



# The Heartbeat of Electronics

SiTime is Transforming the World of Timing



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# SiTime at a Glance – A Timing Leader

## Key Facts



Siliconizing Timing  
Using Silicon MEMS



Fabless Analog  
Semiconductors



Santa Clara, CA  
with global presence



IPO November 2019



# SiTime IPO - November 2019 - Listed on Nasdaq



# Investment Highlights – Diversified Timing Pureplay

## Large Growing Market

Total timing market is \$8 Billion, and growing

## Technology Leader

Leader in Silicon MEMS, and analog and systems technology

## Large customer base

12,000 customers, 250 applications, 125 products - 2 billion units shipped

## Fabless semiconductor business

Fabless analog semiconductor company – leveraged model, strong barriers to entry.

## Experienced Management

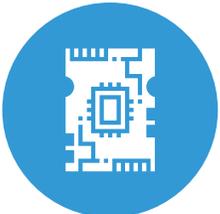
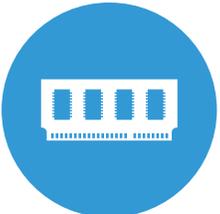
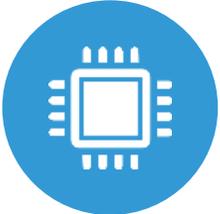
Proven management team with a track record of growing public companies

