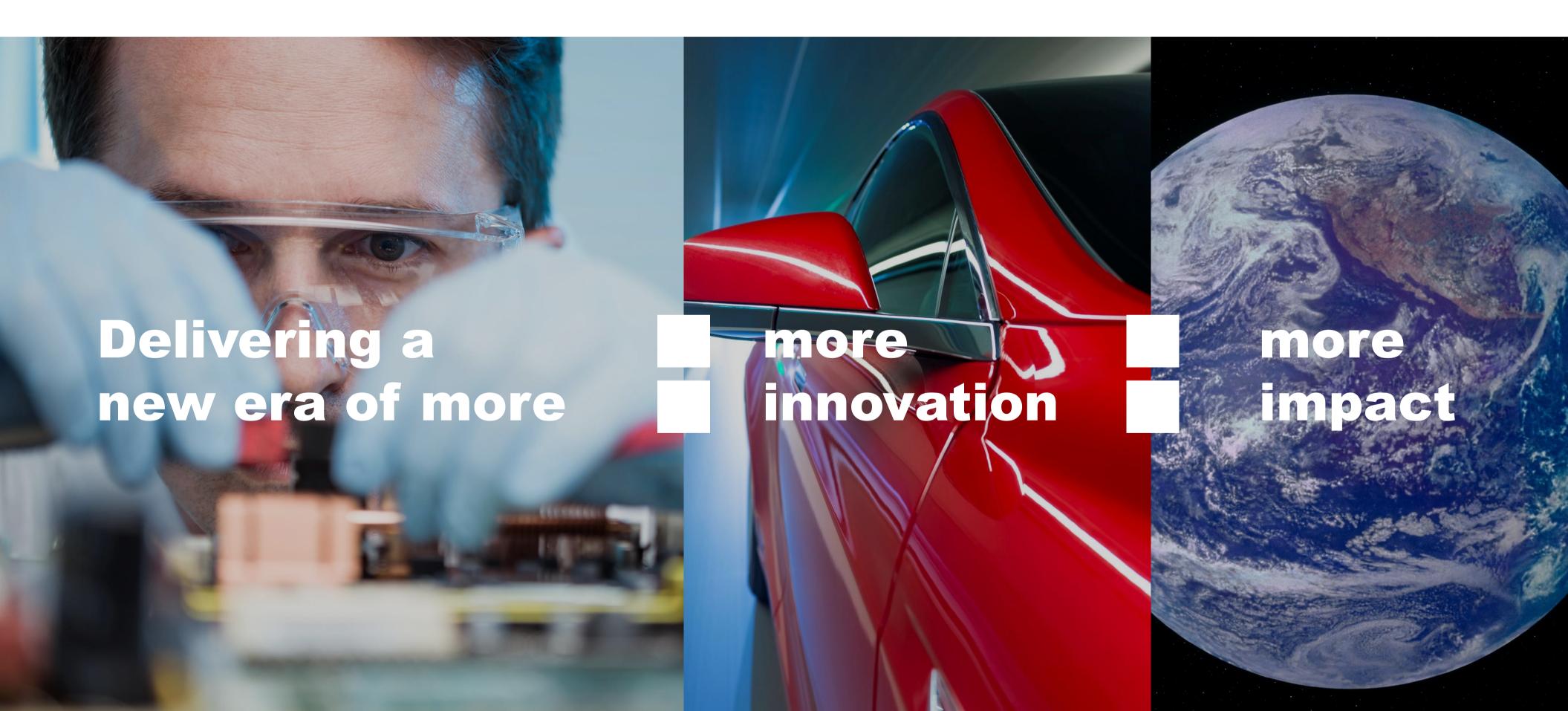
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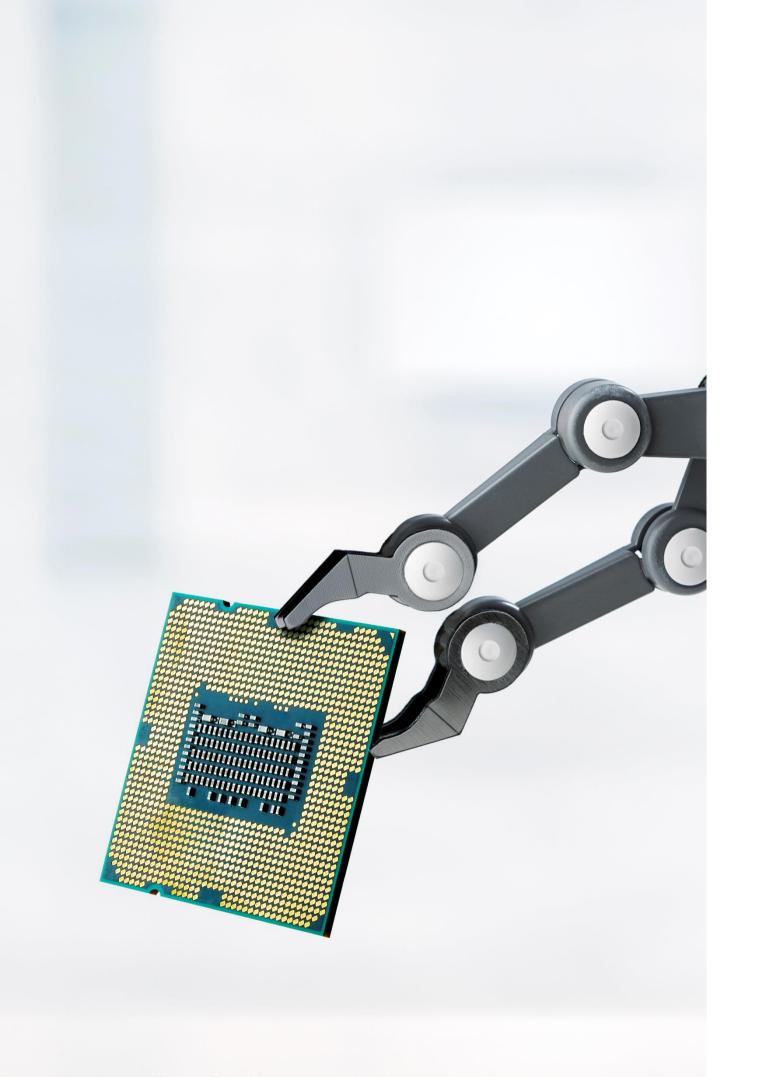
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GF at a glance

