

# MPS Management

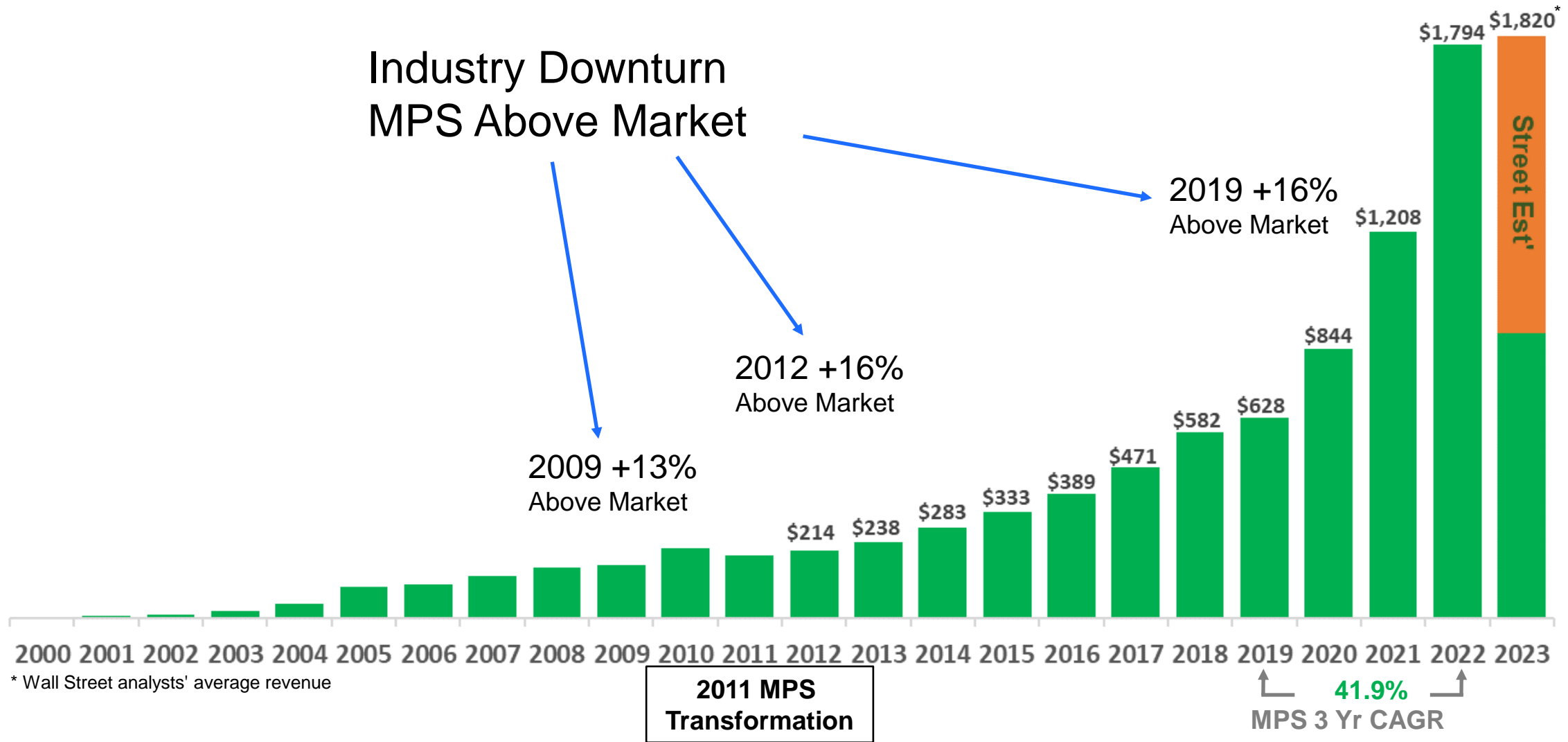
August 24th, 2023

**MPS**

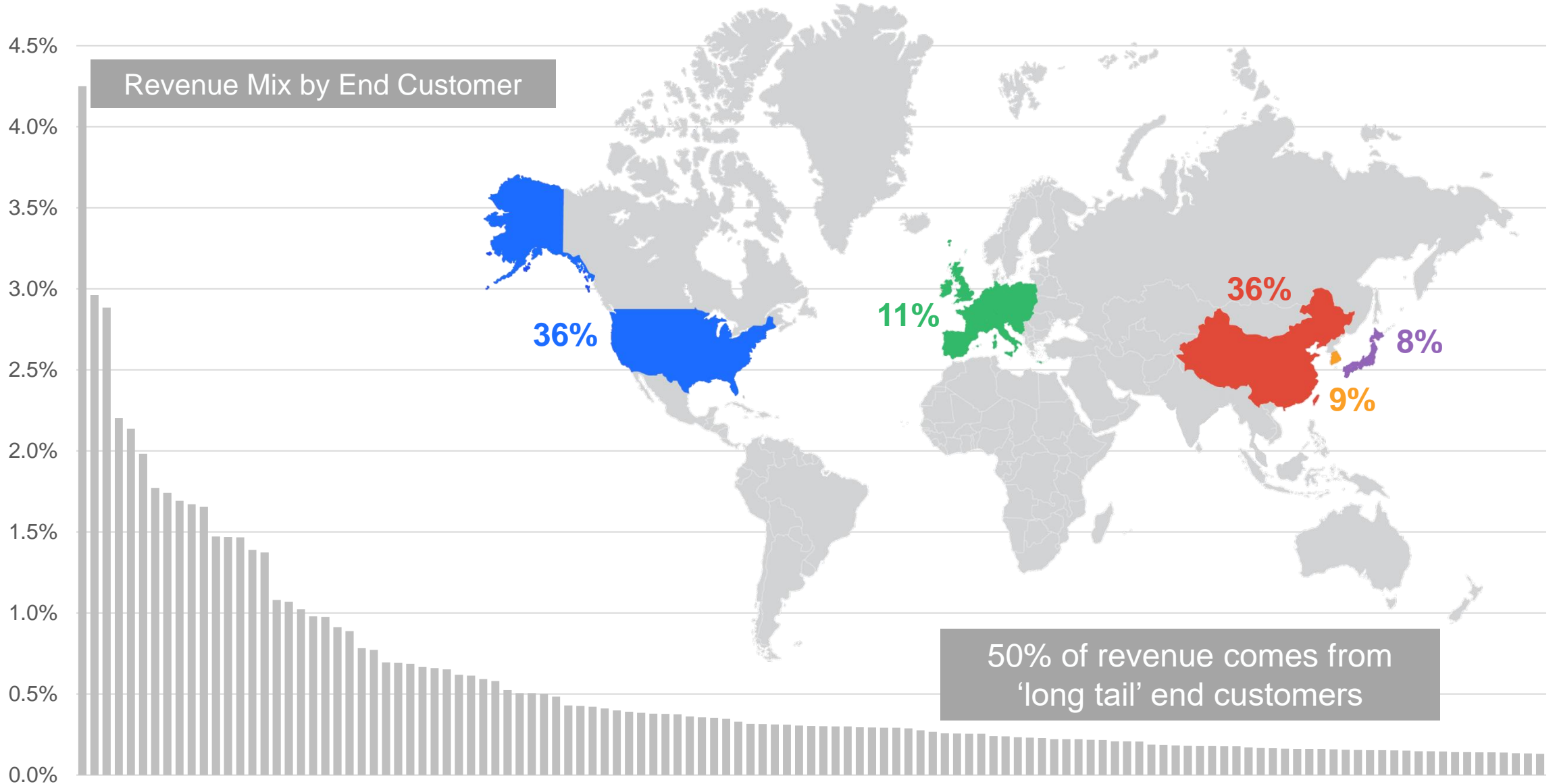
# Forward Looking Statements

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.

