



PPG's Industrial Coatings Segment – Information Session

September 15, 2021



Forward looking statements

This presentation contains forward-looking statements that reflect the Company's current views with respect to future events and financial performance. You can identify forward-looking statements by the fact that they do not relate strictly to current or historic facts. Forward-looking statements are identified by the use of the words "aim," "believe," "expect," "anticipate," "intend," "estimate," "project," "outlook," "forecast" and other expressions that indicate future events and trends. Any forward-looking statement speaks only as of the date on which such statement is made, and the Company undertakes no obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise. You are advised, however, to consult any further disclosures we make on related subjects in our reports to the Securities and Exchange Commission. Also, note the following cautionary statements:

Many factors could cause actual results to differ materially from the Company's forward-looking statements. Such factors include global economic conditions, increasing price and product competition by foreign and domestic competitors, fluctuations in cost and availability of raw materials, the ability to achieve selling price increases, the ability to recover margins, customer inventory levels, our ability to maintain favorable supplier relationships and arrangements, the timing of and the realization of anticipated cost savings from restructuring initiatives, the ability to identify additional cost savings opportunities, difficulties in integrating acquired businesses and achieving expected synergies therefrom, economic and political conditions in the markets we serve, the ability to penetrate existing, developing and emerging foreign and domestic markets, foreign exchange rates and fluctuations in such rates, fluctuations in tax rates, the impact of future legislation, the impact of environmental regulations, unexpected business disruptions, disruption to our business resulting from the COVID-19 virus, the results of governmental investigations and the unpredictability of existing and possible future litigation. However, it is not possible to predict or identify all such factors. Consequently, while the list of factors presented here and under Item 1A of PPG's 2020 Form 10-K is considered representative, no such list should be considered to be a complete statement of all potential risks and uncertainties. Unlisted factors may present significant additional obstacles to the realization of forward-looking statements. Consequences of material differences in the results compared with those anticipated in the forward-looking statements could include, among other things, lower sales or income, business disruption, operational problems, financial loss, legal liability to third parties, other factors set forth in Item 1A of PPG's 2020 Form 10-K and similar risks, any of which could have a material adverse effect on the Company's consolidated financial condition, results of operations or liquidity.

PPG speakers and attendees



Rebecca B. Liebert

Executive
Vice President



David S. Bem




Vice President,
Science and Technology
and CTO



Vince Morales

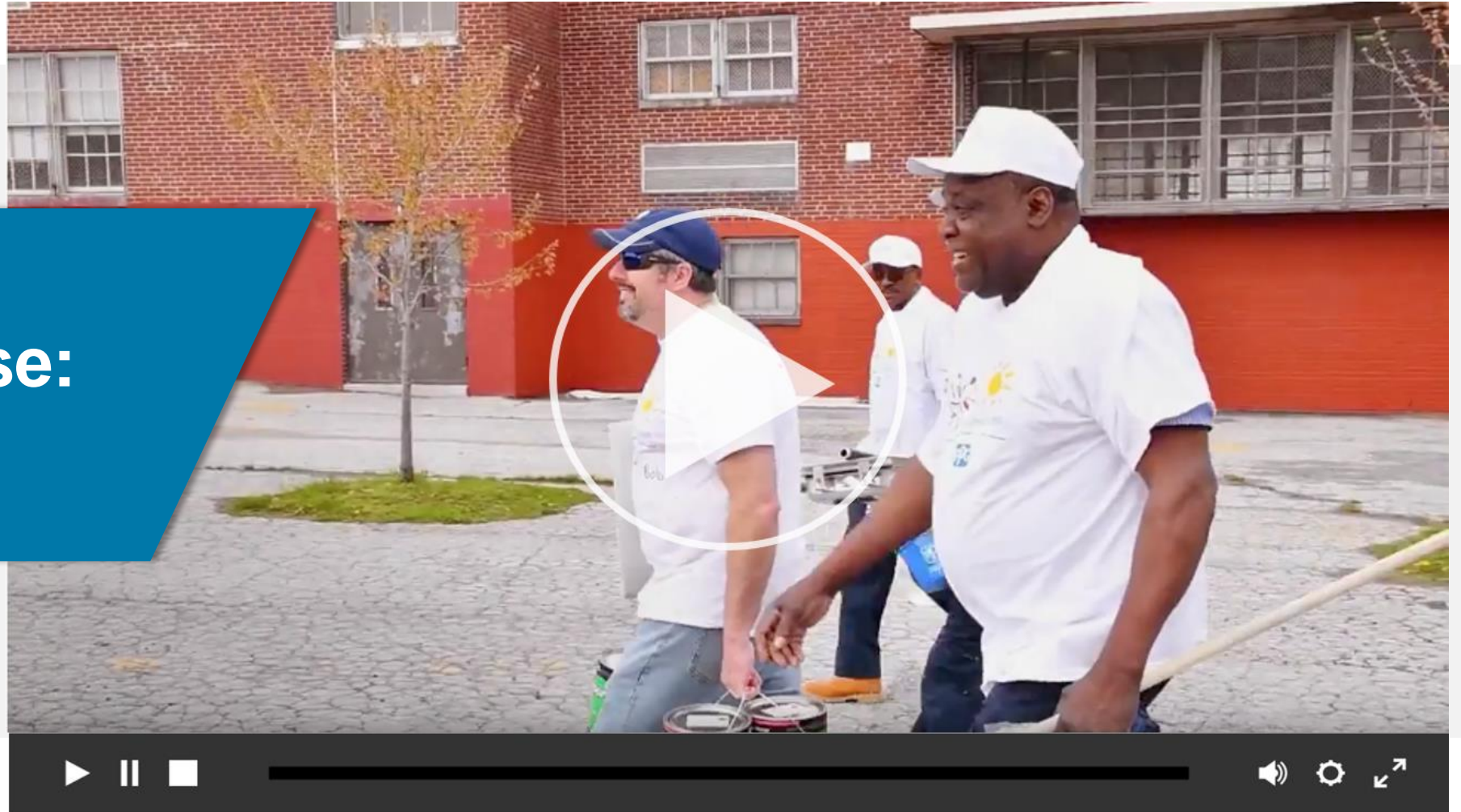
Senior Vice President
and CFO

What we intend to share with you today...

