

Michael Hsing – CEO
Bernie Blegen – CFO

September 14, 2020

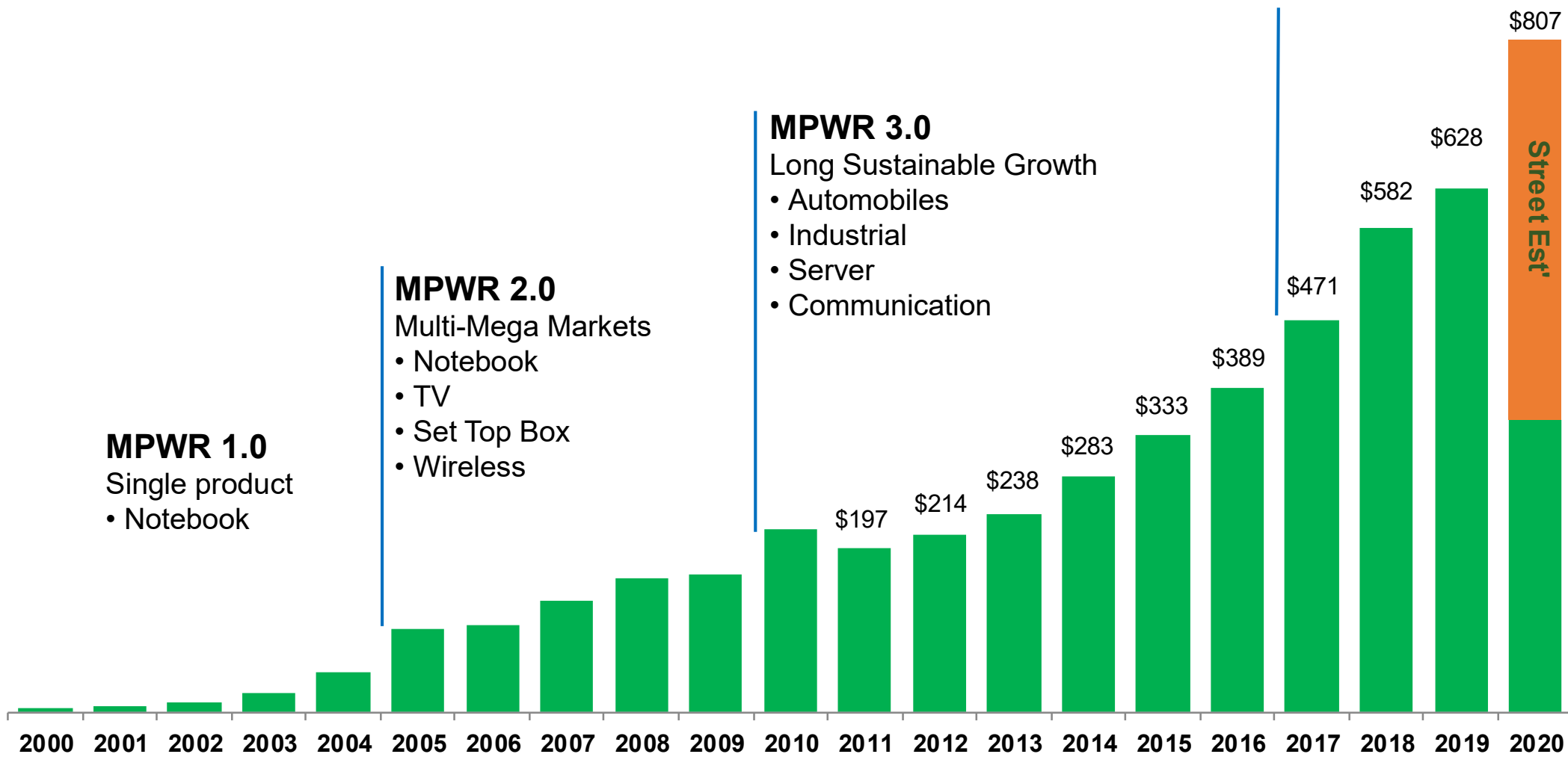
MPS

Forward Looking Statements

This presentation includes forward-looking statements that involve risks and uncertainties, including our belief in continued expansion of our product lines, advances in our technology, anticipated market opportunities, gross margin targets, net & operating margin targets, inventory targets, continuing business diversification, growth and opportunities in China and Taiwan, and increasing sales penetration in Japan, Korea, the U.S., Singapore and Europe. Other forward-looking statements can be identified by terms such as “would,” “could,” “may,” “will,” “should,” “expect,” “Wall Street estimates,” “intend,” “plan,” “anticipate,” “believe,” “estimate,” “predict,” “potential,” “targets,” “target ranges”, “seek,” or “continue,” the negative of these terms or other variations of such terms. These statements are only predictions based on our current expectations and projections about future events. Because these forward-looking statements involve risks and uncertainties, there are important factors that could cause our actual results, level of activity, performance or achievements to differ materially from the results, level of activity, performance or achievements expressed or implied by the forward-looking statements. In this regard, you should specifically consider the risks identified in our most recent 10-K in the section entitled “Risk Factors,” including the risks, uncertainties and cost of litigation and risks related to fluctuations in our operating results.

Outstanding Organic Revenue Growth (\$M)

2019: MPS 7.8% vs. Analog (8.3%)



MPWR 1.0
Single product
• Notebook

MPWR 2.0
Multi-Mega Markets
• Notebook
• TV
• Set Top Box
• Wireless

MPWR 3.0
Long Sustainable Growth
• Automobiles
• Industrial
• Server
• Communication

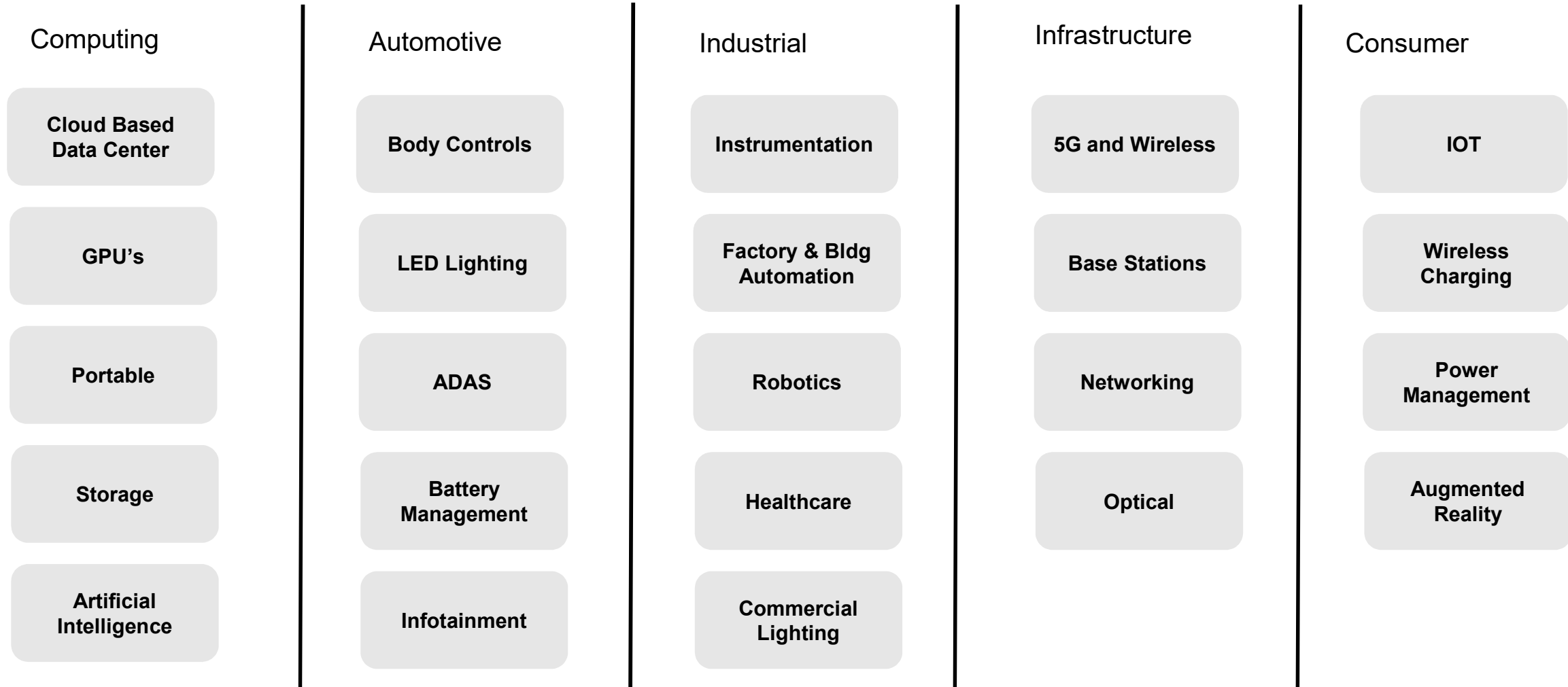
MPWR 4.0
Balanced Growth
• eCommerce
• eMotion
• Computing Power Evolution
• Battery Mgmt.