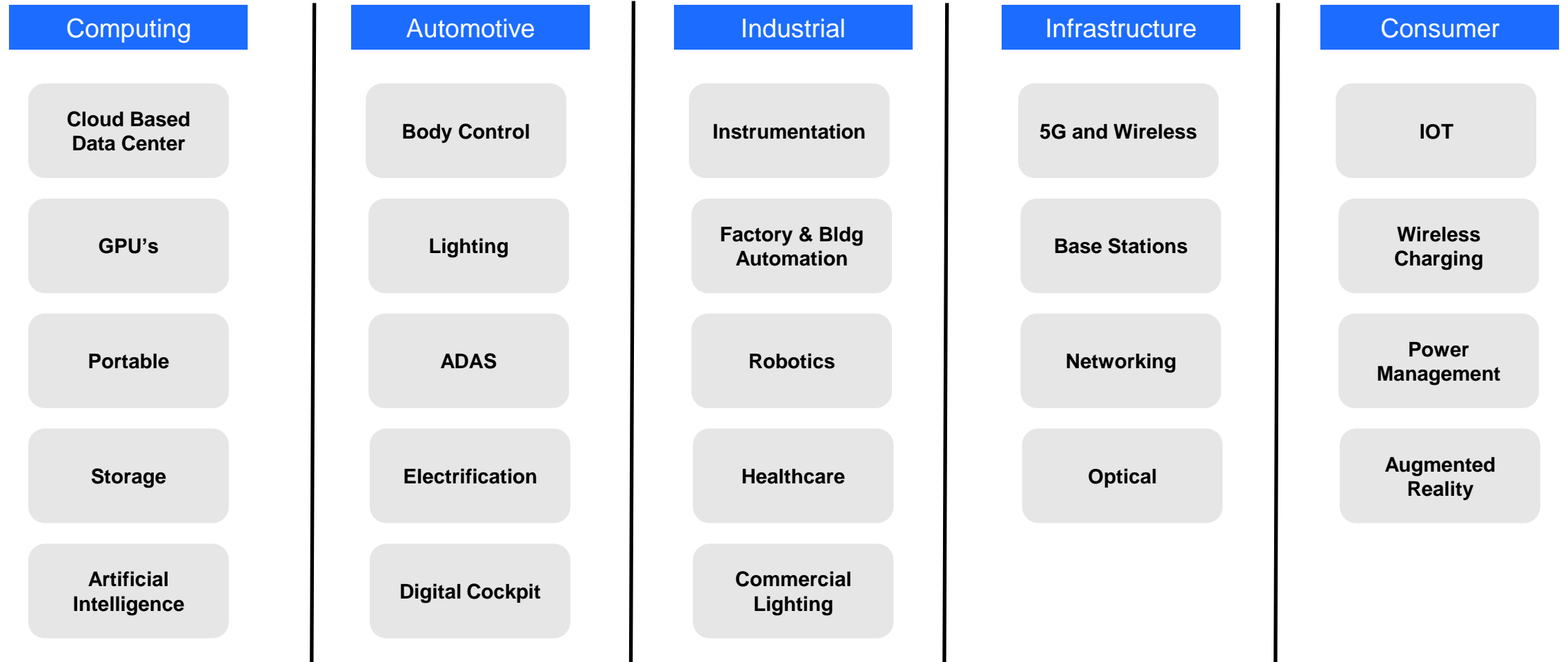
# MPS Growing, Even in Tough Markets (\$M)



# Great Revenue Diversification by GEO & End Customer



# Growth Drivers by End Market



# Leveraging 4000+ Products

## AC/DC Power Conversion

- High-Voltage Buck Regulators
- High-Voltage LDOs
- Flyback Controllers
- Flyback Synchronous Rectifiers
- Active PFC Controllers
- LLC Resonant Converter Controllers
- LLC Synchronous Rectifiers
- PFC & LLC Combo Controllers
- X Capacitor Bleeders

## DC/DC Power Conversion

- Step-Up (Boost)
- Step-Down (Buck)
- Buck/Boost
- CPU Core Power
  - 50A DrMOS in a QFN (5mmx5mm) Package
- Power Magnetics
  - Molded Inductors
  - Semi-Shielded Inductors

## Isolated Solutions

- Isolated Gate Drivers
- Isolated Power Module
- Digital Isolator with Integrated Power
- Digital Isolators
- Totem-Pole PFC/LLC Controller

## Battery Management

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

## Display Backlighting Power

- Backlight Drivers
- Electroluminescent 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
- Parallelable 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 Controllers
- PWM and Analog Dimmable AC/DC LED Controllers
- DC/DC LED Controllers: Buck, Boost, & Buck-Boost
- LED Protection ICs

## Computing Power

- CPU Core Power
- High-Current DrMOS
  - 60A DrMOS in a QFN (4mmx5mm) Package
- POL

## Motor Drivers & Position Sensors

- Brushless DC Motor Drivers
- Stepper Motor Drivers
- Brushed DC Motor/Solenoid Drivers
- Half-Bridge/Full-Bridge/Three-Phase Power Stages
- Magnetic Angular Position Sensors

## Power Modules

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

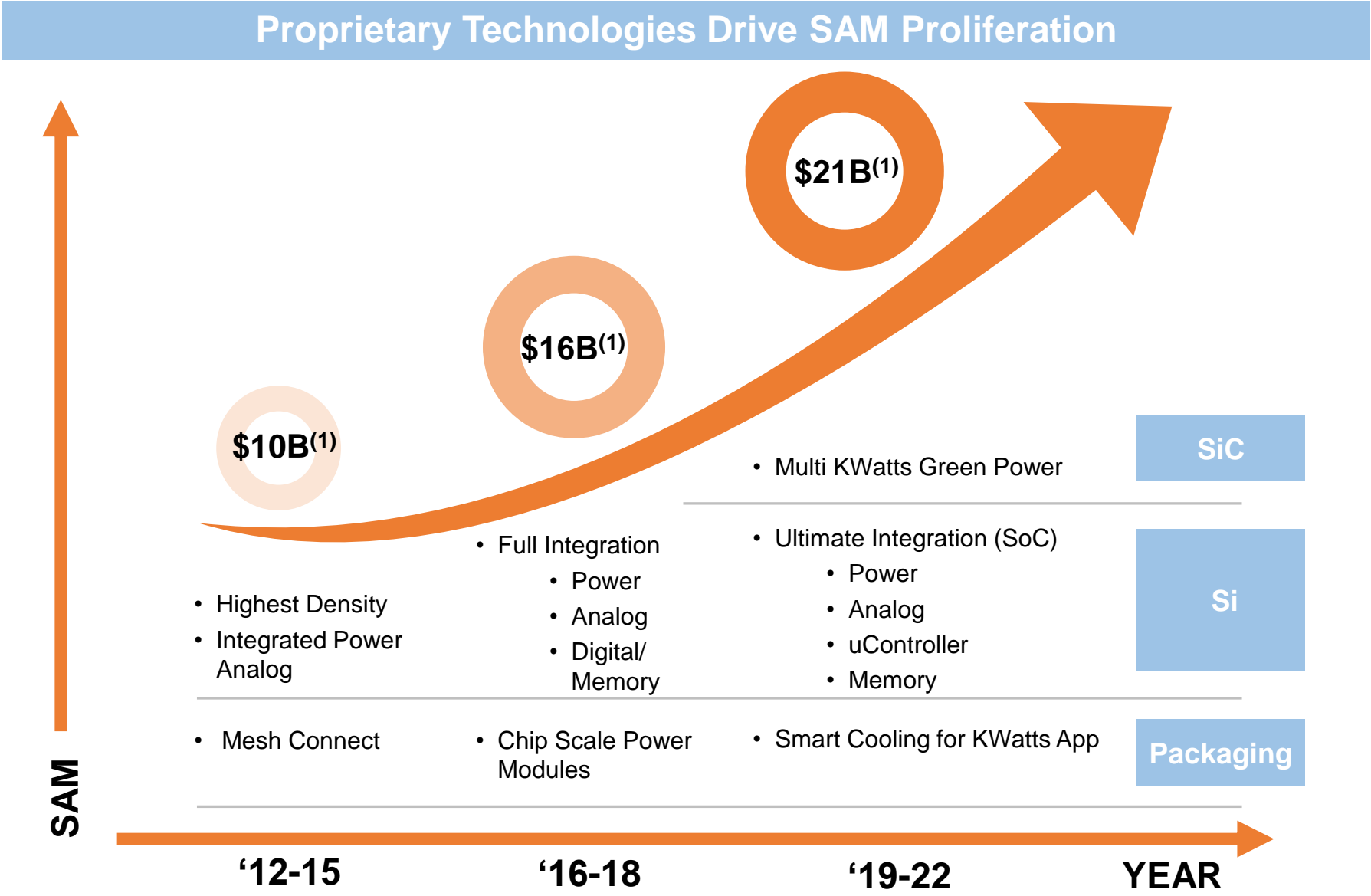
## Class-D Audio, Precision Analog

- Analog Input Class-D Amplifiers
- PWM Input Power Stages
- Analog Switches
- Current-Sense Amplifiers
- Operational Amplifiers
- Voltage Reference

# Diverse End Markets

| % of Revenue          | 2010  | 2020  | 2022  | 23Q2  | 2019-2022 CAGR |
|-----------------------|-------|-------|-------|-------|----------------|
| Storage and Computing | 10.4% | 21.4% | 25.3% | 28.2% | 47.4%          |
| Consumer              | 65.1% | 26.1% | 17.8% | 14.8% | 24.8%          |
| Automotive            | 1.9%  | 12.9% | 16.7% | 23.6% | 49.2%          |
| Communications        | 17.8% | 16.9% | 14.0% | 11.2% | 43.7%          |
| Enterprise Data       | -     | 8.6%  | 14.0% | 10.9% | 73.7%          |
| Industrial / Other    | 4.8%  | 14.2% | 12.2% | 11.3% | 30.2%          |
| Total                 | 100%  | 100%  | 100%  | 100%  | 41.9%          |

