



## **Investor Presentation – General Meeting**

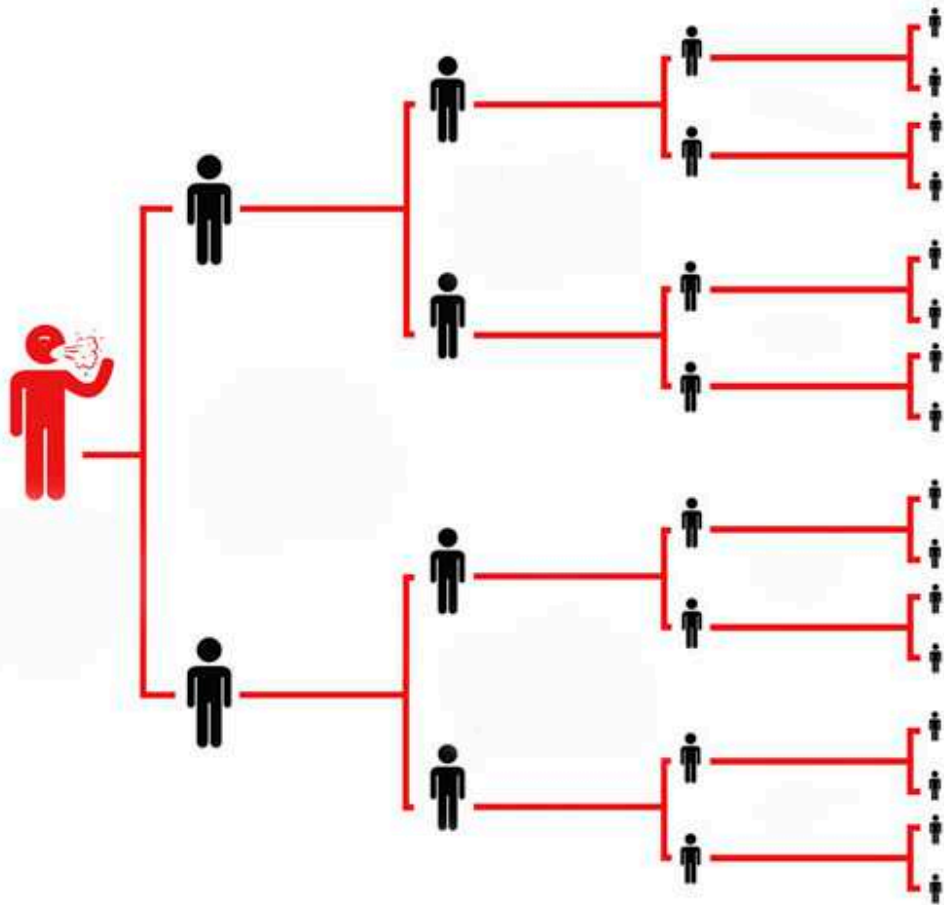
28 October 2020

# Why Invest

- Experts in harnessing nano-technology to solve major problems
- Revolutionary anti-viral digital device protection technology applicable for a multi-billion dollar global market
- Inaugural sales orders filled in July 2020
- Continuing to develop other unique technologies, such as anti-reflective and vision correction applications for digital screens



# The Problem

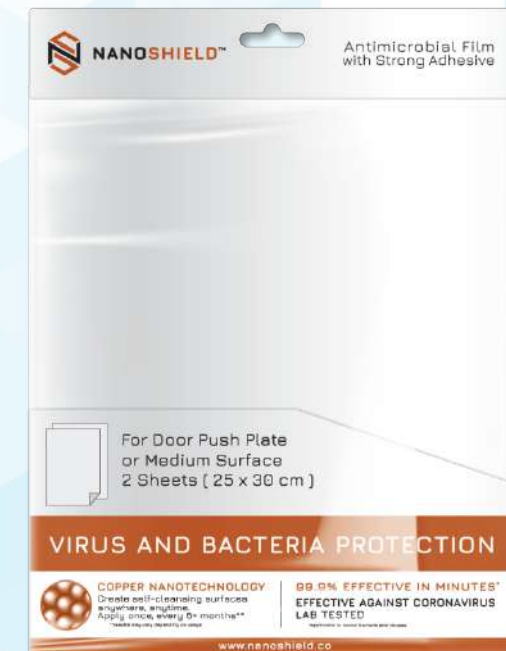


- Currently >43 million documented cases of COVID-19 globally
- Transmission of viruses such as COVID-19 can spread exponentially
- Strong awareness of need to limit risk of infection
- Increasing need for anti-viral protection, especially for surfaces where touch is required

