



For Unparalleled Air and Water
Filtration Applications

Quantum Filtration's Request for
\$35 Million in Financing
(\$20MM for a 20% Equity Position and \$15MM in Debt)



QUANTUM FILTRATION: *Combining two innovative solutions to real-world healthcare problems.*

- Proprietary nano-fiber membrane delivers the ONLY PPE mask capable of both blocking and killing pathogens, including Covid-19
- Proprietary Re:Earth ozone-based series of hand sanitizers and disinfectants are only alcohol-free product capable of killing microbes, including Covid-19, on contact and provide long-term protection.

CORONA VIRUS (COVID-19) FACTS

Corona Viruses are a large family of viruses that cause not only the common cold but also more serious respiratory illnesses



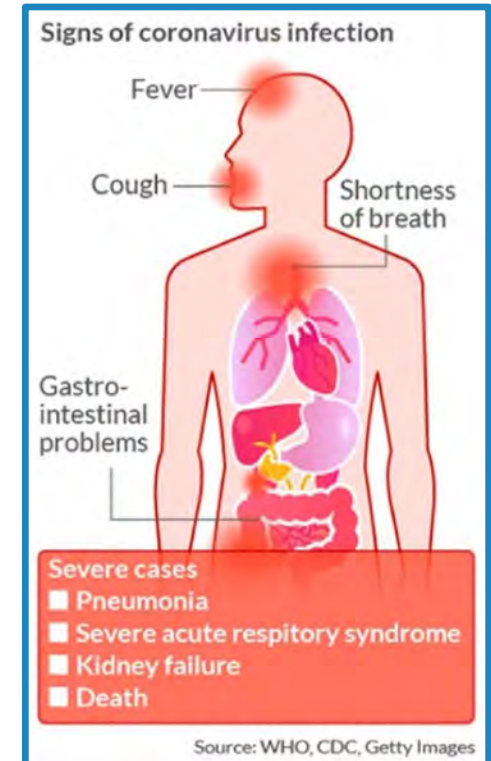
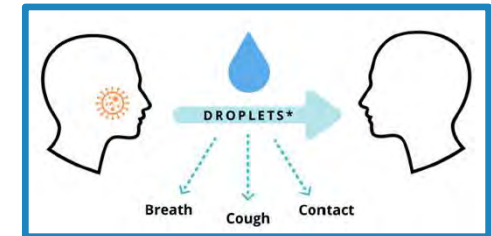
Each infected person may infect two to three more people †

3.4% Mortality Rate estimate by WHO†

No vaccines or antiviral drugs available

Hard to contain due to virus' long survival time

† Source: www.cdc.gov



AN INCONVENIENT TRUTH...

Why Don't Existing Masks Work?

- According to NIOSH 42 CFR 84, the three efficiency levels for the existing respirators are 95, 99, and 99.97%.
- However, these efficiency levels are measured against particles size larger than $0.3\ \mu\text{m}$.
- Virus particles can be as small as $0.003\ \mu\text{m}$.

Simply put:

The virus particles are smaller than the pore size of the very best masks available.

A top US health official say the US needs 300 million face masks for healthcare workers. But masks are not necessarily effective against coronavirus.

■ LAUREN FRIAS | FEB 26, 2020, 13:02 IST



THE QUANTUM MEMBRANE SOLUTION

In response, Quantum Filtration, Inc. has developed a novel antiviral-nanofibrous face mask product.

The new mask is specifically designed to protect against viruses:



01.

Pore size is
0.0025 microns!

02.