# MPS Technology Evolution





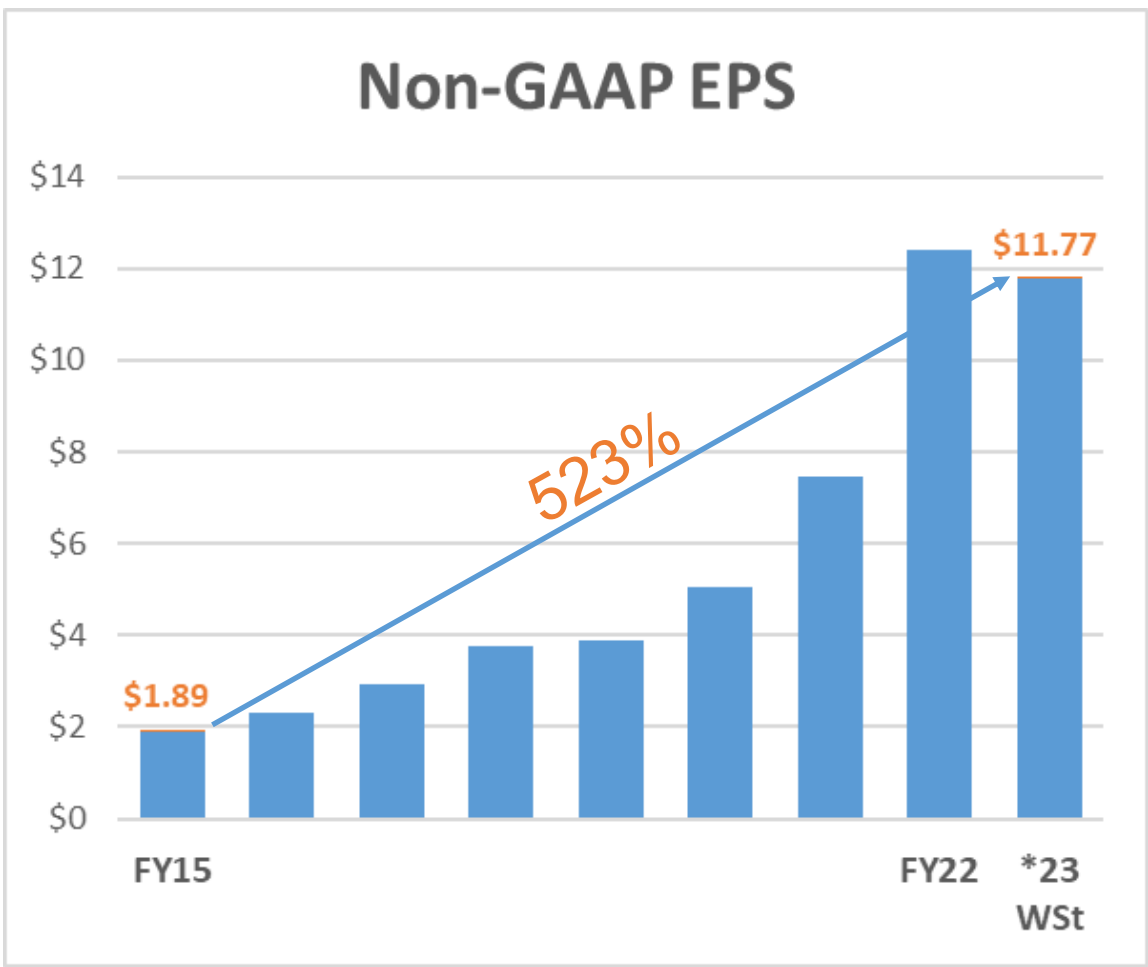
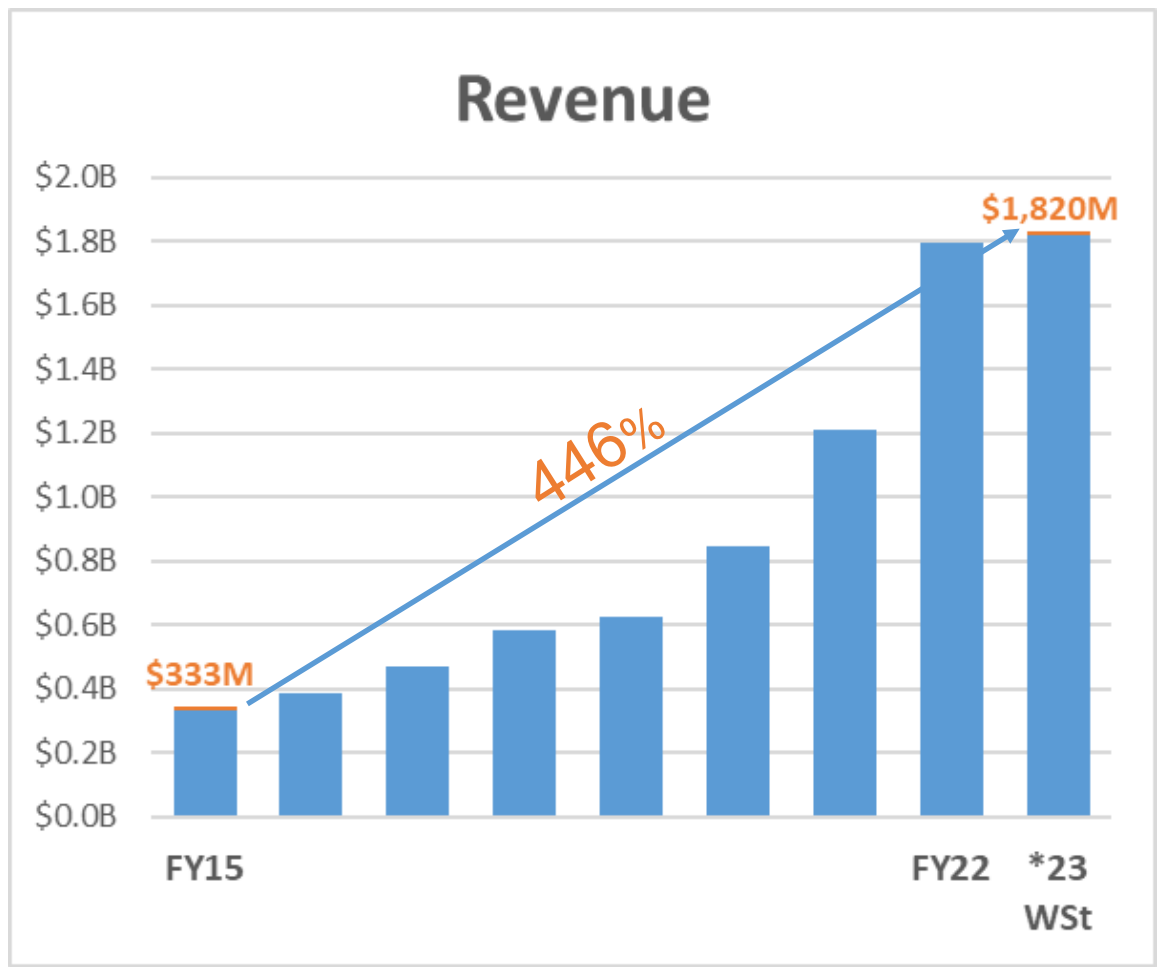
# SAM Expansion

| Market                             | 2015 SAM     | 2018 SAM     | 2021 SAM     |
|------------------------------------|--------------|--------------|--------------|
| Automotive                         | \$4B         | \$6B         | \$7B         |
| Motion Control                     | \$2B         | \$3B         | \$4B         |
| ACDC                               | \$1B         | \$2B         | \$2B         |
| Modules                            | \$1B         | \$2B         | \$2B         |
| Cloud Computing (Server / Storage) | \$800M       | \$1B         | \$4B         |
| Networking / Telecom               | \$600M       | \$1B         | \$1B         |
| Battery Management                 | \$600M       | \$1B         | \$1B         |
| <b>Total Market SAM</b>            | <b>\$10B</b> | <b>\$16B</b> | <b>\$21B</b> |