# The Solution

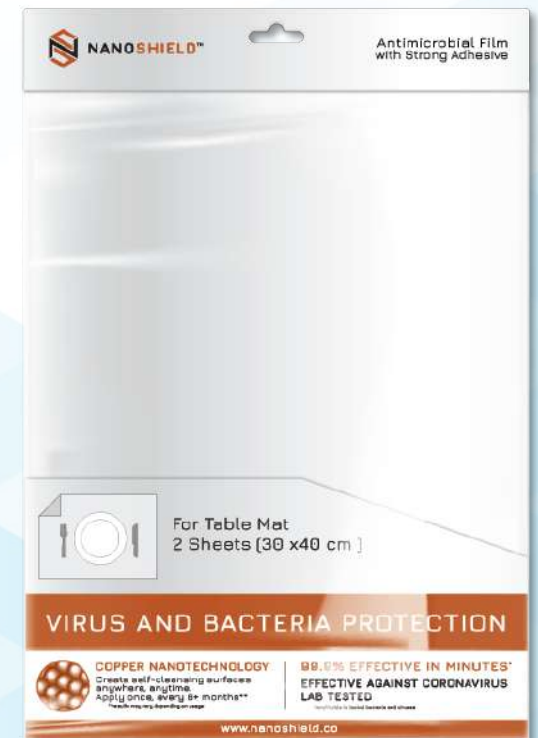
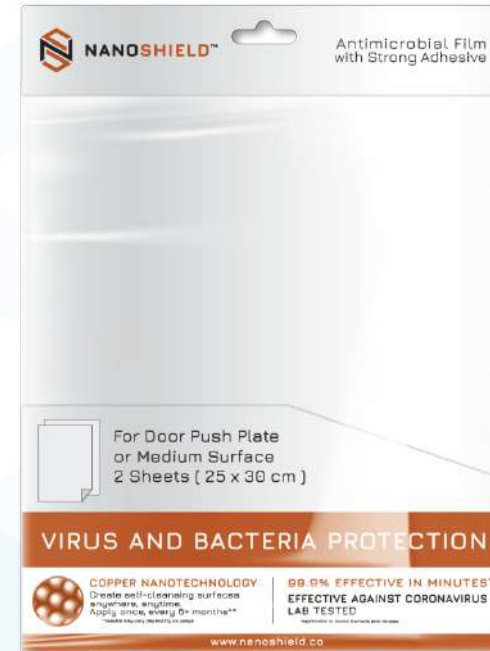


- Nanoshield is an antiviral surface protection technology
- Registered as a Class 1 Medical Device with the TGA in Australia
- Independently tested in Japan, India, Saudi Arabia, Singapore and the US
- Translucent and capable of 90% visible light transparency with hardness of 2H
- No wipes or refills required