\$3B*

1H 2021 revenue

>200

customers in 2020

~2M

2020 wafer shipments (300mm eq.)

~10,000

patents

Five

manufacturing sites across three continents

~15,000

employees

\$32B*

design wins since 2018

~80%

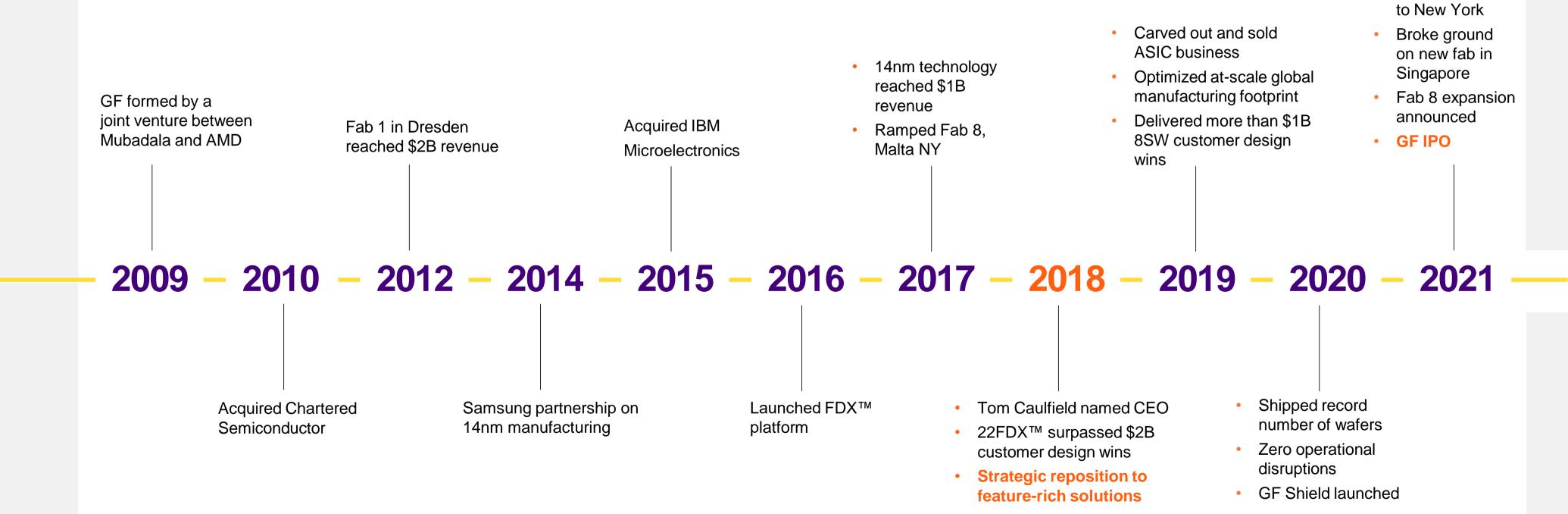
of 2020 design wins for single-source business

>85%

smartphones on the market today with GF RF inside

Note: *Results are unaudited

The making of a global semiconductor manufacturer



Moved HQ



Our Mission

We innovate and partner with our customers to deliver technology solutions for humanity.

We manufacture semiconductors around the globe.

Our Vision

We are changing the industry that is changing the world.

Our Values

Create

- Innovate beyond what is possible today
- Differentiate our technology to enable customer success
- Have a passion for problem-solving
- Create value for our customers and for our shareholders

Partner

- Collaborate across all borders & boundaries
- Strive for win-win outcomes
- Build trust as the basis of every relationship

Embrace

- Diversity is a competitive advantage
- The best ideas comes from being inclusive
- Act with a shared sense of purpose
- Respect everyone

Deliver

- Our customers can count on us to deliver on our commitment
- Work effectively, efficiently and decisively
- Focus on outcomes and are accountable for results
- Celebrate and reward success
- Nothing matters without safety

All with unyielding integrity

GFShield: a foundation of trust



Beneficial geopolitical landscape

During times of increasing international trade conflicts, GF benefits from the resilience of global scale of operations in stable low-risk geographies (United States, Germany and Singapore)

Pedigree of secure at-scale manufacturing

- 1. Only pure-play foundry in The United States Department of Defense Trusted Foundry Program
- 2. ISO 15408 Certification to manufacture Common Criteria Secure Products
- 3. ISO 27001 Certification for Information Security Management

Intellectual Property (IP) protection

With an industry-leading track record protecting GF IP and customers' IP

In a world of escalating threats and risks in the technology sector, our foundation of trust offers a strong competitive edge

Commitment to ESG



Environmental

Journey to Zero Carbon: 25% Greenhouse Gas (GHG) emissions reduction by 2030

>36K annualized metric tons of Carbon equivalent savings achieved in 2019 / 2020

>415K annualized cubic meters wafer savings achieved in 2019 / 2020

Social

13 total GF Awards in 2019, 2020 and 2021 for exceptional performance in CSR and EHS