# MPS Global Footprint: R&D Centers and MFG Partners



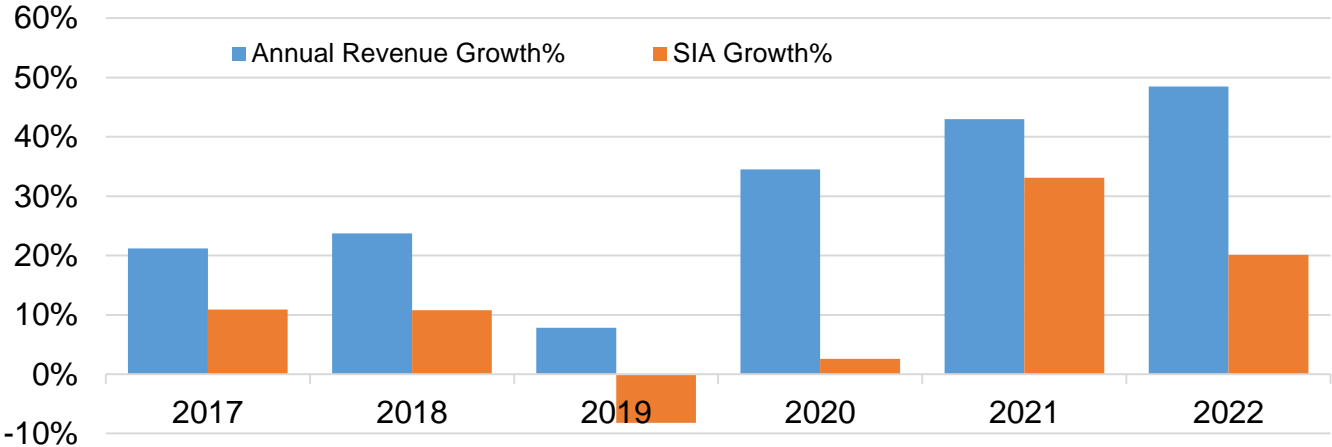
# EPS Growing Faster Than Revenue



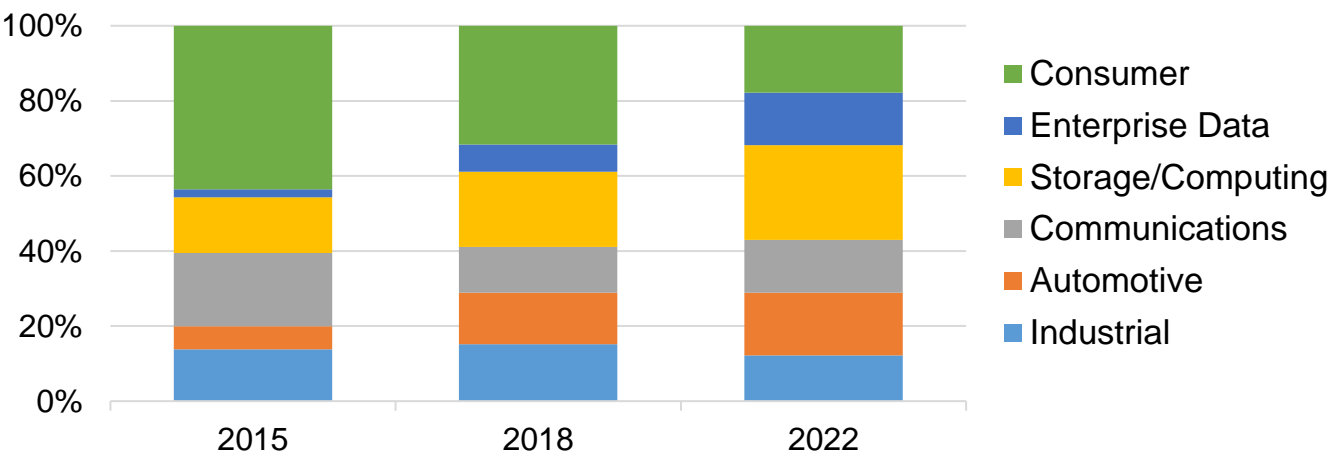
\* Wall Street Forecast

# Execution Against Our Commitments

**Goal: Grow revenue 20% to 25%**



**Goal: Diversify revenue from consumer**

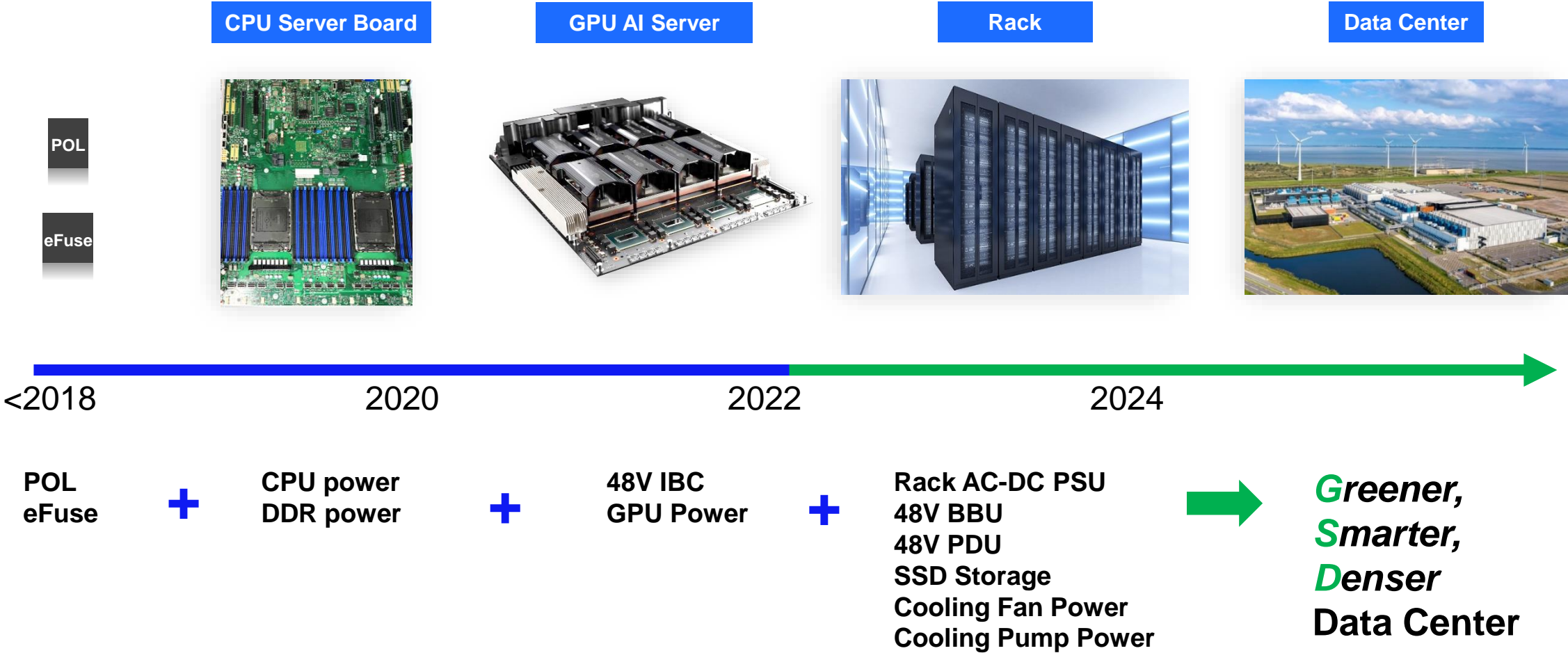


# Computing

**mPS**

# From Board Level Power to Rack and Beyond

>\$4B SAM and Rapidly Growing









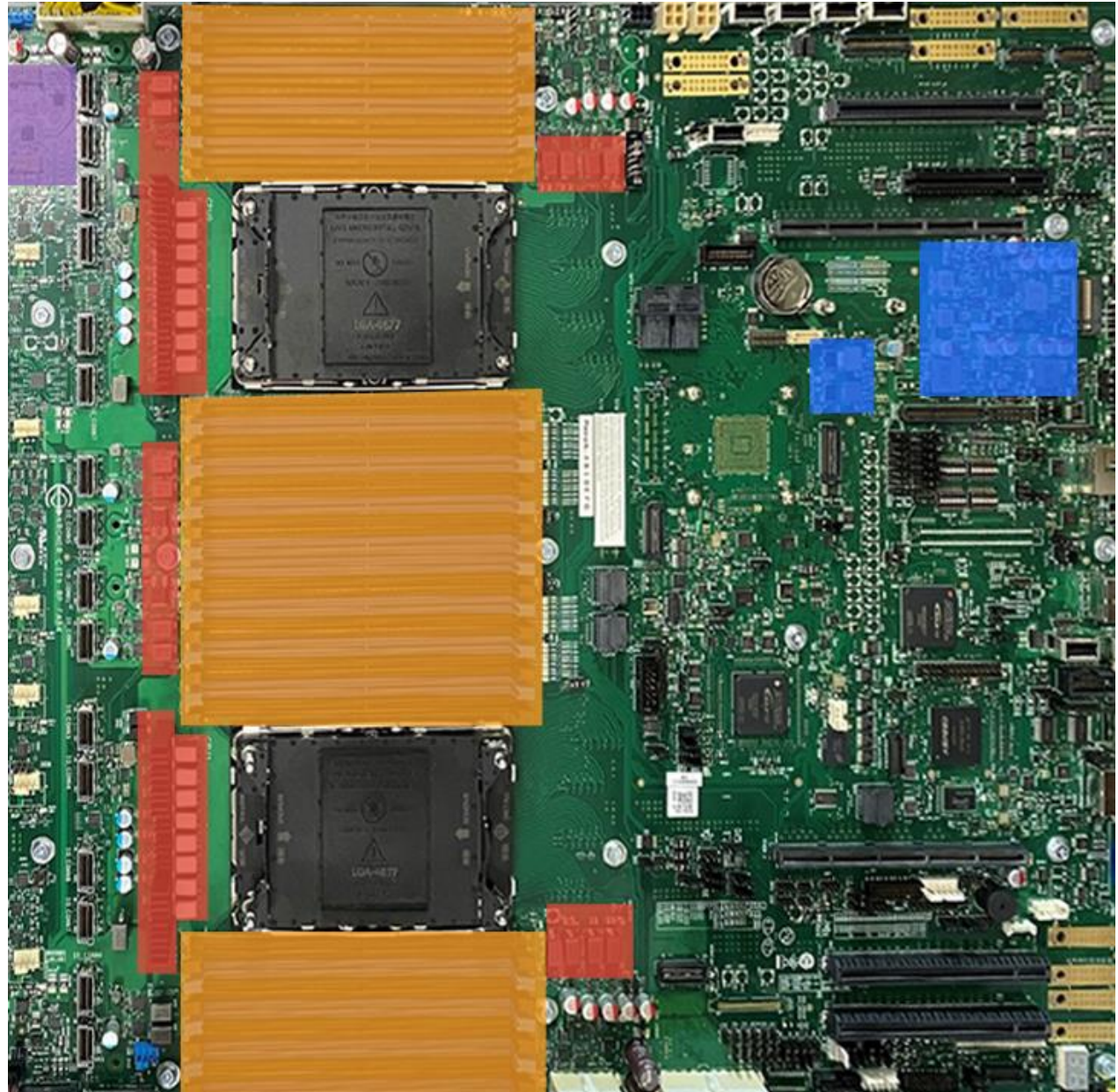