* Wall Street analysts average revenue

MPS 3 Yr CAGR ↑ 17.3% ↑

Growth Drivers by End Market



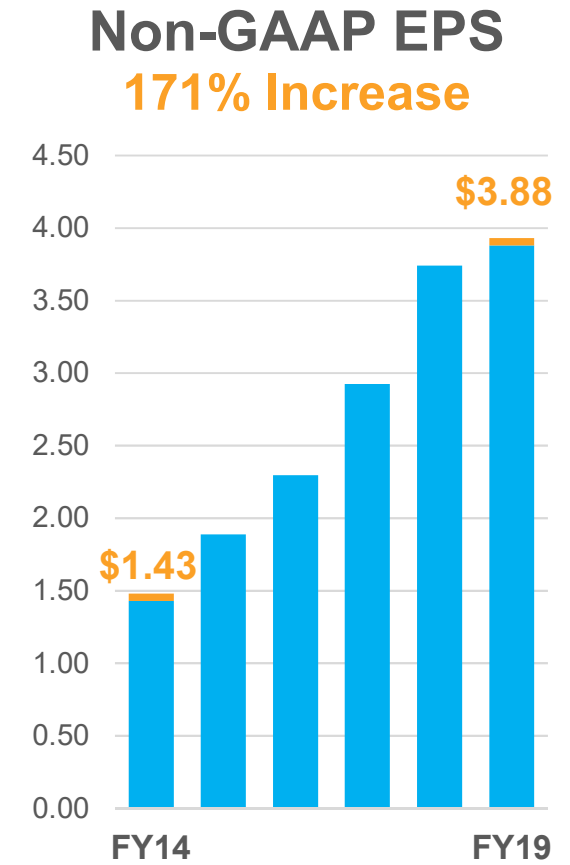
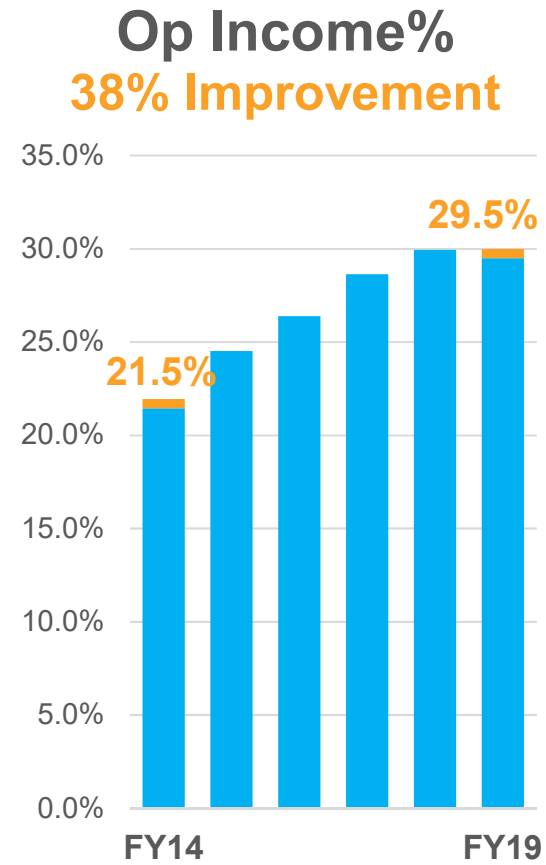
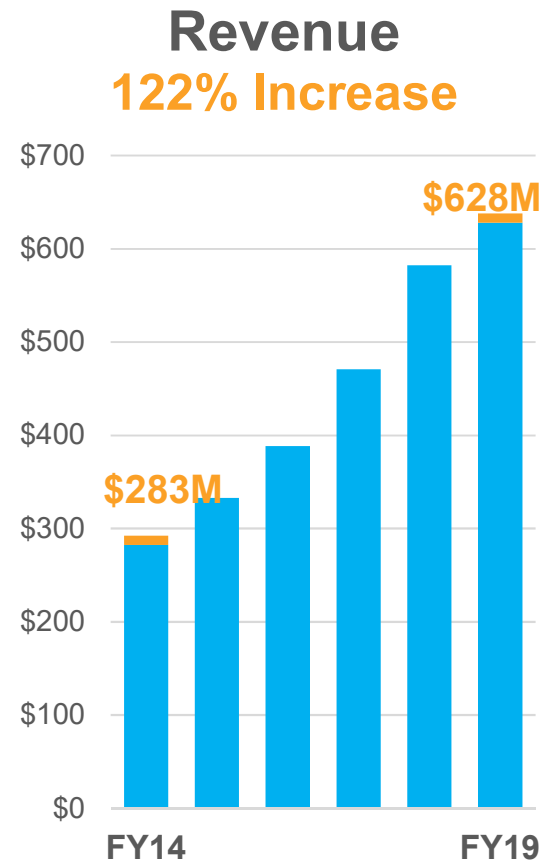
Diverse End Markets

% of Revenue	2010	2016	2019	20Q2	2016-2019 CAGR
Automotive	1.9%	8.7%	14.4%	9.5%	38.5%
Storage / Computing	10.4%	20.7%	30.1%	34.4%	32.9%
Industrial / Other	4.8%	14.3%	15.8%	14.3%	21.3%
Consumer	65.1%	39.6%	26.2%	25.6%	2.2%
Communications	17.8%	16.7%	13.5%	16.2%	9.4%
Total	100%	100%	100%	100%	17.3%

SAM Expansion

Market	2015 SAM	2018 SAM
Automotive	\$6B	\$7B
Motion Control	\$2B	\$3B
ACDC	\$1B	\$2B
Modules	\$1B	\$2B
Cloud Computing (Server / Storage)	\$800M	\$1B
Networking / Telecom	\$600M	\$1B
Battery Management	\$600M	\$1B
Total Market SAM	\$12B	\$17B

Operating Leverage and Margin Expansion

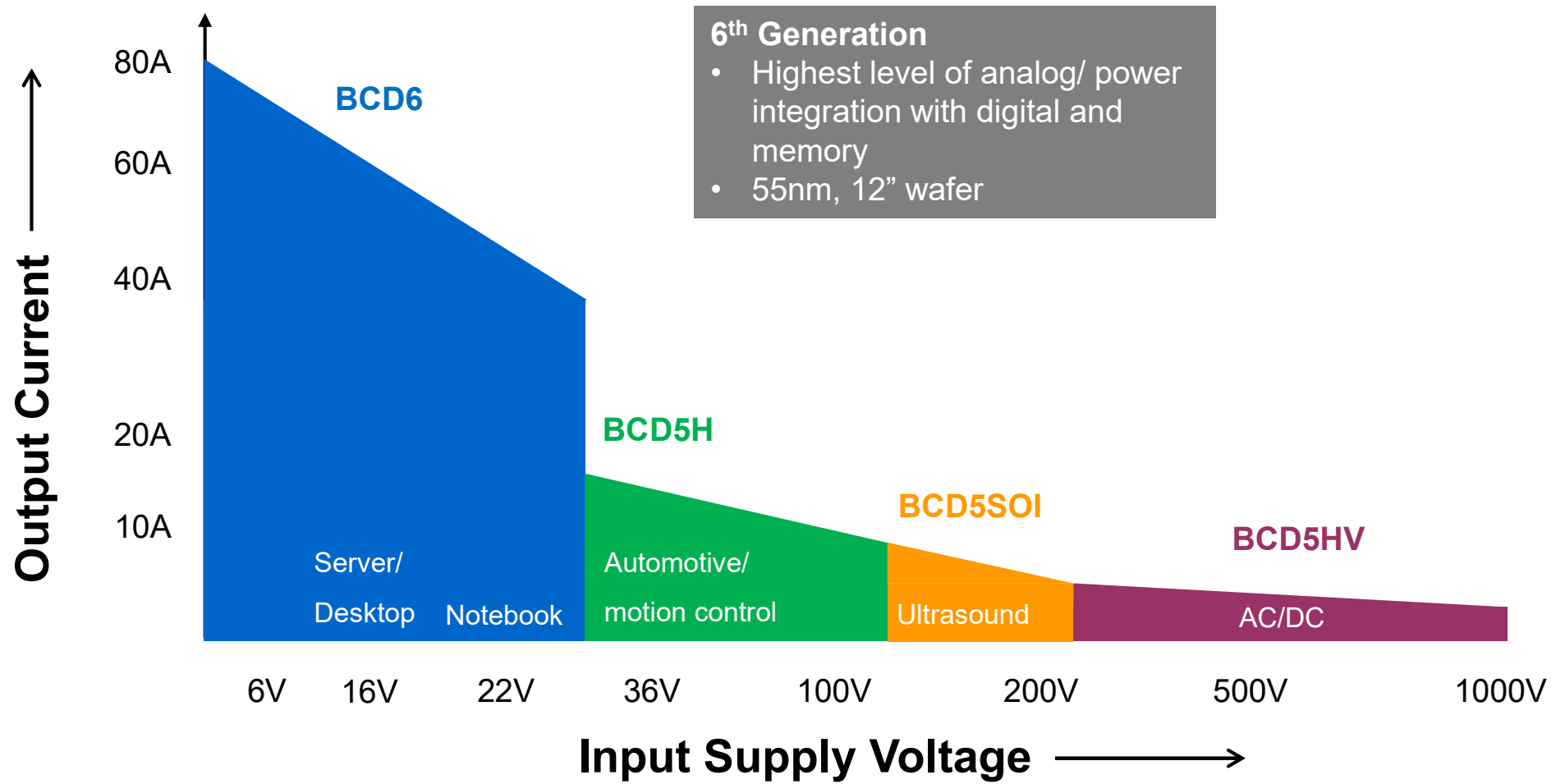


Why is MPS Winning?

