



Ozone + UVC Shoe Disinfection Technology



Certifications

- ✓ NSF International Laboratories Certified
- ✓ EPA Approved
- ✓ UL Certified
- ✓ CE Certified
- ✓ ISO 9001 Manufacturer
- ✓ Made in the USA



What Are We Helping To Solve?

+ 1.7 Million
HAIs
Annually



Cost to
Society

99,000 + Annual
Preventable
Deaths

Cost to
Economy

\$35 – \$45
Billion Annually

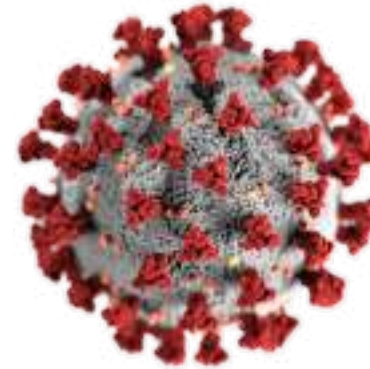
Cost to
Hospitals

\$22,000 per HAI +
19.2 Hospital Days

What about Coronavirus?

Cost to
Humanity

Over 1 Million
Deaths



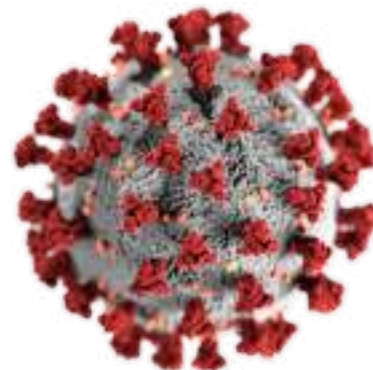
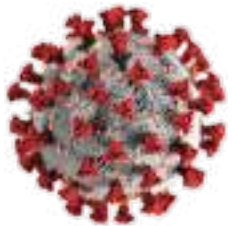
CDC: “As medical staff walk around the ward, the virus can be tracked all over the floor, as indicated by the 100% rate of positivity from the floor in the pharmacy, where there were no patients.”

Cost to
Economy

Trillions Spent
on **REACTIVE**
Mitigation

Cost to
Healthcare
Systems

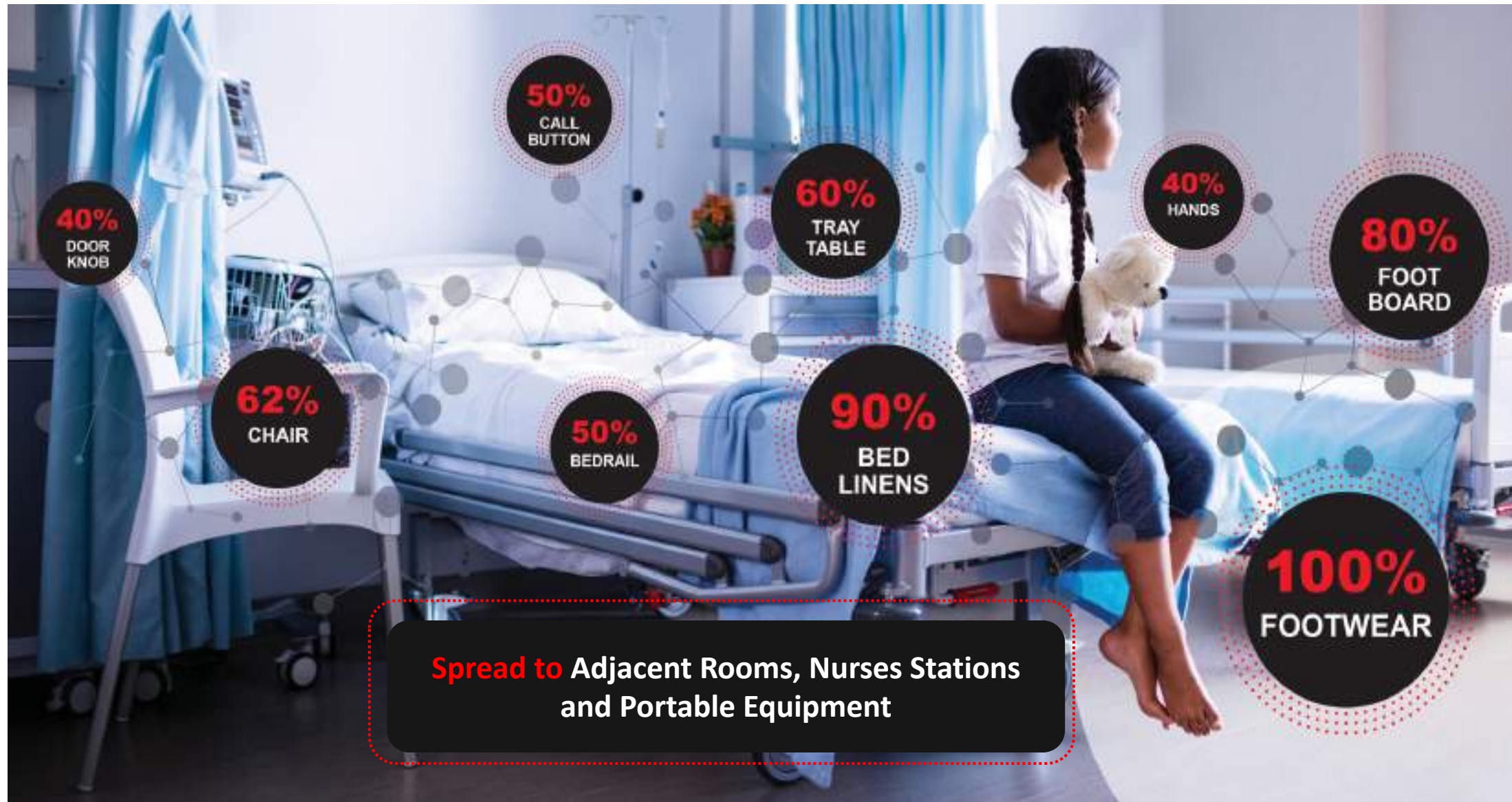
Difficulty Containing
the Spread + Flattening
the Curve