200 / 200: Perfect scores in 2020-2021 Responsible Business Alliance audits

World Class: GF TRIR 2020 safety rate (0.13) lowest in our history

GF named one of "America's Safest Companies" in 2020*

Governance

4 independent Board directors

Independent audit, risk, and compliance committee

Experienced global compliance function

Enterprise risk management framework

Conflict-free supply chain for 3TG: gold, tantalum, tungsten and tin

Markets and Solutions

Foundries are essential to global GDP

Market Size (2020)

\$80.6T

Global GDP

Electronics

1,000s of companies

















\$466B Semiconductors

+7.9% **CAGR** growth (19-25)

100s of companies



SKYWORKS°



AMD











+10.1% $(19-25)^{1}$ Foundry¹

Only 5 at scale²









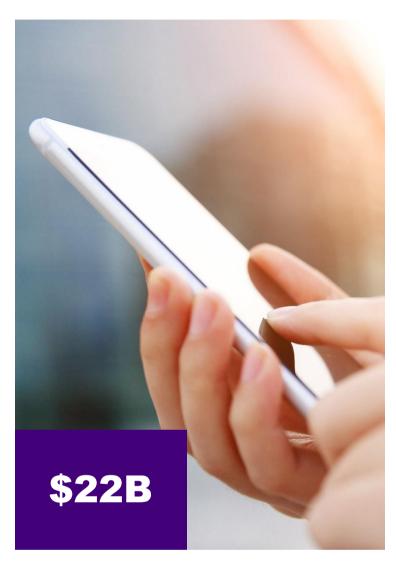


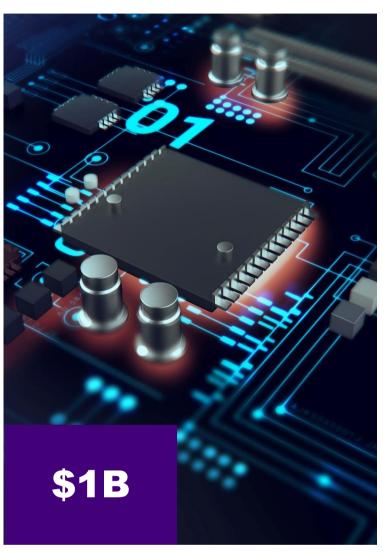
Source: Derived from Gartner data. Gartner Forecast, Semiconductor Foundry Revenue Supply and Demand Worldwide 2Q21 Update, July 2021 Notes:

(1) Excluding memory.

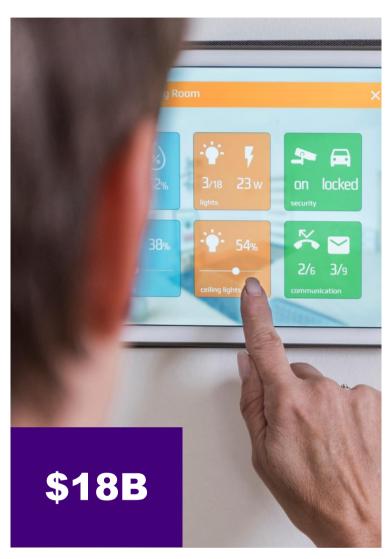
(2) Excludes smaller foundry players, defined as those with less than \$2Bn of foundry revenue