MPS

Monolithic Single Chip Solution up to 1000V

- Fabless proprietary process technology
- Using most advanced fab equipment for analog power



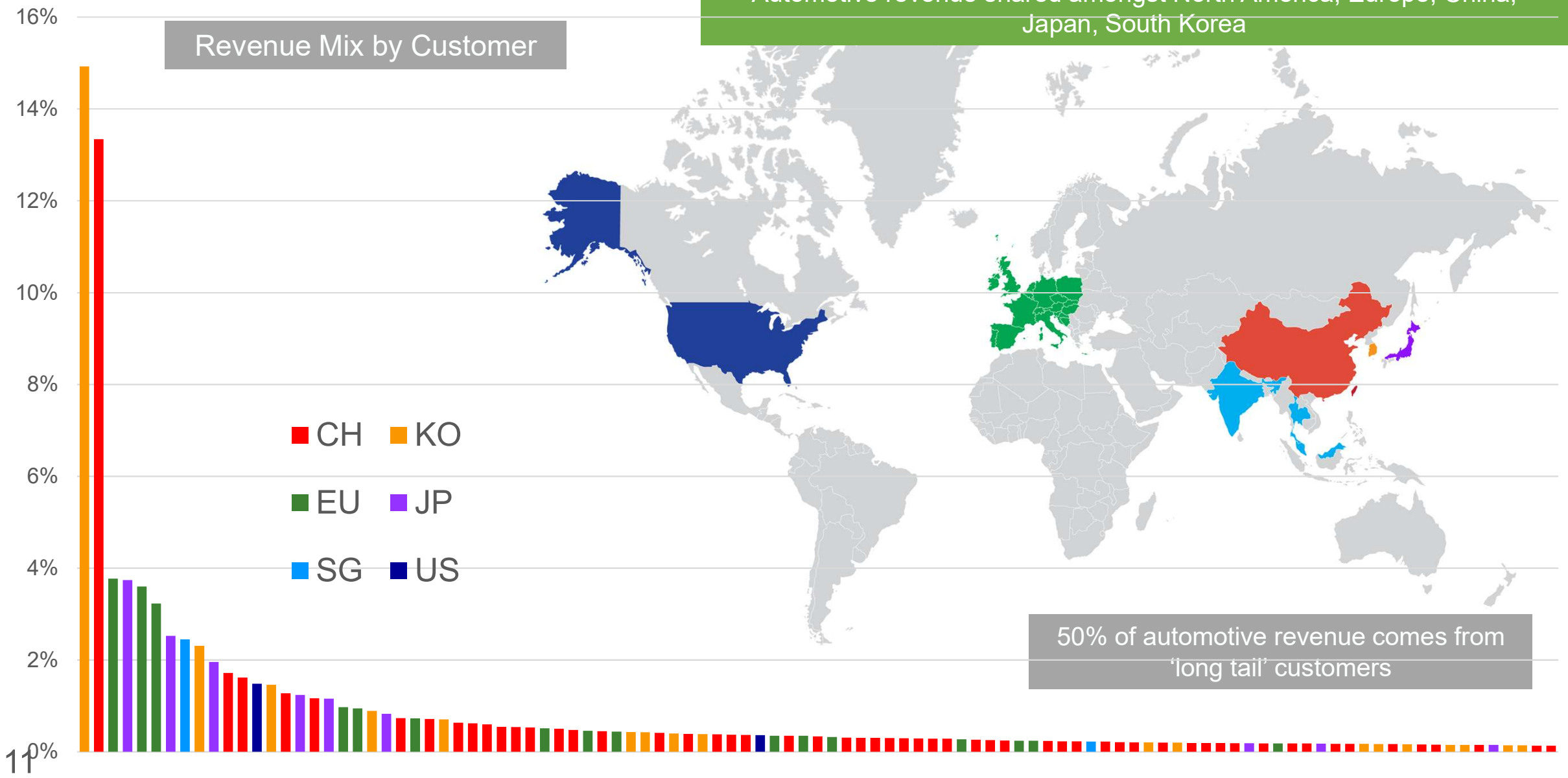
Automotive

MPS

Great Revenue Diversification

Revenue Mix by Customer

Automotive revenue shared amongst North America, Europe, China, Japan, South Korea



50% of automotive revenue comes from 'long tail' customers

MPS Ramping At Half of Top 50 Tier 1s

...and engaged with most of the rest

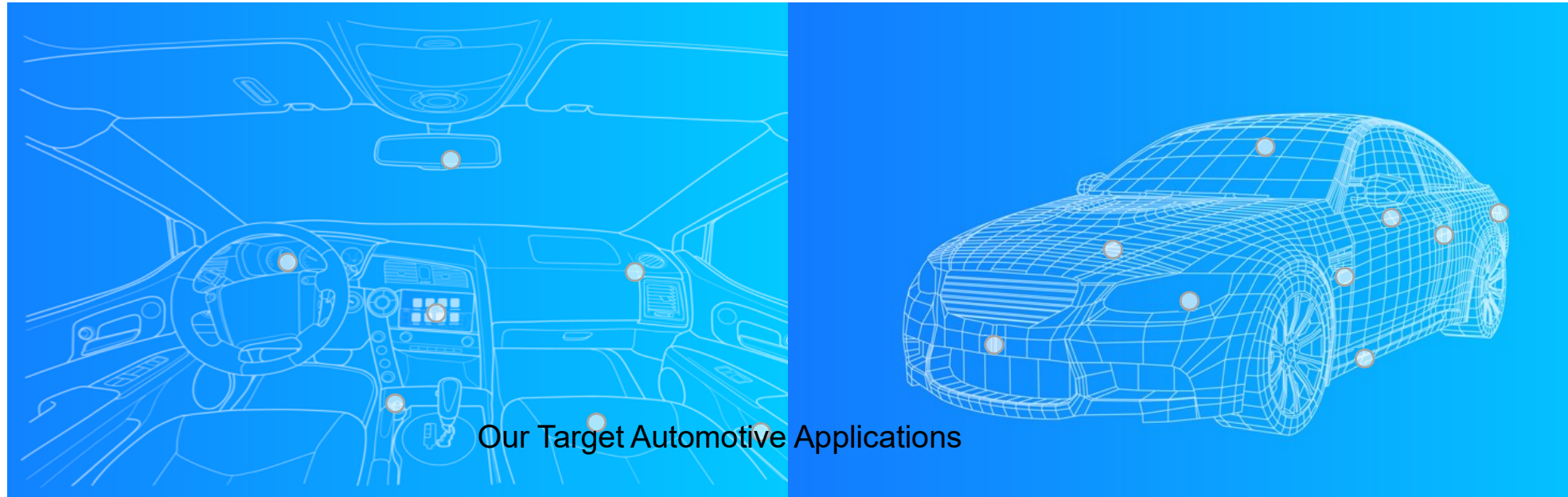
Tier 1 Automotive Suppliers



OEMs



Our Target Automotive Applications



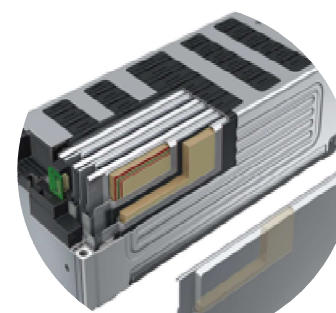
Digital Cockpit
Infotainment,
Cluster, HUD, USB
Charging



Lighting
Matrix Headlamp,
Dynamic Lighting,
Interior



Body Electronics
HVAC, Seat, Lift
Gate, Auto Door
Handle, Moonroof



**Battery
Management**
48V, HEV, EV

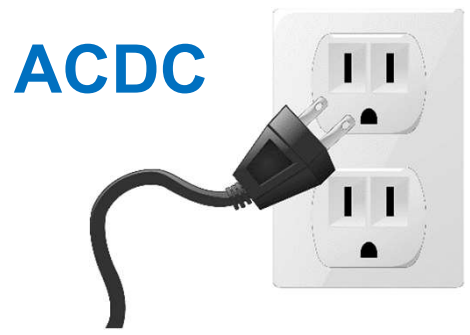


ADAS
Radar, Camera,
Lidar, Self-Driving
Compute

How MPS Wins in AC/DC

MPS

Wide Applications that Adopt MPS AC/DC Product Solutions



\$2B market opportunity



Gaming Consoles



Quick Chargers and USB3



Smart TVs



Industrial



Server Power



Appliances



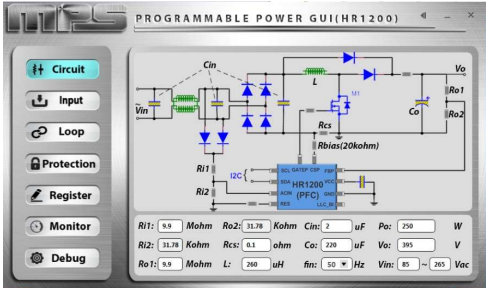
LED Street Lighting



PC Power

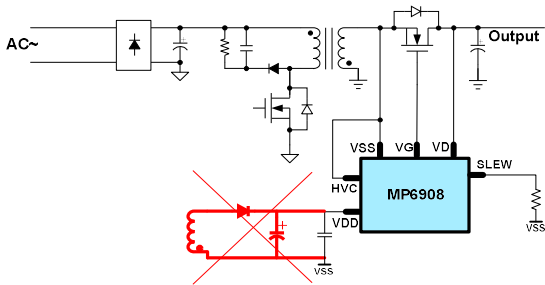
High Efficiency, Compact and Ease of Use Solution