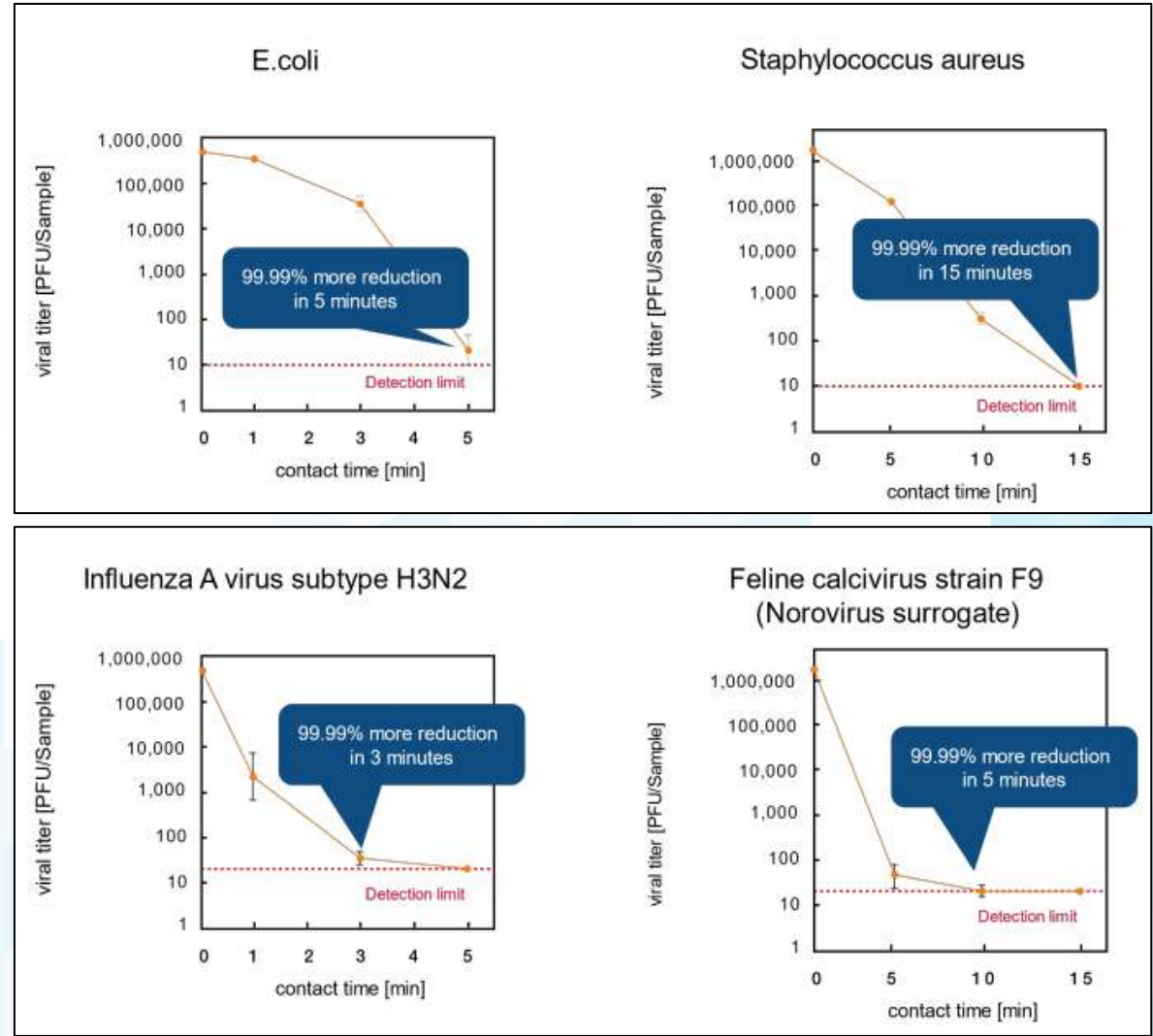


# Products



# Technology Validation

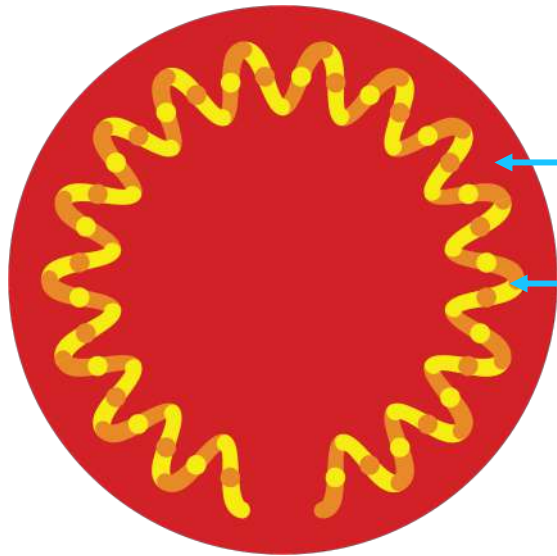
- Independent testing performed
- In 10 minutes 90% of the mouse-based coronavirus MHV-A59 was eradicated <sup>1</sup>
- 99.99% of human coronavirus strain OC43 was eradicated in 30 minutes <sup>1</sup>
  - OC43 is a betacoronavirus.
  - Betacoronaviruses are single-stranded RNA viruses emerging from animals and are typically associated with respiratory ailments. For example, SARS, MERS, and COVID-19 are all forms of betacoronavirus.
- Product also demonstrated to be effective against the E. coli, Staphylococcus aureus, Influenza A virus subtype H3N2 and Feline calicivirus strain F9 (norovirus surrogate) <sup>1</sup>