# Server Board Level Power Solutions

**CPU Server: \$1B SAM**

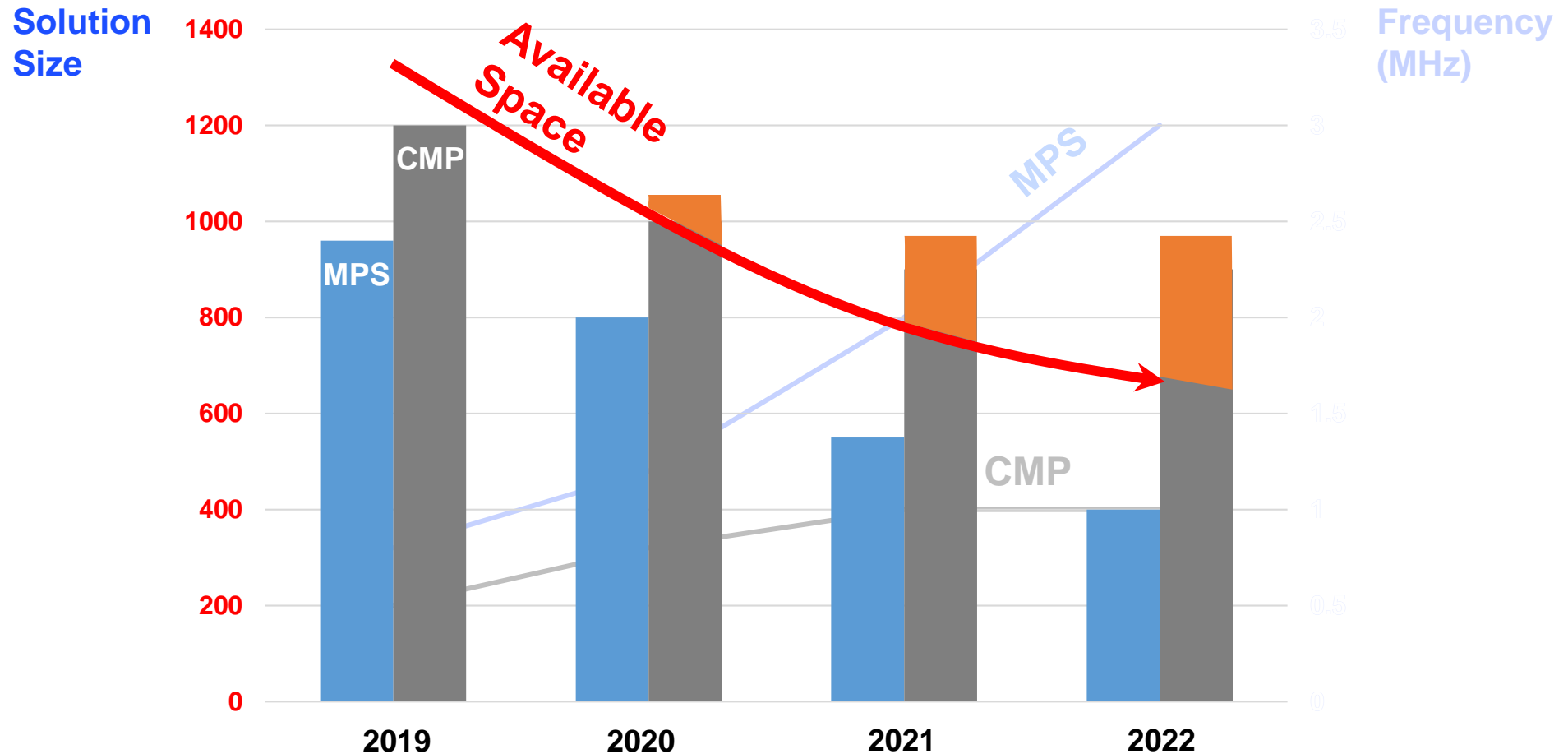
**\$80 MPS Content / Server**

-  **CPU Power**  
\$600M SAM
-  **DDR5 Memory Power**  
\$280M SAM
-  **Point of Load**  
\$60M SAM
-  **EFuse**  
\$60M SAM

**GPU Server: \$500M SAM**



# Why is MPS Winning?



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



# Direct to Data Center Builders & Owners, Additional \$2B SAM

**Datacenter Rack  
Front View**

Network Switch

CPU Servers

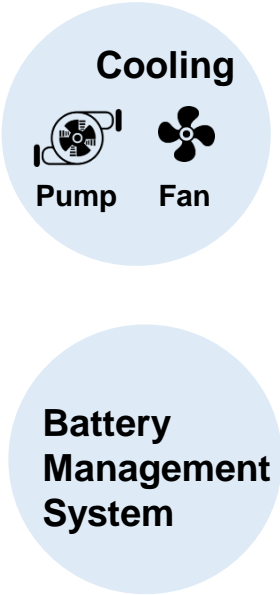
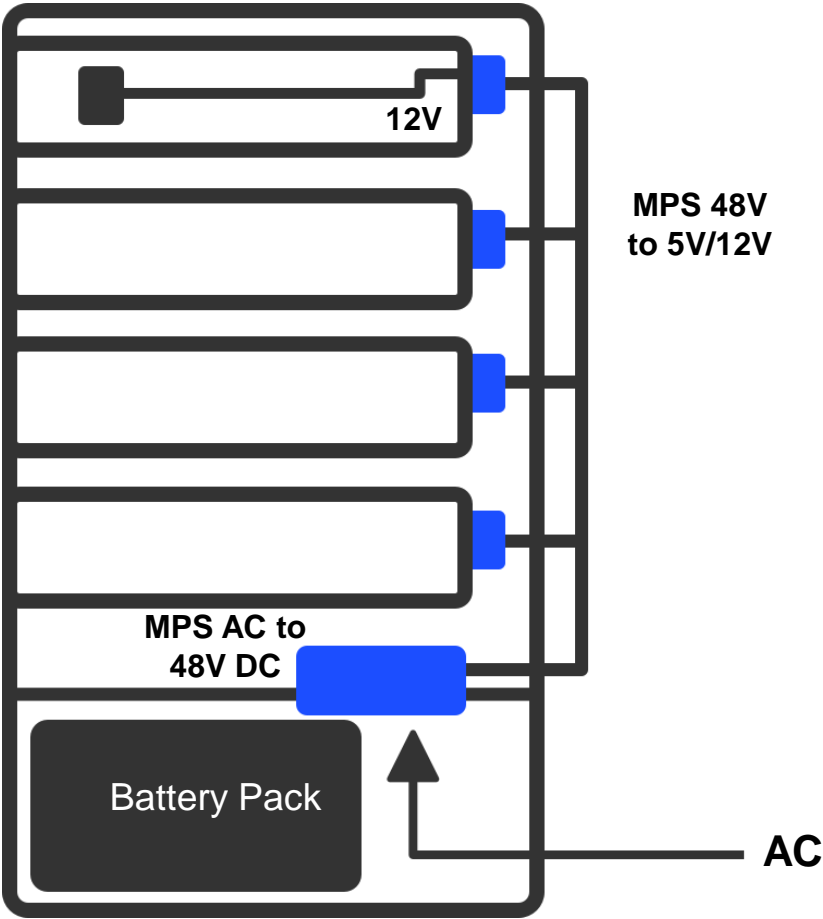
GPU Servers