 Growth Aligned w/ Secular Themes	 Differentiated Innovation	 Modernizing Productivity
Well Positioned for Above Market Organic Growth	Leveraging <i>One PPG:</i> <i>Advanced Technology</i>	Driving Stability, Speed, & Customer Intimacy
1 Mobility coatings products	1 Broad and robust new product pipeline; advancing technology advantaged capabilities	1 Developing the operator of the future for the factory of the future
2 Global scale and product breadth drive strong customer support capabilities	2 Developing sustainable products to assist customers in reaching their goals	2 Reducing product complexity to further reduce costs and create customer value
3 Strategic acquisitions complement areas of growth focus	3 Leveraging data and services to further enhance customer intimacy	3 Utilizing advanced manufacturing to leverage use of data and assets

Building long-term shareholder value with sustainable strategy and focus

PPG Purpose:



Automotive

End-Uses



PPG Competitive Advantages & ESG Highlights

- 1) Leading positions across key product lines
- 2) Global leader in new factory start-ups
- 3) Improving customers' sustainability (less water and energy consumption); enabling conversion to electrification
- 4) Innovation leader: delivering new advantaged technology products
- 5) Leading digital color capability

Industry Trends

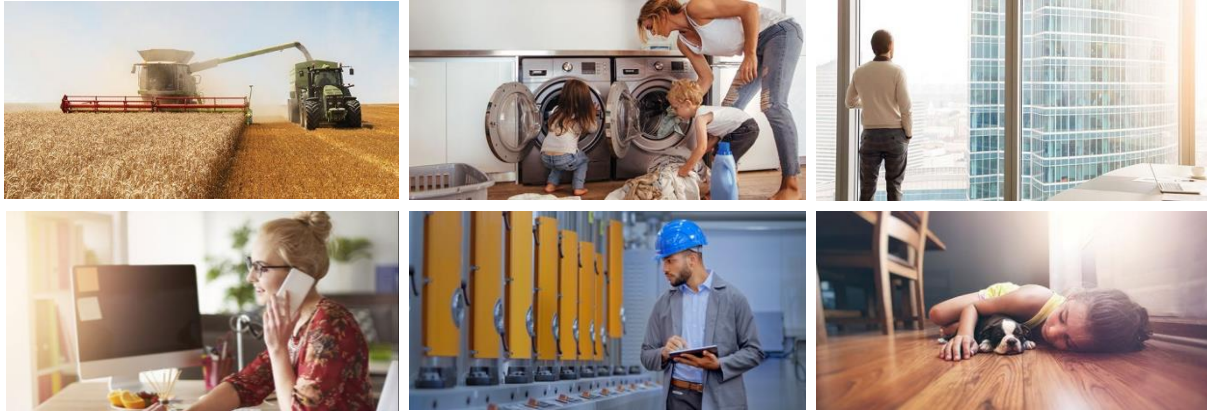
- Mobility: electrification, autonomous vehicles
- Compaction of paint layers
- Removing manual processes
- Seeking sustainability solutions at same quality

Recent PPG Acquisitions



Industrial Coatings

End-Uses



PPG Competitive Advantages & ESG Highlights

- 1) Global leader in waterborne coatings
- 2) New product offerings (e.g., Coraflon® Platinum and ErgoLuxe®)
- 3) Partner with customers for product innovation
- 4) Continued investment in powder coatings offering benefits of low waste & zero applied VOC emissions

Industry Trends

- Coatings demand typically correlated to industrial production and construction
- Increasing customer focus on environmental impact
- Customer investments in emerging economies continue

Recent PPG Acquisitions

Whitford

December 2018



Alpha Coating Technologies

a wholly-owned subsidiary of PPG

February 2020

WÖRWAG

May 2021



June 2021



Packaging Coatings

End-Uses



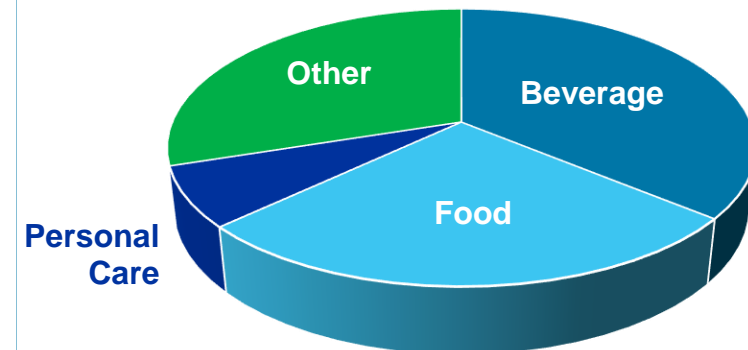
PPG Competitive Advantages & ESG Highlights

- 1) Enables life cycle circularity of aluminum and metal packaging
- 2) Continued PPG investment in capacity for sustainably advantaged solutions
- 3) Support customers, and their efficiency goals with industry-leading technical service teams
- 4) PPG SafeAssure™ program for consumer safety

Industry Trends

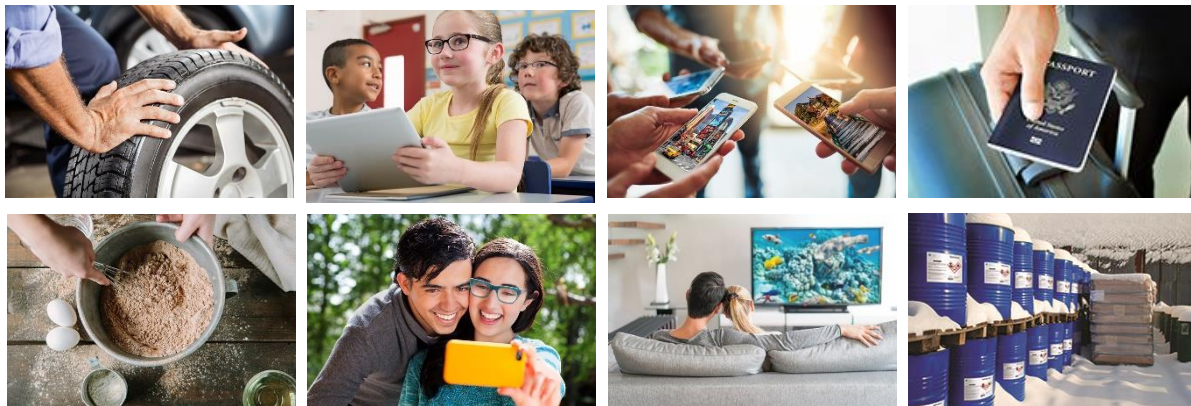
- Consumer preferences are driving growth of metal packaging (sustainability, portability, performance, and safety)
- Unparalleled customer investment in metal can-making capacity
- Continued and increased attention on materials of concern