# Timing is the Heartbeat of Every Electronic System

Connectivity



Processor



Memory

SoC, ASICs, FPGAs

# SiTime's Silicon MEMS is Disrupting Timing

## Silicon Historically Wins



## MEMS Technology Leaders (1, 2)

Radio Frequency



Inertial Sensors



Timing



## Why Silicon MEMS Wins in Timing



Higher Performance



Lower Power



Smaller Size



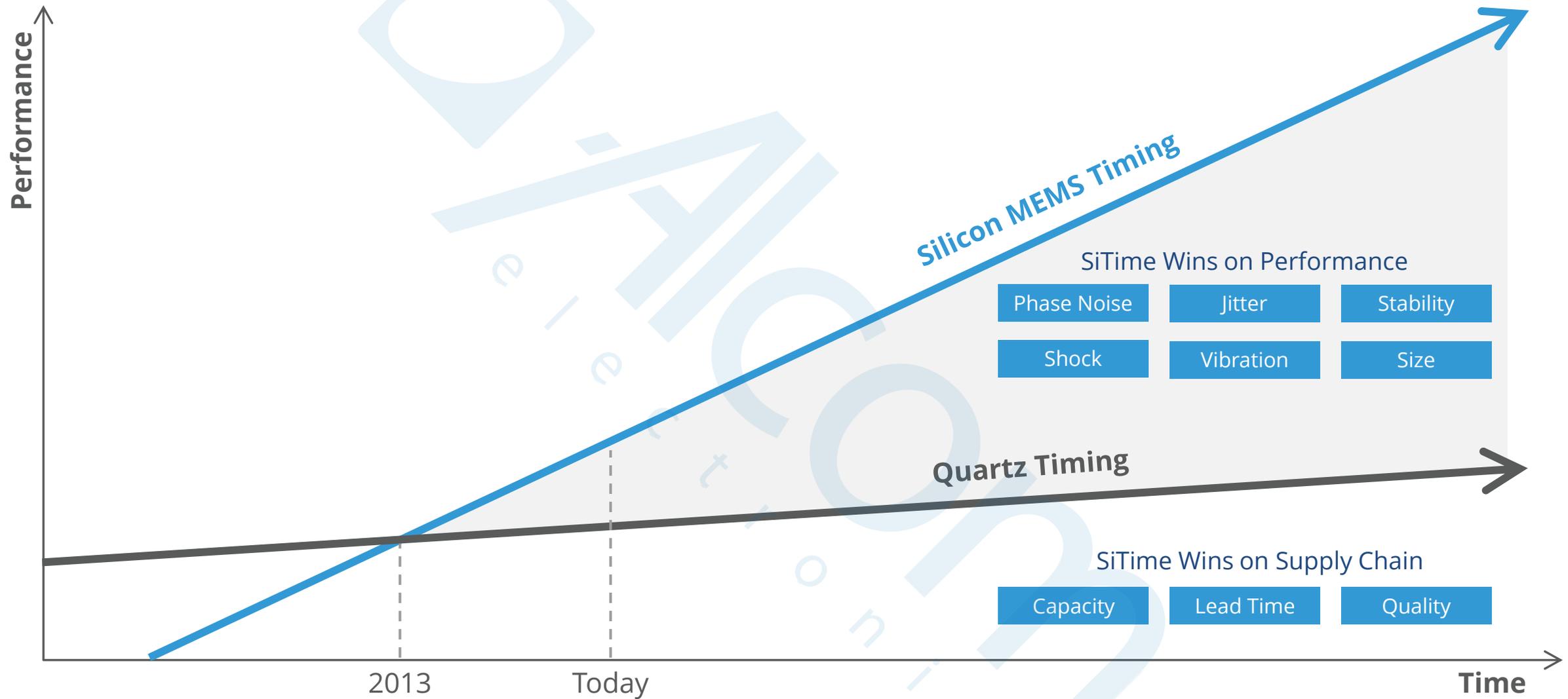
Programmable



Environmentally Robust

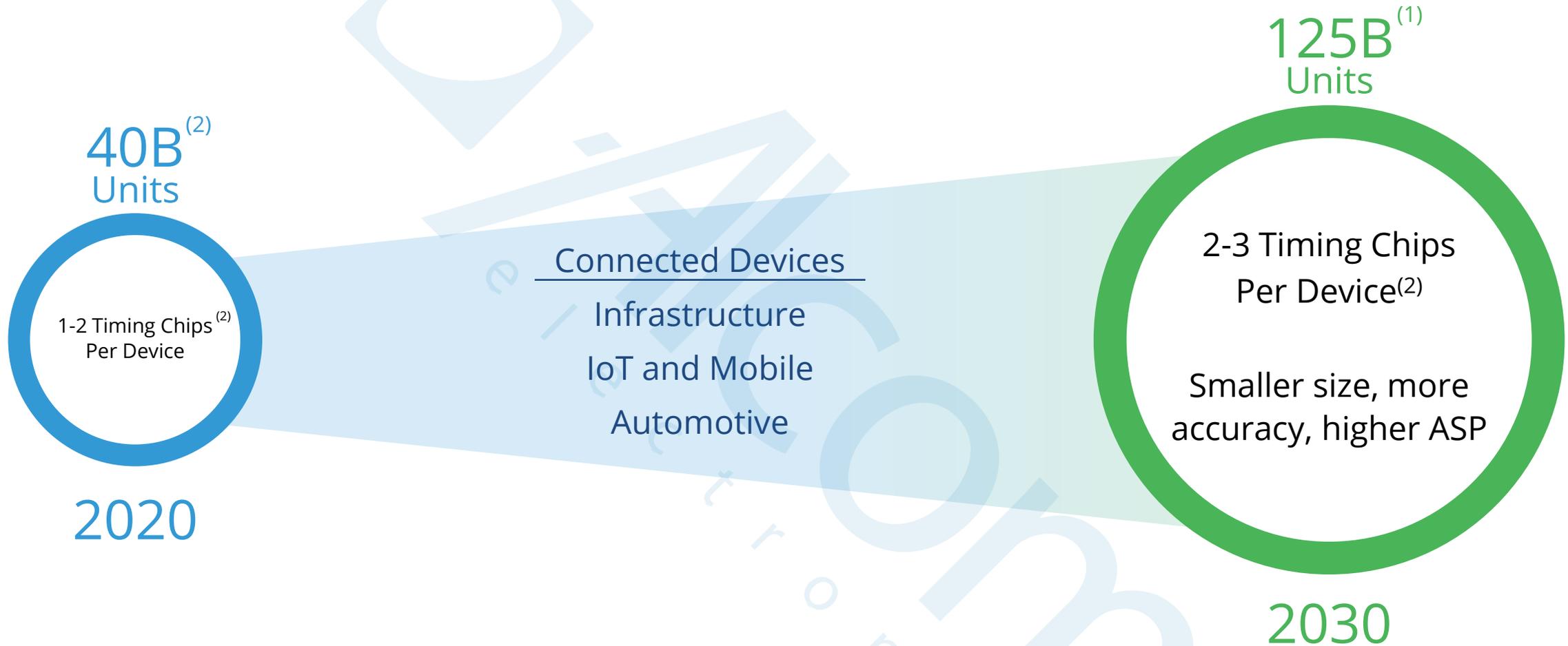
1. Gartner, Market Share: Semiconductors by End Market, Worldwide, 2019  
2. Yole Développement, "MEMS: who is leading the race?", 2019

# Winning With Innovation, Now And In The Future



Note: For illustrative purposes only. The time axis is not for scale and does not point to a specific time period nor does the performance axis imply a specific rate of innovation.

# Connectivity Drives SiTime's Growth



1. "By 2030, Each Person Will Own 15 Connected Devices — Here's What That Means for Your Business and Content", Martech Advisor, March 2019

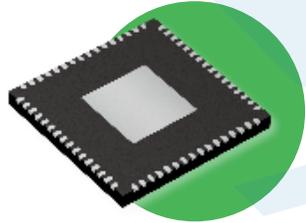
2. SiTime estimates

# SiTime Serves a Large and Growing Market

## SiTime Products

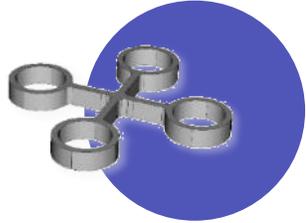
### Clock ICs

Launched 2020



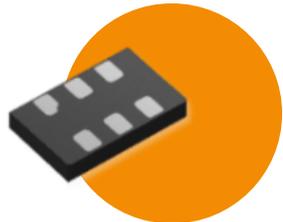
### Resonators

Launched 2020



### Oscillators

Majority of SiTime's Revenue to Date



## Total Timing Market <sup>(1)</sup>

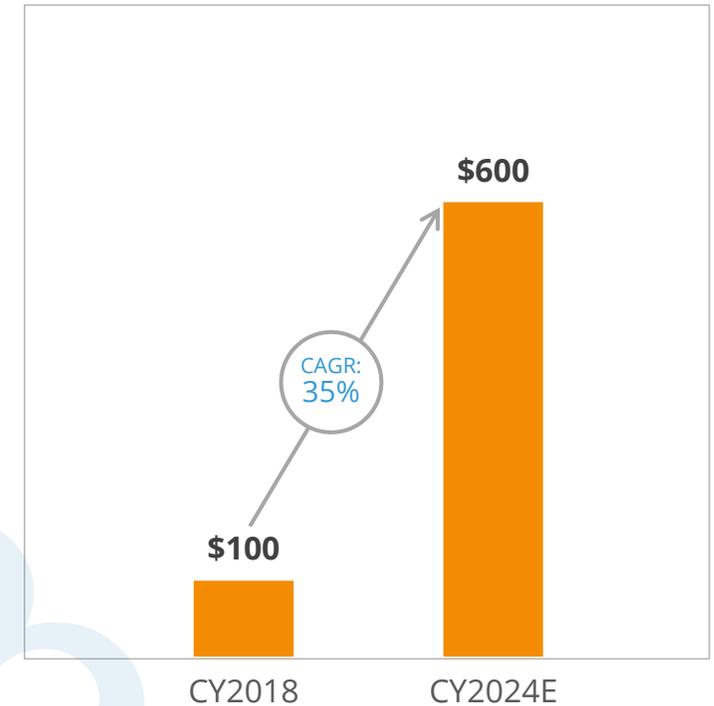
(\$ in billions)



## MEMS Oscillator Market <sup>(2)</sup>

(\$ in millions)

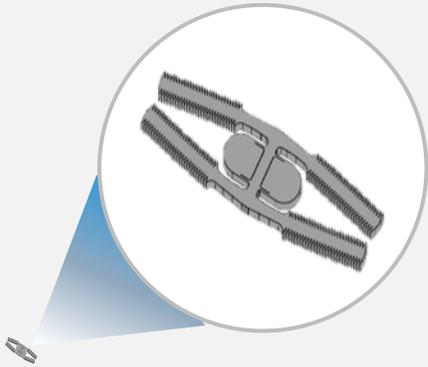
### Silicon MEMS Oscillator Forecast



1. Dedalus Consulting, April 2019; SiTime management estimates for Clock IC market size and growth  
 2. Company estimates and Yole Développement, July 2019

# SiTime's Core Technologies Solve Difficult Timing Problems

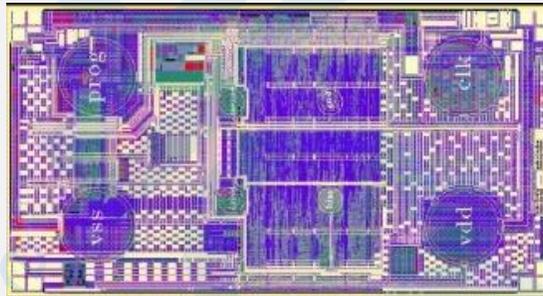
## Silicon MEMS



3<sup>rd</sup> gen MEMS  
Proprietary MEMS process  
SiTime MEMS simulation tools

