



NANOSTECH

MAKE A DIFFERENCE



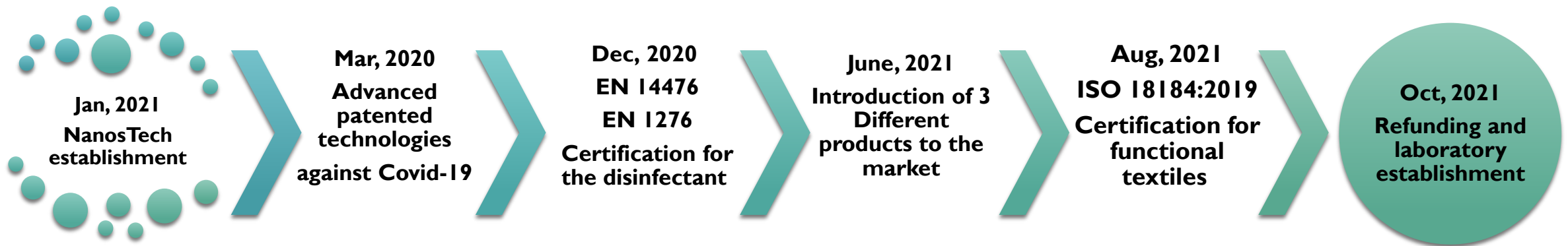
GERM-FIGHTING
MEDICAL PROTECTION
ADVANCED TECHNOLOGIES



NANOS TECH

WWW.NANOSTECH.CO

HISTORICAL OVERVIEW



WE ARE UNIQUE IN THE MENA REGION



Advanced Nanotechnology on Surfaces and Textiles



Textiles: ISO 18184



Surface Disinfectant: EN 14476

10. Conclusion

The disinfectant product “Antiviral nanomaterials against virus”, batch 1, under clean conditions (bovine serum albumin 0.3 g/L), diluted at 70%, requested by the customer and during 45 minutes of contact time and 20°C of temperature, **shows** virucidal activity against Human Coronavirus 229E (ATCC VR-740) when the activity is assayed according with the internal procedure DESIN-6225 based on the NF EN 14476: 2013 + A2: 2019 guideline.

Tests performed only with Human Coronavirus 229E, **does not allow to conclude that the product tested shows a general virucidal activity, but only that it shows activity against Coronaviruses.**

Signed, Ruth Novella
Responsible for the Laboratory Area
(Study Director)

Reference:

Signed, Encarnación Esteban
Technical Director
(Quality Assurance Director)



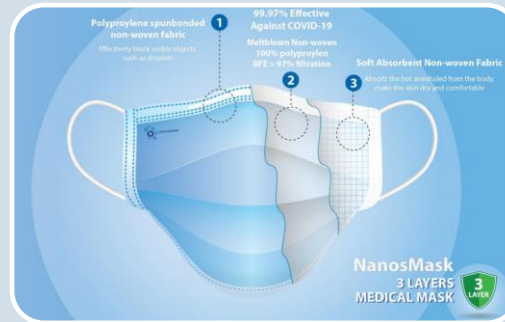
Responsible technician

Technical Director

PRODUCT CATEGORIES: MEDICAL, PUBLIC, AND MILITARY



CATEGORY I: SURGICAL MASK WITH INTEGRATED NANOTECHNOLOGY



Three protective layers

Outer layer: blocks visible particles
Middle layer: 99.97% effective against SARS-COV-2
Inner layer: absorbs exhaled droplets, keeps skin dry and comfortable

**Filtration rate:
>97% for $\geq 3 \mu\text{m}$**

**Reusable up to
10 times**

CATEGORY 2: NANOSMASK



ISO 18184

**Antiviral
Functionalized
Textiles**

**ISO Certified
sono-finishing
textiles**

**Adjustable head-
loops and Ear-
loops**

**Breathable
Comfortable**

**Protects from
infectious diseases,**

**Necessary for the
vulnerable
population**

**Sizes: L, M, & S
Suitable for
ages > 4 yo**

**Kills viruses
and bacteria
Washable up
to 55 washes**

CATEGORY 3: NANOSOLUTION



Antibacterial
& Antiviral
Disinfectant

Provides
surface
protection
Effective in 1
min
Durable > 3
months

Can be
applied on
different
surfaces:
Paper, Cloths,
cardboard,
wood, plastic,
steel...