Network Storage

AC Power Supply



**Rack Side View**

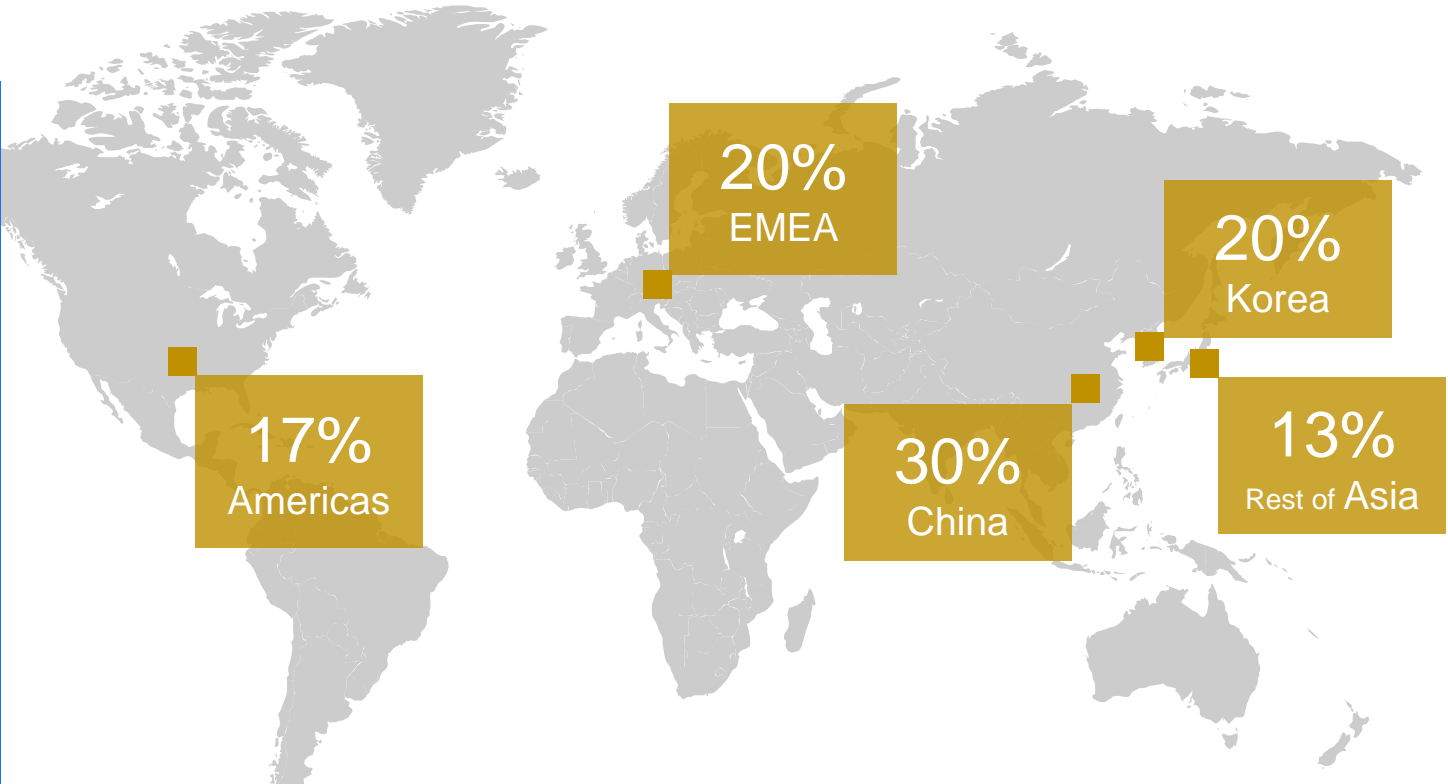
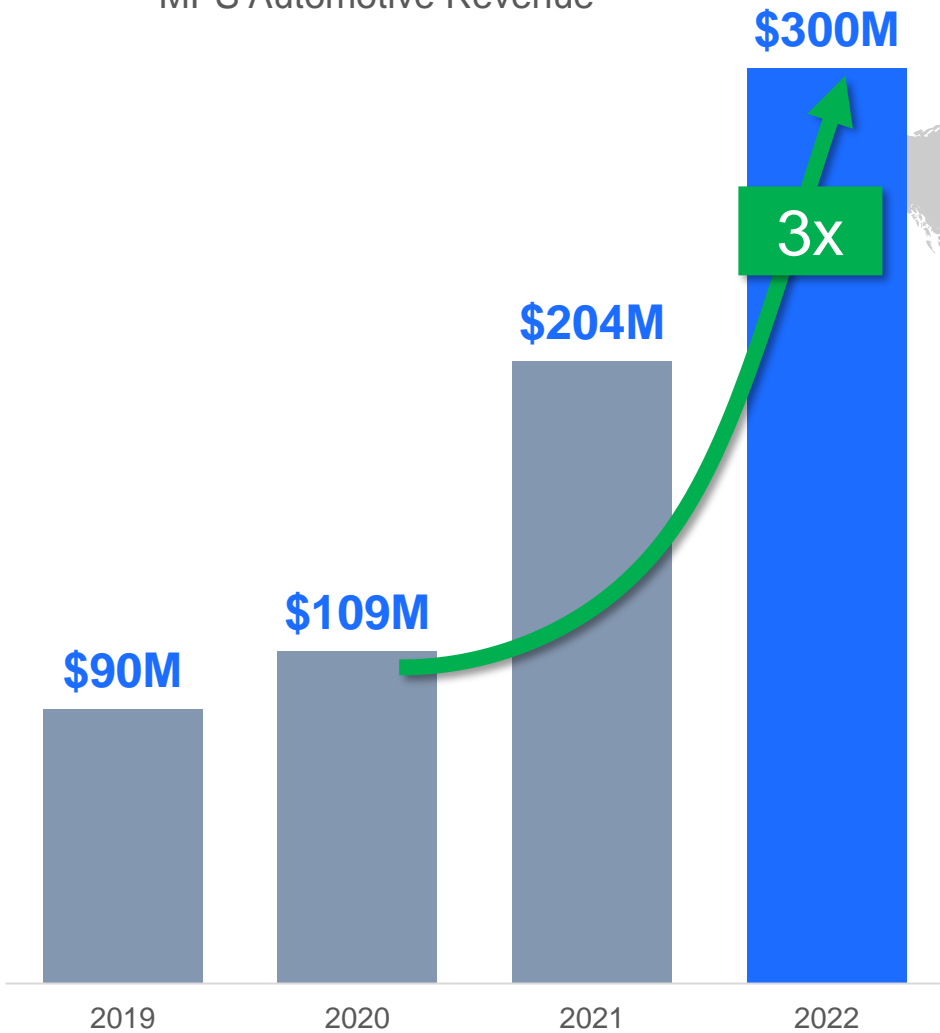