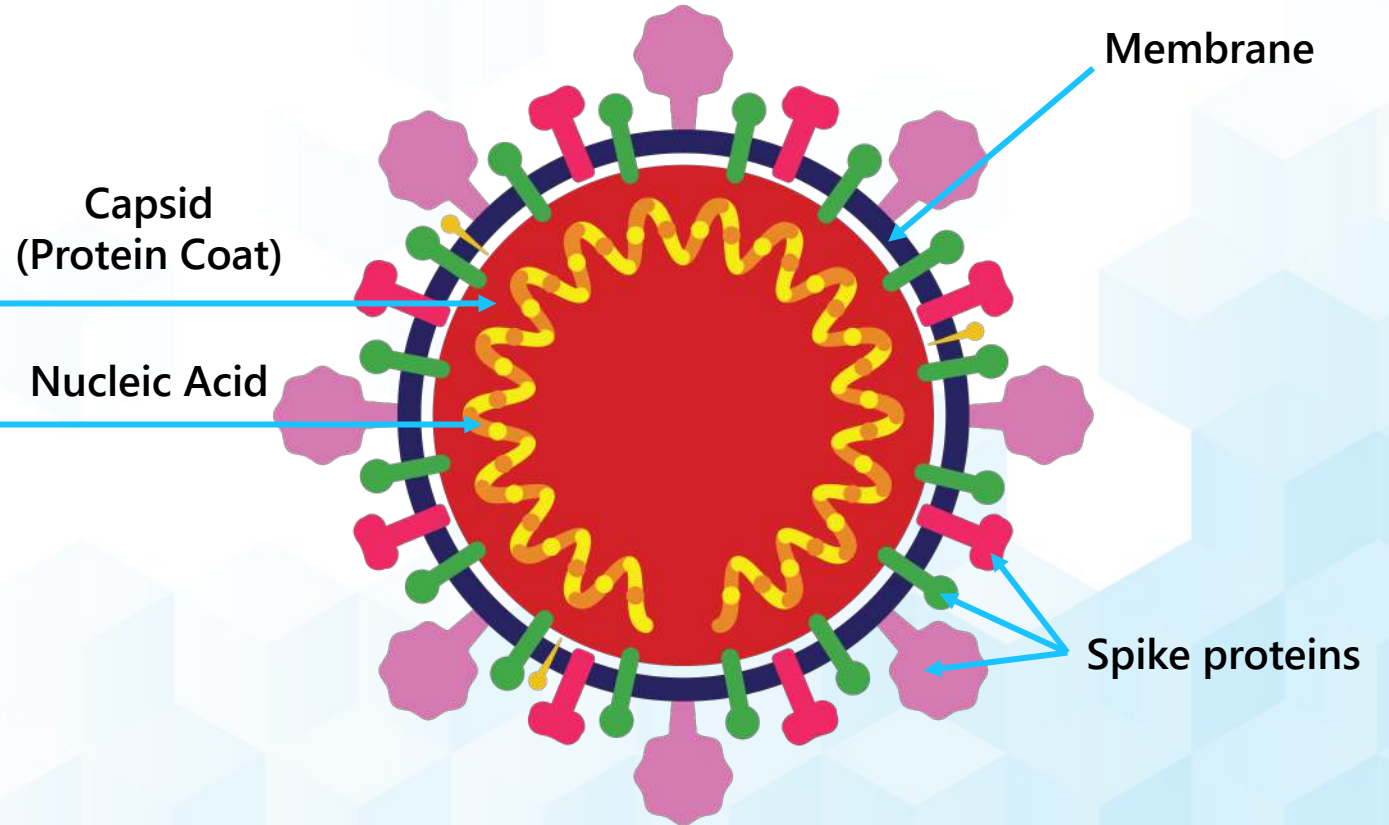
1. Details of the test results can be found in the ASX announcements of 15 April 2020, 5 May 2020 and 25 May 2020