Focused on growth markets











Smart Mobile Devices

Personal Computing

Communications
Infrastructure &
Datacenter

Home and Industrial IoT

Automotive

\$54B total foundry SAM

Smart Mobile Devices

4G LTE/5G: RF FE Sub-6GHz

RF SOI

Higher Data Rate Power Efficiency

5G: RF FE mmWave

FDXTM

Expanded Range Power Efficiency

4G LTE/5G: Transceiver

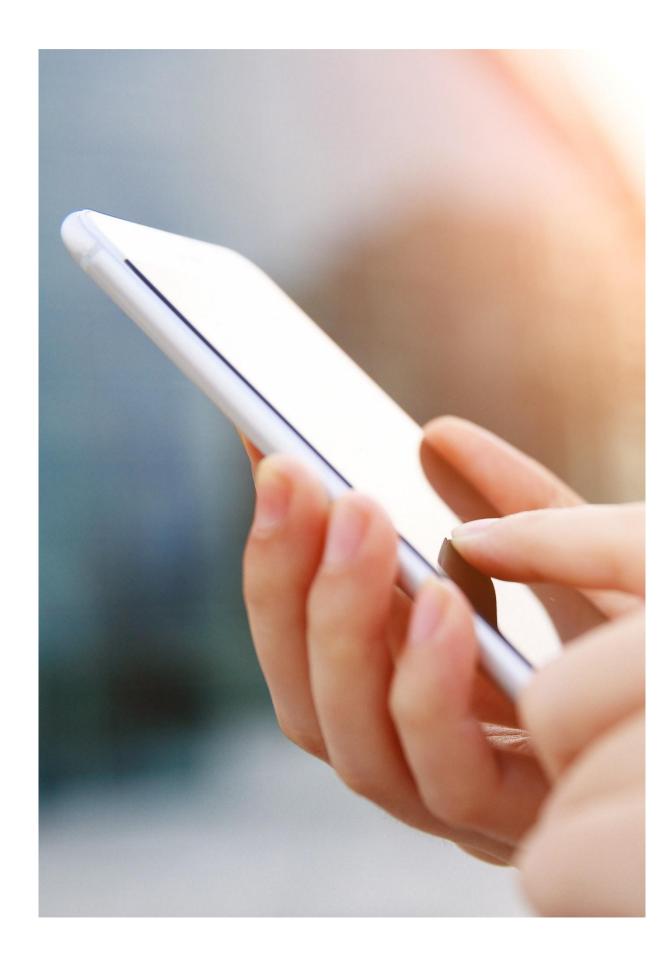
FinFET

Higher Data Rate Power Efficiency

Wi-Fi: Wi-Fi 6/6E

FinFET

Higher Data Rate Power Efficiency



Camera: Optical Imaging

Feature-Rich CMOS
Sensor Fusion
Power Efficiency

Smart Audio

Feature-Rich CMOS (BCD, eNVM) Audio Quality Haptic Response

Secure Payment: NFC

Feature-Rich CMOS (eNVM)
Integration of NFC+ Secure Element
Secure Manufacturing

Touch Screen: Display

Feature-Rich CMOS
Functional Integration
Power Efficiency

Power Management: RF, Audio

Feature-Rich CMOS (BCDLite®), FDX™
Increased Efficiency
Smaller Form Factor

GF has 75% of Silicon area in top premier smartphones in RF FE, Audio & NFC

Personal Computing

Display: Display Driver & Touch Controller

Feature-Rich CMOS
Sensor Fusion
Power Efficiency

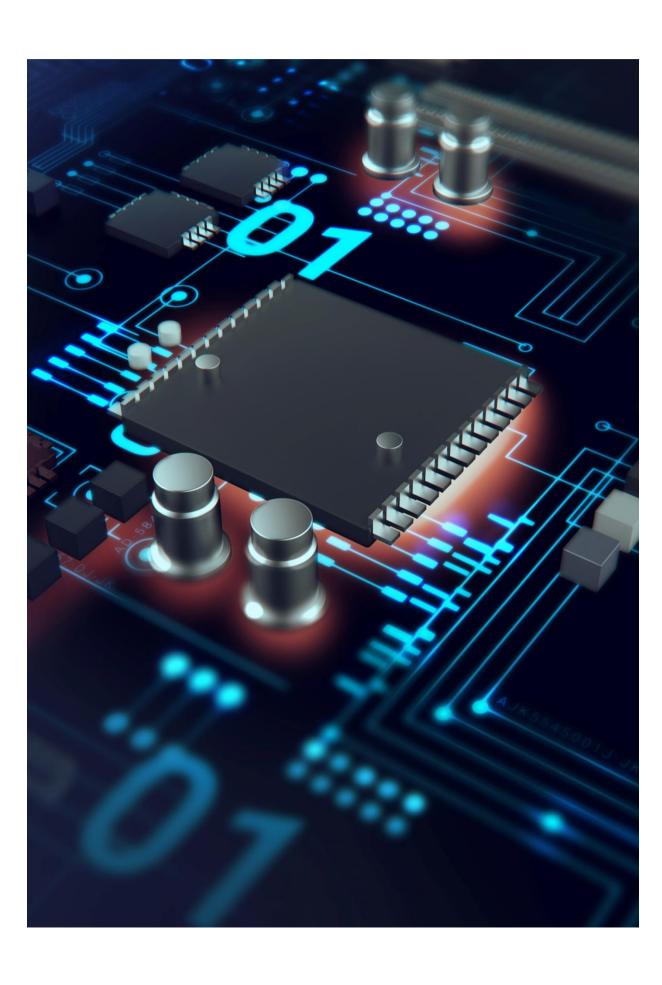
Wi-Fi Connection: Wi-Fi

FinFET
High Transfer Rate
Power Efficiency

Processing and control: IOD

FinFET
High Transfer Rate
Power Efficiency

USB Connection: ReDriver SiGe BiCMOS



Power Features: Power

Feature-Rich CMOS (BCD, eNVM)
Power Efficiency
Power Management

Speaker: Audio

Feature-Rich CMOS (BCD)
Power Efficiency
Power Management

Main Processing: CPU

FinFET
High Transfer Rate
Power Efficiency

Communications Infrastructure& Datacenter

5G Infrastructure: RF FEM mmWave

RF SOI, SiGe, 22FDX®
RF mmWave
Power efficiency