Software Reconfigurable



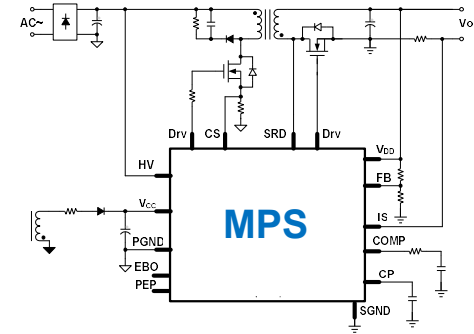
MPS offers graphic user interface for easy digital power design with high performance

High Integration



Highly integrated solutions allow to save on system BOM

High Density



High density solutions allow compact end product design

Battery Management

MPS

MPS Battery Management Applications

Portable Power



2-6 Cell non-USB Applications



Wearable Devices



Connected Devices



Mobile Computing



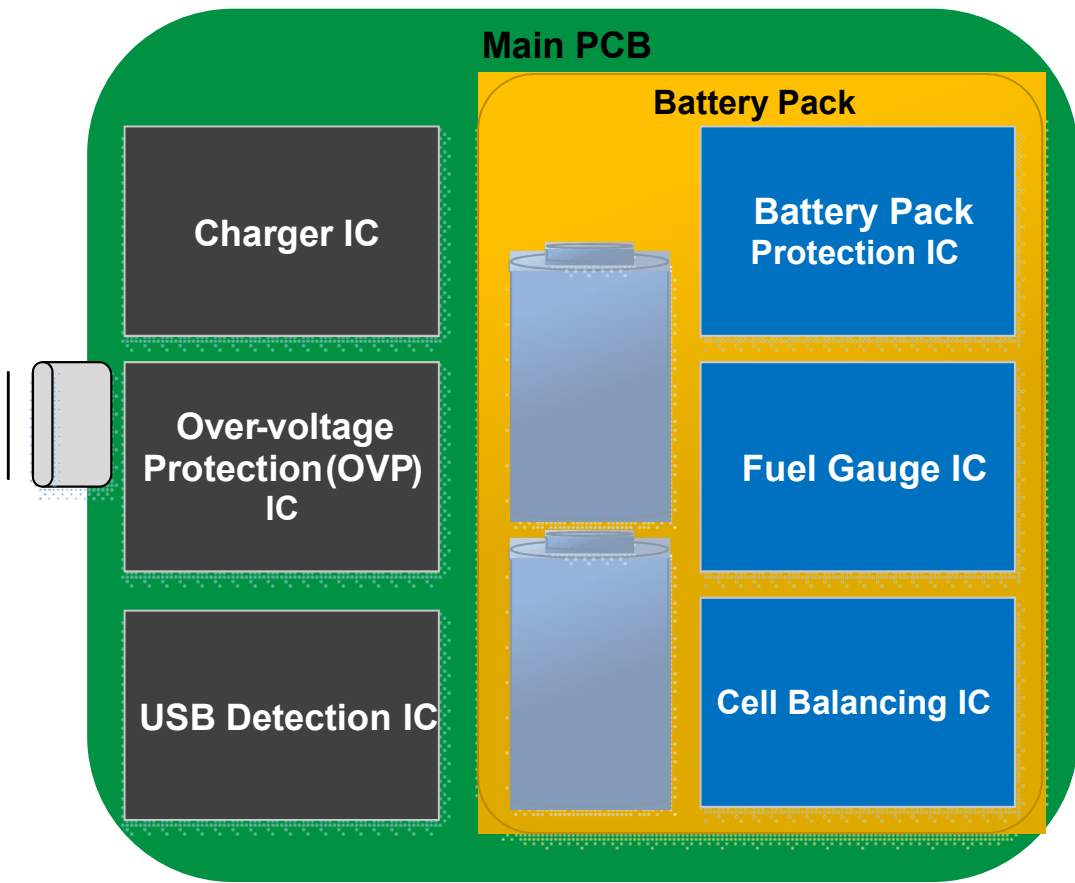
Battery Management Systems (BMS)



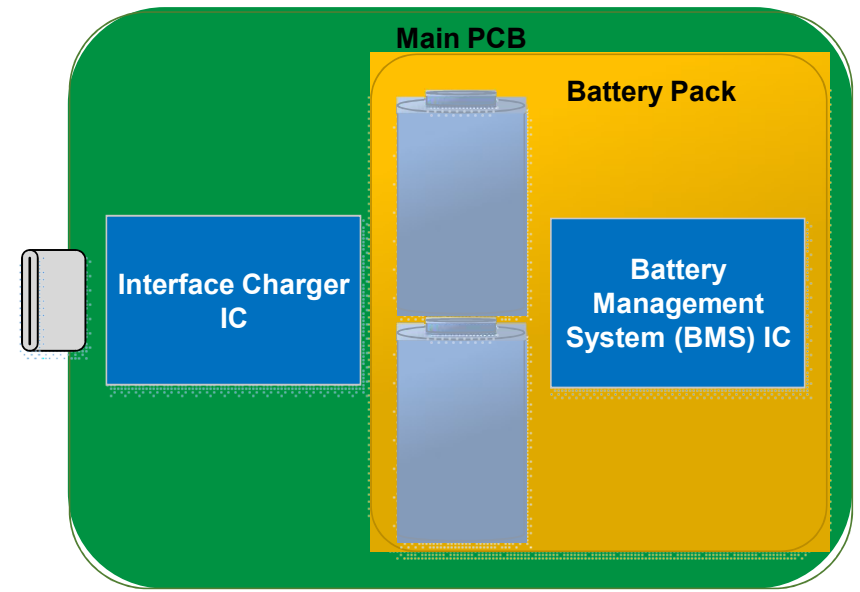
Increasing Value

MPS Battery Management Advantages

Competitor Solution



MPS Solution



- MPS solutions use our leading power FET technology to offer a high level of integration which means smaller total solution size, easier system design, and better cost structure

Why MPS Battery Management Will Win

- Increasing product offering diversity driving SAM expansion
- Growth strategy focused on high level of integration of charger, BMS, USB, and protection functions
- Fully monolithic chargers for high-power USB Power Delivery applications
- R & D investment on precision accuracy monitoring and protection circuits for BMS

e.Motion™

A Market in Motion

MPS

e.Motion™

Our Solution for Integrated Motion Control

One-stop Solution for Advanced Drive Tasks

POSITION SENSING

Angle Feedback

Magnetic

Small & Robust

MOTOR DRIVERS

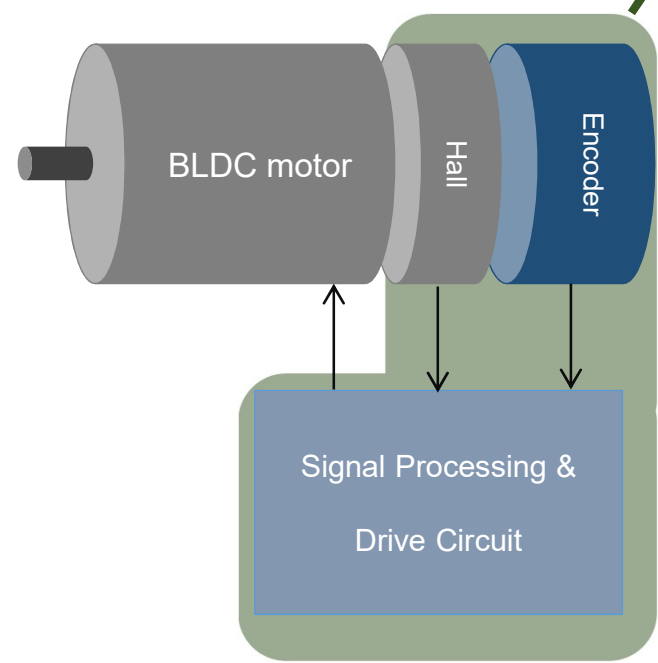
Energizing the Windings

Efficiency

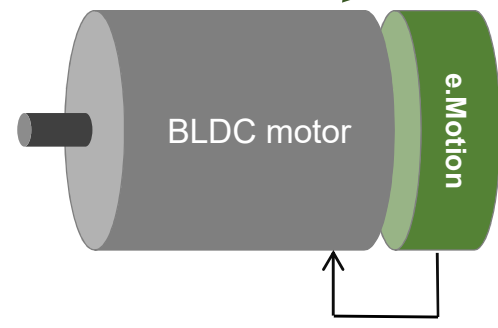
Size

Integrated Motion Control – e.Motion™

Standard Solution



e.Motion™ solution

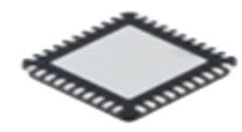


Position sensing
Signal processing
Motor driver

**Combined into
single e.Motion™ chip**

Customer Benefits

Replace bulky optical encoders	Lower power consumption
Fast sensing	Small components
Robust setup	Attractive pricing



4x4mm²

Controlled Motion

Leveraging MPS' strength in power semiconductors

Technology

Packaging

Testing

Support

Customer benefits

Size

Efficiency

Thermal

Cost

Stepper

Brushed DC

Brushless DC



Huge and Diverse Market

	Consumer	Industrial	Automotive
Pure Sensing			
Controlled Motion			

How MPS Wins with Field Programmable Modules and e-Commerce

MPS

Leveraging 2000+ Products

AC/DC Power Conversion

- High-Voltage Buck Regulator
- High-Voltage LDO
- Flyback Controller
- Flyback Synchronous Rectifier
- Active PFC Controller
- LLC Resonant Converter Controller
- LLC Synchronous Rectifier
- PFC&LLC Combo Controller
- X Cap Bleeder