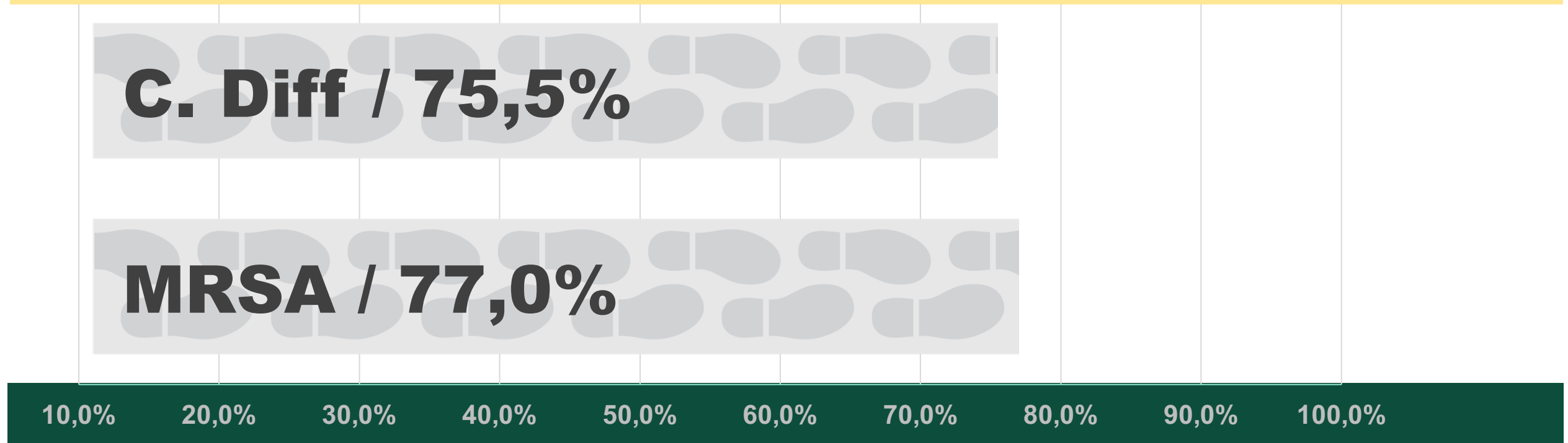
Pathogenic Spread After 24 Hours

Evaluation of Hospital Floors as a Potential Source of Pathogen Dissemination Using a Nonpathogenic Virus as a Surrogate Marker, Infection Control & Hospital Epidemiology (Koganti, Donskey, et al. 2016)



Over 75% of People Carry Deadly Pathogens

Contamination of Shoe Soles Entering Facility Using Current Practices



- Over 75% of people walking into a facility were carrying MRSA, C. difficile, and other harmful pathogens on the soles of their shoes
- Innumerable amounts of pathogens are carried into facilities every single day

