



CORNING

This is the Glass Age

How glass is shaping the future of the display industry

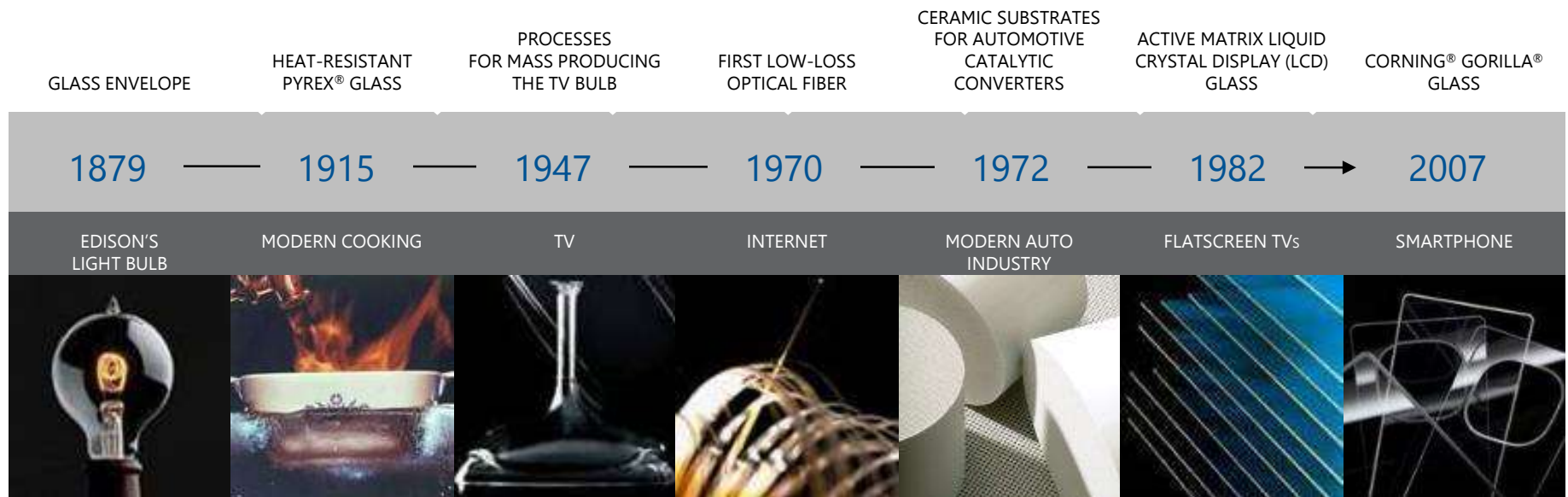
John Zhang

Corporate Vice President and General Manager

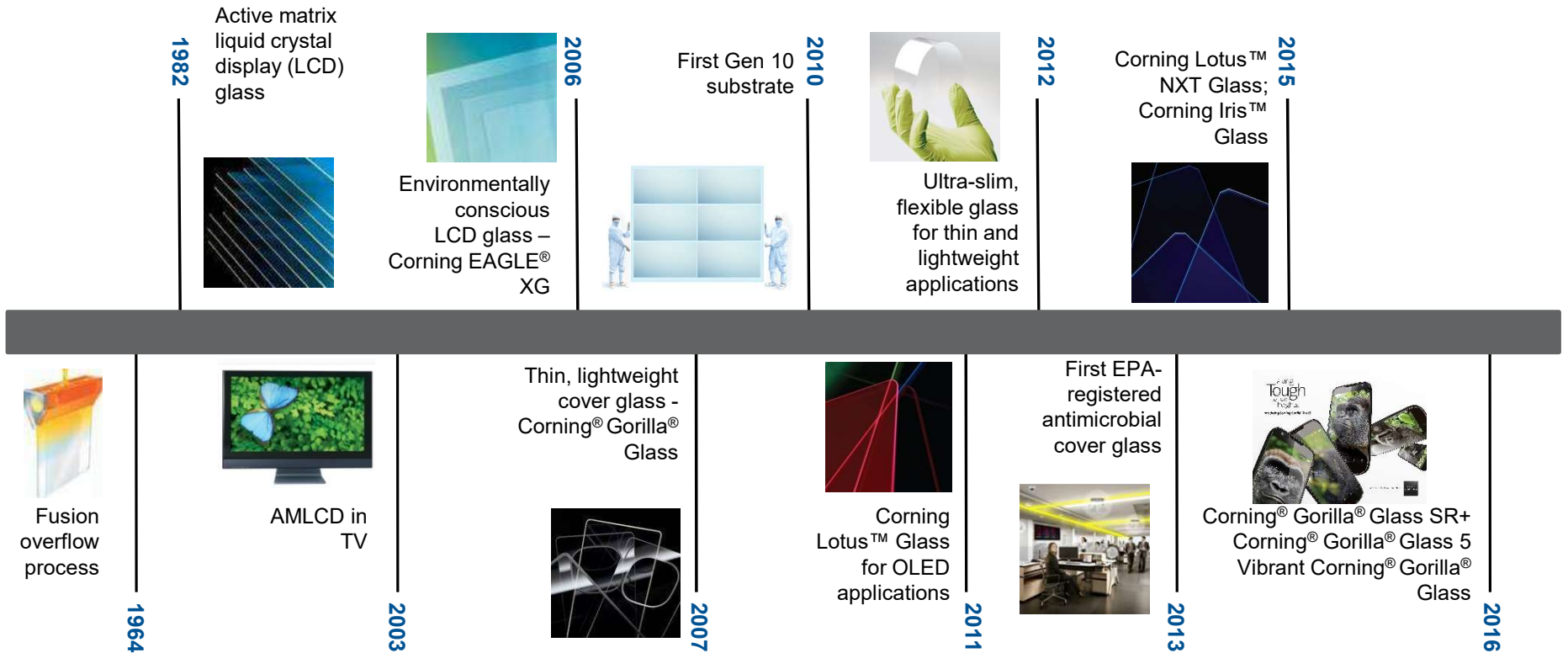
Corning Display Technologies

May 22, 2017

Corning has a 165+ year history of delivering life-changing innovations...