# Virus Structure

A. Nonenveloped Virus



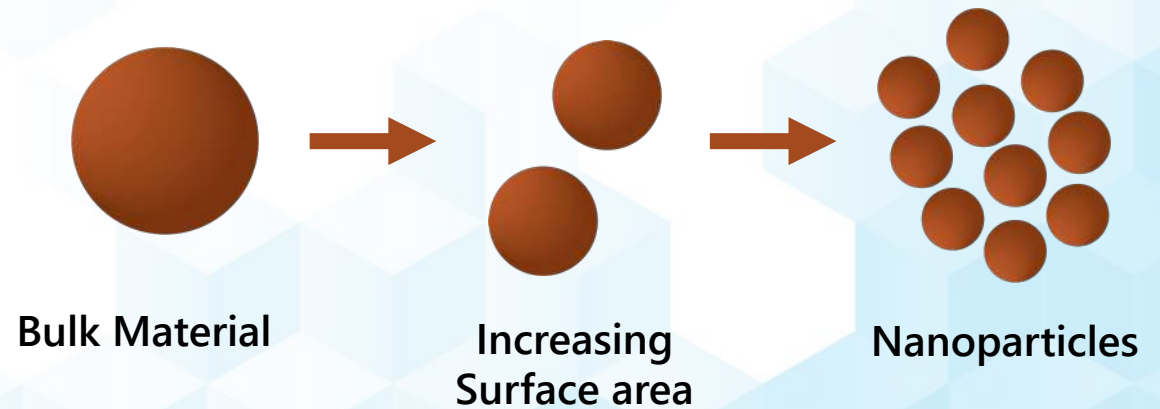
B. Enveloped Virus with Spike Proteins



Viruses have a protective layer that attempts to preserve the infectious DNA/RNA inside long enough to infect host cells. Non-enveloped viruses have a capsid protein layer, enveloped viruses have a lipid membrane with spike proteins.



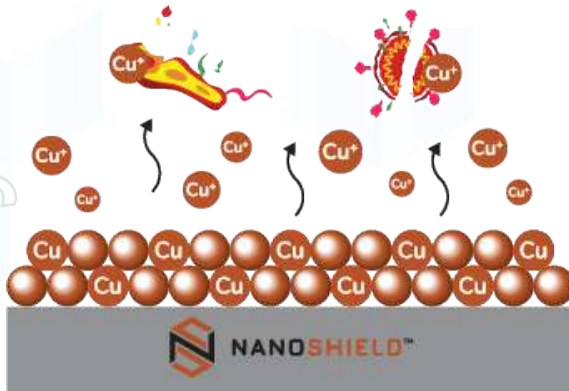
# How it Works - Nanoparticles



Nanoshield infuses copper (cuprous) ion nanoparticles in the very top layer of film. Nanoparticles increase the active surface area, reducing self-disinfection time from 2+ hours (traditional copper) to minutes (Nanoshield)

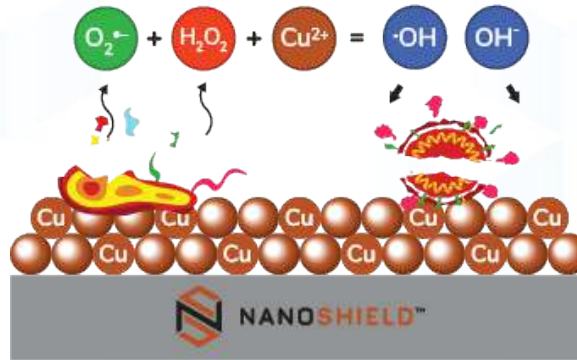


# How it Works



## Copper Ions

Nanoshield produces electrically charged copper ions that attach to viruses and bacteria altering their structure, stopping the way they work.