# Automotive

**mPS**

# MPS Automotive – Global and Growing

MPS Automotive Revenue



**2 Billion**

Auto-grade ICs shipped

**17%**

Total company business

**12 Years**

Auto industry experience



# Automotive Applications Covered

DC PM LR MS PS SAFE

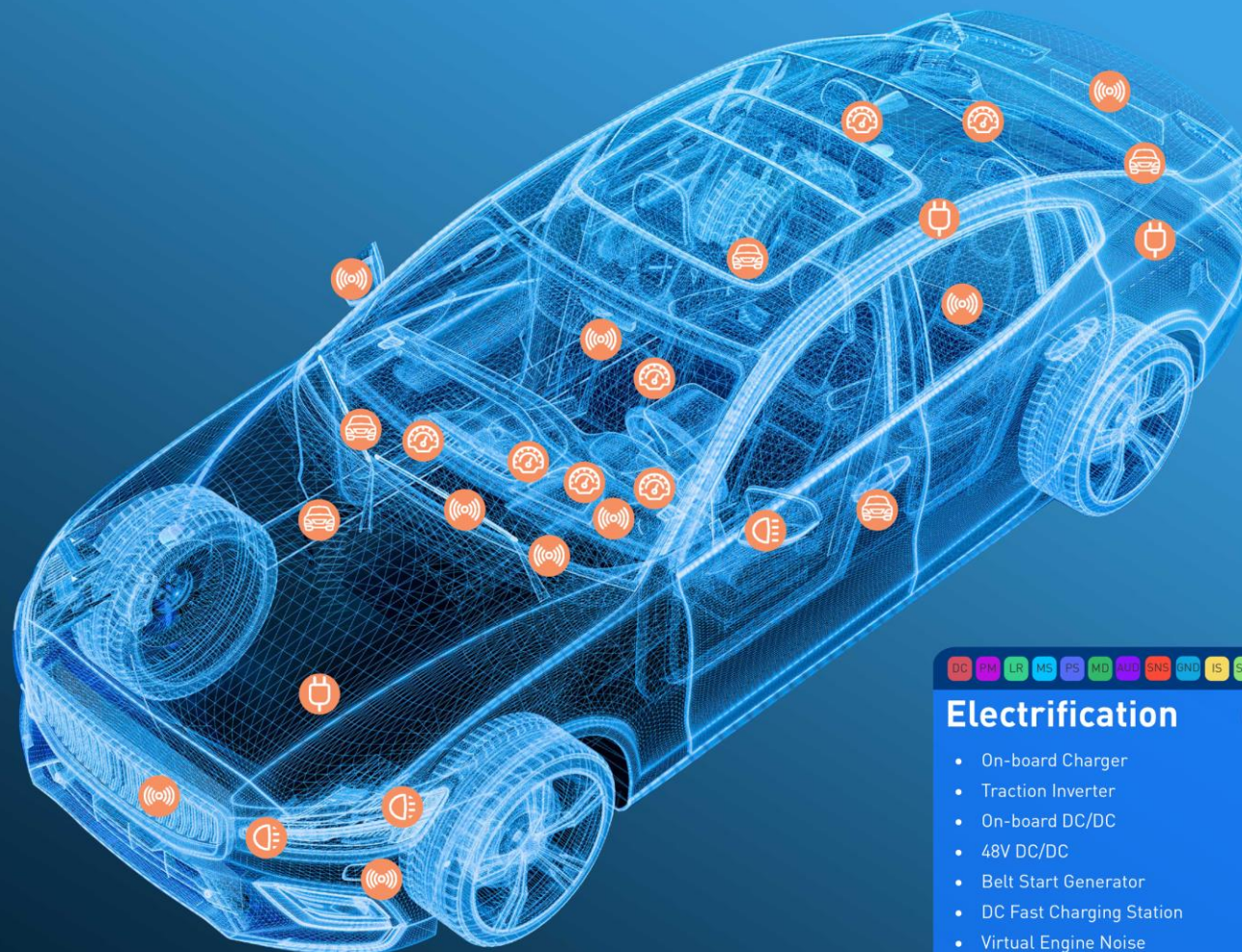
## ADAS

- 360° Camera
- Front Camera
- Backup Camera
- Thermal Camera
- Driver Monitoring
- Cabin Sensing
- Sensor Fusion
- Radar
- LiDAR
- Ultrasonic
- A/V Computing

DC PM LR MS PS LED USB MD MD3 SNS

## Digital Cockpit

- Infotainment
- E-Call
- Digital Mirror
- USB Charging
- Wireless Charging
- Telematics/V2X
- HUD
- Cluster
- Ambient Lighting



DC PM LR MS PS SNS

## Body Control & Other

- Motor Modules
- Door Latch/Lock
- Keyless Entry
- Junction Box
- HVAC
- Gateway
- Liftgate
- Power Assisted Steering
- Suspension Sensor
- Wiper Motor
- Electronic Braking System
- Fluid Pumps
- Electronic Parking System
- Power Seat
- eShift

DC PM LR MS PS MD MD3 SNS GND IS SAFE

## Electrification

- On-board Charger
- Traction Inverter
- On-board DC/DC
- 48V DC/DC
- Belt Start Generator
- DC Fast Charging Station
- Virtual Engine Noise

DC LR MS PS LED MD SAFE

## Lighting

- Daytime Running Lights
- Matrix Lights
- Fog Lights
- Headlamps
- Brake Lights/CHMSL
- Turn Indicator Lights

### PRODUCT TYPES

Buck, Buck-Boost  
& Boost Converters

PMICs

Linear  
Regulators

Monitoring  
& Supervision

Power  
Switches

LED  
Lighting

USB &  
Wireless Charging

Motor Drivers

Class-D Audio

Position Sensors  
& Current Sensors

Isolation  
Solutions

GaN Driver

MPSafe™

# MPS Exclusive Solutions for ADAS / Electrification

Smaller,  
Safer ADAS

ONLY Single Vendor



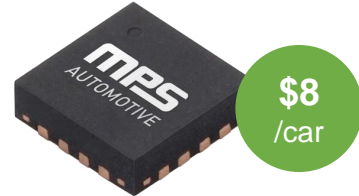
**MPSafe™ High Power Controller + DrMOS**  
For ADAS Compute SoC

40% Smaller Footprint



**MPSafe™ Camera PMIC**  
For L2/L3/L4 Surround View Cameras

4X Higher Power Density



**30W Buck-Boost Converter**  
For Sensor Fusion modules

Higher Power  
Electrification

4X Faster Switching



**Isolated SiC and IGBT Power Supply**  
for Traction Inverter,  
On-Board Charger,  
DC Fast Charging Stations

2X Smaller Footprint



**100V GaN Gate Driver**  
for 48V Mild Hybrid

2X Higher Power



**5kV Isolated SiC Gate Driver**  
for Traction Inverter



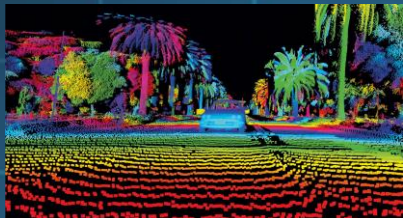
# Relentless Expansion of Product Categories

New Portfolio Launches

## Electrification



## ADAS



## Digital Cockpit



## Lighting & Body



System Safety Sequencer

GaN Driver

Hall-Effect Current Sensor

Intelligent Dynamic LED Driver

Precision Voltage Monitor

Isolated Power / Gate Drivers

ADAS SoC Compute w/ DrMOS

ADAS Camera Safety PMIC

Digital Matrix LED Manager

Safety Subsystem Module

Smart FET

High-End Premium Audio Amplifier

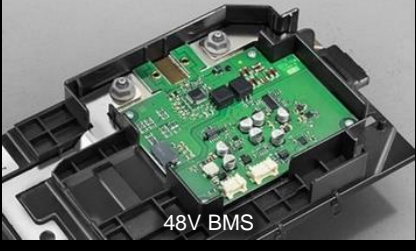
High Voltage Battery Monitor

SiC

New products  
allow MPS to  
address up to  
**\$400/car**  
additional  
sockets



# MPS Automotive: \$1B Wins in Pipeline

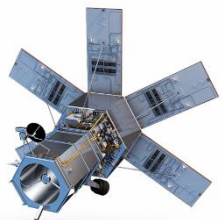


**Data Com**

**mPS**



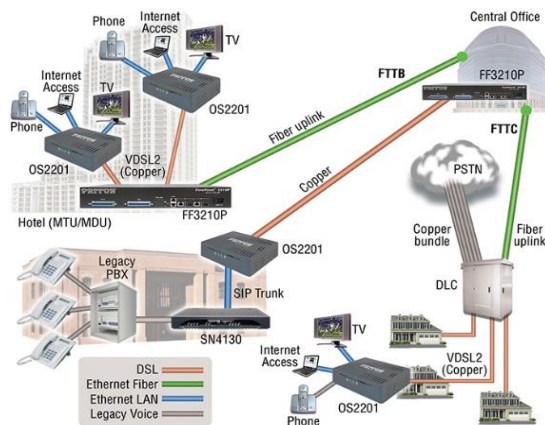
# Data Com / Security – \$4B SAM



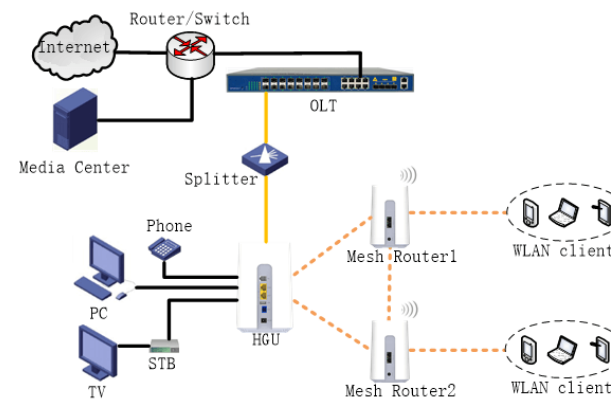
## Satellite & Ground Receiver: Dish + Wifi Router