Metal Packaging End-use markets



Specialty Coatings & Materials

End-Uses



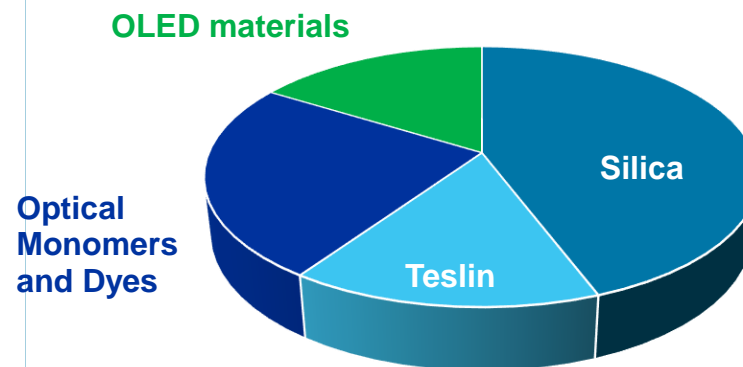
PPG Competitive Advantages & ESG Highlights

- 1) A portfolio of sustainably-driven, advanced technologies
- 2) A technology leader in high performance silicas
- 3) World-class quality and commercialization speed for energy-efficient OLED emitters
- 4) Leader in optical materials for lenses

Industry Trends

- Auto fuel efficiency regulations driving increased silica demand
- Display industry shifting from LCD to OLED
- 2 billion people, and growing, need vision correction (Optical Monomers)
- Increasing focus on durability and document security (Teslin)

PPG Business Segments



PPG is Well Positioned for Above Market Growth



Well-positioned in secular growth areas

TRENDS & DRIVERS

EV & Mobility



- EV builds, urban mobility, environmental footprint

Powder Solutions



- Sustainability advantages
- Zero waste

Consumer Products



- Work from home
- Shift from single-use plastics
- Sustainable solutions
- Growth in touch-screens