Provides
community
protection
Can be applied
in hospitals,
schools,
restaurants...

Stop surface
transmission
of infectious
diseases

MANAGING THE CRISIS

Challenge 1

Expensive technology, material, equipment, and laboratory tests

- Manufacturing production machines internally at NANOSTECH
- Performing tests at External and International Laboratories

Challenge 2

Testing against SARS-COV-2 aren't available locally

- ISO Certification: 18184:2019 for functionalized textile
- EN 14476 for antiviral disinfectant against coronavirus on surfaces

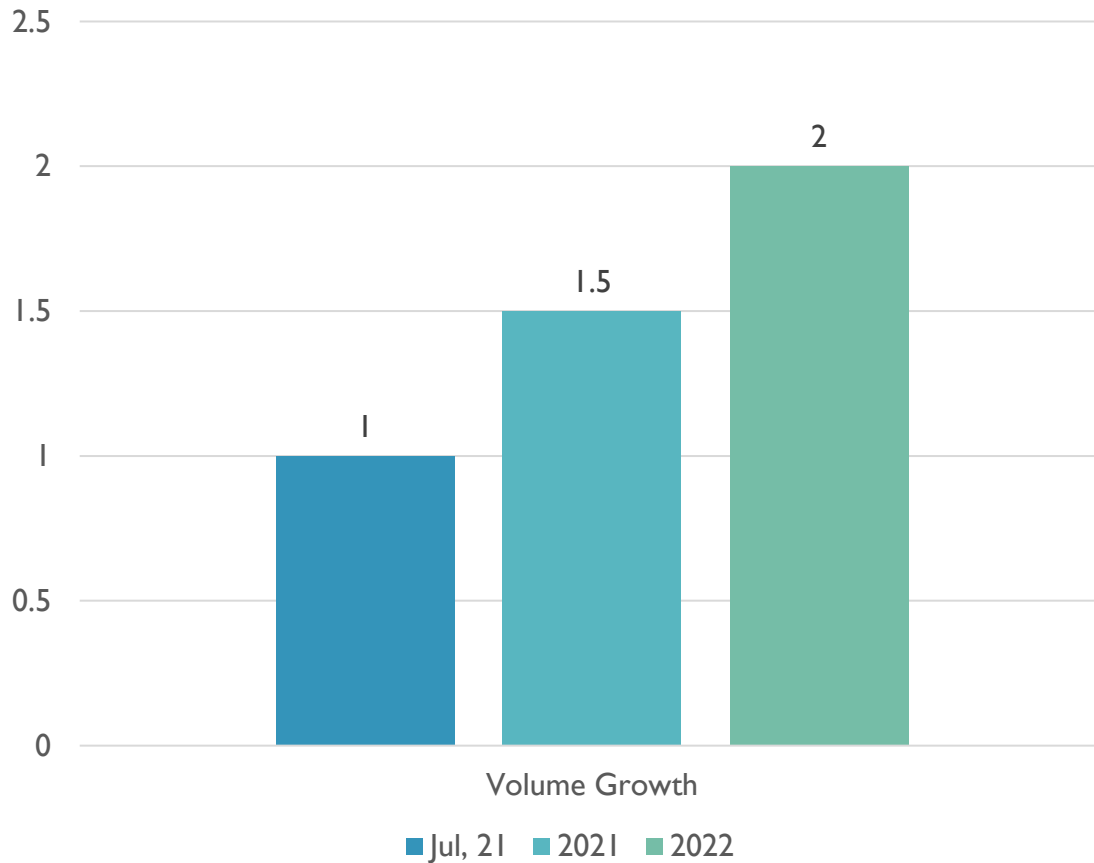