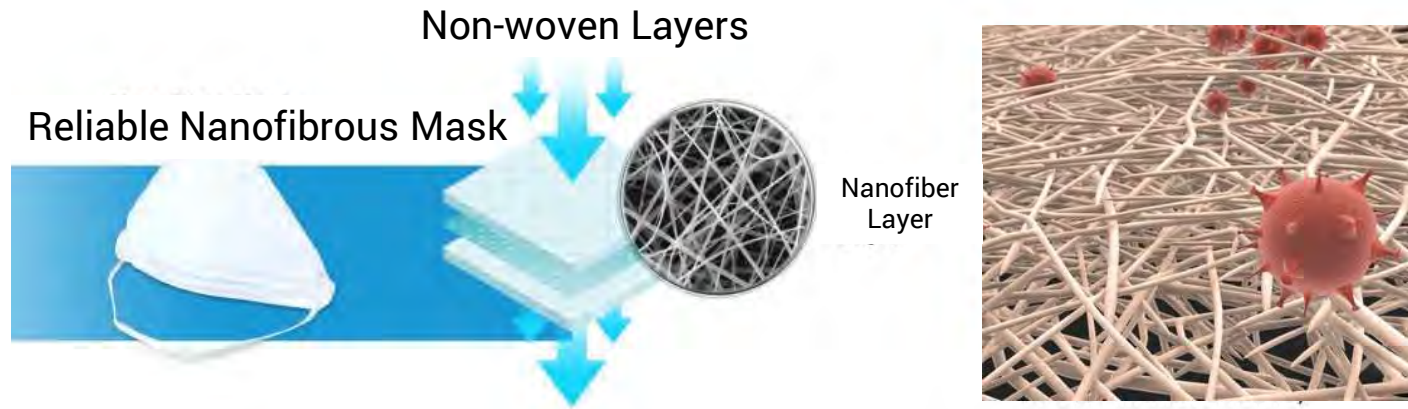
The fibers can be
impregnated with an anti-
viral, anti-microbial, anti-
bacterial agent

Provides protection against over
600 known pathogens

03.

Independent study
shows 99.9975%
blockage of particles
0.07 microns

GRAPHENE MEMBRANE NANO FILTERS



- ✓ 99.9975% filtration efficiency
- ✓ Proprietary material that deactivates viruses
- ✓ Very high surface area per unit mass
- ✓ Gradient pore size of .0025 microns designed to trap smallest pathogens and virus particles
- ✓ Significantly higher breathability than N95 masks
- ✓ Flexible and comfortable in wearing