Monetizing Services



- Greater customer intimacy
- Access to data

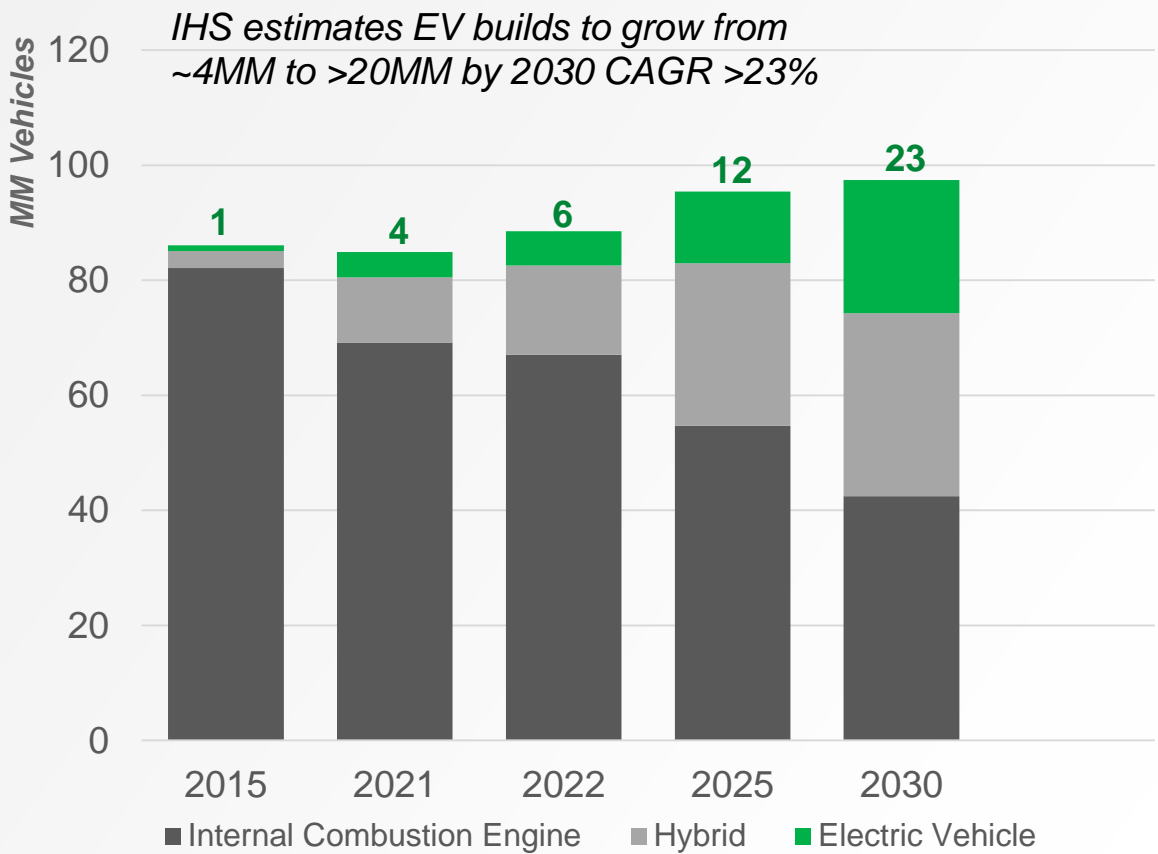
Acquisitions



- Expanding technologies, product breadth, and customer reach

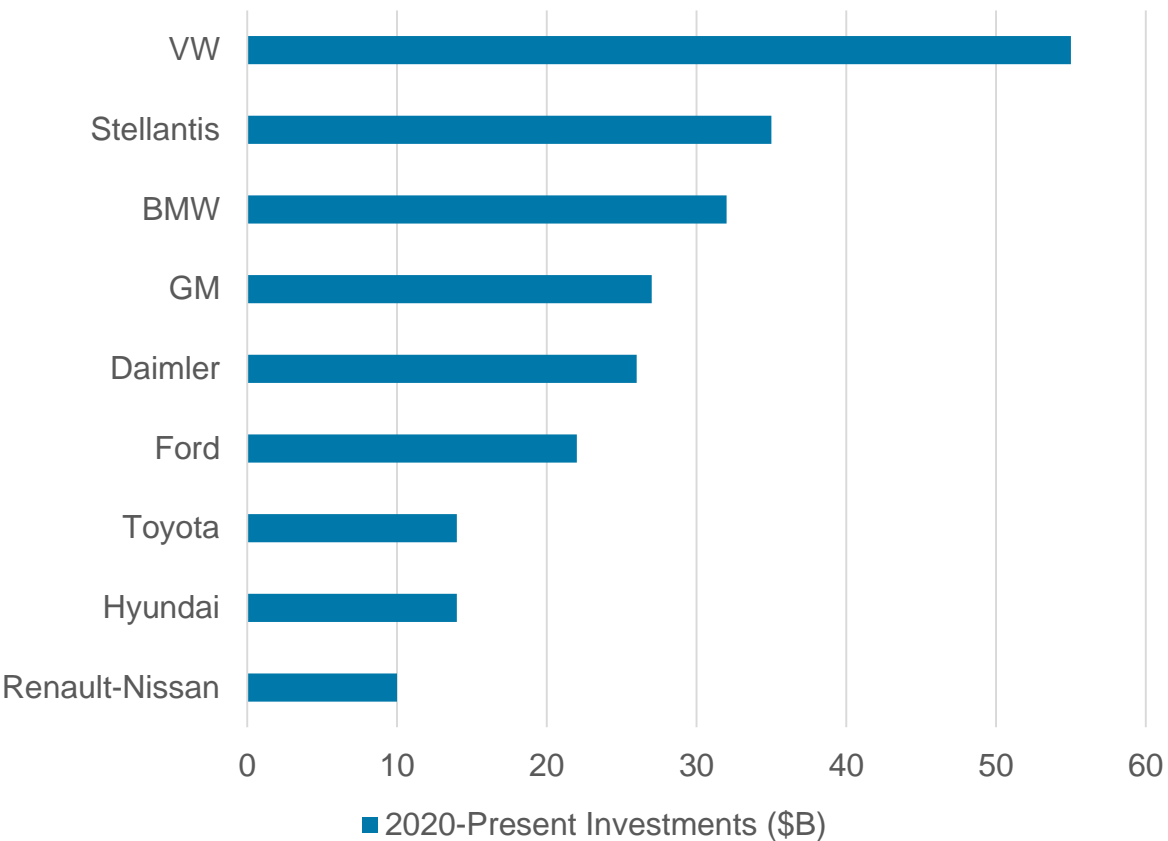
OEM investments support forecasted growth

EV growth forecast



~100 new EV models by 2025

Announced investments in EVs and FCVs



~\$300 billion in EV investment



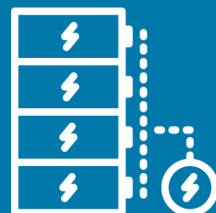
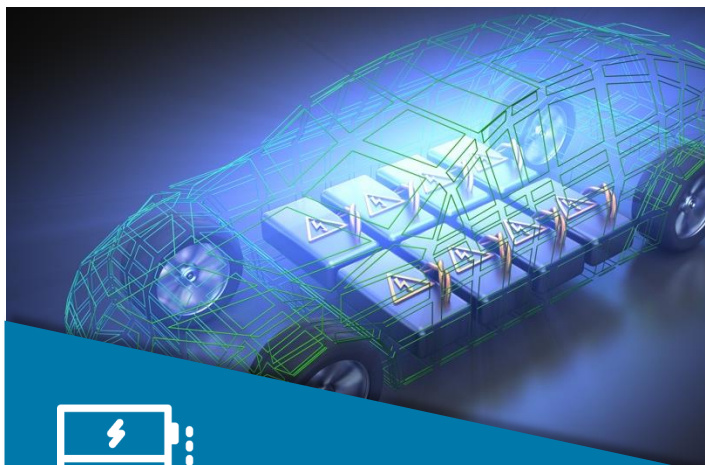
PPG is expanding content per vehicle