Challenge 3

Availability of technology for larger numbers of users in Lebanon

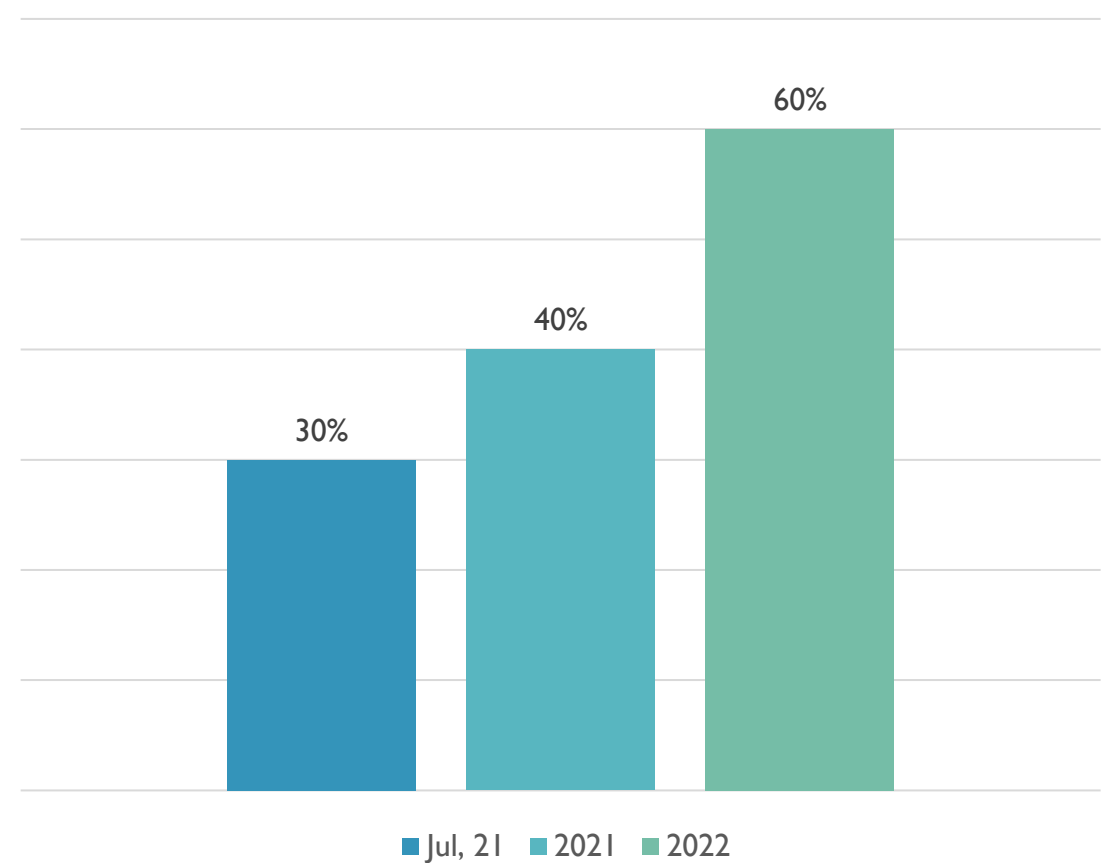
- Decreasing the costs
- Lowering the price of the products
- Expanding distribution and marketing strategies

PERFORMANCE DURING CRISIS

Production Volume Growth (Index)



Sales Growth



EXPORT READINESS

Certifications

- Antimicrobial Textile:
 - ISO 18184
 - ATTC VR-740
- Surface Disinfectant:
 - EN 14476
 - EN 1276

Operational Flexibility

- Depend on the request
- Flexible related to amounts
- Different readiness to export either by plane or sea.