DC/DC Power Conversion

- Step-Up (Boost)
- Step-Down (Buck)
- Buck/Boost
- CPU Core Power
 - 50A DrMOS in a 5x5mm QFN

Battery Management

- Li-Ion Single and Multi-Cell
- USB Complaint Chargers
- Switching Chargers
- Linear Chargers
- Integrated Power Bank Solutions

Class-D Audio

- Analog Input Class-D Amplifiers
- PWM Input Power Stages

Display Backlighting Power

- Backlight Drivers
- Electro-Luminescent Drivers
- Photo Flash Drivers
- LCD Power Supplies

E-Fuse, USB & Load Switches

- Programmable Current Limit
 - up to 50A per Device
- Adjustable Slew Rate
- Reverse Current Blocking
- Output Discharge (Load Switch)
- Integrated Auto Detection
- Pin Compatible
- Parallel able up to 10 Devices
- PMBus Command and Control

Automotive & Industrial

- AEC-Q100
 - DC/DC
 - LED Lighting
 - Power Modules
 - Motor Drivers
 - USB Charging
 - Display Backlighting
 - Precision Analog

LED Lighting & Illumination

- TRIAC Dimmable AC/DC LED Controller
- PWM and Analog Dimmable AC/DC LED Controller
- DC/DC LED Controller: Buck, Boost, & Buck-Boost
- LED Protection IC

Computing Power

- CPU Core Power
- High current DrMOS
 - 60A DrMOS in a 4x5mm QFN
- POL

Motor Drivers & Position Sensors

- Brushless DC Motor Driver
- Stepper Motor Driver
- Brushed DC Motor/Solenoid Driver
- Half-bridge/Full-bridge/Three-phase Power Stages
- Magnetic Angular Position Sensors

Power Modules

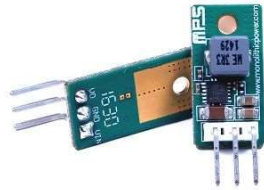
- 6V, 600mA- 4A
- 16V, 600mA – 60A
- 21V, 600mA – 2A
- 36V, 600mA – 5A
- 55V, 1A – 3A
- 75V, 300mA

Precision Analog

- Analog Switches
- Current Sense Amplifiers
- Operational Amplifiers
- Voltage Reference