PRESENT



**Traditional
Coatings Content**

~\$100/Vehicle



**Electric Vehicle
Battery Pack**

~\$200/Vehicle

FUTURE



Battery Cell

~\$100/Vehicle

2025 EV Coating Total Addressable Market ~\$2.5B

PPG's battery coatings deliver needed benefits

Challenges

Fire Protection

Dielectric Isolation

Thermal Management



ENHANCED BATTERY PERFORMANCE



IMPROVED BATTERY SAFETY



AUTOMATED APPLICATIONS



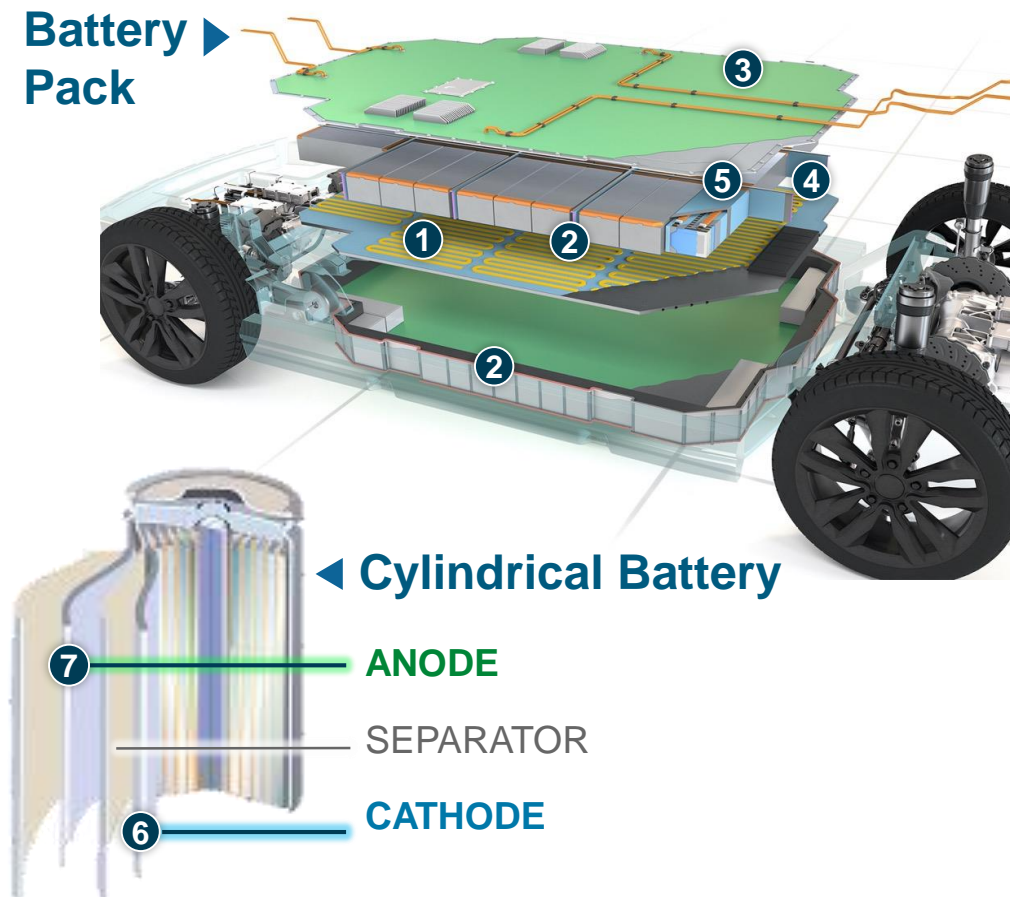
REDUCED BATTERY COST

Value / Benefits:

- **Automotive OEM**
 - Manufacturing at scale
 - Customizable solutions
 - Lower applied cost
 - Battery performance
 - Occupant safety
- **Consumer**
 - Longer range
 - Faster charging rates
 - Occupant safety

PPG Solutions help address Performance, Safety & Manufacturability

PPG's solutions for electrification



End-Use/Product (2025 Estimated Sales \$MM)	COST	PERFORMANCE	SAFETY	Customer Status
1 Thermal Conductive Fillers	✓	✓	✓	● ● ●
2 Adhesives & Sealants	✓	✓		● ● ●
3 Corrosion & Impact Protection	✓	✓	✓	● ● ●
4 Dielectric Protection	✓	✓	✓	● ● ●
5 Battery Fire Protection	✓	✓	✓	● ● ●
6 Cathode Binder Formulation	✓	✓	✓	● ●
7 Anode Binder Formulation	✓	✓		●

● Awarded ● Active Pipeline ● Next Gen Development

Enabling cost, performance and safety

PPG Mobility pipeline continues to grow

Customer	Binder	Dielectric	Corrosion	Sealing & Bonding	Thermal Materials	Fire Protection
OEM 1	Active Pipeline	Engaging	Active Pipeline	Active Pipeline	Active Pipeline	Awarded
OEM 2	Active Pipeline	Active Pipeline	Engaging	Engaging	Engaging	Awarded
OEM 3	Engaging	Engaging	Awarded	Engaging	Engaging	Awarded
OEM 4	Active Pipeline	Active Pipeline	Awarded	Awarded	Engaging	Active Pipeline
OEM 5	Engaging	Awarded	Awarded	Active Pipeline	Engaging	Active Pipeline
OEM 6	Active Pipeline	Engaging	Awarded	Active Pipeline	Active Pipeline	Active Pipeline
OEM 7	Active Pipeline	Active Pipeline	Awarded	Active Pipeline	Active Pipeline	Active Pipeline
OEM 8	Active Pipeline	Engaging	Awarded	Active Pipeline	Active Pipeline	Active Pipeline
OEM 9	Engaging	Engaging	Awarded	Awarded	Active Pipeline	Active Pipeline
OEM 10	Engaging	Engaging	Awarded	Awarded	Awarded	Engaging
Battery 1	Active Pipeline	Awarded	Engaging	Engaging	Engaging	Engaging
Battery 2	Active Pipeline	Active Pipeline	Engaging	Engaging	Active Pipeline	Engaging
Battery 3	Active Pipeline	Active Pipeline	Engaging	Engaging	Engaging	Active Pipeline
Battery 4	Active Pipeline	Awarded	Engaging	Engaging	Engaging	Engaging

*Pipeline launches through 2025

**OEM is vehicle manufacturer and Battery indicates battery manufacturer

— Awarded
 — Active Pipeline
 — Engaging

Year in Review Progress

200% increase in pipeline

35 qualifications




6 new products have been commercialized

>15 program wins
aligned with OEM EV leaders



Application solutions for battery fire protection (BFP)

PPG technology enables high efficiency and low labor costs

<div><div>↑</div><div>HIGH</div><div>BUILD VOLUME</div><div>LOW</div></div>	APPLICATION:	EFFICIENCY:	LABOR:
	 <div>Robotic Applied Coating</div>	High	Low
	 <div>Hand Applied Coating</div>	Med	Med
	 <div>Blankets, Mica Sheets</div> <div><small>photo credit: glt products</small></div>	Low	High

PPG's BFP provides scalability



BFP Application:



Auto Parts: Total system solution provides organic growth

Complete layering system for legacy products

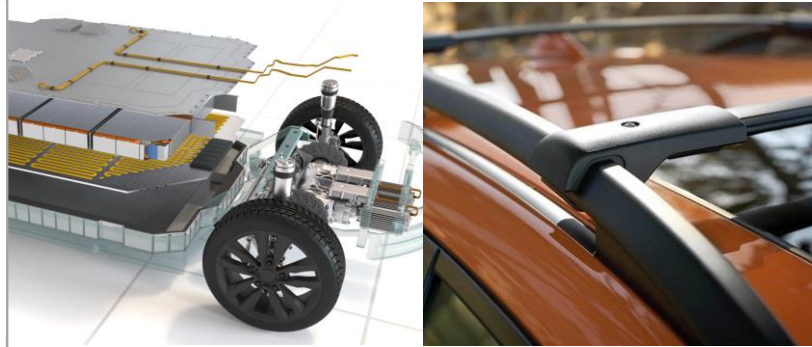


- Powder & liquid clearcoats
- Liquid basecoats
- Powder primers
- Pretreatment

Value to Customer

System performance

Selling existing and EV/mobility portfolios to Tiers supporting EV



- Battery back structure coatings
- Plastic parts coatings
- Chassis and structure coatings

Technically proven solutions
PPG expertise and market access
One stop shop

Capturing higher content from modularization



- Latch, hinges and fasteners coatings
- Outer panel and spoiler coatings
- Polymer to polymer adhesives
- Sensor coatings

Breadth of portfolio: low temperature cure, adhesives and sealants, E-coat, liquid functional coatings, interior PPG expertise

Powder technology organic secular growth opportunity

\$10B segment and growing faster than the market driven by sustainability

Premium product innovation



Superior customer service



Focus on strategic end uses, regions



Leverage global scale and broaden infrastructure



POSITIONING AND OFFERING

- Three launches in '21 to target architectural aluminum, shared mobility, battery electric vehicles applications
- Heat sensitive, metallic bonding
- Color match, online ordering
- Liquid to powder conversion
- Technical expertise
- General industrial, aluminum extrusion, automotive/mobility
- Wood and wood alternative substrates
- Emerging regions, e.g. China
- Platform and manufacturing harmonization
- Lower relative manufacturing costs
- Strategic M&A

Consumer products organic secular growth opportunity

*Deliver against consumer needs in growing categories: **Electronics, kitchenware, canned beverage***

POSITIONING AND OFFERING

Product innovation



- Electronic materials performance: anti-fingerprint, anti-glare, OLEDs
- Waterborne liquid alternatives to solvent-based

Superior customer service



- Plant start-up support
- Technical expertise and training
- Quality and robustness

Deliver against consumer trends & needs



- Material of concern-free product roadmap
- Lead in sustainable product platforms
- Differentiated exterior coatings (colors, textures, finish)
- Brand owner engagement

Leverage scale and broaden infrastructure



- Simplify waterborne liquid platforms
- Expanded footprint and capacity expansion (emerging regions)
- Raw material localization and lab centralization

PPG packaged beverage can technology sustainability advantages



**Trusted solution
inside the can**



POSITIONING AND OFFERING

- The leading global supplier of non-BPA/non-bisphenol inside spray coatings
- Water-borne technology; wide and versatile pack range
- Achieved Cradle to Cradle® Gold Certification™
- Globally compliant solution with localized production for optimized logistics



**Brand differentiator
outside the can**



- Performance and specialty over varnishes protect and beautify the infinitely recyclable beverage can
- Specialty coatings that create sensory brand experiences on increasingly crowded cooler shelves
- Water-borne technologies; optimized for high-speed can lines
- Low VOC profile designed for improved cure efficiency

Unlocking value for the customer through service capabilities

A multiple segment opportunity

Coatings		Optima Solutions	
Support	Service	Solutions	
UNDERSTANDING OF VALUE			
<ul style="list-style-type: none">• Quality• Operations support<ul style="list-style-type: none">▪ Appearance▪ Quality▪ Demand Planning▪ Inventory Management	<ul style="list-style-type: none">• Paint Shop Management• Chemical Management• Paint Line Cleaning• Laboratory Services	<ul style="list-style-type: none">• Advanced Problem Solving• Data and AI• Sustainability• Sensor & Monitoring• Application Services	









Leveraging digital tools to build insights and deliver value



Industrial Segment acquisitions provide unique strategic value

Recent Acquisitions

 <p>HEMMELRATH EXCELLENCE IN PAINT</p>	 <p>WÜRWAG</p>	 <p>CETELON</p>
Revenue ~\$160MM	~\$260MM	~\$40MM
End Markets Automotive coatings	Auto Parts, Powder, Film	Wheel
 <p>Alpha Coating Technologies a wholly-owned subsidiary of PPG</p>	 <p>Whitford</p>	 <p>TIKKURILA</p>
Revenue ~\$10MM	~\$220MM	~\$100MM Industrial Segment Only
End Markets Powder	Consumer products	Wood

- ✓ **Strategic and complementary to growth areas:** Powder, Consumer, Electronics, Auto Parts
- ✓ **Enhances PPG's ESG capabilities:** reducing customers' carbon footprint, VOCs, and waste
- ✓ **Incremental technology and product breadth:** expanding offering for customers
- ✓ **Expansion in higher growth emerging regions**

Differentiated Innovation



Continuing PPG's legacy of innovation supports long-term growth

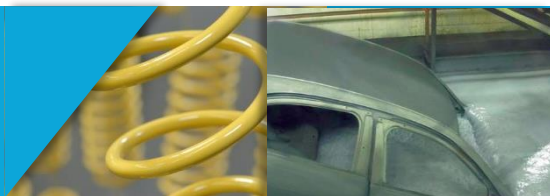
POSITIONING AND OFFERING

EV & Mobility



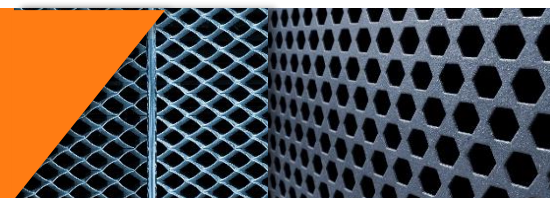
- Safety
- Performance and functionality
- Application at volume scale

E-Coat/Corrosion Resistance



- Extended protection – UV durability, edge protection
- Expanded operating windows – low temperature cure
- New content - pipe coatings

Powder Coatings



- Corrosion protection - edge-to-edge
- Dielectric functionality
- Better environmental solution