Product Range Readiness

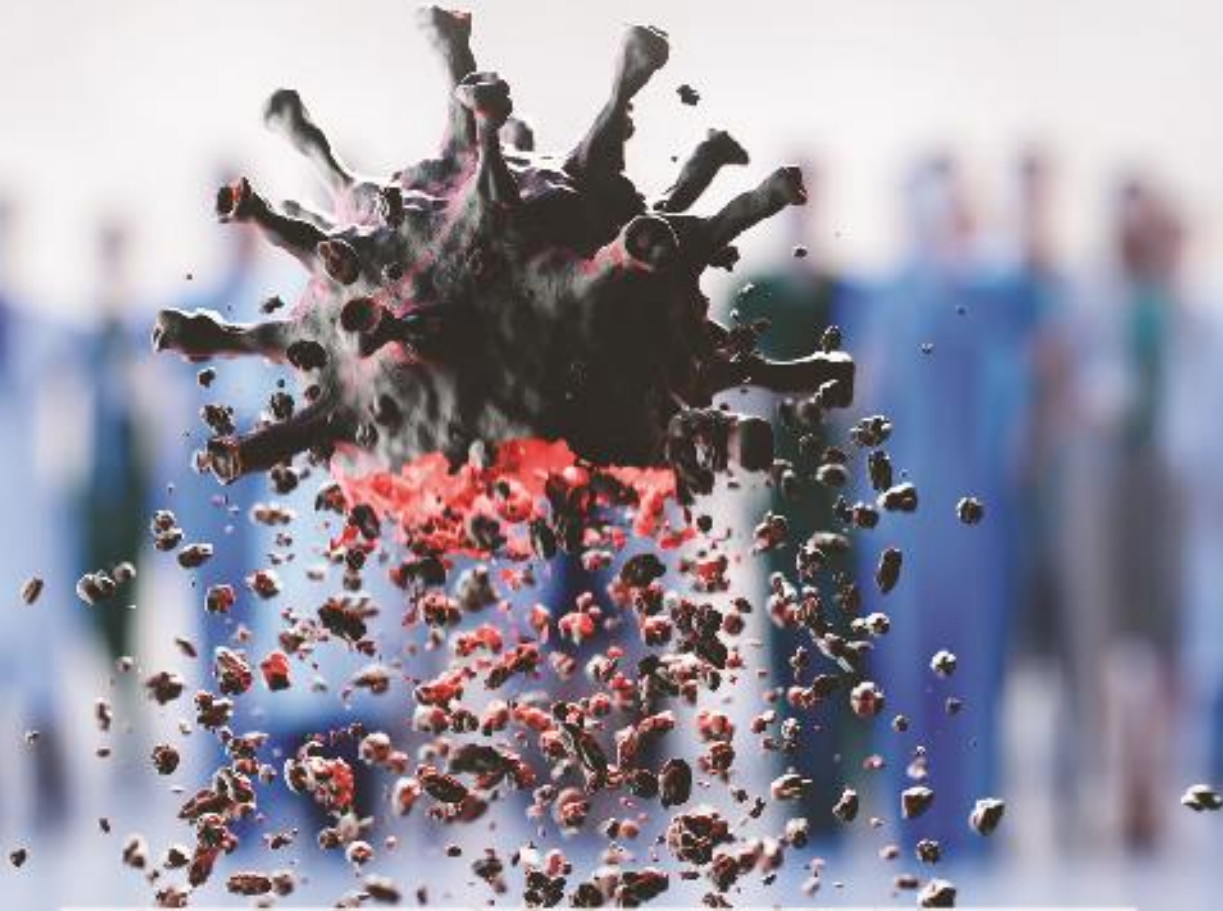
- 2M Surgical mask per month
- 50K Nanosmask per month
- 50K military masks per month
- 5K Gowns
- 10K A/C Filter per month

TARGET MARKETS



- From Lebanon to all the world
- We aim to spread our technologies internationally to help minimize the spread of infectious diseases and protect all people at risk.

ARE YOU READY FOR THE NEXT PANDEMIC??



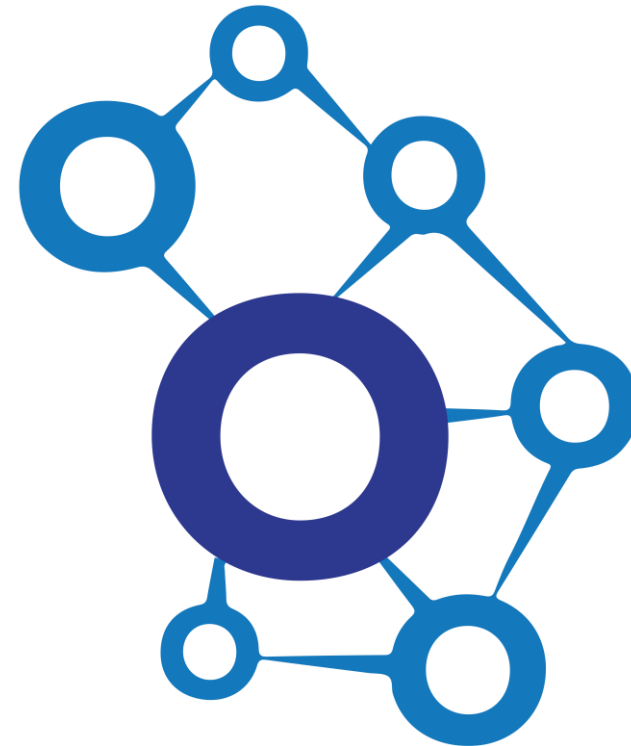
At NANOSTECH .. We Are!

CONNECT WITH US

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