Fabrication: Bosch

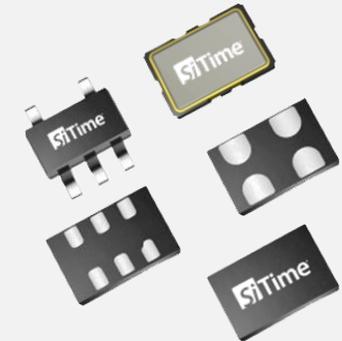
## Programmable Analog



4<sup>th</sup> generation circuits  
Revolutionary temp sensors  
Low power, high performance

Fabrication: TSMC

## Systems

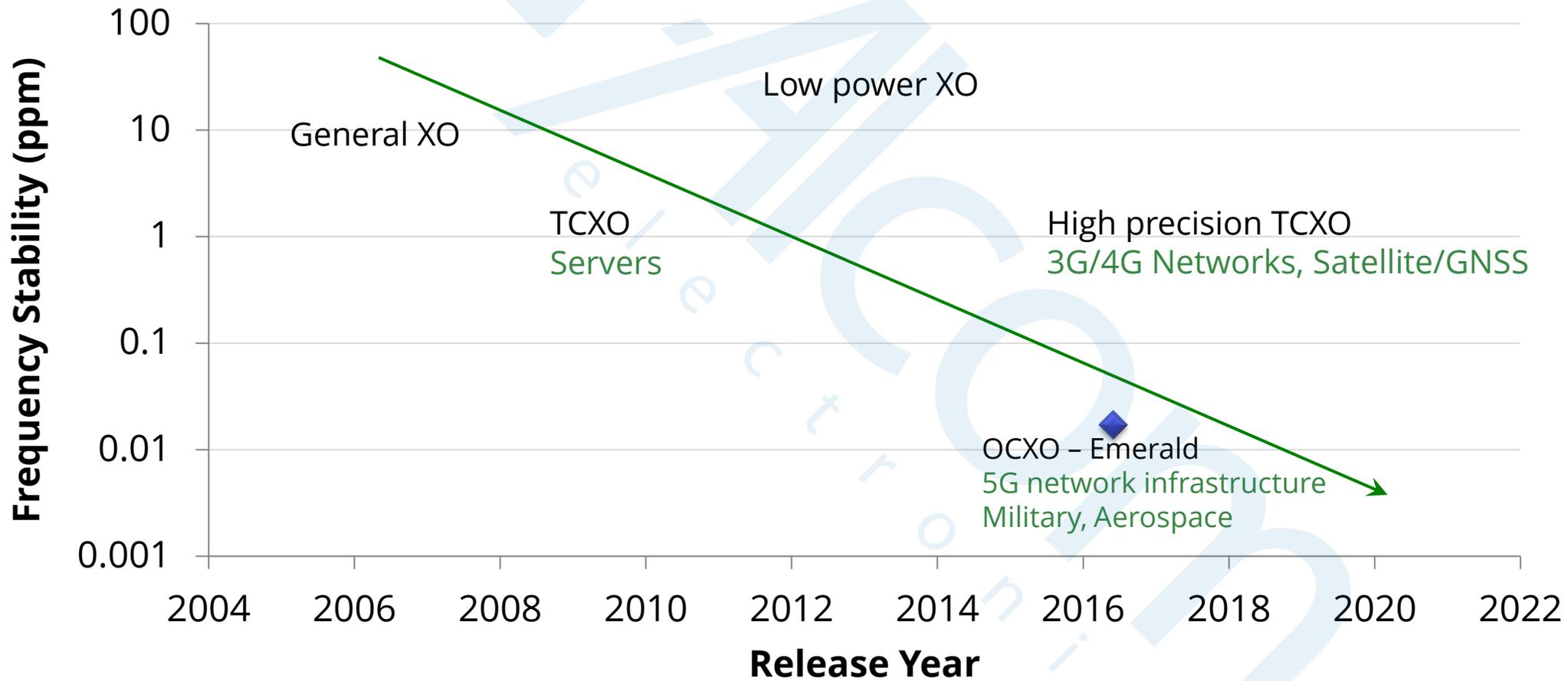


Performance improvement  
Materials science expertise  
Thermo-mechanical co-design

Fabrication: ASE, UTAC, Carsem

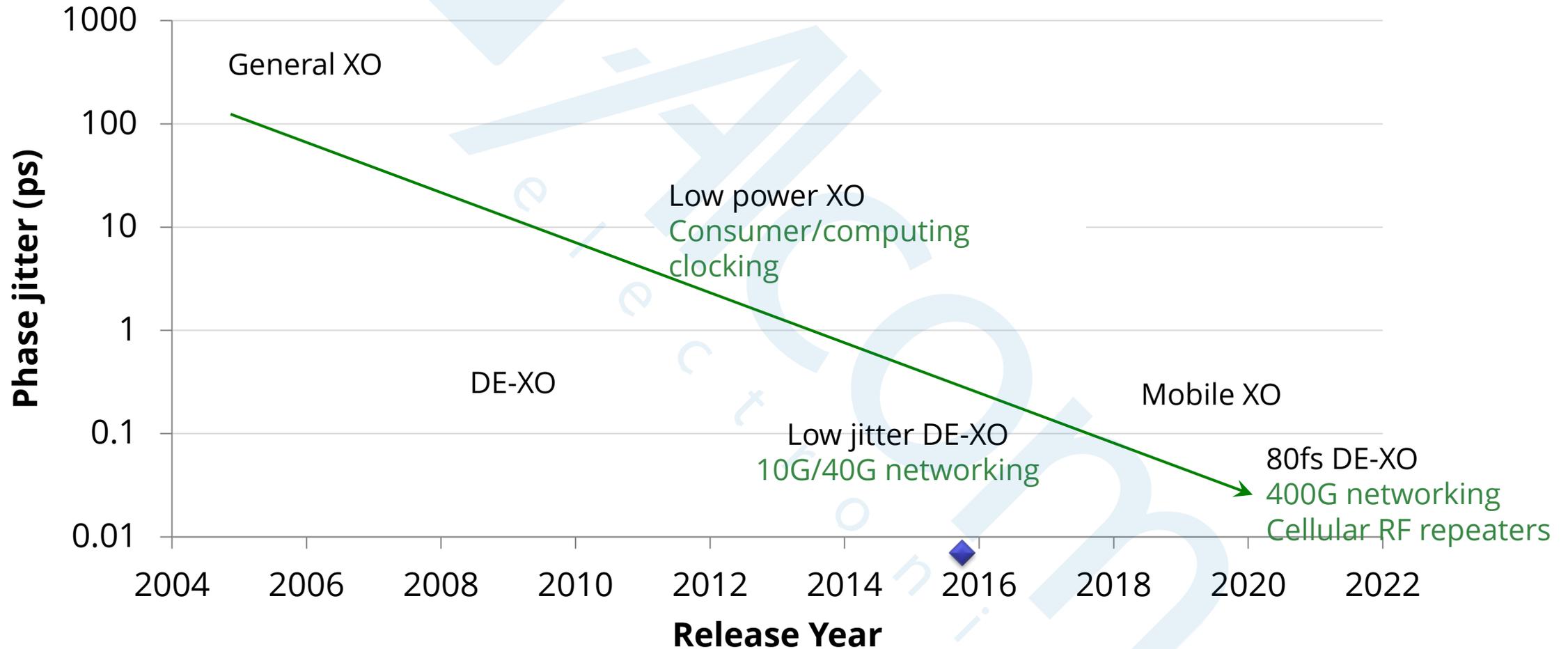
# Rapid Innovation in Performance: Stability