Digital Color



- Remote working
- Decreases time to market
- Increased color options

ESG



- Sustainability embedded in innovation processes
- Products enable customer sustainability

Increasing and adapting corrosion protection requirements

Corrosion is a significant challenge for coatings customers

Corrosion-resistant primer protects against wear and friction



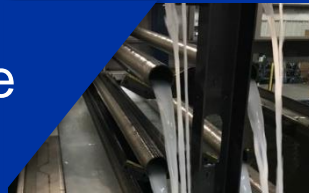
Zinc-rich coatings protect steel against corrosion



Corrosion protection against high heat and in underwater environments



Corrosion inhibiting sealants & coatings create effective barriers of protection



Thin film pretreatment creates strong adhesion between multiple substrates



MARKET CHALLENGES

- Coat mixed material substrates
- Increase infrastructure longevity
- Regulation eliminating traditional corrosion inhibitors
- Coating in extreme environments
- Sustainability – water and sludge savings
- Product life cycle

New PPG electrocoat technology enables Charlotte Pipe

Hitting hard to reach places

Partnered with customer to tailor a new electrocoat technology and process

Created a high performance drain pipe that addresses a significant market gap



Charlotte Pipe:



PPG powder coating for the extrusion industry

Corafon® Platinum Powder is a new, innovative addition to PPG's world-class powder coatings for architectural aluminum extrusions.



One-coat
With High Transfer Efficiency



Improved Corrosion
Performance



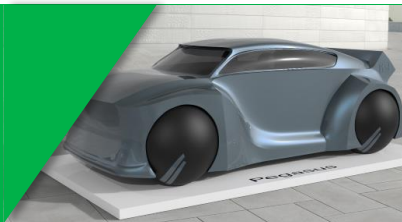
Available in a **wide range** of colors,
glosses, anodized finishes and bonded
metallics



PPG is deploying digital tools to increase speed and agility

POSITIONING AND OFFERING

Color Styling



- Connecting with our customers to differentiate their products
- Style color in real-time

Color Matching



- Digital color fingerprint
- Accelerate matching capabilities
- Reduce time to specification

Formula Development



- Prediction tools for weathering properties
- Generates global standards and enables quality manufacturing
- Modular factory creates easy pivot to end products

Production



- Adjust color in-line for quality batch production
- Use AI/ML sensors for accuracy
- Produce at scale on time and at demand
- Manufacture to order

Digital tools and new technology developments are synergistic and interdependent

Changing the paradigm with digital color

Color is key decision factor for consumers

88% of respondents say color is a key deciding factor when buying a car, 99% in China¹

64% said they would change manufacturers if favorite color was not offered¹

Sources: 1.) Automotive Color Preferences 2021 Consumer Survey

COLOR COMMUNICATION

Color virtualization and rendering, AI applied to paint formulation

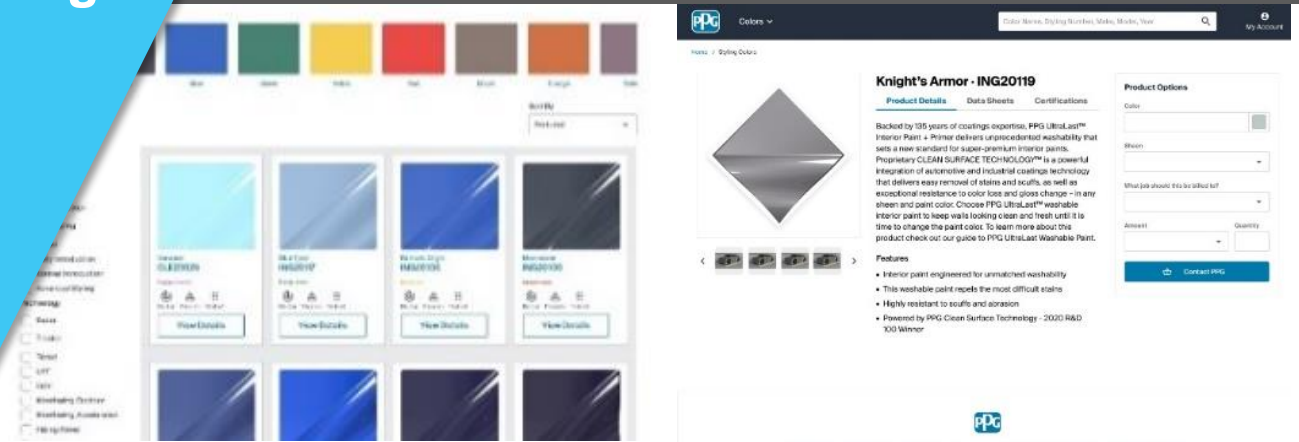


PPG developing solutions to shift color paradigm

- Shift to digital color creates internal efficiency and augments the interaction with customers
- 60% reduction in cycle time for new colors
- More than 15 virtual color shows completed since mid-2020 kick-off

FUNCTIONAL STYLING

Digital Color Matching and Color Library



Digital Color:

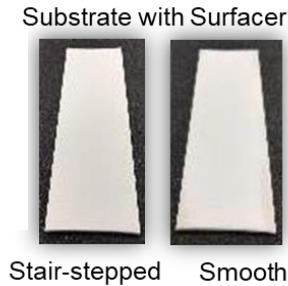


PPG continues to plant seeds for the future

We have developed multiple technologies for additive manufacturing(3D printing)

POSITIONING AND OFFERING

Coatings for 3D printed parts



- PPG's primer promotes coating adhesion and smooths surfaces for thermoplastic parts

Electrocoat for 3D printed metal parts



- PPG's core electrocoat technology delivers improved protection and increased coverage of complex 3D printed metal parts