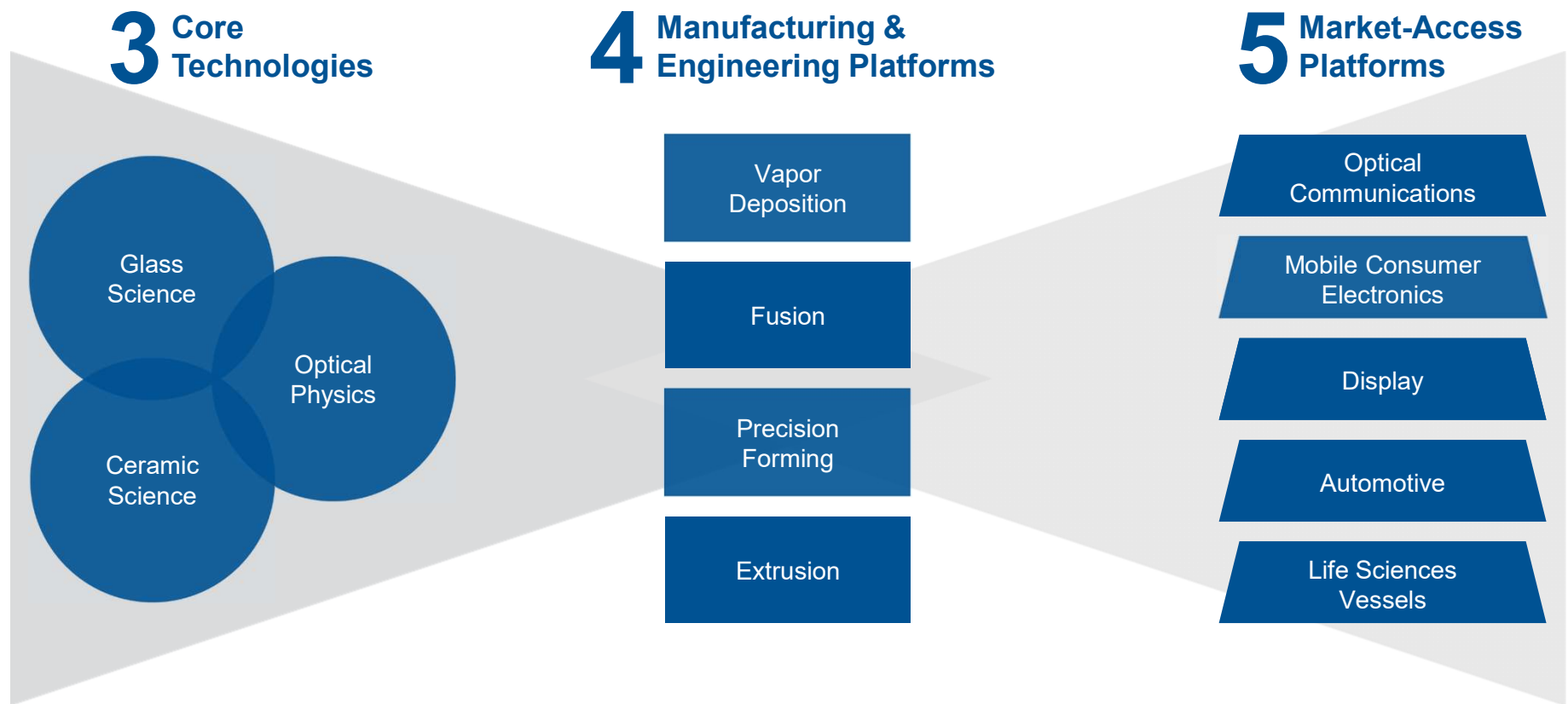


...including our role in advancement of the flat panel display industry

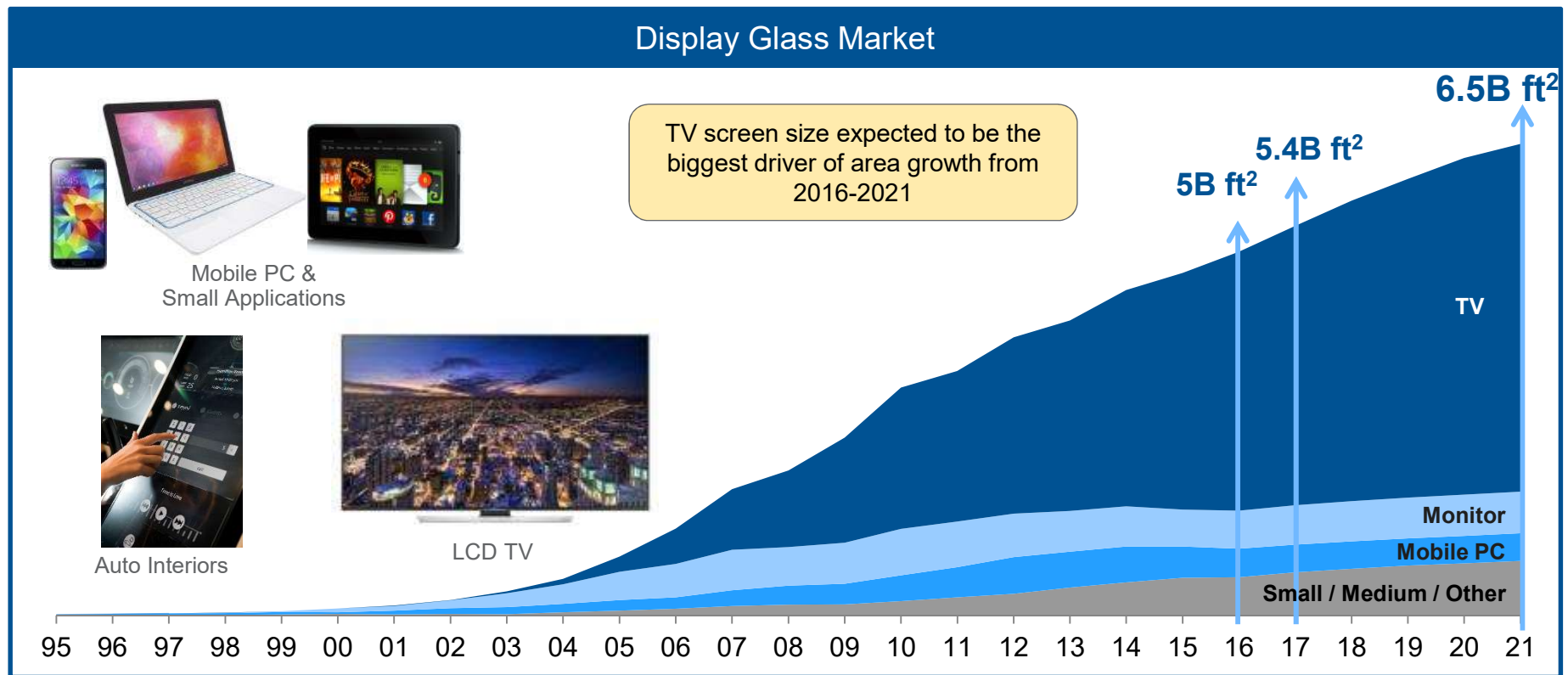


Our strategic framework reduces the cost of innovation and increases our likelihood of success

345



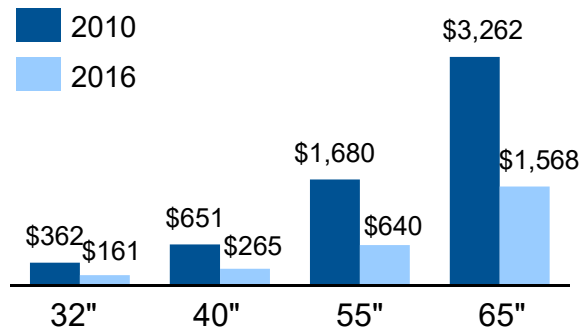
Display glass market is expected to continue to grow, driven by demand for large-size TV and new applications



Large-size TVs are more appealing and accessible to consumers than ever before, accelerating adoption

Affordable Price

LCD TV avg. retail price¹(\$)



Attractive retail price

- Retail price decline by >10% CAGR (2010-2016)

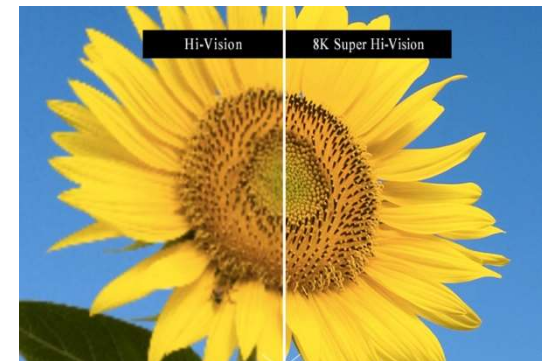
Form Factor



Slim design and lighter weight

- Easy to install for either stand type or wall-mount type
- Less space consumption
- Narrower bezels allow for bigger VA