5G Infrastructure: Network processor / Switch

FinFET, Feature-Rich CMOS
Performance analog/mixed signal

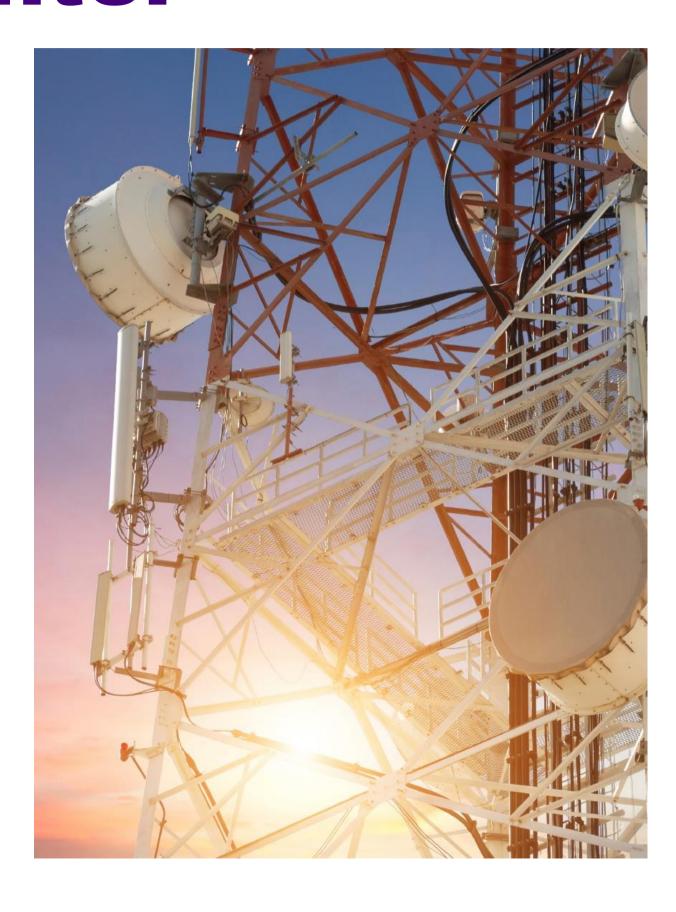
Data communications: Redriver

SiGe

Signal loss compensation Data reliability & integrity

4G LTE/5G Infrastructure: RF FEM Sub-6GHz

RF SOI, SiGe RF features Power Efficiency



Connectivity: Optical networking

Silicon Photonics
Data throughput >4x Cu
Cu replacement for inter and intra DC
connectivity

Chiplets/2.5D/3D: IOD/PCH

FinFET

Performance analog/mixed signal High DT capacitance -> efficient 2.5D integration

Novel compute: Al/Photonics/Quantum

FinFET, Silicon Photonics
System integration: electronics & photonics
Highest performance/power efficiency

Power delivery

Feature-rich CMOS (BCDLite®)
High Voltage
High efficiency

Home and Industrial IoT

Smart Camera: Image Sensing

FDX™

Edge Intelligence Low Power Connectivity

Smart Features: SoC

Feature-Rich CMOS
High Transfer Rate
Power Efficiency
Edge Intelligence

Smart Control: WL MCU

FDX™

Power

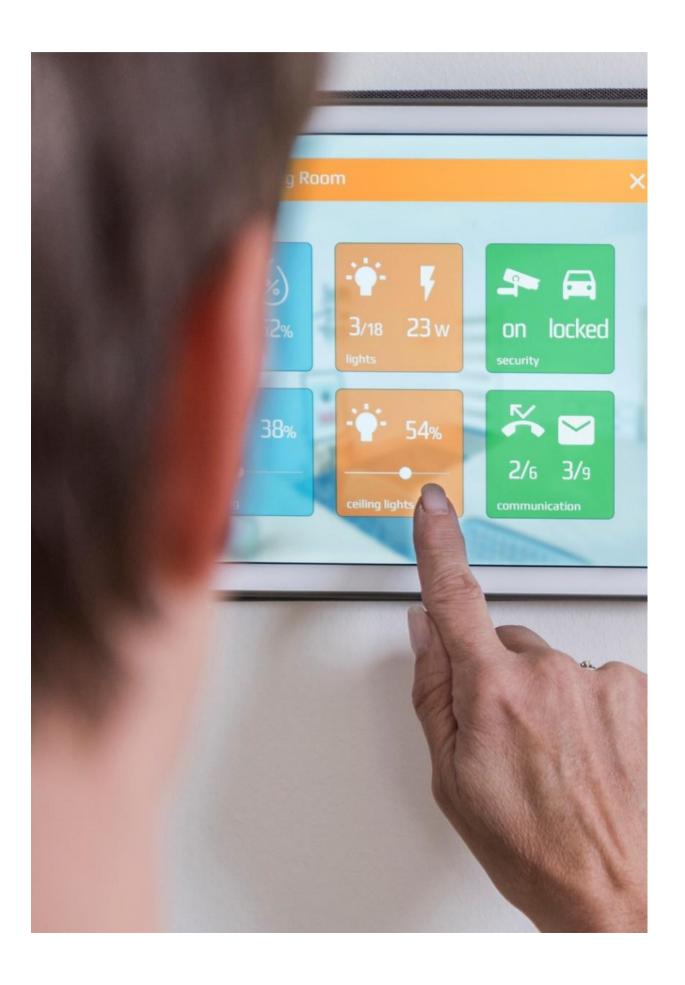
Wireless (BLE, Wi-Fi, 15.4)

Smart Features: MCU

Feature-Rich CMOS (BCD)
Power Management

Secure Transactions/ Interactions: NFC

Feature-Rich CMOS (eNVM)
Power Efficiency



Smart Speaker: Audio

Feature-Rich CMOS (BCD, eNVM)
Power Efficiency
Power Management

Wi-Fi Connection: Wi-Fi

FDXTM

Edge Intelligence Low Power Connectivity

Touch Screen: Display

Feature-Rich CMOS
Sensor Fusion
Power Efficiency

Medical IoT: Medical Sensing

FDXTM

Edge Intelligence Low Power Connectivity

Automotive

5G Connection: RF FEM mmWave

FDX[™] RF mmWave Low Power Connectivity

Vehicle Power: DC-DC, BMS, Charger

Feature-Rich CMOS (BCD, eNVM)