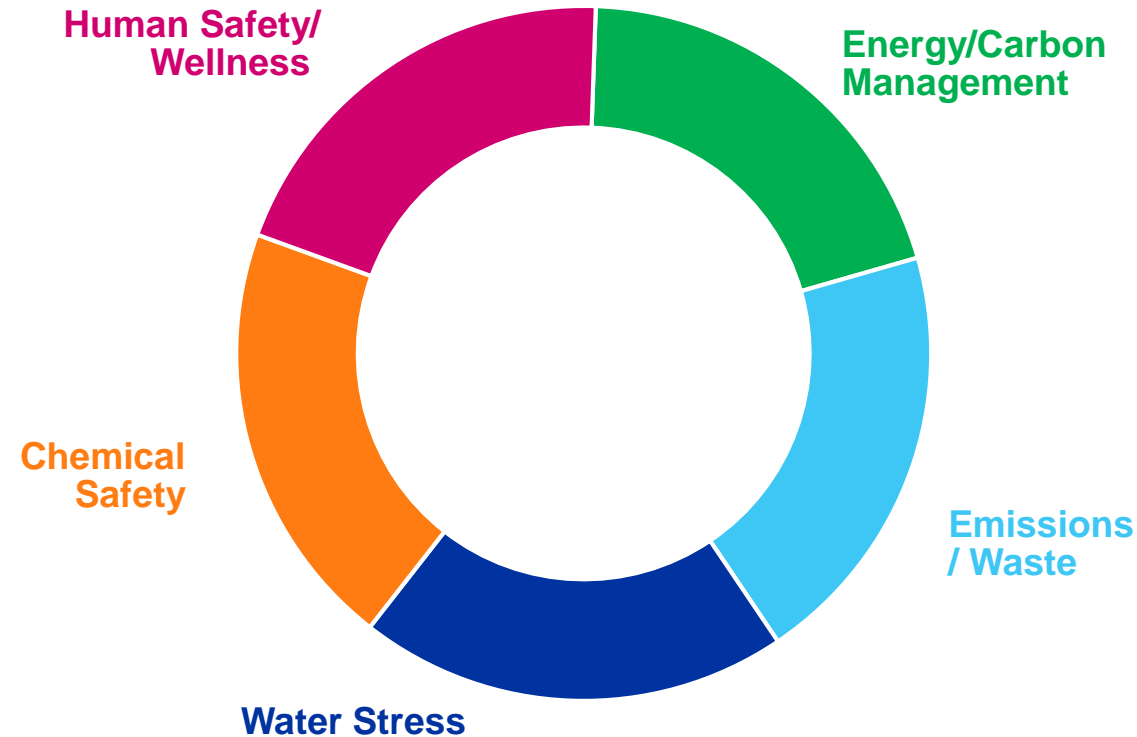
Thermoset polymers for 3D printing



- PPG thermoset materials for 3D printing delivers:
 - A smoother surface finish
 - A reduction in post processing time ~50%
 - Reduced energy usage and is more sustainable
 - Supply chain consolidation

PPG's product sustainable attributes provide needed benefits

Customer Challenges



PPG Benefits:

Energy/Carbon Management

- Low temperature cure reduces energy consumption
- Battery products enable EV performance, reduces energy use
- Product life extension reduces energy, environmental and human impact
- Waterborne and high solids lower energy consumption

Emissions/Waste

- Improved transfer efficiency
- Recycle and reuse of overspray reduces waste

Water Stress

- PPG services help to reduce customer water consumption

Chemical Safety

- Focused removal of materials of concern

Human Safety/Wellness

- Antimicrobial coatings, sanitizers and disinfectants offer human protection

35% (\$5B) of PPG products sold in 2020 delivered sustainable benefits

PPG is Increasing Productivity in New Ways



PPG's operations roadmap to support growth

Continuous Improvement



- Lean Six-Sigma
- Standard work
- Built-in quality

Portfolio Optimization



- Platform consolidation
- Modular formulations
- Velocity optimization

Advanced Technologies



- In-line analytics
- Digital quality control
- Advanced manufacturing technologies

Advanced manufacturing technologies - modular factory

- Acquired technology; further deployed across PPG
- Improved production efficiency, quality and sustainability
- Fully enclosed and automated, and powered by AI quality algorithms
- Current: Germany – 4 units, China – 2 units, Mexico – 1 unit

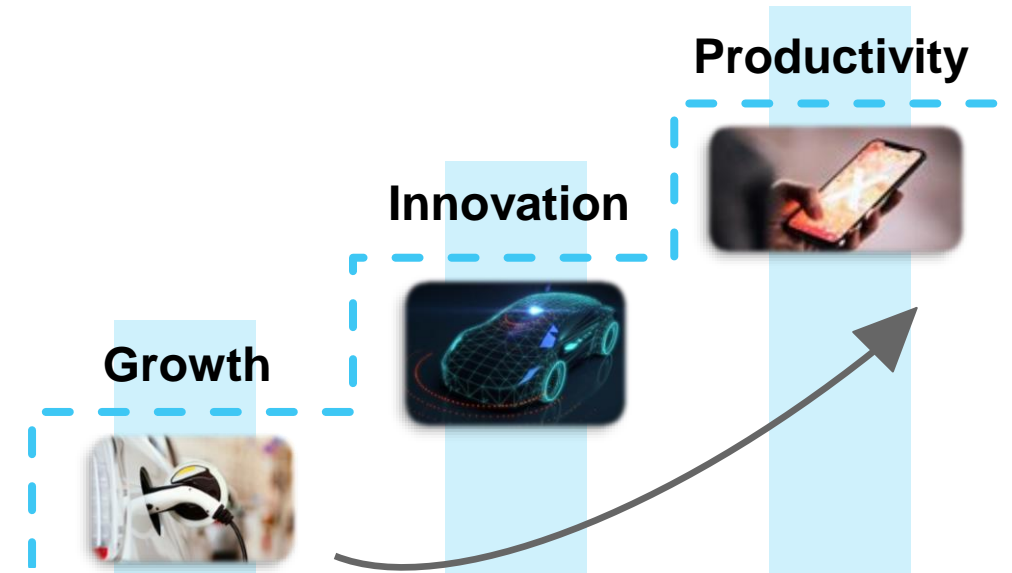


PPG positioned for multi-year growth

Key Takeaways

- PPG's product breadth creates significant value
- Innovation leader in advanced product technologies enabling sustainability and consistent growth
- EV-related growth provides content expansion opportunity
- Acquisitions expand portfolio of technologies with significant synergy opportunities
- Advanced manufacturing positioning for the future

Industrial Segment Margin



Driving margin to next peak level



Notes:



We protect and beautify the world™