❧ **How The Industry Is Adapting ******

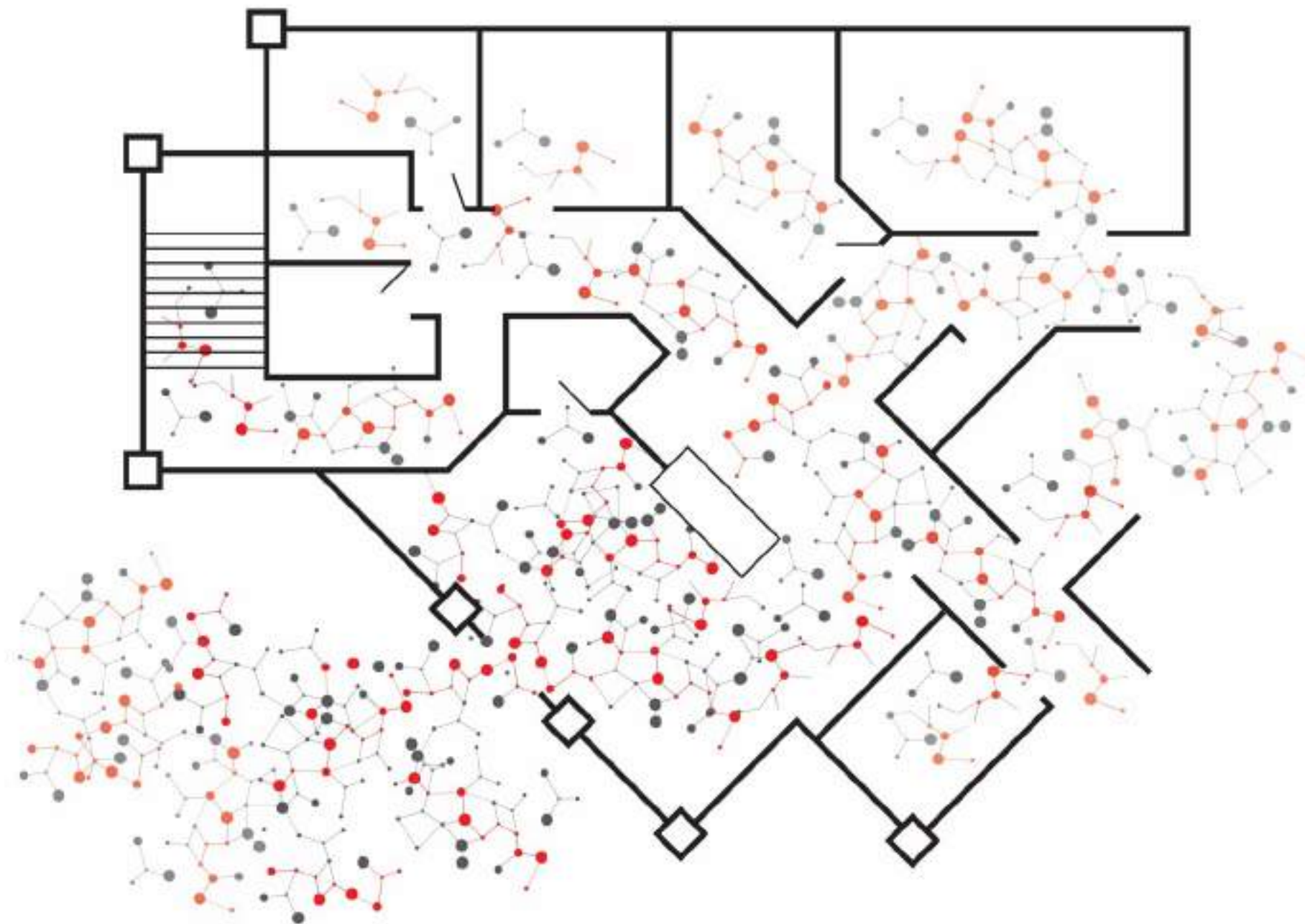


The UVZone Shoe Sanitizing Station

- ✓ Can be set to 6,8, or 10 seconds
- ✓ Plugs into any standard outlet
- ✓ Requires no additional staff
- ✓ Provides continuous 24/7 protection
- ✓ Can be relocated as needed
- ✓ Yields ~ 4.5 million treatments per year
- ✓ Bulb replacement only needed annually