## DSL/VDSL & Security Systems



## Enterprise WiFi & Security Systems



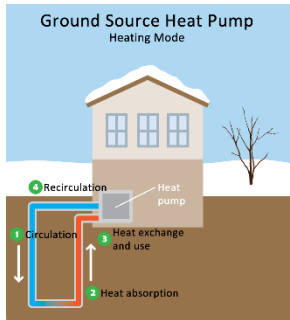
# Clean Energy & Storage

**MPS**

# \$2B SAM Opportunities in Carbon Reduction: Clean Energy and Storage

Over \$150M design wins  
25+ products in development

**Geothermal**  
In development



**Solar Inverter**



**Smart meter**



**Wind Farm**  
In development



**Megawatt Battery  
Storage**



**Home Battery  
Storage**



# Other Revenue

**MPS**



# Over \$3B SAM

**Super Computer /  
Big Data**



**5G Base Station**



**Semi-equipment**



**Inspection Robot**



**Co-Robot**



**UltraSound**



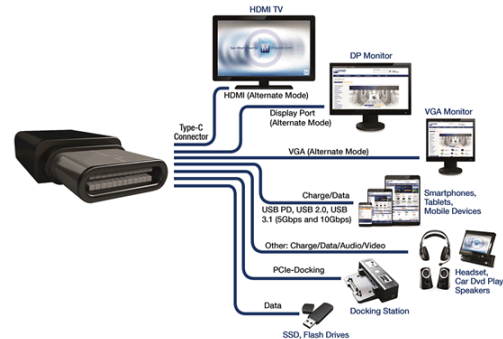
**Home appliances**



**Point of sale**



**USB PD**



**RV&Boat**



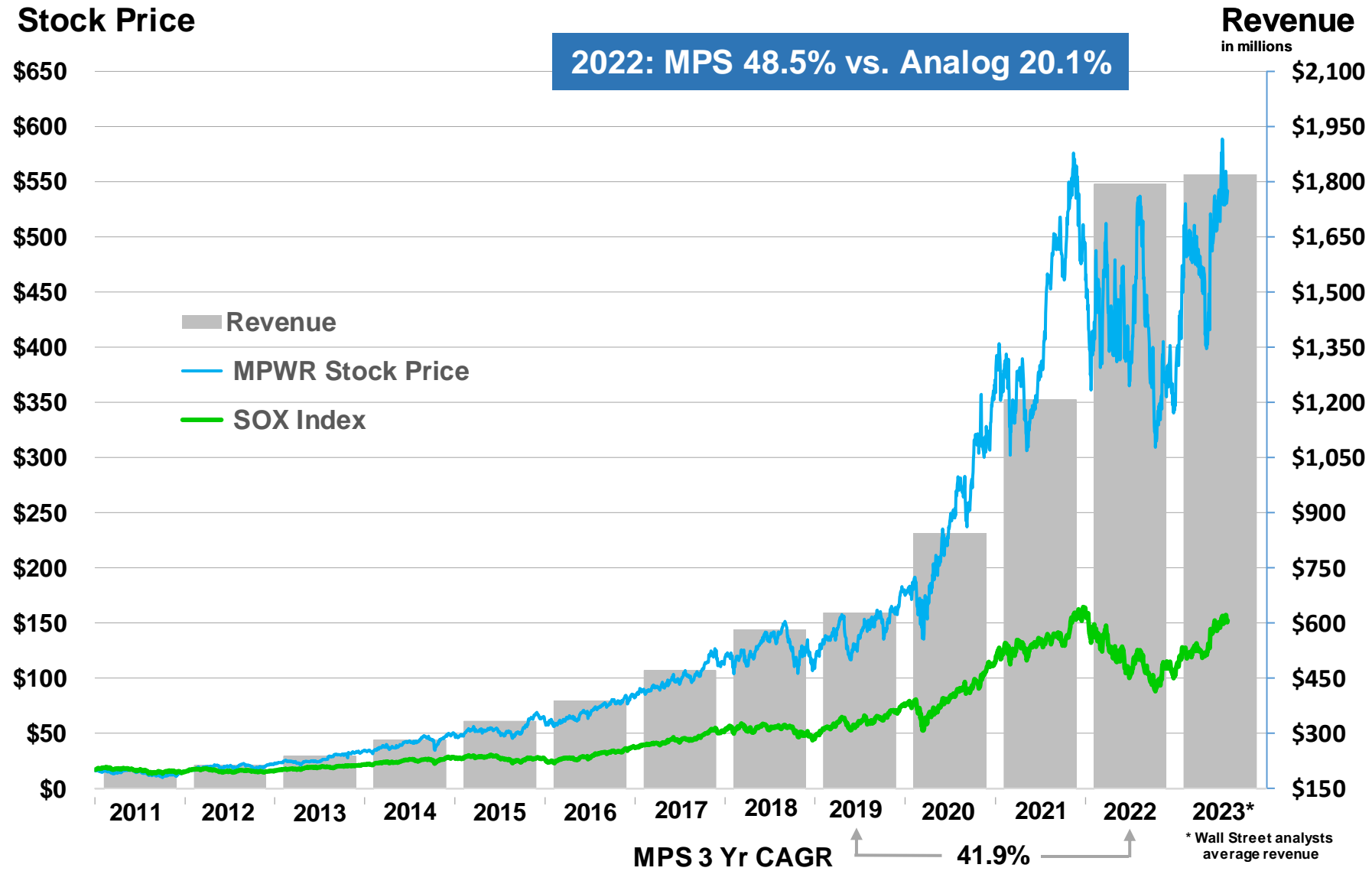
**X-Ray**



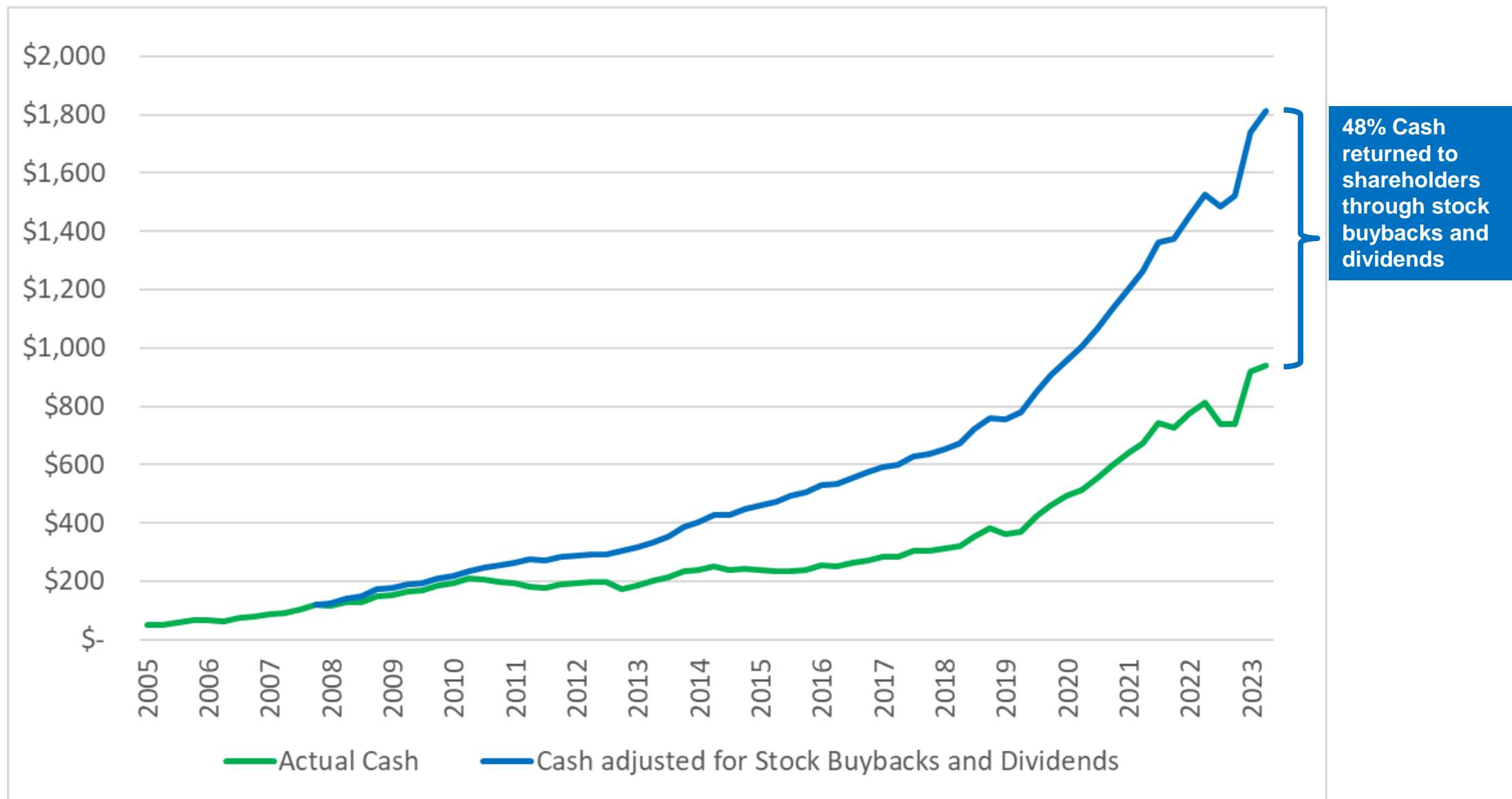
**Well Positioned with Excellent  
Financial Strength**

**MPS**

# Consistent Revenue Growth & Shareholders' Return



# Capital Allocation – 48% of Cash Returned to Shareholders





**MPS grows regardless of the market environment**

**MPS**

**Q&A**