High Voltage

Precision

Power Efficiency

Power Management

Vehicle Network: Zone/Domain/Fusion Controllers

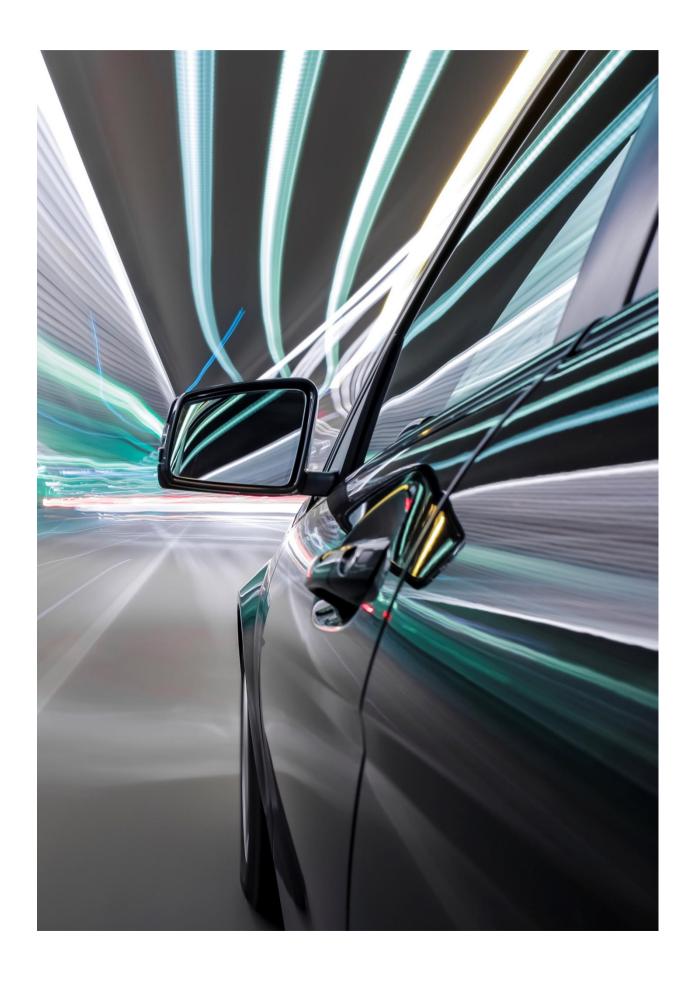
FDX™, FINFET
Power Efficiency
High Performance
High Temperature

Comfort/Customization/ Keyless Entry: MCU, NFC, BLE, UWB

Feature-Rich CMOS (eNVM)

Power Efficiency

Edge Intelligence



ADAS: Radar

FDX[™]
RF mmWave
Power Efficiency
Edge Intelligence

Touch Screen: Display

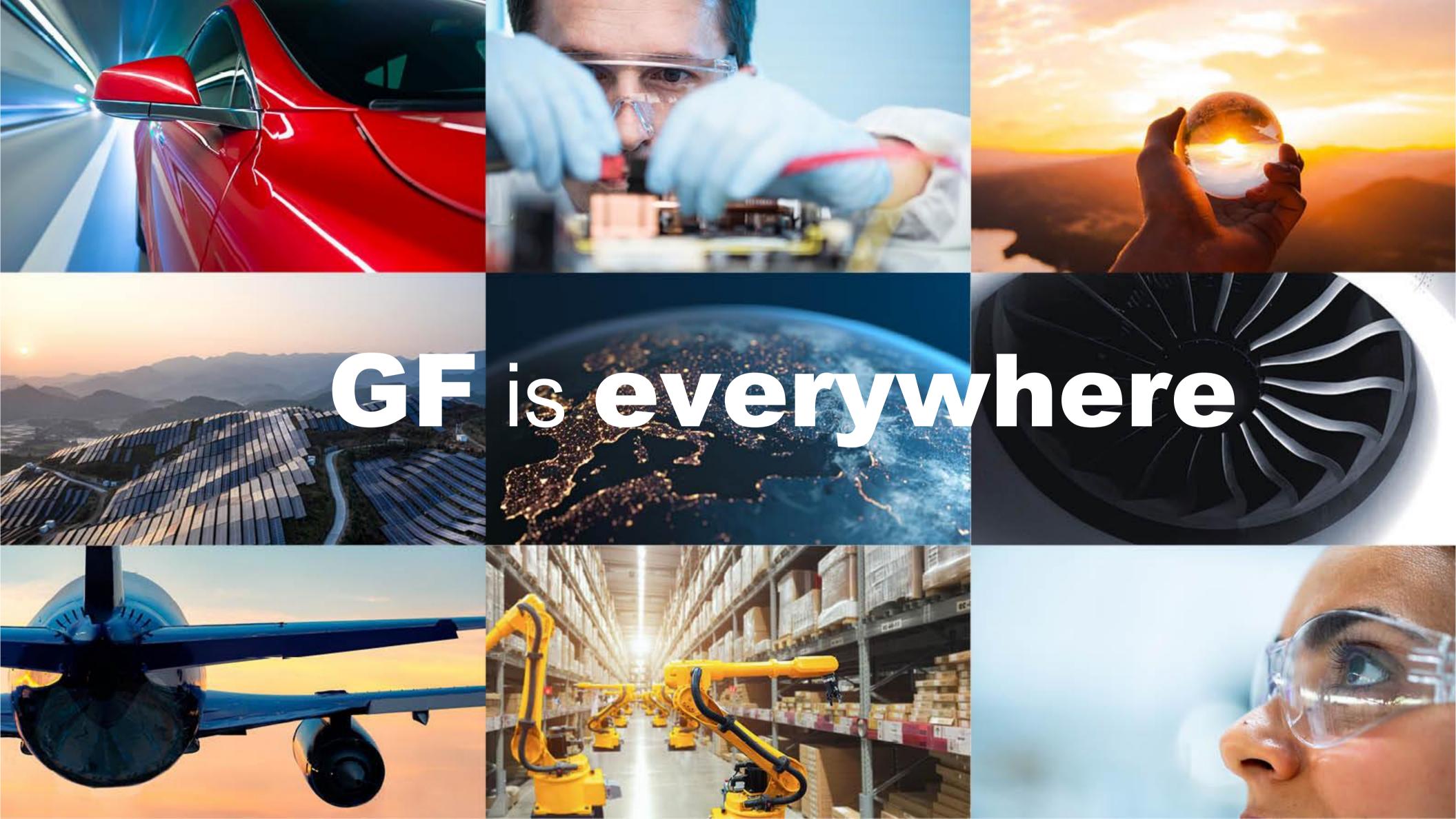
Feature-Rich CMOS
Sensor Fusion
Power Efficiency

