Always Tough.
Always Innovating.
Always Tough.
Always Innovating.

What’s Next?

John Bayne
Vice President and General Manager
Forward looking and cautionary statements

Certain statements in this presentation constitute “forward looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. Such forward looking statements are based on current expectations and involve certain risks and uncertainties. Actual results might differ from those projected in the forward looking statements. Additional information concerning factors that could cause actual results to materially differ from those in the forward looking statements is contained in the Securities and Exchange Commission filings on the Company and at the end of this presentation.
Corning is the world leader in specialty glass and ceramics

For 165 years, we have been creating keystone components that enable life-changing innovations
R&D has global reach with core technology residing in Corning, NY
Corning Specialty Materials manufactures where our customers are

North America
- Big Flats, NY
- Fairport, NY
- Canton, NY
- Keene, NH
- Wilmington, NC
- Harrodsburg, KY

Europe
- Bagneaux, France
- Krailling, Germany

Asia
- Fuzhou, China
- Jiangmen, China
- Shizuoka, Japan
- Asan, Korea
- Tainan, Taiwan
Corning® Gorilla® Glass uses two essential Corning processes

Proprietary fusion forming process: superior surface, scalability, reliability

+ Innovative glass composition optimized for chemical strengthening

= Gorilla Glass
Corning delivers life changing innovations

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>1879</td>
<td>Edison's Light Bulb</td>
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<tr>
<td>1915</td>
<td>Modern Cooking</td>
</tr>
<tr>
<td>1947</td>
<td>TV</td>
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<tr>
<td>1970</td>
<td>Internet</td>
</tr>
<tr>
<td>1972</td>
<td>Modern Auto Industry</td>
</tr>
<tr>
<td>1982</td>
<td>Flatscreen TVs</td>
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<tr>
<td>2007</td>
<td>Smartphone</td>
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</tbody>
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Corning delivers life changing innovations
Corning started a continuous journey of glass innovation in 2007.
We started with...

Scratch Resistance
- Gorilla Glass significantly outperforms plastic covers

Retained Strength
- Gorilla Glass retained strength is nearly 3x at ~half the thickness of soda lime
We made it tougher...

Higher performance
- Improve damage resistance by 25% at same thickness

Thinner
- Up to 20% reduced thickness while maintaining Gorilla Glass damage resistance
We improved scratch...

Improves scratch resistance
- 3x improvement in the force required to cause lateral cracking

Reduces scratch visibility
- >40% reduction in the number of highly visible scratches

Enables improved strength after scratch
- >40% improvement in retained strength IF a deep flaw/scratch occurs
We addressed the key consumer pain point...

Drop Performance
- Corning Gorilla Glass 4 survives up to 80% of the time when dropped from 1 meter onto a rough surface.
Which is why Corning is the industry standard in cover glass

Global smartphone penetration
73%

Corning® Gorilla® Glass has been used on
4.5 BILLION devices

Source: World Development Indicators from Data World Bank and collection of height sources by country
Today there are 40 major OEMs using Corning® Gorilla® Glass
Where does this leave us today?
While Corning® Gorilla® Glass 4 focused on test drop from 1 meter, we decided to take it higher.
Global study of smartphone owners

85% of smartphone owners have dropped their phones at least once in the past year.

* Numbers above are averages of an 11 country study of global smartphone users using Toluna’s Quicksurvey panel. Countries included U.S., Brazil, U.K., France, Germany, Italy, Turkey, India, Russia, China, Indonesia. Collectively these countries represent 3.9 billion people or 54% of the world’s population.
Global study of smartphone owners

On average most drops occur while:
- Walking (55%)
- Talking (45%)
- Texting (44%)

Weighted Average Global Height: 162 CM

*Numbers above are averages of an 11 country study of global smartphone users using Toluna’s Quicksurvey panel. Countries included U.S., Brazil, U.K., France, Germany, Italy, Turkey, India, Russia, China, Indonesia. Collectively these countries represent 3.9 billion people or 54% of the world’s population.
Global study of smartphone owners

On average, nearly two thirds (63%) of respondents said they have dropped their smartphones from a height between shoulder and waist.

* Numbers above are averages of an 11 country study of global smartphone users using Toluna’s Quicksurvey panel. Countries included U.S., Brazil, U.K., France, Germany, Italy, Turkey, India, Russia, China, Indonesia. Collectively these countries represent 3.9 billion people or 54% of the world’s population.
Taking Tough To New Heights

Corning® Gorilla® Glass 5 improves drop performance while preserving optical clarity, touch sensitivity and damage resistance
Corning® Gorilla® Glass 5
A highly damage-resistant cover glass for improved drop survivability in mobile devices

Dr. Jaymin Amin
Division Vice President
Corning® Gorilla® Glass 5

Step change in damage-resistant glass technology with potential for significant drop improvement in mobile device cover glasses

Up to 2x improvement in damage resistance over Corning® Gorilla® Glass 4, and up to 4x improvement over alternate glasses
- Damage resistance = ability of a material to survive sharp-contact damage

Up to 1.8 x improvement over Gorilla Glass 4 in drop performance on rough surfaces

Gorilla Glass 5 survives up to 80% of the time from drops at 1.6 meters

1) As measured in Corning’s dynamic impact test
2) As measured in Corning’s internal drop test (incremental face drops on 180-grit sandpaper), using a puck. Glass thickness 0.4 – 0.8mm
3) As measured in Corning’s internal drop test, glass thickness >0.6mm
What causes cover glass failure in a handheld device?

Theoretical strength of glass is very high
- Glass strength is greatly reduced when a defect or flaw is introduced
- During finishing or through sharp contact damage during a drop event

Glass typically breaks from a surface flaw that is subjected to tensile stress (pulling apart/stretching)
- Such tensile stresses can be imparted through bending during a drop event

Flaw + tensile stress = break

Flaw in cover glass, due to finishing or sharp impact damage

Placed in tension with bending during drop, initiating fracture
Our glass innovation approach always starts with failure mode analysis (FMA) of field returns

Primary field failures for cover glass are associated with sharp-contact damage from drop on rough surfaces
- Typically accompanied with simultaneous bending that puts the flaw into tension

When designed well, phones with strengthened glass do not generally encounter flexural failures

While cover glass failures cannot be eliminated, we strive to reduce the frequency by developing glasses with increasing damage resistance

We designed Corning® Gorilla® Glass 5 to improve survivability on rough surfaces
What is Corning® Gorilla® Glass 5?

New strengthened glass demonstrating significantly improved damage resistance over previous glasses
- Outperforms all existing glasses for sharp contact damage and associated drop survivability on rough surfaces

Validated at Corning
- At glass level using newly developed dynamic impact test
- With drop testing in Corning pucks on rough surfaces

Validated by OEMs
- At component level and with actual device drops

In production now
Corning® Gorilla® Glass 5 will improve in-field reliability for cover glass

Up to 2x improvement in damage resistance over Corning® Gorilla® Glass 4, and up to 4x improvement over alternate glasses¹

Up to 1.8 x improvement over Gorilla Glass 4 in drop performance on rough surfaces²

Gorilla Glass 5 survives up to 80% of the time from drops at 1.6 meters³

In-field performance improvement with Gorilla Glass 5 will depend upon the overall device design

Gorilla Glass 5 is in production now

1) As measured in Corning’s dynamic impact test
2) As measured in Corning’s internal drop test (incremental face drops on 180-grit sandpaper), using a puck. Glass thickness 0.4 – 0.8mm
3) As measured in Corning’s internal drop test, glass thickness >0.6mm
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