Higher Resolution

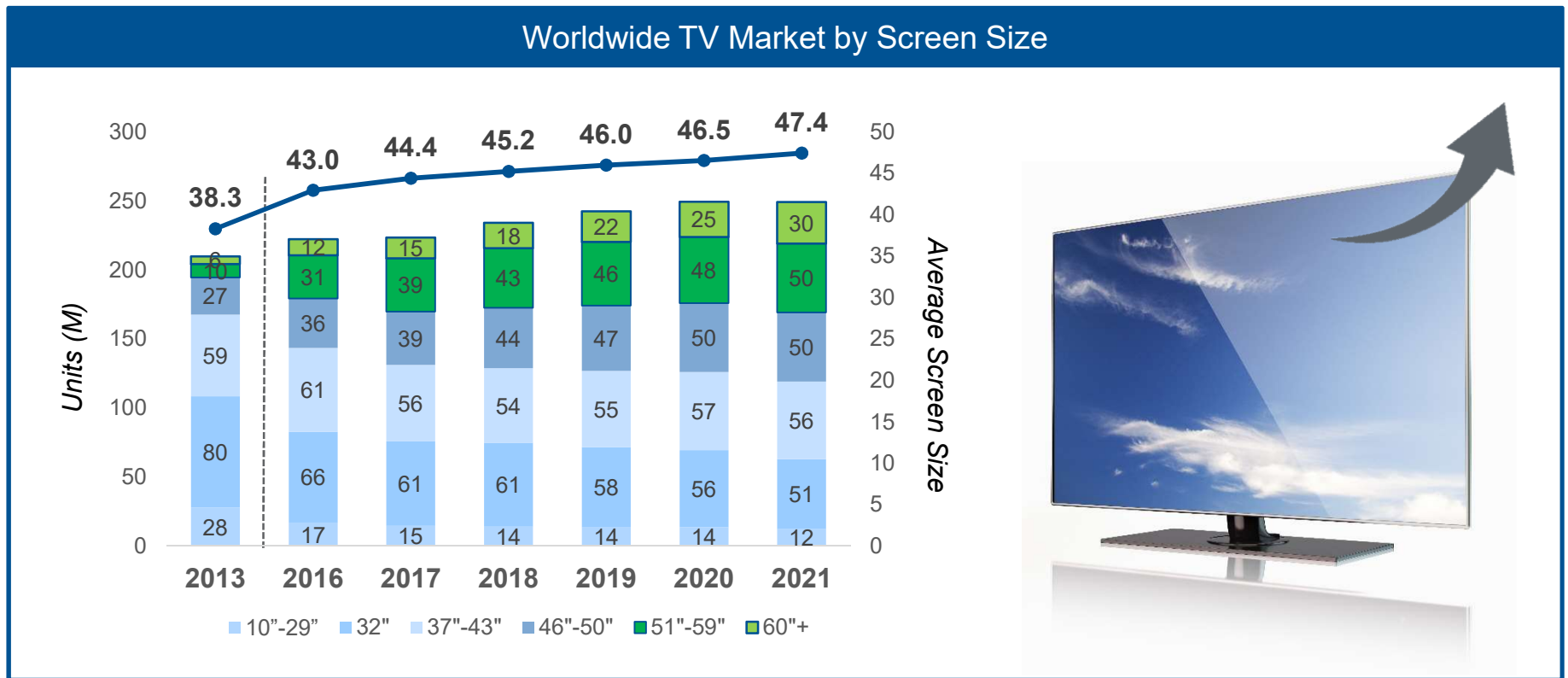


More pixels and better image quality

- HDR² – Brighter whites & blacks
- Wide color gamut
- More frames per sec. – sharper images with less blurring

Note: 1. Average North America retail TV price,
2. High Dynamic Range

Worldwide average TV screen size continues to trend up as demand for large-size TV grows

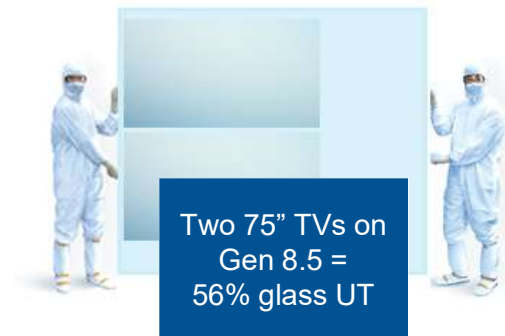
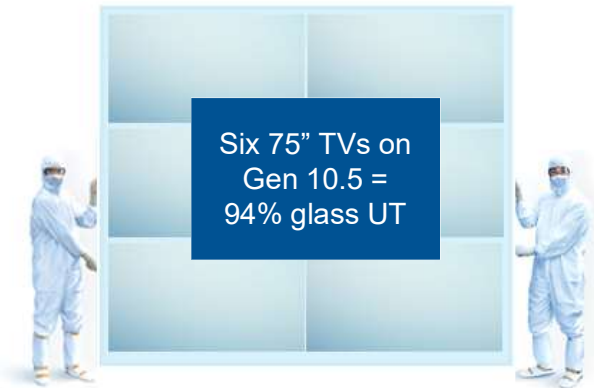


Industry-wide surge towards G10+ investments are aimed at capturing large-size TV market