ADAS: LIDAR

Silicon Photonics
High Transfer Rate
Power Efficiency
Edge Intelligence

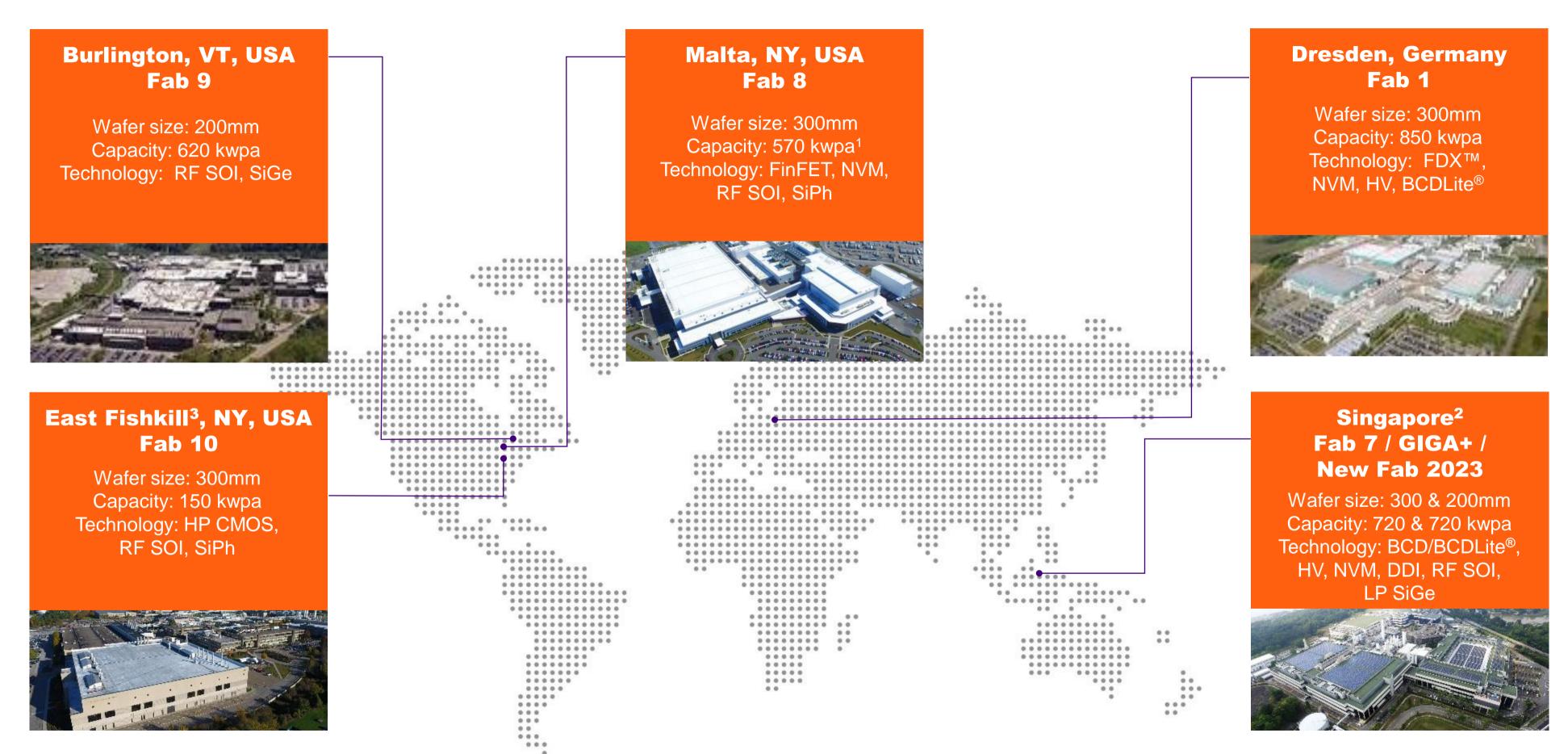
User Experience: IVI, Cluster

Feature-Rich CMOS (BCD)
Power Efficiency
Power Management



Global Footprint

Global manufacturing footprint



Notes:

- (1) Kwpa is defined as at-four-walls thousand wafers per annum.
- (2) Includes 450 kwpa planned capacity increase at new fab.
- (3) We plan to transition our facility in East Fishkill to ON Semiconductor by the end of 2022.



99%

line yield up to 15 years reliability >31M

hours worked in 2020 at better than safety benchmarks

Zero

stock outs impacting customer commitments

800 NPIs

per year, ramped in 6-9 months to HVM 99%

on time delivery



Singapore \$4B modular expansion underway

Broke ground Q2'21

450kwpa serving Auto, Mobile, IoT

Secured government grants partnership



Malta modular capacity expansion planning underway

Expansion announced in July 2021

Strong government partnerships

Engineering and feasibility studies underway

Technology Development and Enablement



~1400

Technologists in dedicated research teams

>30K

Wafers per year dedicated to development

>50

Universities, government partners and other research institutes partnered in collaborative efforts

>150

Differentiated programs built on 25+ world class platforms

Differentiated technology platforms



Feature-Rich CMOS

Complementary
Metal-Oxide
Semiconductor

Mixed-Technologies for Power Management, High-Voltage, Embedded Memory

>3 billion high-end audio amp units (BCDLite) shipped

>150K DDIC wafers shipped



FinFET

Fin Field-Effect
Transistor

High Performance,
Power Efficient
"Systems-on-a-Chip"