**BEFORE
UVZone**



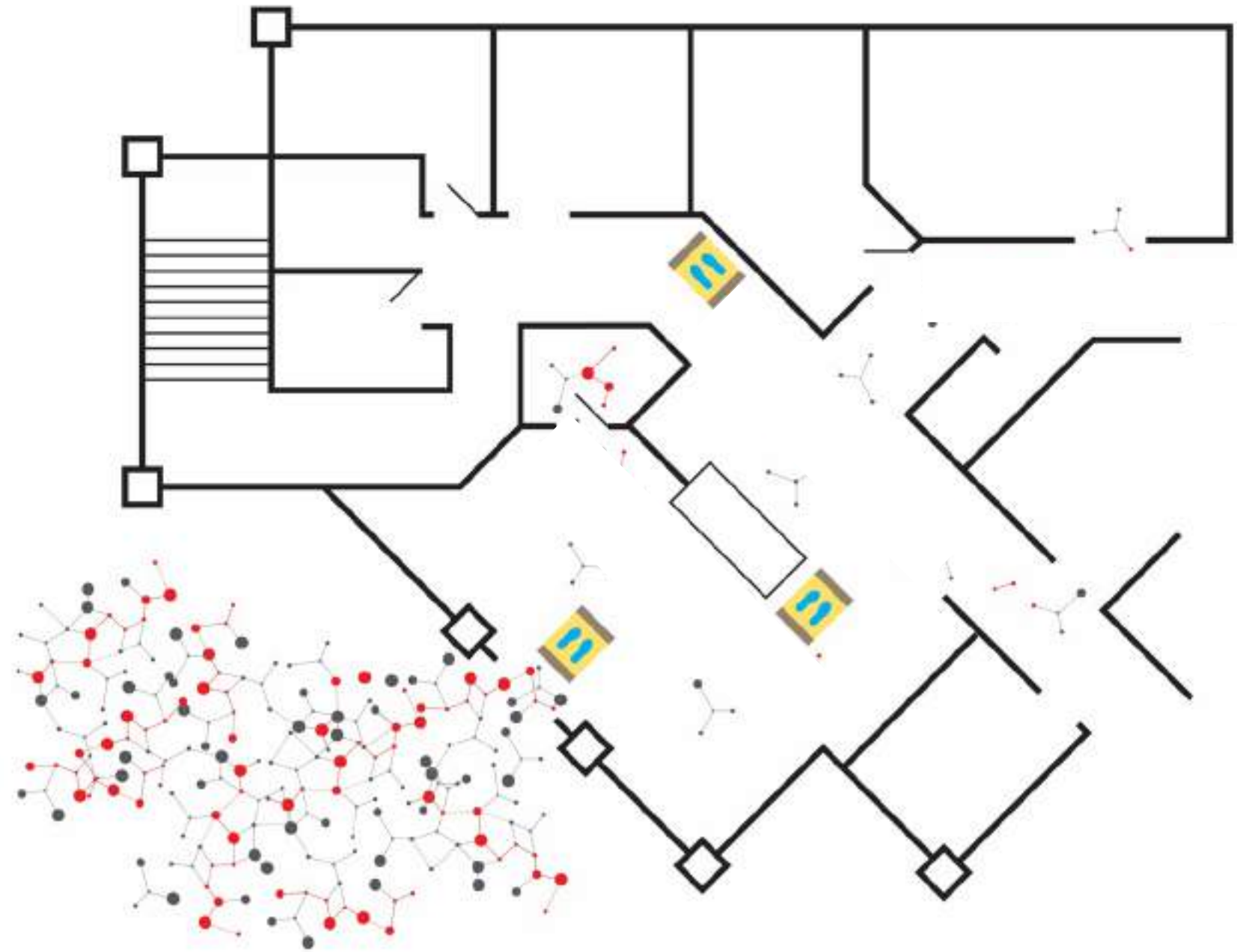
Anticipated microbial spread of pathogens over time

Efficacy of UVC Light Compared to Patented UVZone Technology (Study Performed by NSF International Labs and CREM CO. Labs)

UVC Light				UVZone Technology				
Pathogen Tested	Log Reduction	Percent Reduction	CFU/PFUs remaining	Pathogen Tested	Log Reduction	Percent Reduction	CFU/PFUs remaining	Times UVZone Disinfection is more effective
<i>Staphylococcus aureus (MRSA)</i>	3.66	99.978	219	<i>Staphylococcus aureus (MRSA)</i>	3.80	99.984	158	1.4
<i>Clostridium difficile (C.diff)</i>	0.83	85.209	147,911	<i>Clostridium difficile (C.diff)</i>	3.25	99.944	562	263.0
<i>Enterococcus faecalis (VRE)</i>	2.60	99.749	2,512	<i>Enterococcus faecalis (VRE)</i>	3.87	99.987	135	18.6
<i>Escherichia coli (ESBL)</i>	2.87	99.865	1,349	<i>Escherichia coli (ESBL)</i>	3.56	99.972	275	4.9
<i>Pseudomonas aeruginosa</i>	2.08	99.168	8,318	<i>Pseudomonas aeruginosa</i>	4.62	99.998	24	346.7
Human Coronavirus	2.30	99.499	5,012	Human Coronavirus	3.69	99.980	204	24.5

Comparison performed using results data from UVC ONLY TECHNOLOGY study conducted by a 3rd party laboratory, and OZONE + UVC TECHNOLOGY study performed by NSF Laboratories. Human Coronavirus study was conducted by CREM Co. Labs for both *UVC ONLY* & *OZONE + UVC* TECHNOLOGIES. For more information and full studies visit www.patho3gen.com, or email info@patho3gen.com, or call 1-727-300-1078.