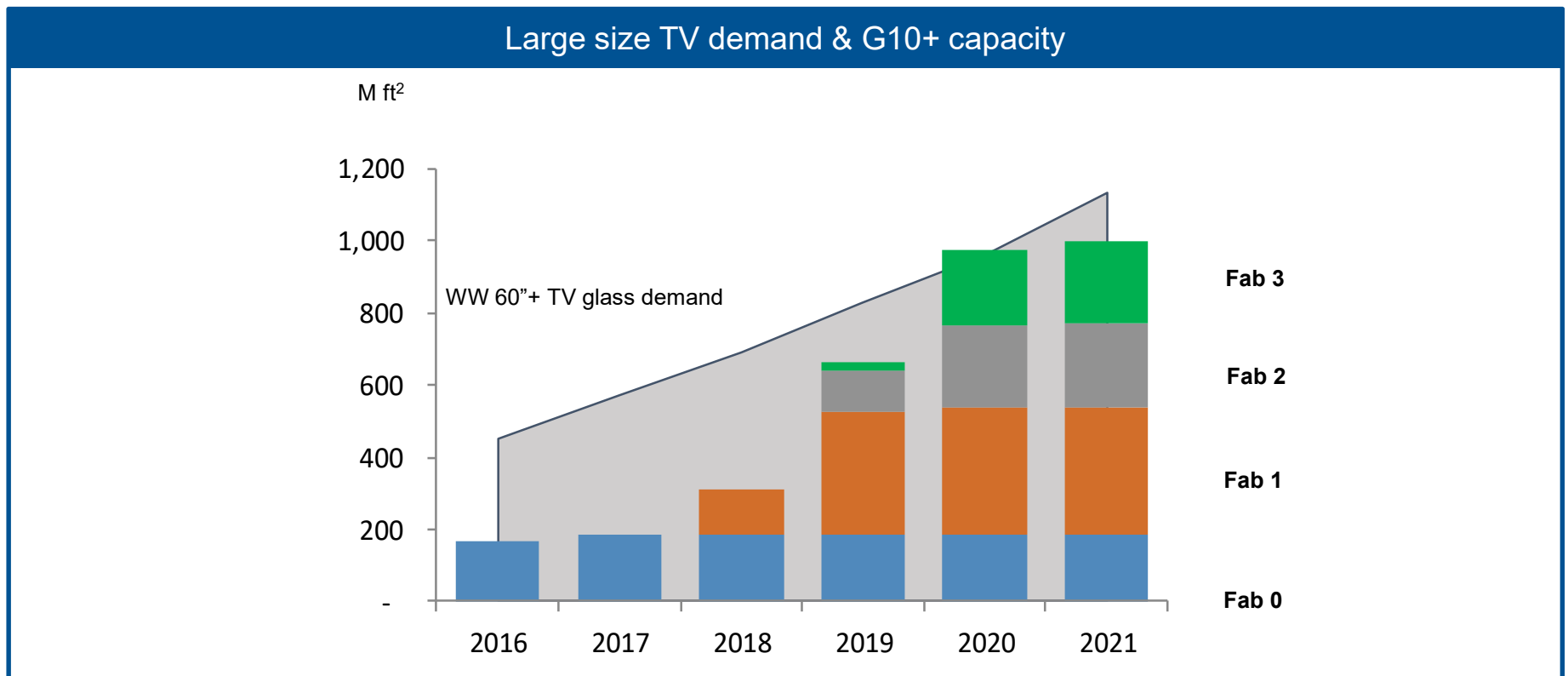


G10.5 platform enables excellent efficiency for large screen sizes

- Our Gen 10.5 melting platform provides the *most efficient glass* for 65" & 75" TVs
- Corning has superior G10+ capabilities...
 - First established Gen 10 fab and co-located with our customer
 - 8 years of proven experience in G10 glass operations, ~1B ft² G10 glass shipped
 - Proven manufacturing platform, technology, and performance
 - Capability of wide range of thicknesses
 - Fusion drawn technology is advantaged in G10+



G10+ capacity additions will need to be supported by growth of 60+ inch TV demand



Leveraging existing fusion assets is a core element of our strategy to maintain our leadership position

STRATEGY

Maintain stable share

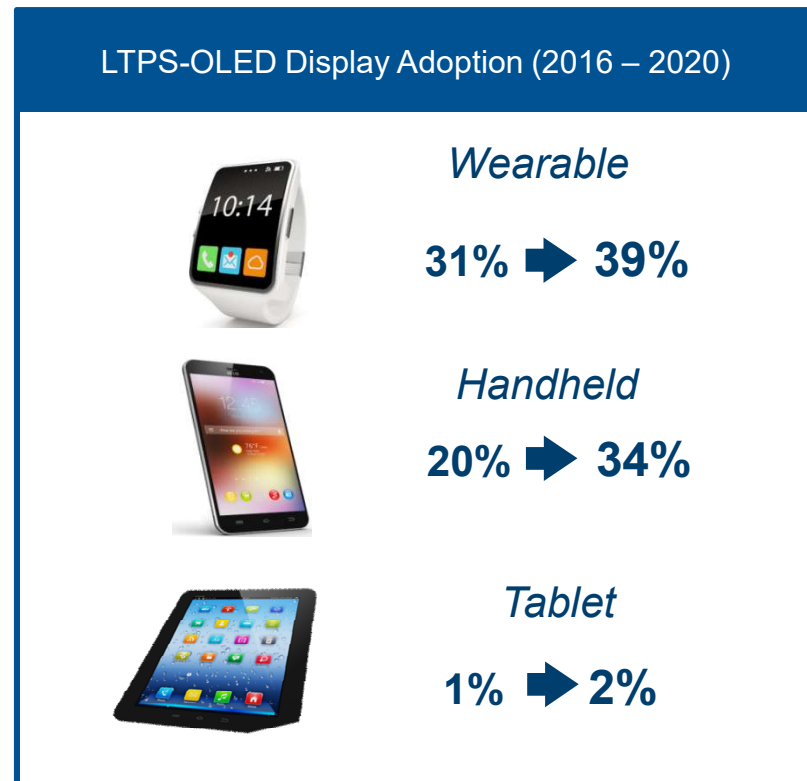
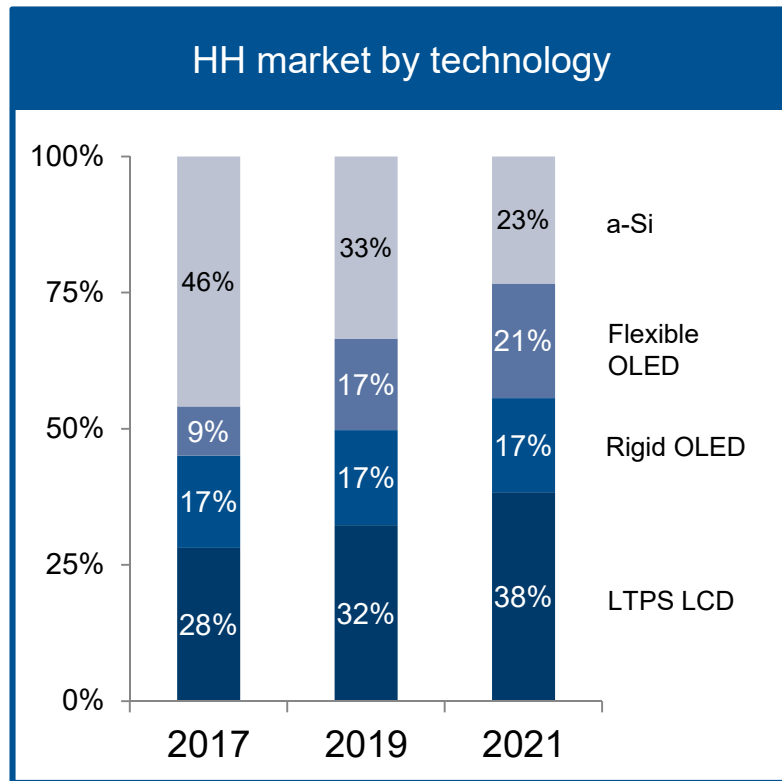
Maintain supply and demand balance