## SiTime Frequency Stability Innovation 10,000x Improvement in Past 15 Years

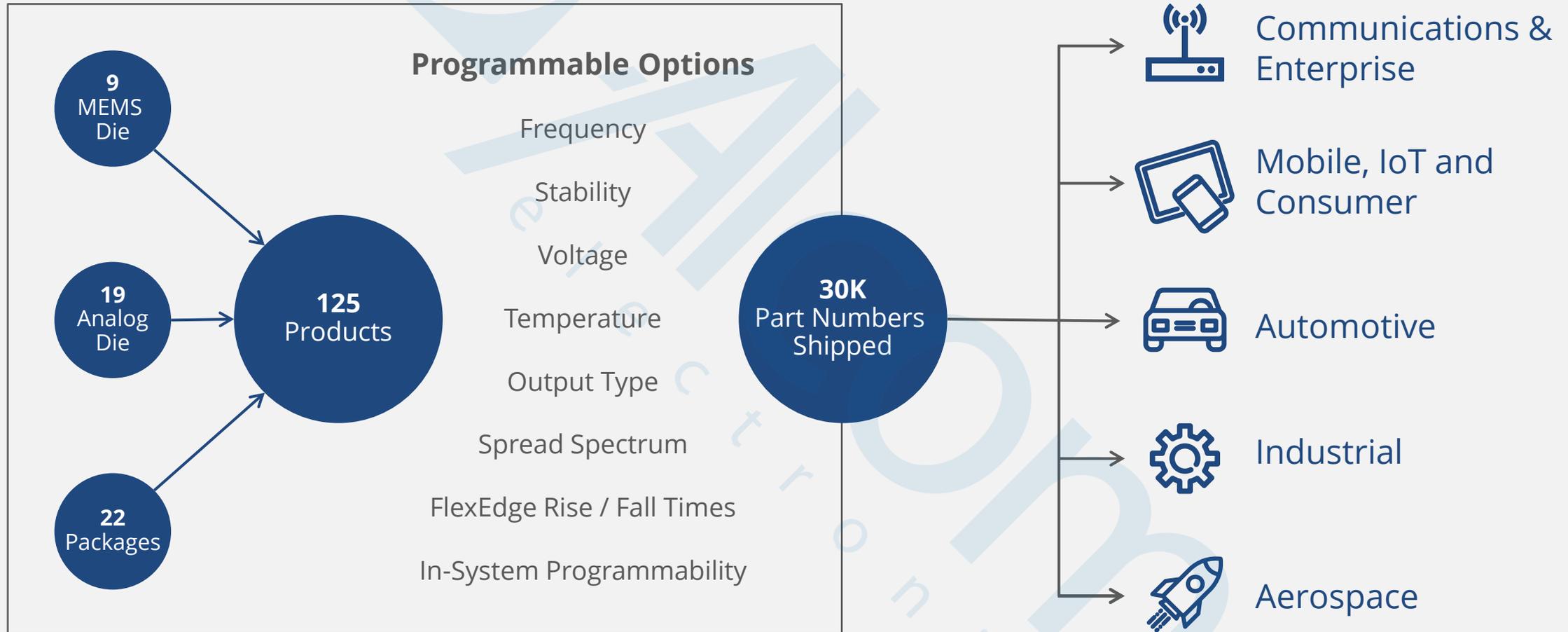


# Rapid Innovation in Performance: Jitter

## SiTime Jitter Innovation 1,000x Improvement in Past 15 Years



# Programmability Fulfills Customer Needs



# End Market #1 – Communications and Enterprise

## Drivers

- 5G driving network densification
- Cloud proliferation
- Miniaturization of edge devices

## Why SiTime MEMS?

- Precision under changing temperature
- Stability under vibration
- High reliability