MPS Reconfigurable Standard Products

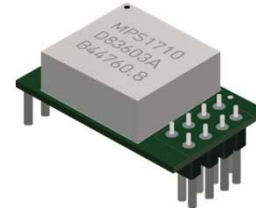
DC-DC



AC-DC



Motion Control



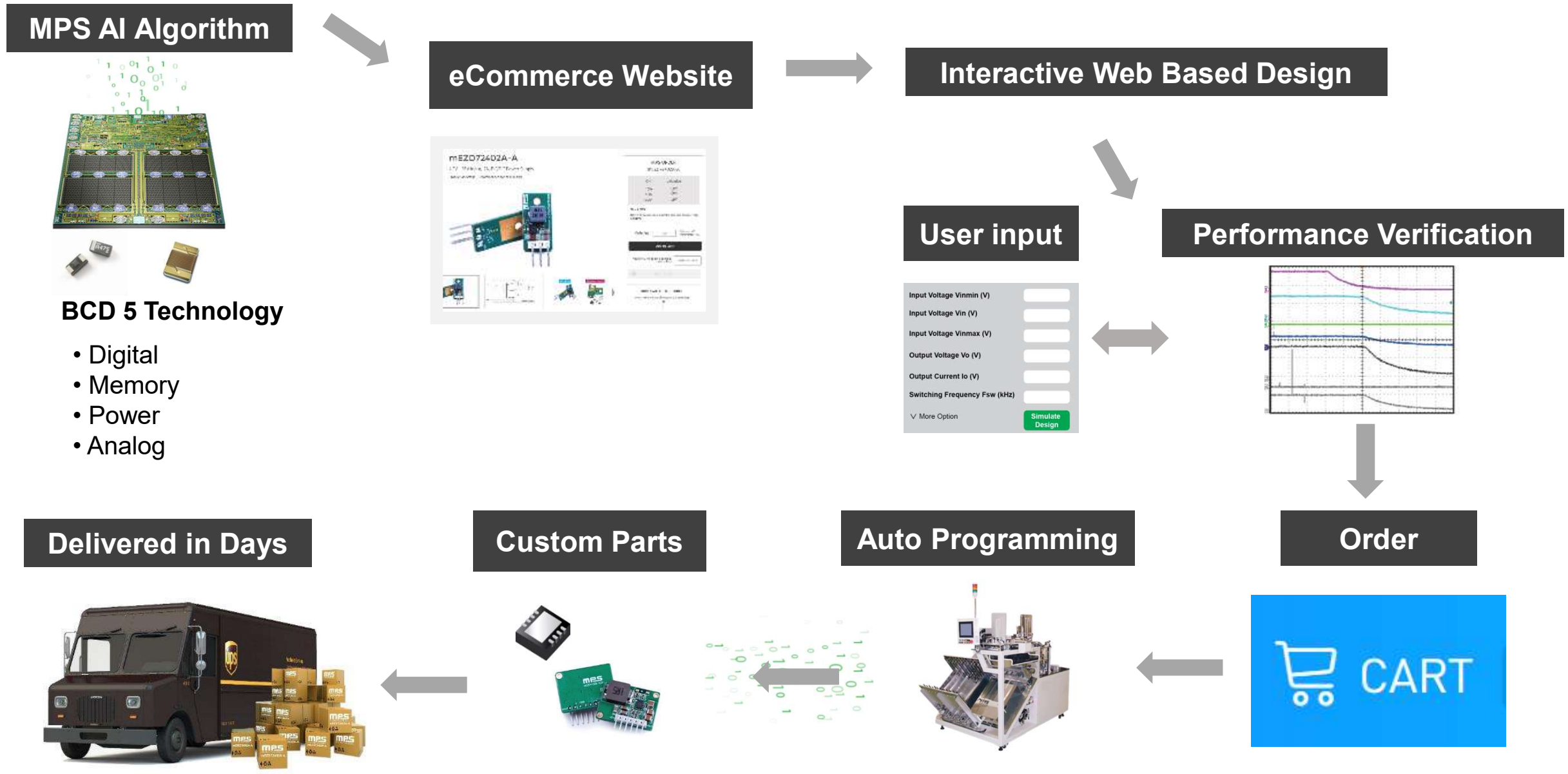
LED Lighting

Audio Amp

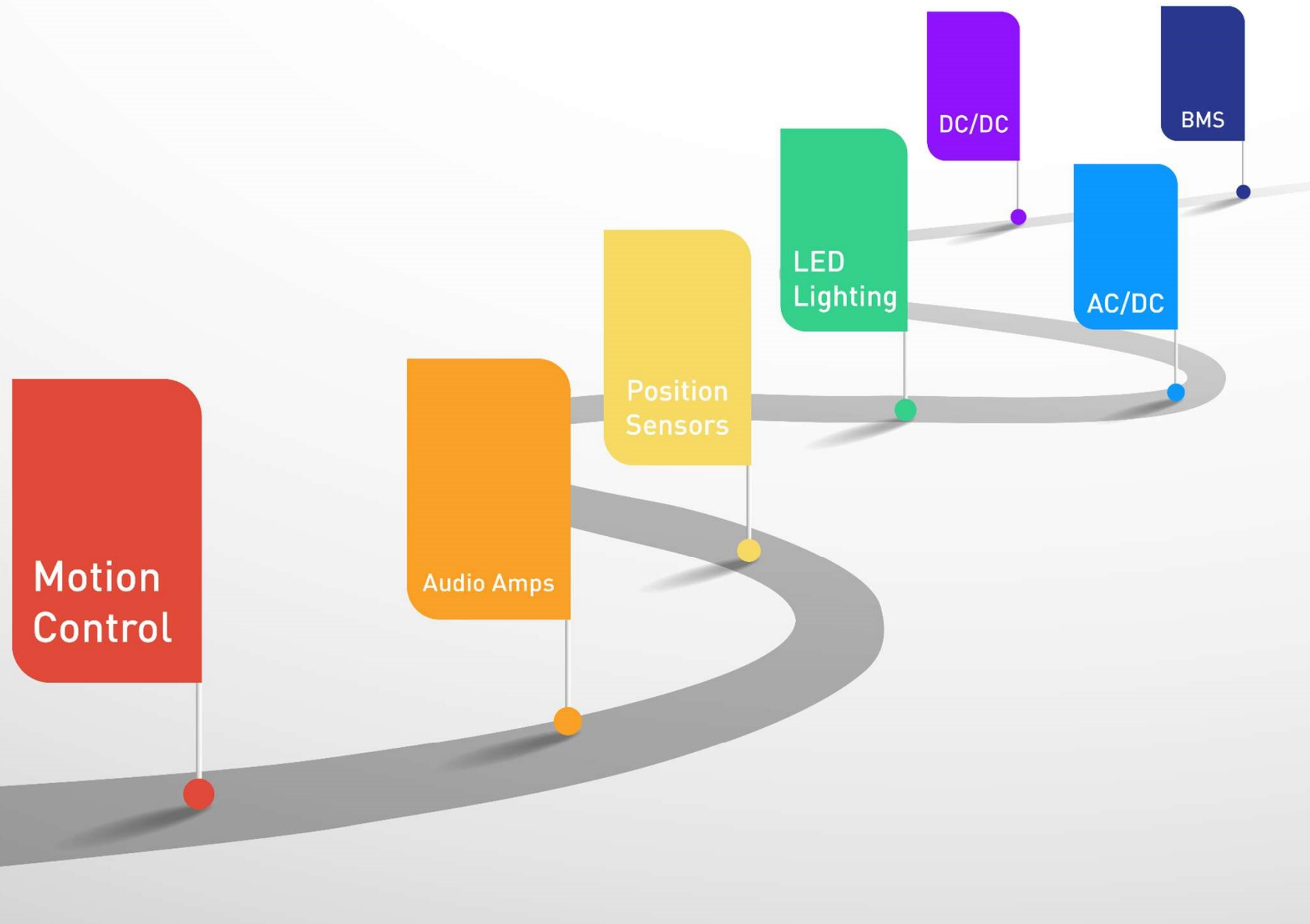


Sensors

Engineer to Engineer (E2e) - eCommerce

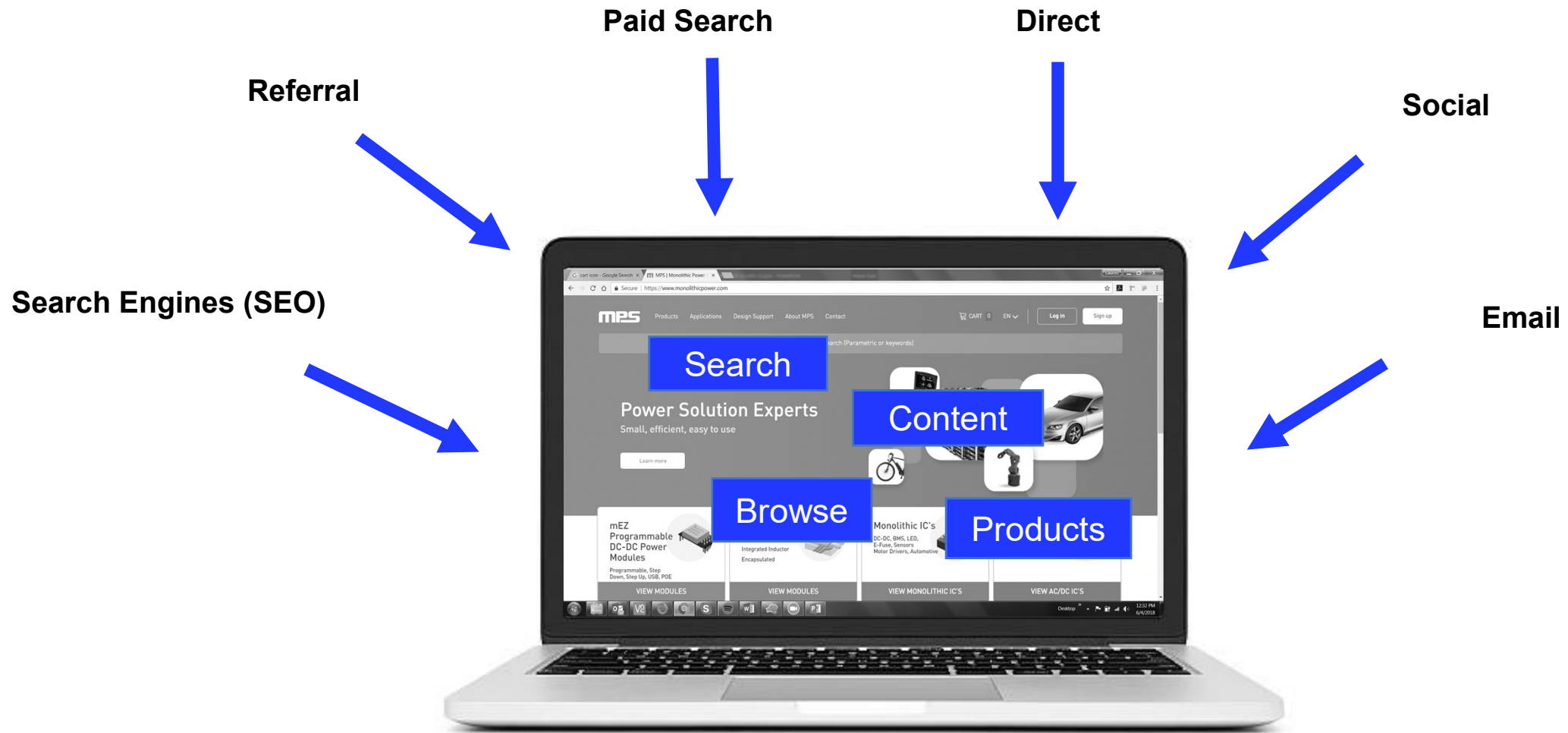


Product Roadmap



Reaching Customers at Scale

Website Customer Acquisition



Computing Power Evolution

MPS

It All Started with Two Innovations

- **MPS Invented Intelli-phase in 2010**

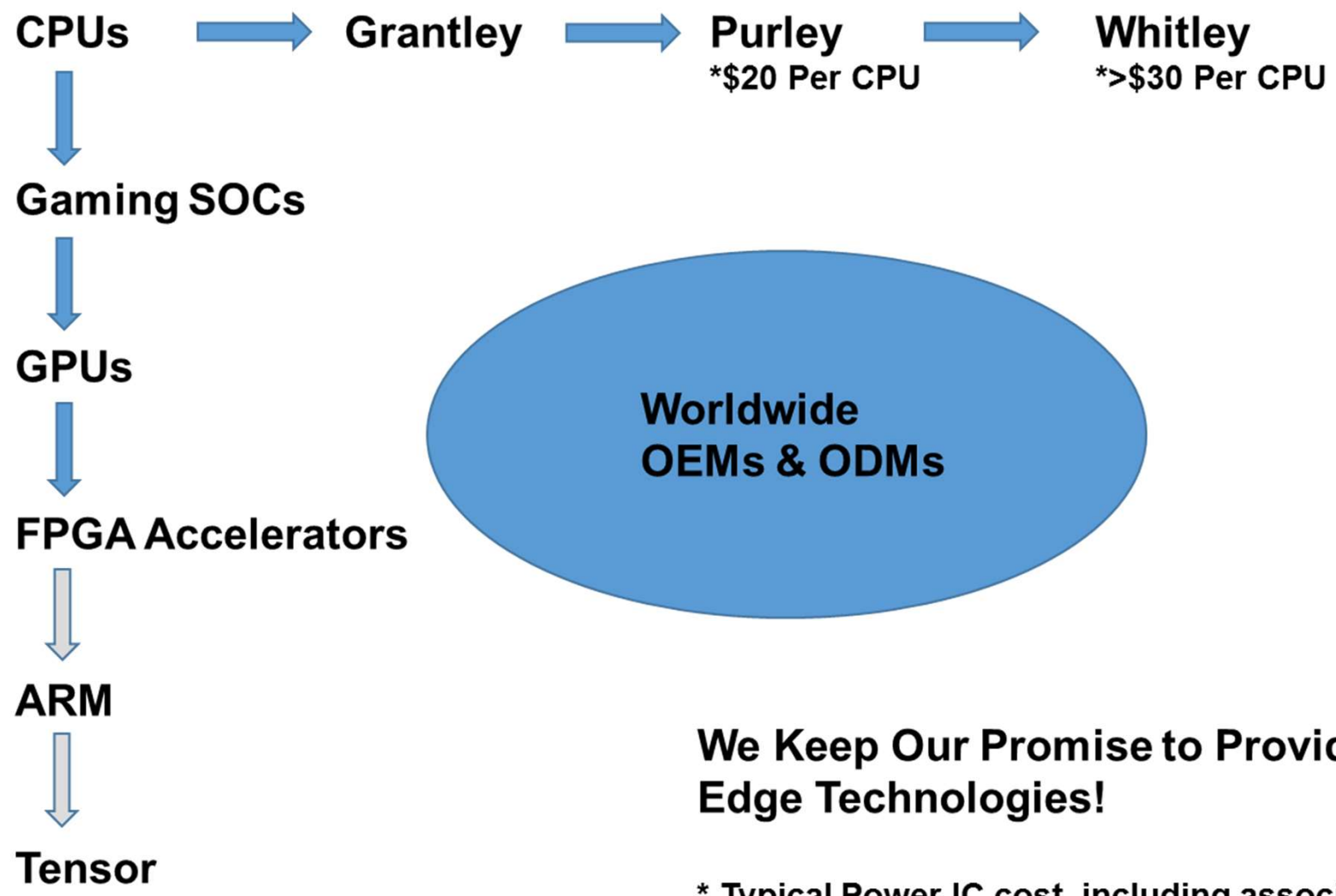
World's first monolithic power stage with integrated Accu-sense.

- **MPS Invented QSMOD in 2012**

Quantum State Modulation- Modulation based on finest digital steps to determine the real-time output voltage.