## Reactive Oxygen Species (ROS)

Nanoshield reacts with molecules that are produced by bacteria ( $H_2O_2$ ,  $O_2^{\cdot-}$ ) to form a chemical substance called Reactive Oxygen Species (ROS). ROS damages both the proteins and nucleic acids in viruses and bacteria providing an antibacterial and antiviral effect

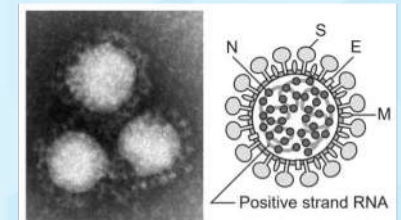


## Direct Contact

All viruses are surrounded by a protective protein layer that holds the infectious components inside. In order for viruses to spread this layer needs remain intact. Nanosheilds copper particles are rapidly absorbed into this protein layer bursting their protective wall

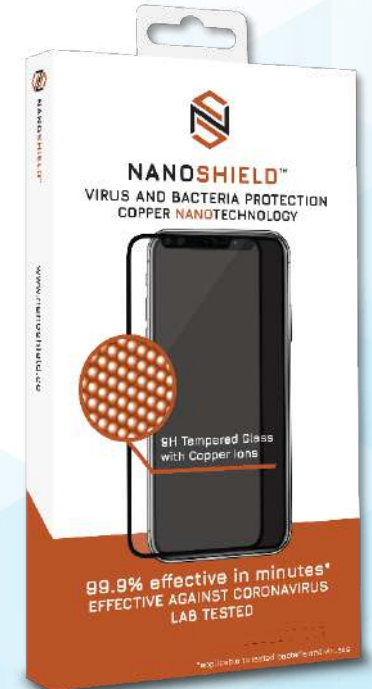
- Copper-based nanoparticles are dispersed throughout the translucent surface
- Copper ions react with atmospheric oxygen producing a chemical reaction creating activated oxygen particles

- These particles act as free radicals which are highly effective agents at killing microorganisms and smaller organic structures
- Anti-viral technology is placed over PET and hybrid glass surfaces for use with smartphones



# Pathway To Market

- Production:
  - ✓ Mass manufacturing processes and supply chain management in place
- Regulatory:
  - ✓ TGA approval received as a Class I medical device
  - ✓ CE/REACH/ROCHE approved
  - ❖ EPA/FDA applications underway
- Sales and Marketing:
  - ✓ Launch of <https://www.nanoshield.co/>
  - ✓ Initial B2B and B2C sales agreements in place
  - ❖ Acceleration of sales agreements ongoing
- First sales orders dispatched in July 2020



# Growing Distribution Partners

- Accelerating international sales through expanding network of distribution partners
- Recent sales through partners announced with a combined value of over AUD 250,000<sup>1</sup>
- Partners secured in locations including:
  - USA
  - Malaysia & Singapore
  - India, Saudi Arabia
  - Thailand
  - Malaysia
  - Vietnam
- Adds additional B2B and B2C capabilities without requiring a capital intensive sales team





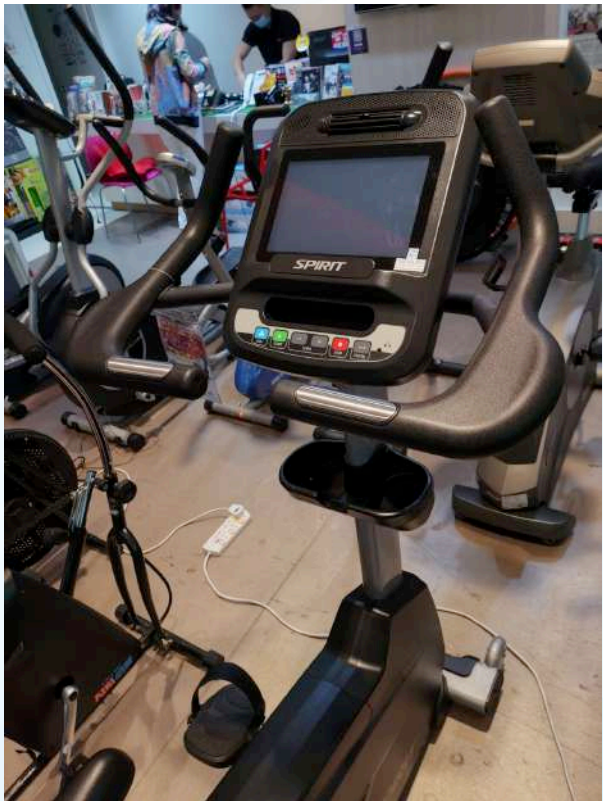
# Advancing Direct Sales

- Major focus on distribution agreements with complementary direct to customer sales
- Sale negotiated with international customer experience improvement company HappyOrNot<sup>1</sup>
- HappyOrNot Customer Feedback Terminals to be equipped with antiviral protection
- HappyOrNot systems used by approximately 4,000 clients in 135 countries
- Direct to consumer sales also through [Nanoshield.co](https://www.nanoshield.co)
- Range of products available to the general public (via international shipping)