Leverage existing assets to pursue new opportunities

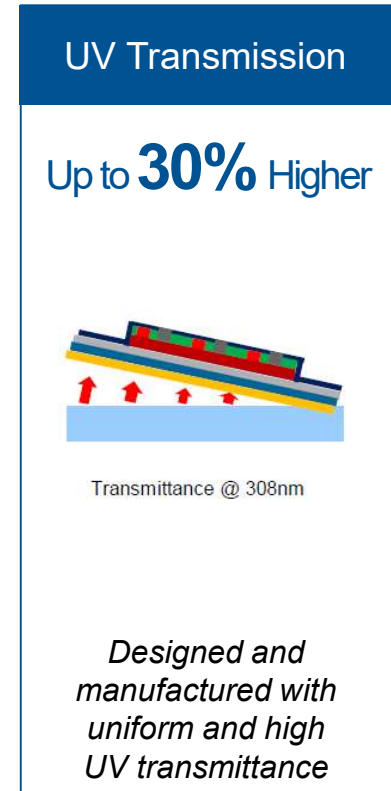
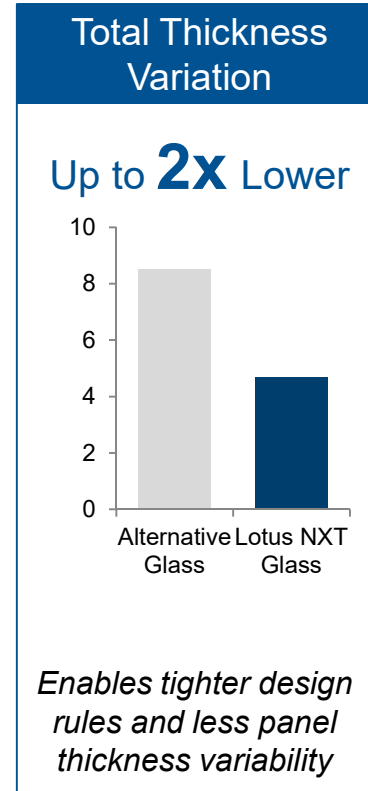
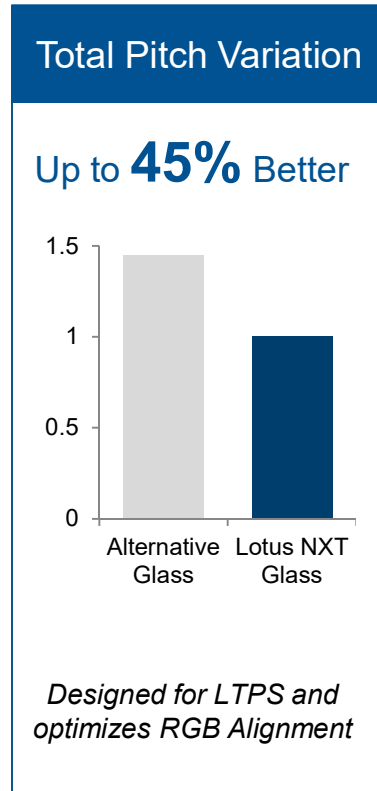
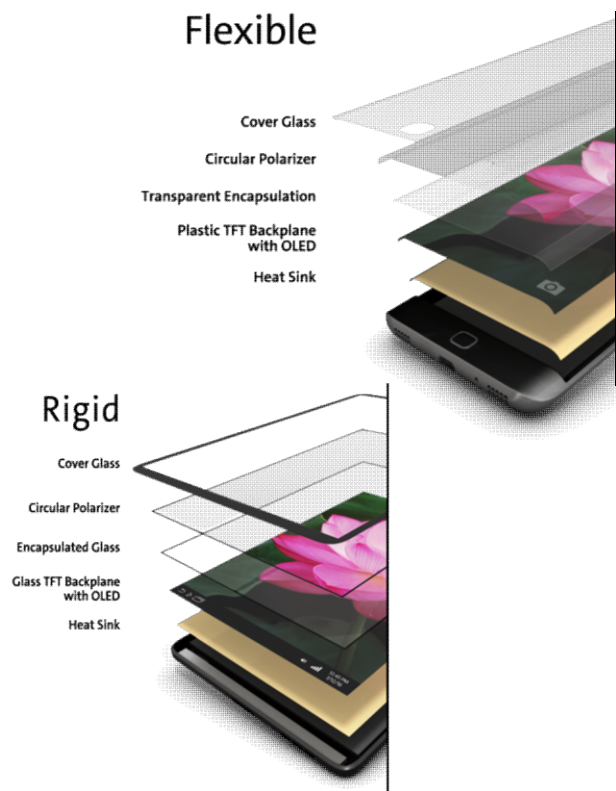
Example:

- High performance display
- Glass light guide plate
- Cover glass

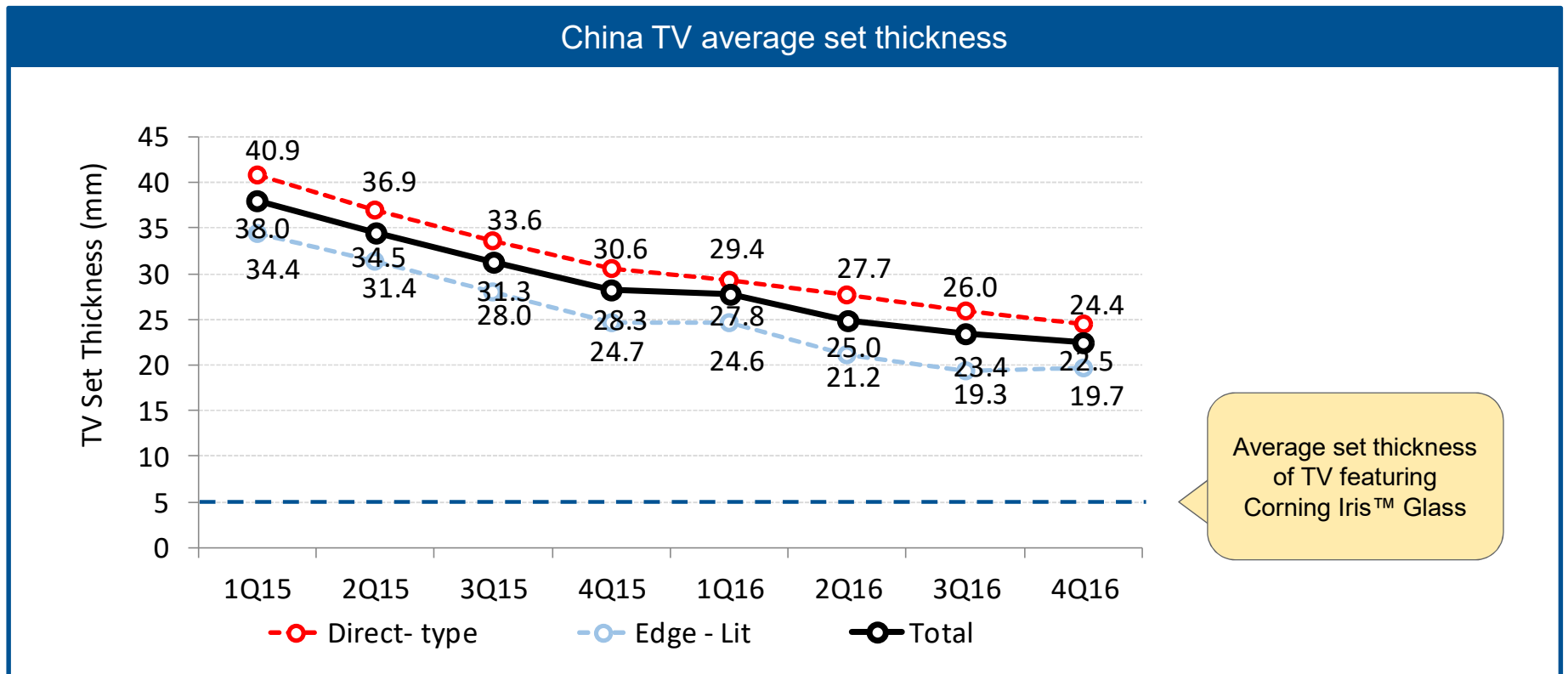
Market for small and medium-sized high-performance displays will continue to grow in the next 5 years; LTPS-OLED emerging in portable devices



Key attributes of Corning Lotus™ NXT Glass address the challenges of OLED's manufacturing process