SMALL CELL



4G+ / 5G RRH



OPTICAL MODULE



ENTERPRISE SWITCH

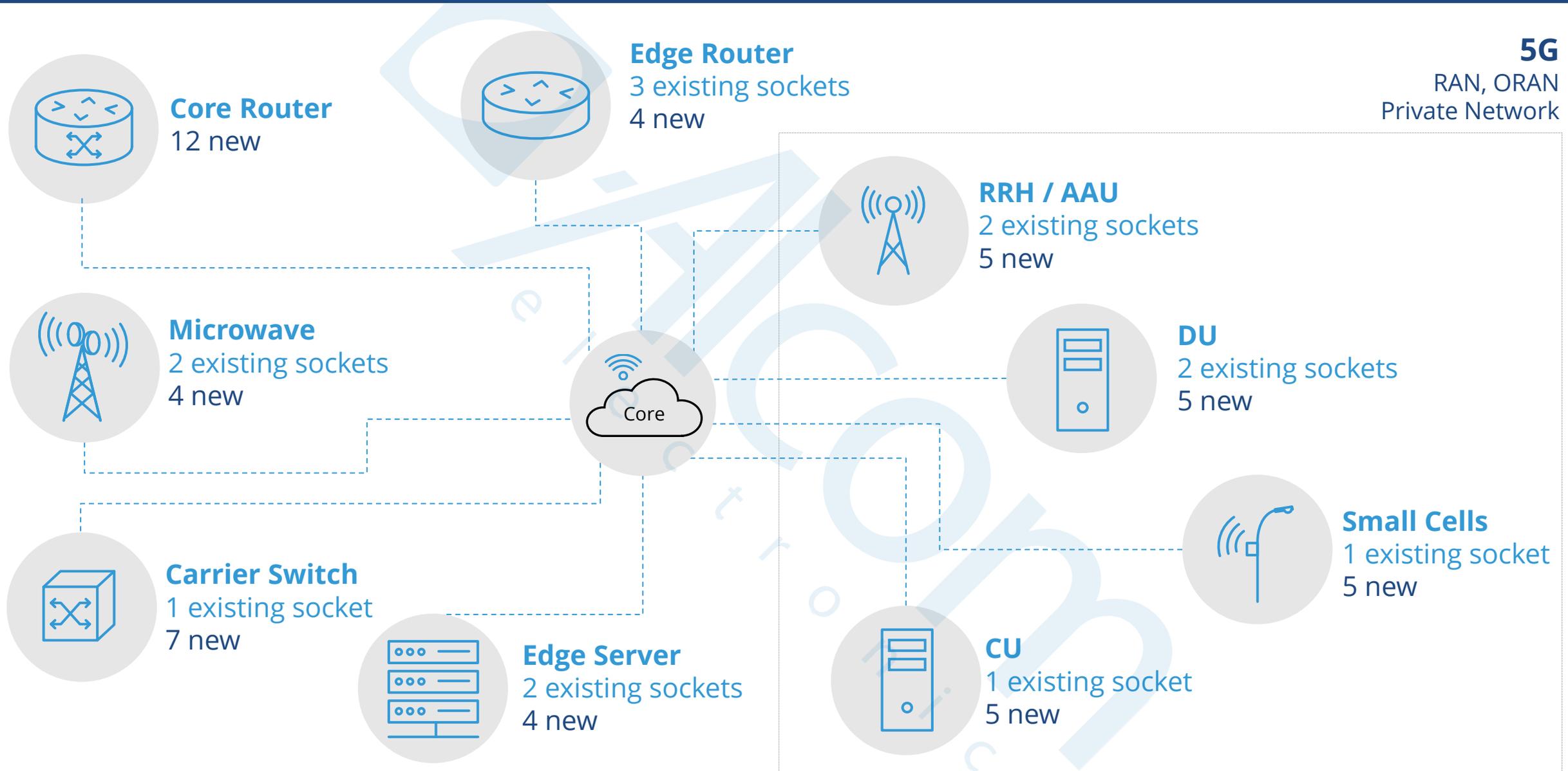


SERVER

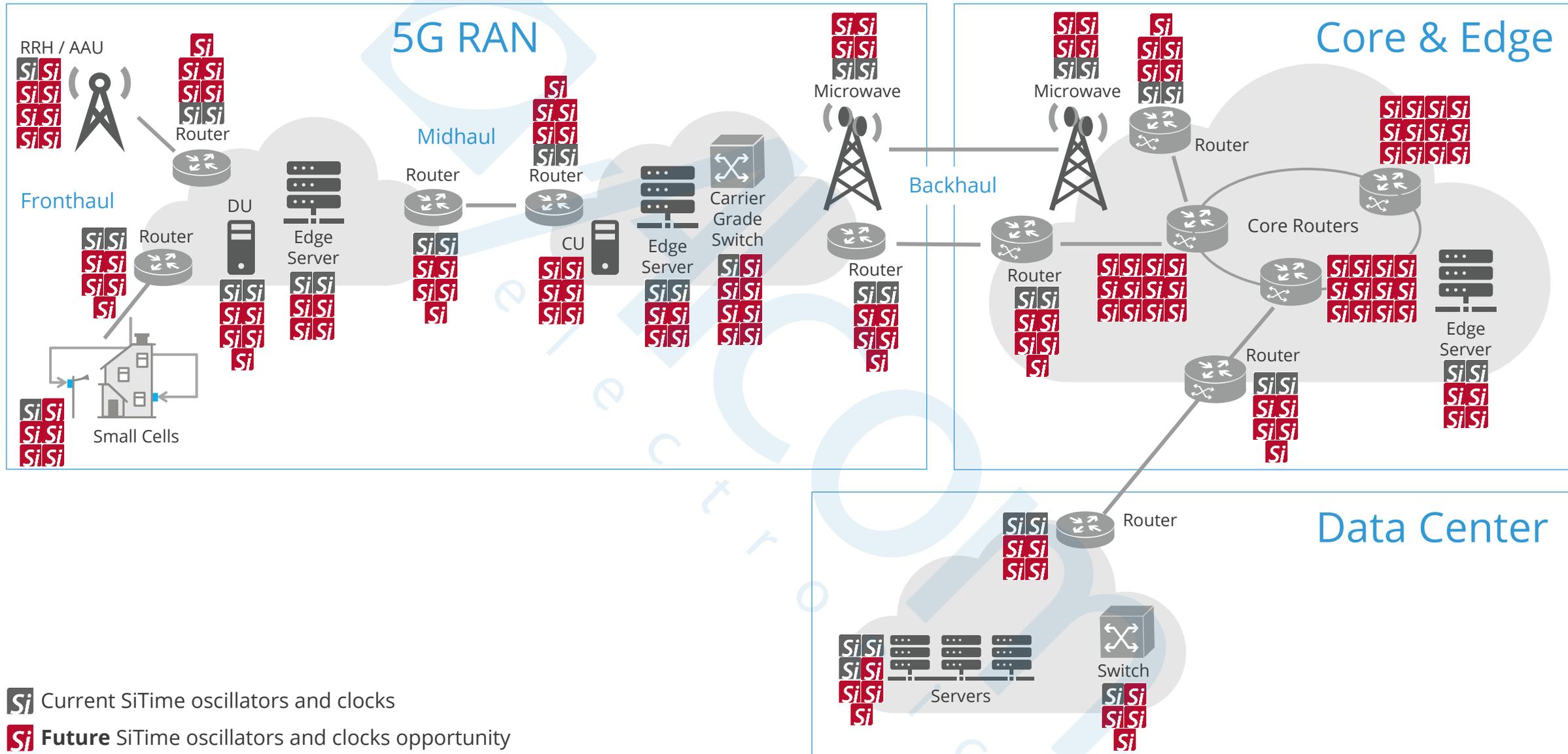


MICROWAVE

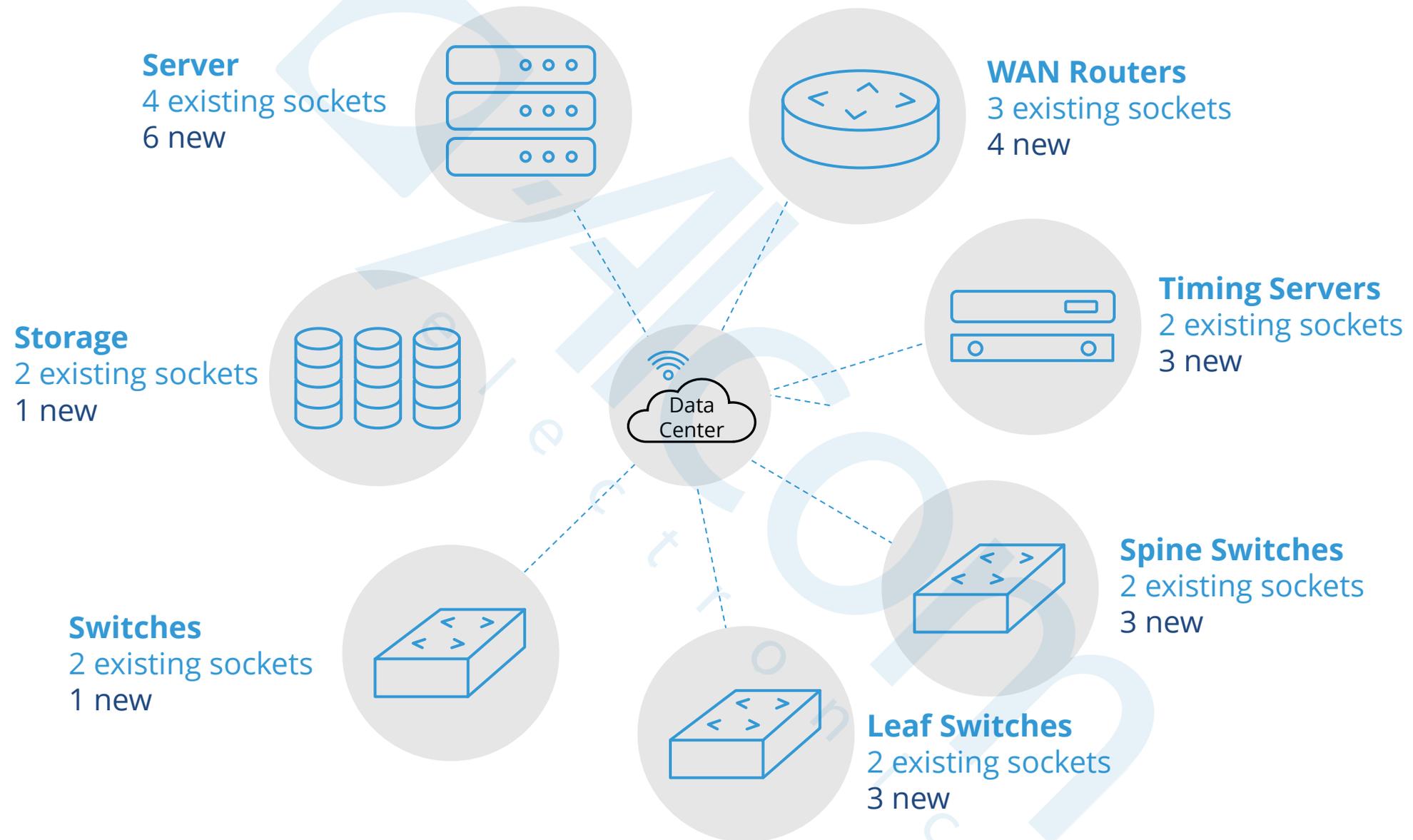
# 5G – Win with Performance at OEMs, Semis



# Current and Future Opportunities in Comms-Enterprise



# Datacenter – Win with Performance at Semis, Cloud H/W



# End Market #2 – Industrial, Automotive and Aerospace

## Drivers

- Industry 4.0 – connectivity, sensing
- Automotive – 1,000x increase in data volume <sup>(1)</sup>
- Aerospace – 8x increase in number of satellites <sup>(2)</sup>

## Why SiTime MEMS?

- High shock and vibration survivability
- High reliability
- Programmable architecture