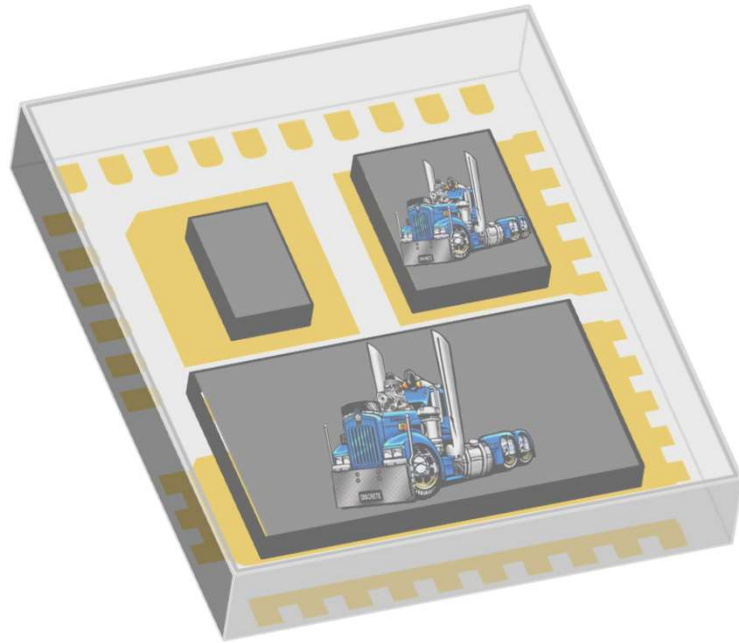
- **MPS First Server Core Power Solution Successfully Powered Intel Grantley Platform in June 2014.**

Great Technology Wins Its Own Way

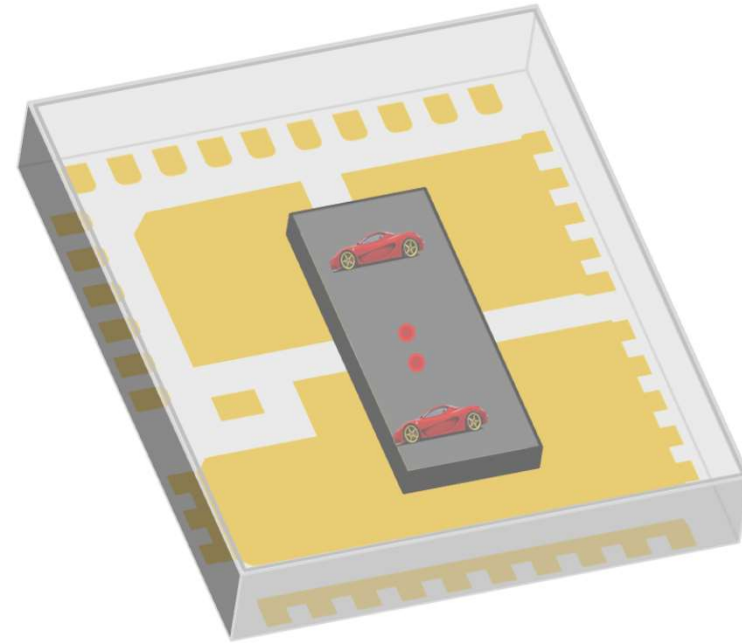


Common Footprint, Uncommon Performance

- Discrete Die DrMOS

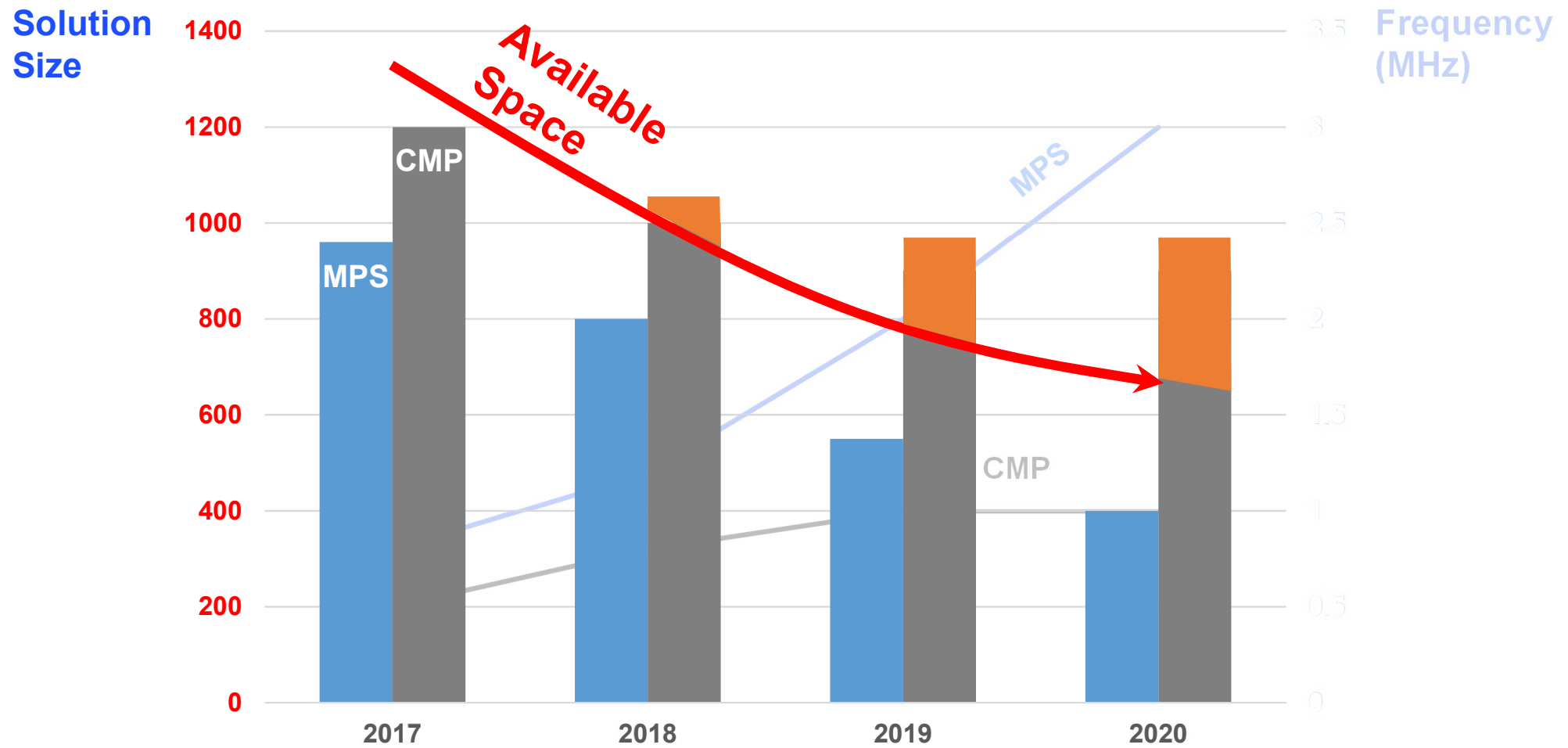


- Monolithic Intelli-Phase



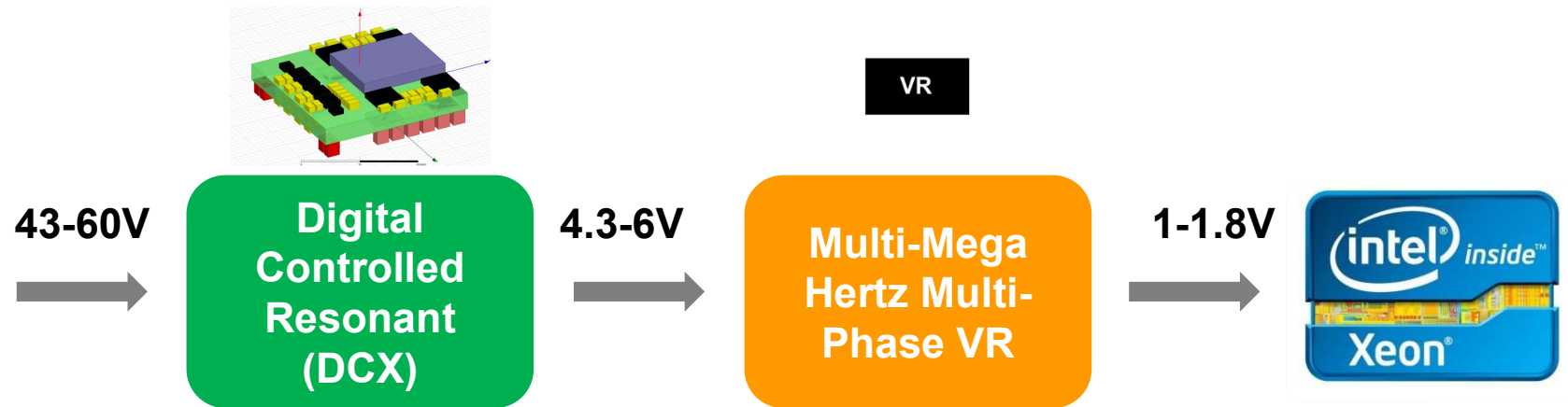
- **Common Footprint Allows Access to Today's Markets**
- **Monolithic Die Provides Superb Switching Performance and Intelligence**

Why MPS is Winning?



While Others Hitting Size and Frequency Boundaries, MPS Monolithic Solution Takes Off

Ready for the 48V Power Architecture for Data Centers



2-Stage Structure

- **Simplicity** – well-understood architecture
- **Scalability** – can address different power levels
- **Transient performance** – independent second-stage offers superior performance
- **Interchangeability** – each stage can be upgraded independently
- **Efficiency. Size. Cost** – Optimized.