# Reference Sites



Personal use only

# Broad range of applications



Door Handles



Door Push Plate



Hand Rail



Elevator Button



Electronic Door Buttons



Self-serve Kiosk



Inflight/Onboard Entertainment



ATM



Tablet



Smart Phone



Small Devices



Public Information Display



Educational Table/ Desk



Kitchen Bench Tops



Fitness Equipment



Safety Screen



## Other Products



Vending machine technology which precisely applies screen protectors for the perfect fit

## EyeFly



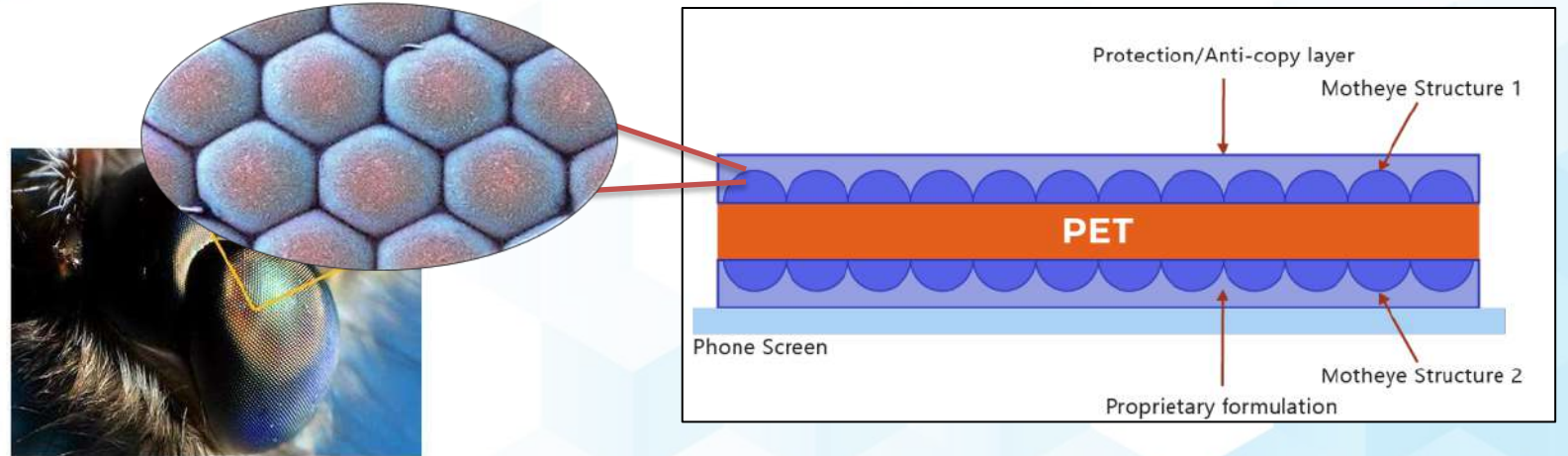
Phone screen protector with ability to produce 3D graphics

# Products in Development



- Phone screen protector which eliminates the need for reading glasses
- Addresses presbyopia
- Enabling user to read their smartphone/tablet without wearing glasses
- Targeting 2021 product launch

## Anti-reflective screen protectors



- Anti-reflective coating is applied to hard PET cover which is adhered to a device
- Coating consists of <200nm hills and valleys similar to structures on a moth's eye
- The undulating pattern absorbs light, giving a better response than existing anti-glare technologies
- Coating allows the transmission of visible light up to 99.4%



# Corporate Snapshot

## Corporate details

Shares on issue	137.8m
Options on issue	2.2m
Market capitalisation (\$0.06/share)	\$8.3m
52 week high - low	\$0.225 - \$0.025

## Major shareholders

Board and management	31.6%
Top 20	70.0%

## Board & management

Executive Chairman & CEO	Alfred Chong
Director, CFO & Company Sec	Michael van Uffelen
Non-executive Director	Steven Apedaile
Non-executive Director	David Nicol

## ASX price and volume

October 2019 to October 2020



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**Thank you**

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