ADAS COMPUTER



AUTOMOTIVE CAMERAS



INDUSTRIAL MACHINERY



INDUSTRIAL SMART METER



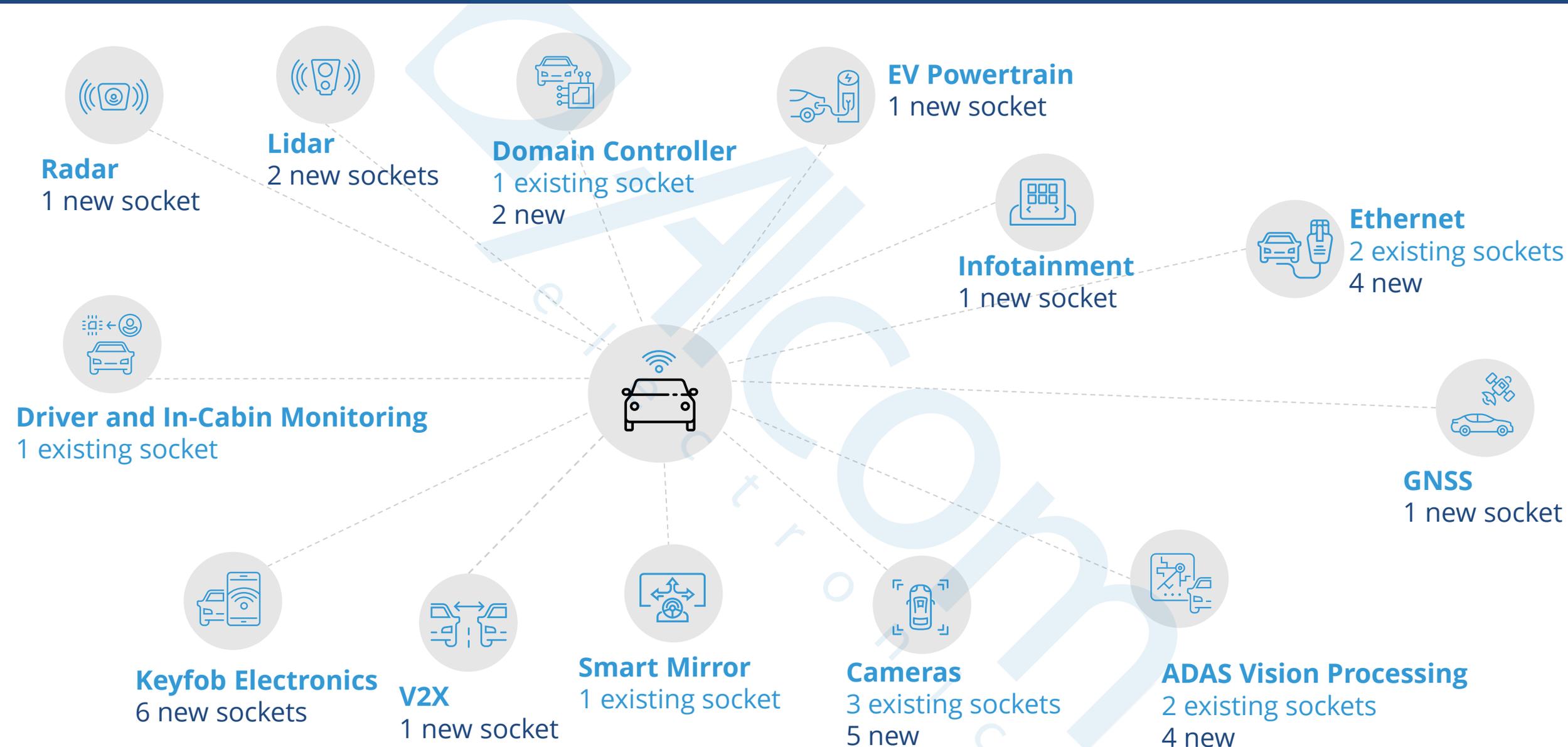
MEDICAL ELECTRONICS



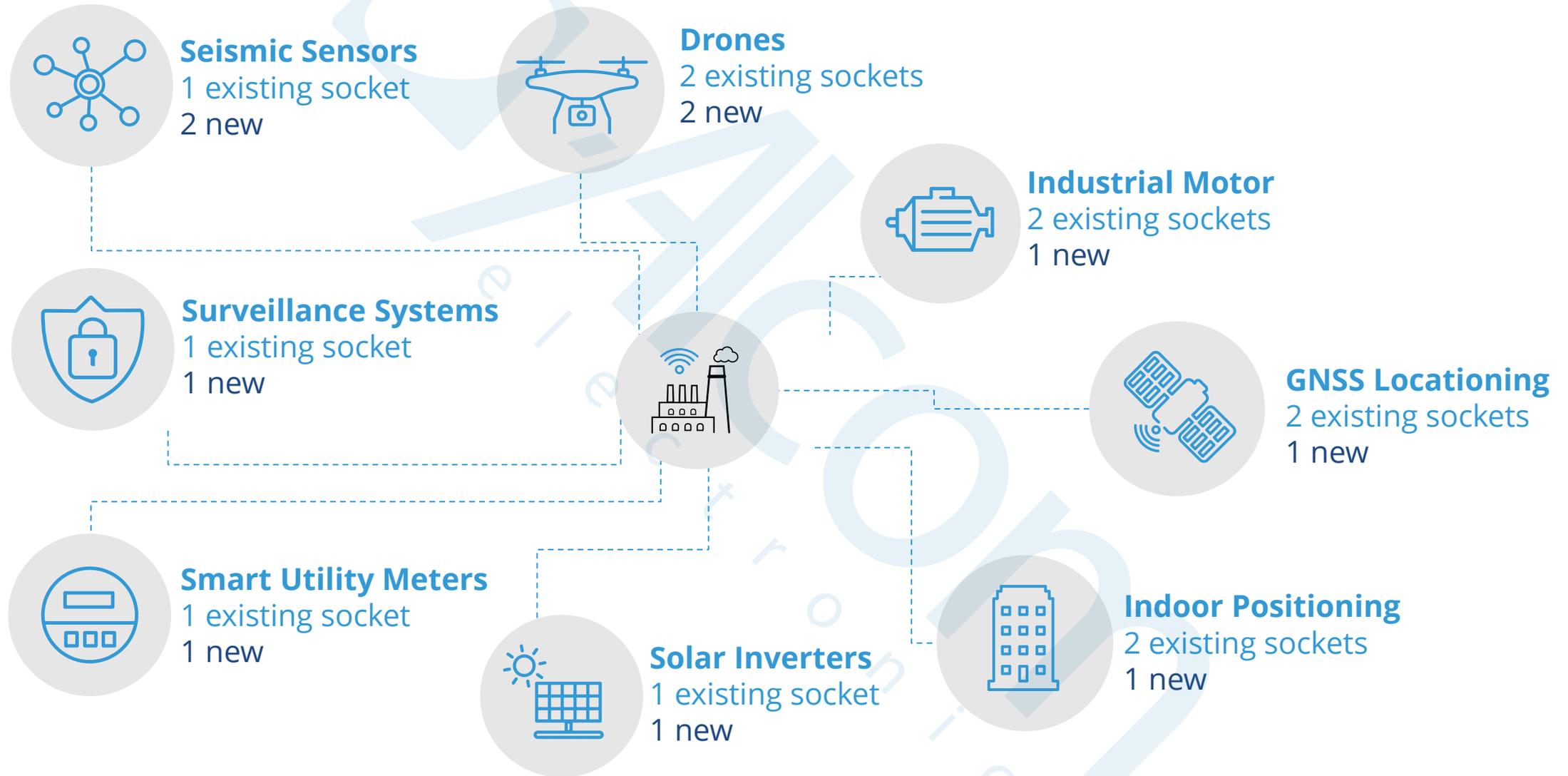
SATELLITE COMMUNICATIONS

1. Automotive Edge Computing Consortium estimate in 2020  
2. "Large LEO Satellite Constellations: Will It Be Different This Time?", McKinsey 2020. Assumes growth from ~6K today to 50K in 10 years.

# Automotive – Win with Reliability at Semis, Tier1s



# Industrial – Win with Flexibility, Digital Marketing



# End Market #3 – Mobile, IoT and Consumer

## Drivers

- Billions of internet-connected devices
- Increasing functionality
- Smaller size