Scarce capacity – GF one of three foundries and adding unique features



FDXTM

Fully-Depleted SOI

Enabling New High- Performance, Low- Power Applications

Supports two of top three 5G mmWave FEM design companies



RF SOI

RF Silicon-on-Insulator

Low Power/Low Noise/Low Latency/High Frequencies

1st fully qualified highvolume RF SOI Foundry solution on 300mm wafers



SiGe

Silicon Germanium

Power Amplifier and Very High Frequency Applications

Highest fmax SiGe BiCMOS foundry process in volume production at 400GHz with roadmap to 1THz



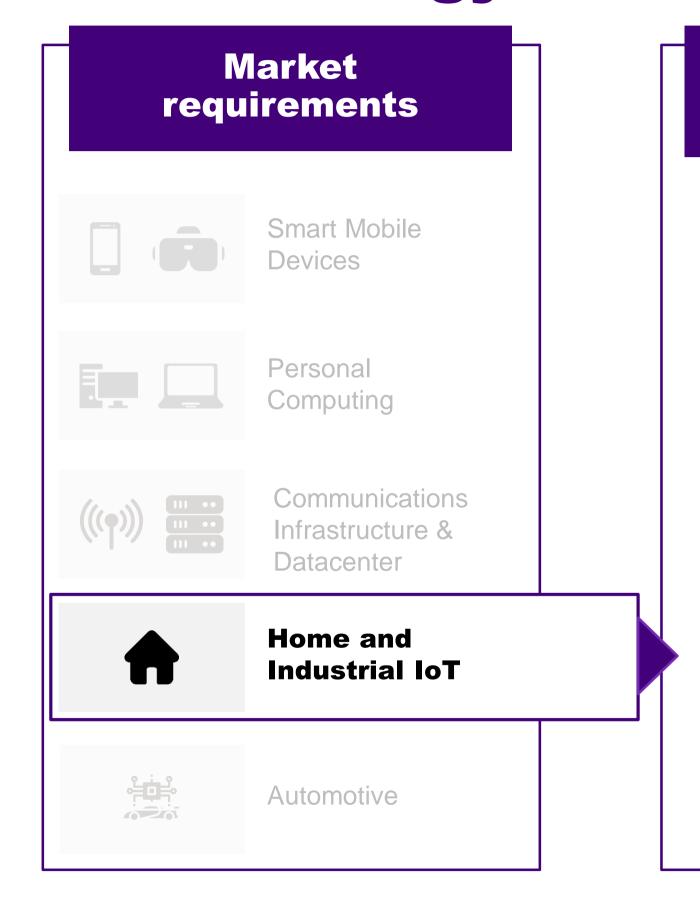
SiPh

Silicon Photonics

Higher Data Rates with Greater Power Efficiency

5-10x better power efficiency than long range electrical interconnect

How we innovate: market-centric approach to technology solutions



Technology requirements

Device performance

Power efficiency

Low latency

RF connectivity

Security elements

Reliability

Application-enabling IP

GF Technology solutions

Platform

Transistor targets, ULP Operating voltage

Features

RF & mmWave
Embedded memory
Automotive grade
BCD, HV

IP / Enablement

Foundation IP
Complex / application IP
PDK



>50

Ecosystem partners spanning IP, EDA, OSAT and design services

>4000

Total IP titles across all nodes

>950

IP titles currently in active development across 26 process nodes and 34 IP partners

>200

Customers enabled by ecosystem partner IP in the last 5 years

>1500

Customer designs enabled by ecosystem partners in the last 5 years

Our People



~15,000

employees

90

nationalities in 13 countries

>1000

new college graduates hired 2018 – present

~25%

female workforce

~10,500

employees working in STEM fields

~75%

employees with university degrees (PhD, masters, bachelors)

~80%

engineers, technicians and operators



Investing in our team and communities

1.4M

hours invested in training our employees in 2020

>3100

GlobalGives employee members

\$2.2M

donated in 2020, includes employee donations with corporate funding

>2500

Employee resource group members worldwide

- GlobalWomen
- BRAG (Black Resource Affinity Group)
- GlobalFamilies
- VRG (Veterans Resource Group)

- Early Career and Tenure Resource Group
- Unidos, Hispanic/LatinxResource Group
- ASIA (Asian Society for Inclusion and Awareness), AAPI Resource Group
- Pride@GF, LGBTQ+ Resource Group

GF senior leadership team



Thomas Caulfield

Sales & Business Development



Juan Cordovez
SVP Global Sales



Americo Lemos SVP Asia Business Dev. & China Country President





Dr. Bami BastaniSVP & GM, Mobile &
Wireless Infrastructure



Amir FaintuchSVP & GM, Computing &
Wired Infrastructure



Mike Hogan
SVP & GM, Auto, Industrial
& Multi-market

Technology & Solutions



Gregg BartlettSVP Global Technology,
Engineering & Quality



Mike Cadigan
SVP Customer Design
Enablement

Manufacturing & Operations



KC AngSVP Global Fab
Operations



Tom WeberSVP Global Operations Support
& Supply Chain

Corporate



Saam Azar SVP & Chief Legal Officer



Sukhi NageshVP Corporate Development &
Investor Relations



Will Billings
VP & Chief Accounting Officer



David ReederSVP & Chief Financial Officer



Laurie Kelly
VP & Chief Communications Officer



Emily Reilly
SVP & Chief Human
Resources Officer

GF board of directors



Ahmed Yahia Al Idrissi Chairman of the Board



Thomas Caulfield



Tim Breen



Ahmed Saeed Al Calily



Glenda Dorchak

Independent



Martin L. Edelman



David Kerko
Independent



Jack Lazar



Elissa Murphy
Independent



Carlos Obeid



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