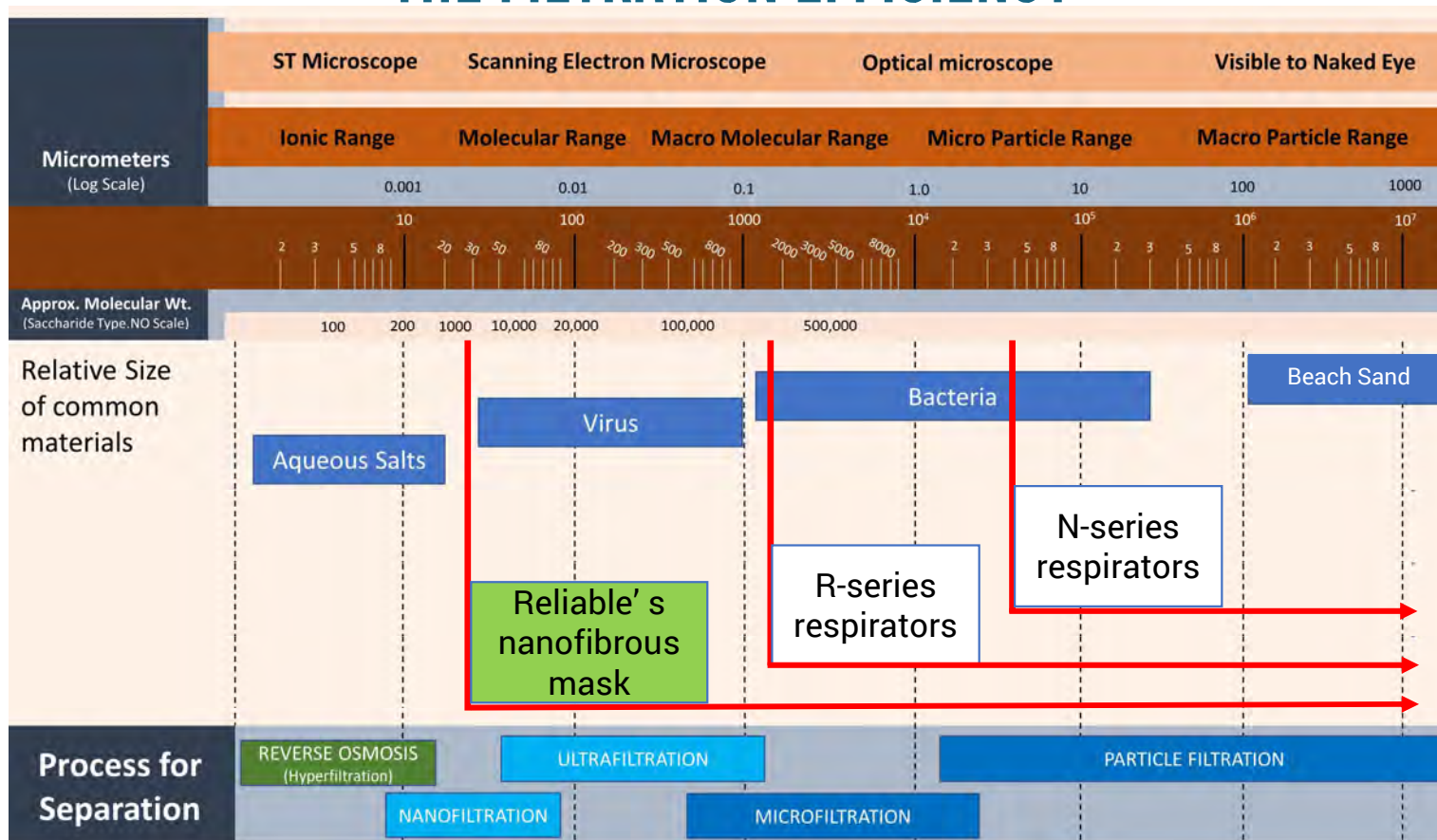
COMPETITIVE ADVANTAGE



Benefit	Surgical masks	NIOSH certified N95, N99, N100	Reliable nanofibrous mask
Efficient against viruses			✓
Efficient against bacteria		✓	✓
Antiviral activated			✓
Highly breathable	✓		✓
Comfortable in wearing	✓		✓
Cost effective	✓		✓

HEAD TO-HEAD AGAINST COMPETITION

THE FILTRATION EFFICIENCY



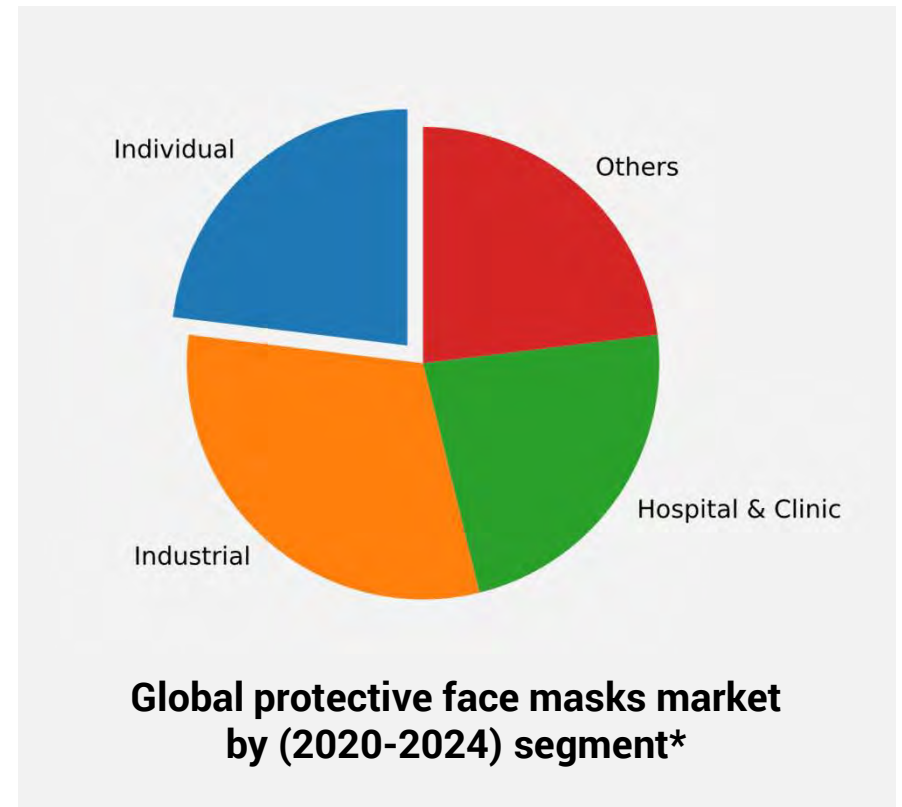


Quantum Filtration lab in Irvine California, demonstrating the nano-fiber production machines. Quantum's long-term goal is to have 250 such machines, producing enough material for 100 million masks per month.