## Why SiTime MEMS?

- Ultra-small size
- Long battery life
- Fabless semi process & supply chain



SMARTPHONE



SMART WATCH



STYLUS & TABLETS



GLASSES/VR

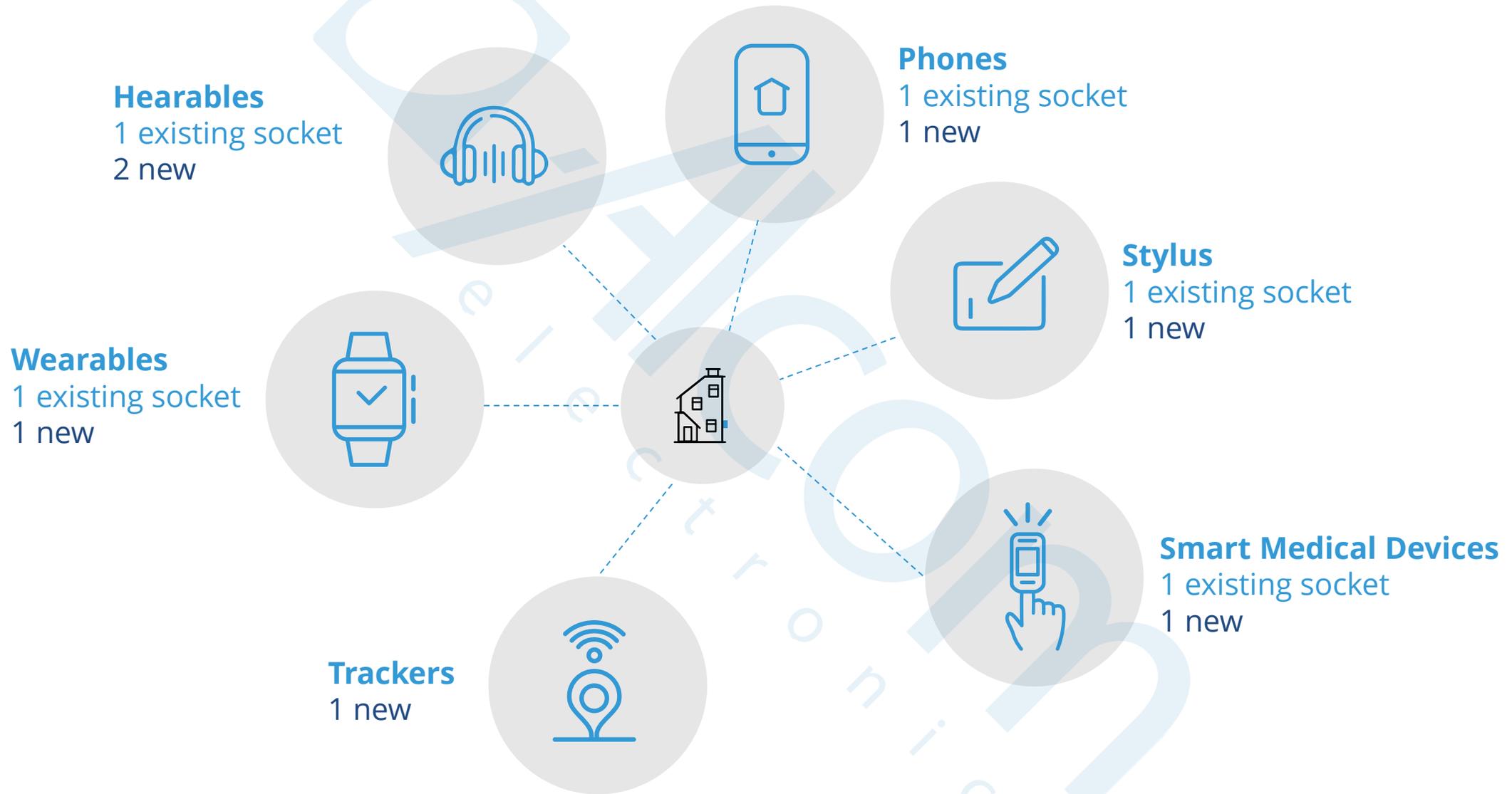


EARBUDS



SEISMIC SENSOR

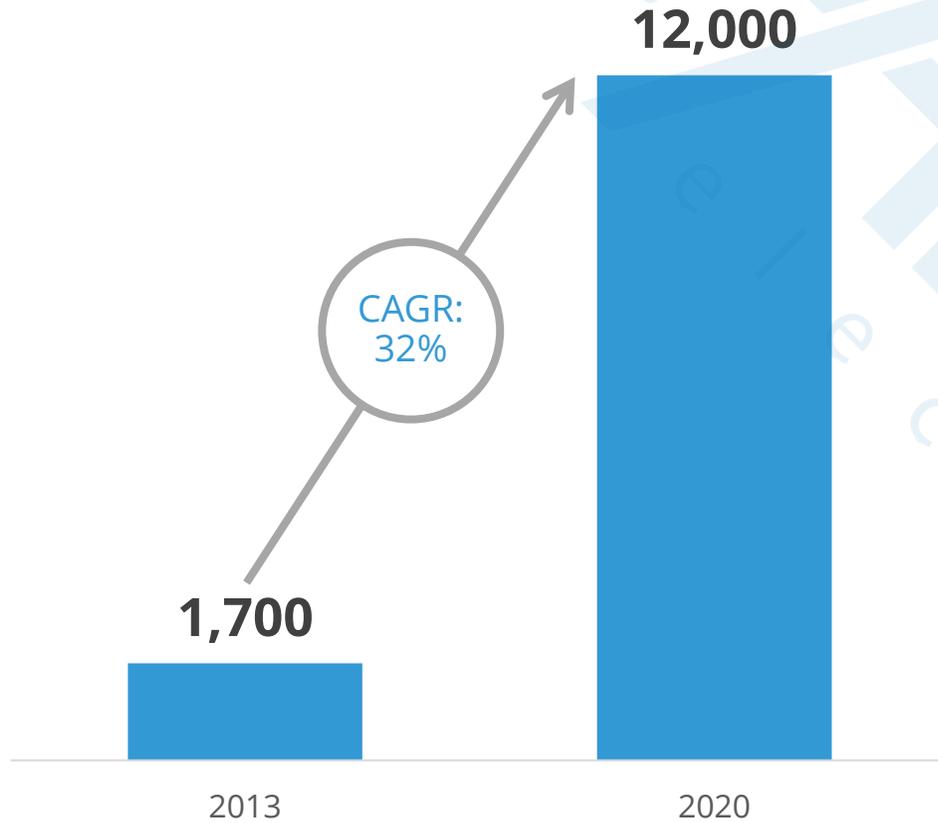
# Mobile-IoT – Win with Smallest Size, Lowest Power



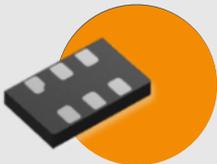
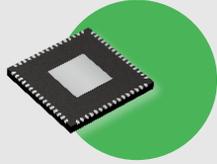
# Growing and Diversifying Customer Base

Rapid Expansion of Customer Base

Wide Range of Customers



# Competitive Landscape

	SiTime®	Quartz (No MEMS Silicon) NDK EPSON	Analog Timing RENEASAS IDT SILICON LABS
 Oscillator	✓	Need to Buy Analog	Need to Buy Quartz
 Resonator	✓	✓	✗
 Clock IC	✓	✗	✓