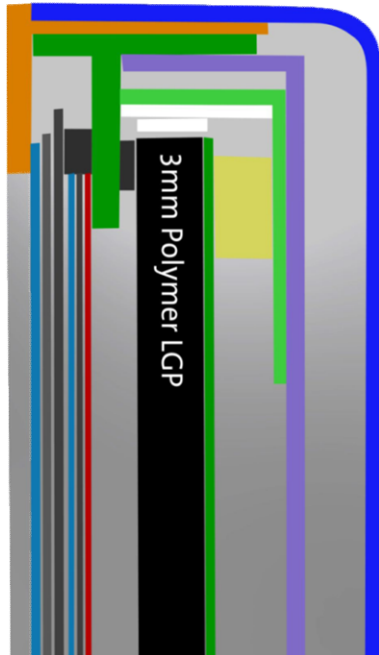


TVs continue to trend slim; average TV set thickness in China has reduced by nearly 70% in two years

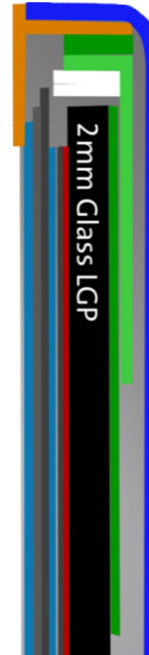


Corning Iris™ Glass – a light guide plate for edge-lit LCD TVs – enables thin set designs, as thin as an average smartphone...

Conventional LCD TV
with polymer LGP
(Typically greater than 15 mm)



TV with Corning Iris™ Glass
(Less than 5 mm)



TV with Corning Iris™ Glass



Corning Iris™ Glass is gaining traction in TV and monitor applications

Corning is collaborating with ODMs and brands to optimize designs which leverage the superior optical, mechanical and thermal performance of glass

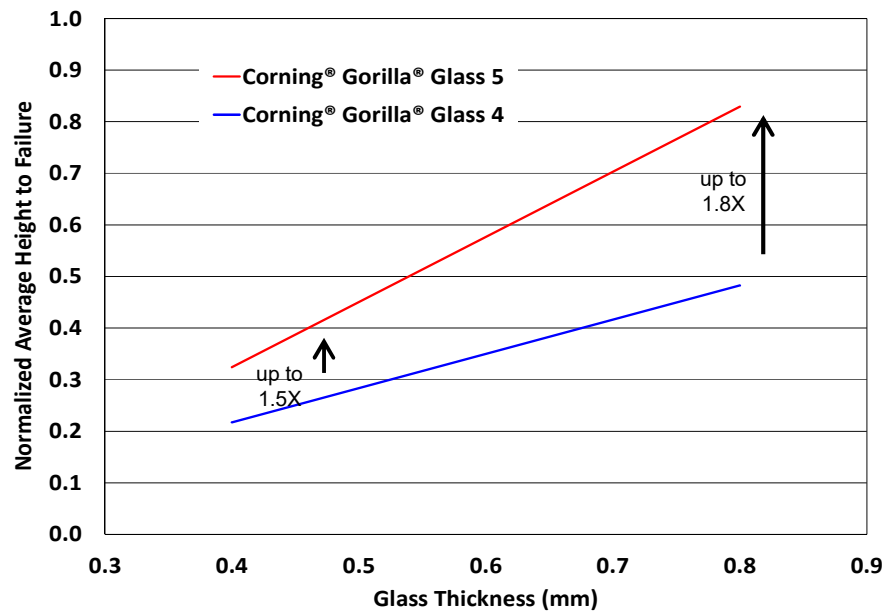


Material	Enables designs less than 10 mm	Enables designs less than 5 mm	Dimensionally Stable	Rigidity enables structural component cost reduction	Enables Brightest Displays	Low Color Shift	Outstanding Coupling Efficiency
Iris™ Glass	●	●	●	●	●	●	●
PMMA*					●	●	
MS*	●						
Alternative Flat Glass	●	●	●	●			

*PMMA or MS refers to specialty plastic material

Corning is continuing to drive growth in cover glass demand through innovation

Corning® Gorilla® Glass 5 improves face drop performance up to 1.5-1.8X vs. Corning® Gorilla® Glass 4



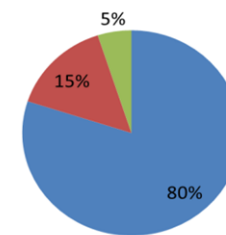
Ref: Corning test puck on 180 grit



Real World Damage

FMA results of >1000 of Field Returns

■ Damage Introduction ■ Flexural ■ Other



80% of field returns are linked to sharp contact damage

Corning® Gorilla® Glass has helped protect over 5 billion devices; new innovations tailored to customized, cutting-edge device requirements



Corning® Gorilla®
Glass 5

Vibrant Corning®
Gorilla® Glass

Corning® Gorilla®
Glass SR+

Antiglare finish

Glass Ceramics

Optimized for shoulder-height drops and innovative product designs

Photorealistic decoration that allows customization

Toughness of Gorilla Glass, with scratch resistance approaching alternative luxury cover materials

Anti-fingerprint, Anti-glare finish

Wireless charging, True opaque colors, RF Transparency

Corning's extraordinary materials and process expertise creates new products and businesses for tomorrow's Display industry...



A blue sky with white clouds is reflected on a glass surface. The reflection is clear and detailed, showing the texture of the clouds and the gradient of the sky. The word "CORNING" is overlaid in the center in a white, serif font. The background is a bright blue sky with scattered white clouds. The reflection on the glass surface is a mirror image of the sky above, creating a symmetrical effect. The word "CORNING" is centered horizontally and vertically, with a bounding box of approximately [235, 445, 760, 550].

CORNING