MARKET ANALYSIS

- The global respiratory protective equipment market size is expected to reach USD 9.96 billion by 2025.†
- This market is anticipated to register a CAGR of 7.0% during the forecast period.†
- Rising occupational safety regulations for ensuring worker safety is expected to boost the product demand.
- Rising concerns regarding the coronavirus outbreak is anticipated to significantly augment the product demand over the next years.

* Source: Grand View Research, Inc



MARKET TRACTION

We are working with a retired U.S. General who owns a supply company providing medical equipment, including masks, to:

01.

World Health Organization

02.

National Institute of Health

03.

Department of Homeland Security

04.

Department of Defense

05.

NATO and allied countries

06.

Veterans Administration

We are targeting an initial capacity of 500,000,000 masks per year.

WHERE ARE WE NOW...

- 1.** Quantum has developed a unique and patent-pending membrane technology
- 2.** Quantum has tested the membrane to prove its filtration capabilities
- 3.** Quantum has an exclusive supply agreement with one of the top-quality raw material producers in the world
- 4.** Quantum has established its initial manufacturing at a UC Irvine incubation facility
- 5.** Manufacturing is overseen by an MIT PhD./MBA professor to GMP and ISO 9001 standards
- 6.** Quantum has obtained EUA exemption from US FDA to sell mask as medical device

THE NEXT STEPS:

- Complete anti-viral testing (pending)
- First two electro-spinning machines were installed May 1 and are producing filter membrane
- Nine addition automated high output electro-spinning machines have been ordered with June delivery time.
- First mask making machine to be operational by July 1, 2020
- FDA 510(k) submission expected by July 31.
- Respirator (N-95 style) mask to be available August 31.
- NIOSH certification expected August/September 2020.

Estimated time to commence commercial production: July 1, 2020

Re:Earth Ozonated Water Products



A Saner Sanitizer

Alcohol-free hand sanitizer and disinfectants

Re:Earth Ozonated Water Products

100%
Biodegradable into
Hydrogen and
Oxygen

What is “ozonated water?”

- H_2O_3 molecules are called “ozone”
- Ozonated water is infused with ozone, which is a highly effective anti-microbial
- Most ozonated water has a short shelf life—generally just minutes
- Quantum Filtration has stabilized ozonated water, extending the shelf life to years
- Quantum uses this stabilized ozonated water to create a unique, alcohol-free hand sanitizer and disinfectant—Re:Earth

Powered by
All-Natural
OZONE
Technology

**Earth-Friendly,
Germ-Deadly:**
Kills 99.997% of
germs—*naturally*

• **Re:Earth does the job better:** Not only does Re:Earth have a near-zero environmental impact, it is actually more effective at killing bacteria, viruses, fungi, and other pathogens, including the SARS-CoV-19 coronavirus, than alcohol- and TCS/TCC-based disinfectants. Lab tests indicate that surfaces treated with Re:Earth remained germ-free **4 times longer** than with other disinfectant applications.

• **Re:Earth is fully biodegradable:** Re:Earth disinfectants and sanitizers are based on ozonated water—a molecule of hydrogen and oxygen. As such, it breaks down into life's most basic building blocks of hydrogen and oxygen.