Intel image source: https://en.wikipedia.org/wiki/Xeon#/media/File:Intel_xeon_inside.jpg

The Evolving of the Computing Eco-System

Datacenter, Cloud

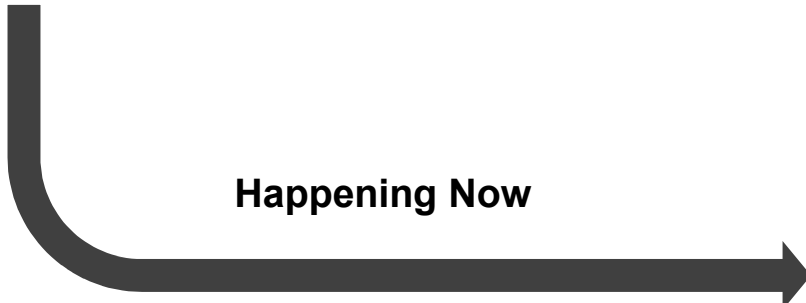


5G Network, Coming Soon



**5G Enabled
Cloud 2.0**

Happening Now



Hyper Converged
-Storage
-Computing
-Networking

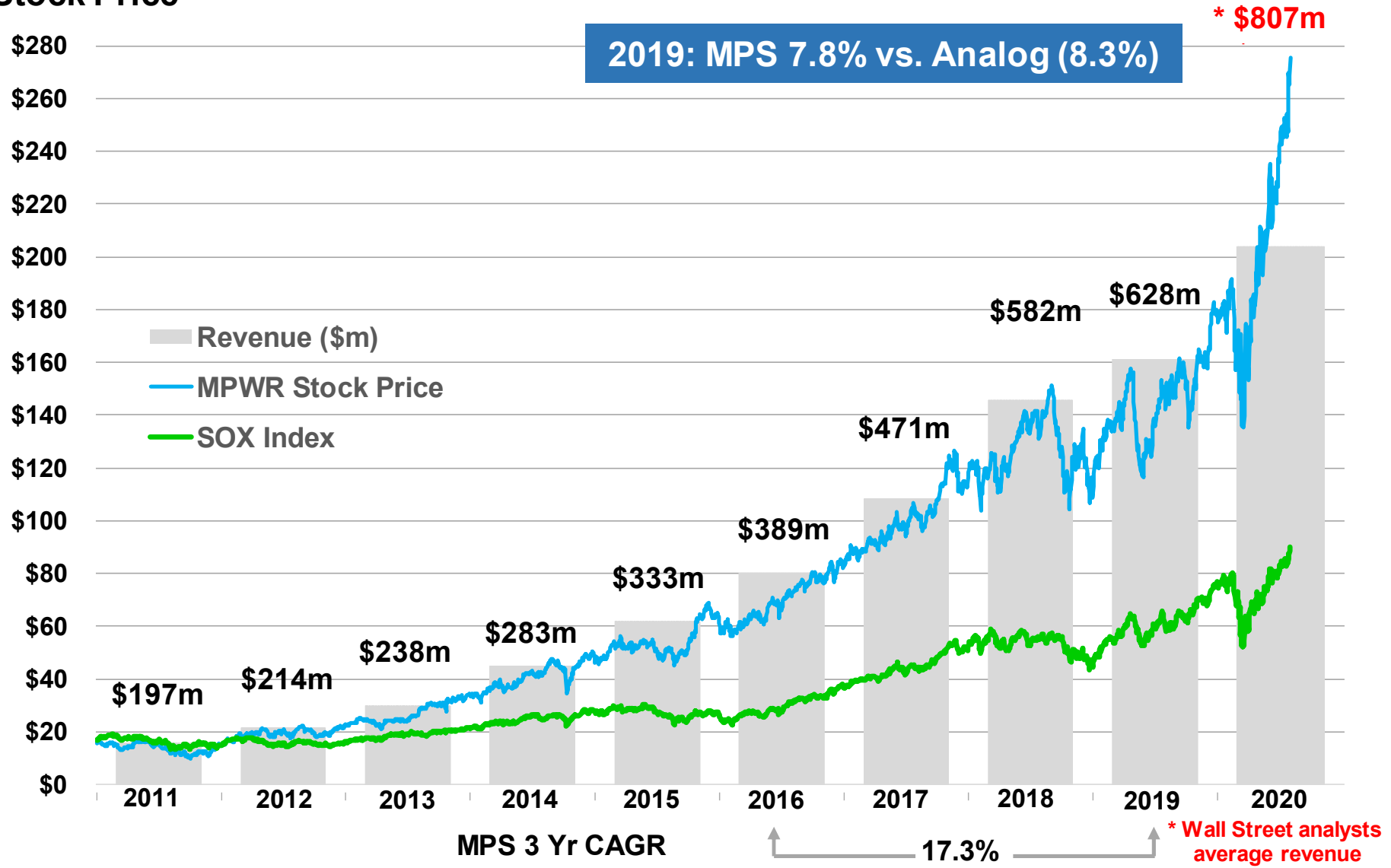
MPS High Speed, High Density Power Solutions- Well Suited for Computing Infrastructure Now and Beyond

**Well Positioned with Excellent
Financial Strength**

MPS

Consistent Revenue Growth & Shareholders' Return

Stock Price



Strategic Goals



Full digital solutions – Synthetic Analog



Integrated, software based, control across all product lines



Advanced power analog processes

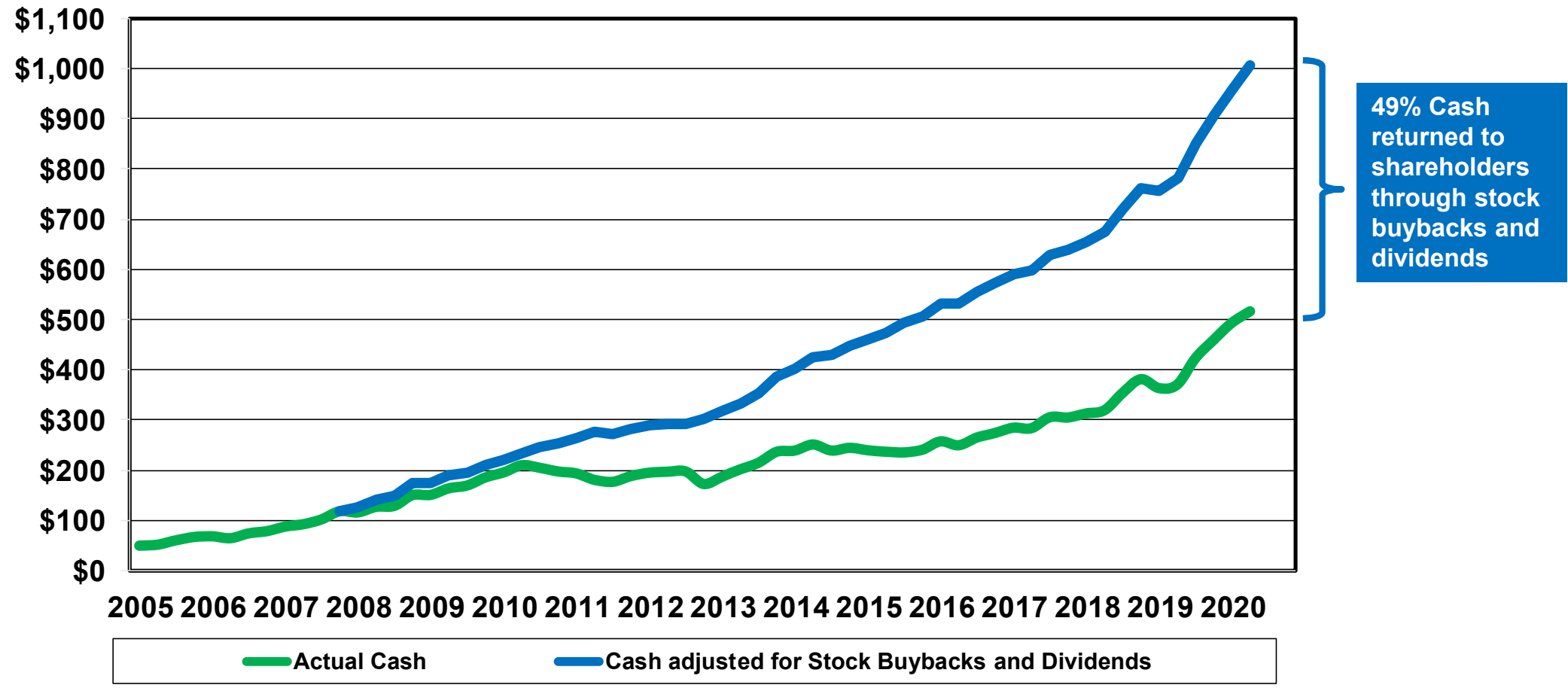


Continued Compute and Automotive gains



Future Network Infrastructure and Industrial wins

Capital Allocation – 49% of Cash Returned to Shareholders



Closing Summary

- Disruptive new products allowing unprecedented levels of integration, efficiency and ease of use.
- Pressing ahead with process technology lead
- Expanding in high growth, end markets of Automotive, Industrial, Cloud Computing and Networking
- Significant operating leverage while continuing to invest in next generation products and markets

Q&A