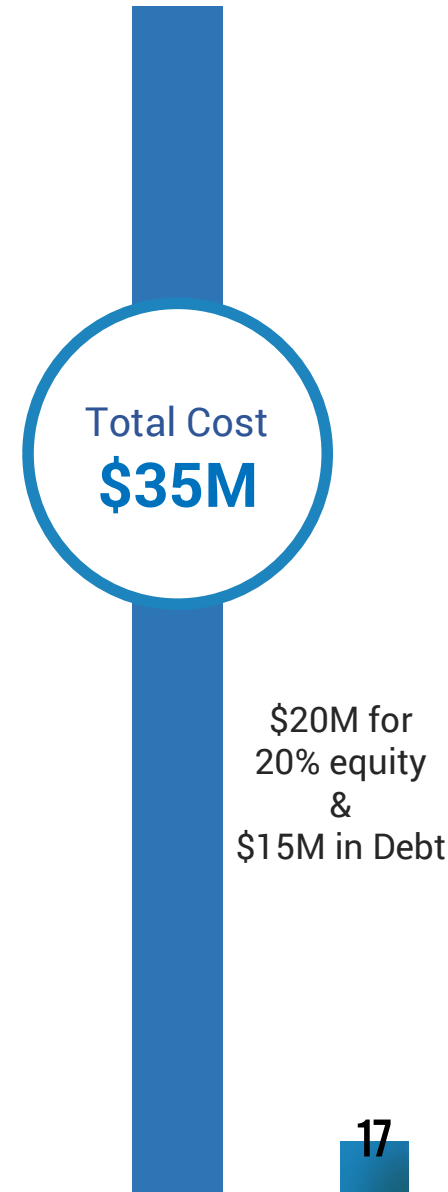
• **Re:Earth has no unintended consequences:** Because Re:Earth breaks down into simple hydrogen and oxygen, it does not contribute to hormonal disruptions nor play any role in the rise of antibiotic-resistant bacteria than atmospheric hydrogen and oxygen would.

• **Re:Earth is tough on germs, but gentle on the skin:** Re:Earth is a safe, **all-in-one solution:** It can be used to clean surfaces *and* on hands. It emits no fumes and presents no risk of irritation to the respiratory track. It is safe to use in kitchens and on food preparation surfaces.

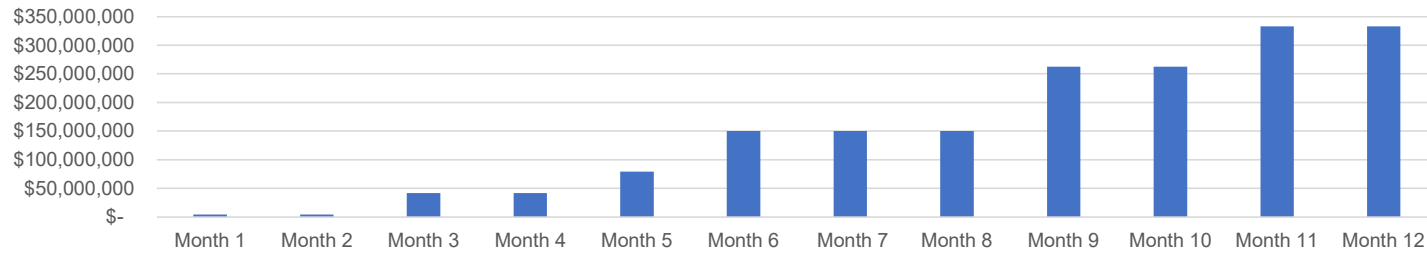


Quantum Filtration is seeking a capital to accelerate a total capacity for 95 million masks per month and 20 million gallons of Re:Earth products.

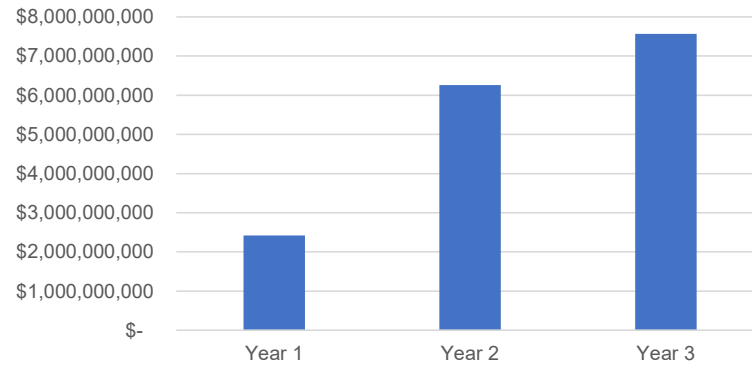
Equipment Purchase	Qty	Cost	
ElectroSpinning	81	235,000	\$ 19,035,000
Mask Making (Surgical & Folded N-95)	17	120,000	2,040,000
Mask Making (Cupped N-95)	8	850,000	6,800,000
Lab Equipment	1	90,000	90,000
Leasehold Improvements			550,000
Testing and Certifications			200,000
Contingency			1,585,000
Cost of Capital			3,500,000
Interest Reserve			1,200,000
			<u>\$ 35,000,000</u>



Projected Revenues



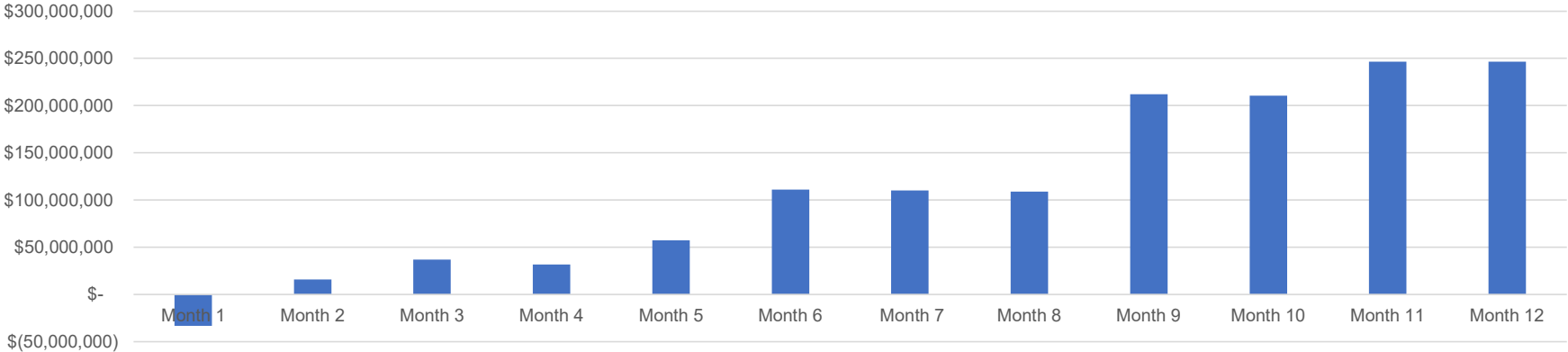
3 Year Growth Projection



Gross Margin
79%

12 MONTH FINANCIAL FORECAST

Projected Cash Flow
First 12 Months



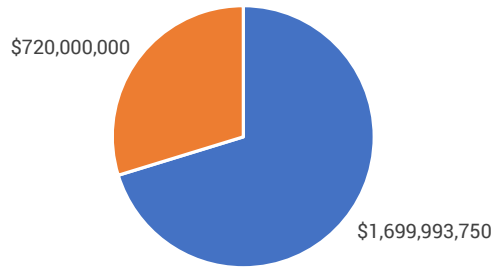
\$2,531,000,000

Total 12 Month
Revenues

\$1,387,000,000

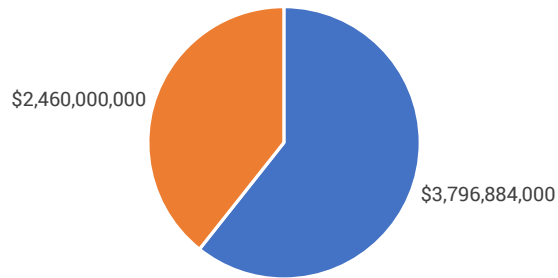
Net 12 Month
EBITDA

Year 1 Product Mix



■ Mask Revenues ■ Re: Earth Revenues

Year 2 Product Mix



■ Mask Revenues ■ Re: Earth Revenues

Year 3 Product Mix



■ Mask Revenues ■ Re: Earth Revenues

SUMMARY

- Quantum can bring to market the ONLY surgical mask capable of filtering virulent pathogens
- Product is only mask impregnated with an anti-viral agent proven effective on 650 pathogens
- Quantum's mask will be priced competitively
- Quantum's process is completely proprietary and patent pending
- Initial mask capacity is 8mm per month. Once fully operational, following investment of \$35 million, capacity will be 100 million masks per month
- There is an existing, strong demand that will outlast the current corona virus scare
- Additional applications: HVAC filters for home, office and hospital use, and HEPA filters for airplanes, cruise ships, etc.
- ***NIOSH rated respirators with better-than N-95 rating to come August 2020.***
- Re:Earth ozonated water-based hand sanitizer & disinfectant to be introduced July 2020.



THANK YOU



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