AFTER
UVZone



Anticipated microbial spread of pathogens over time

NSF International Laboratory Study 2019

The UVZone Shoe Sanitizing Station is recommended for use at 8 seconds. See results below.

Type of Pathogen tested	Percent Reduction at 8 Seconds	Log Reduction at 8 Seconds
Candida auris	99.9974%	4.58
Escherichia coli (ESBL)	99.9725%	3.56
Klebsiella pneumoniae (CRE)	99.9578%	3.37
Pseudomonas aeruginosa (MDRO)	99.9976%	4.62
Methicillin resistant staphylococcus aureus (MRSA)	99.9842%	3.80
Clostridioides difficile (C. diff)	99.9440%	3.25
Enterococcus faecalis (VRE)	99.9867%	3.87

March 2020 Coronavirus Study Results

Eliminated
Coronavirus in 8
seconds

Study Title: Assessment of PathO3Gen Solutions Footwear Sanitizing Station for Decontaminating Hard, Non-Porous Environmental Surfaces (Shoes)

Organism Tested: Coronavirus 229E (ATCC-VR-740)

Performing Laboratory:

CREM Co, an independent lab in Ontario, Canada

Summary

- Tested the effectiveness of the technology at 6, 8 and 10 seconds
- Three (3) Test Challenges
 - Test 1 Challenge: 3.68 Log 10
 - Test 2 Challenge: 3.73 Log 10
 - Test 3 Challenge: 3.65 Log 10
- Overall Results:
 - Achieved maximum attainable results in both tests at 8 and 10 seconds
 - ✓ 8 Seconds: 0 PFU (Plaque forming unit) remaining
 - ✓ 10 Seconds: 0 PFU remaining

Concluding Statement

“The PathO3Gen Solutions’ Footwear Sanitizing Station completely eliminated the Coronavirus 229E, the EPA recommended surrogate standard for testing the efficacy of all products used to combat COVID-19, in 8 seconds.”

Log And Percent Reductions

Log	Percent	CFUs Remaining
0	0%	1,000,000
1	90%	100,000
2	99%	10,000
3	99.9%	1,000
4	99.99%	100
5	99.999%	10
6	99.9999%	1
7	99.99999%	0



CASE STUDY



Debi Martoccio
Vice President, Chief
Operating Officer
AdventHealth Connerton

“The stations allow us to establish new protocols that proactively prevent infections to insure the best outcomes for patients.”

- **AdventHealth Connerton** in Florida first to implement technology in Feb 2019
- 8 stations are currently being used throughout the facility
- 53% reduction in Infection rates from February 2019 through March 2020
 - Since the inception of the UVZone Shoe Sanitizing Stations in conjunction with existing infection control measures.
- 92% Employee Satisfaction received through post-install employee surveys
- Pharmacy air and surface audit negative for any pathogen growth ; facility had never achieved a no growth audit prior to adoption of UVZone technology

**Infection
Rate Drop:
53%**

Norton Hospital System Experience (LeapFrog Scores)

Hospital	Health System	Leap Frog Score
*Norton Audubon Hospital	Norton Healthcare	A
*Norton Brownsboro	Norton Healthcare	A
*Norton Hospital	Norton Healthcare	A
*Norton Women's & Children's Hospital	Norton Healthcare	A
Baptist Health Floyd	Baptist Healthcare System	B
Flaget Memorial Hospital	Kentucky One Health	B
Baptist Health La Grange	Baptist Healthcare System	C
Baptist Health Louisville	Baptist Healthcare System	C
Clark Memorial Hospital	Norton Healthcare and LifePoint	C
Hardin Memorial Hospital	Pending Acquisition Baptist HealthCare	C
Jewish Hospital	University of Louisville Health	C
Mary & Elizabeth Hospital	University of Louisville Health	D
University of Louisville Hospital	University of Louisville Health	D

Source: *Louisville Business First*: May 4, 2020 *Acquired PathO3Gen Solutions' Shoe Sanitizing Stations



OUR PATENTED COMBINATION:

OZONE + UVC

» Ozone opens the cell wall

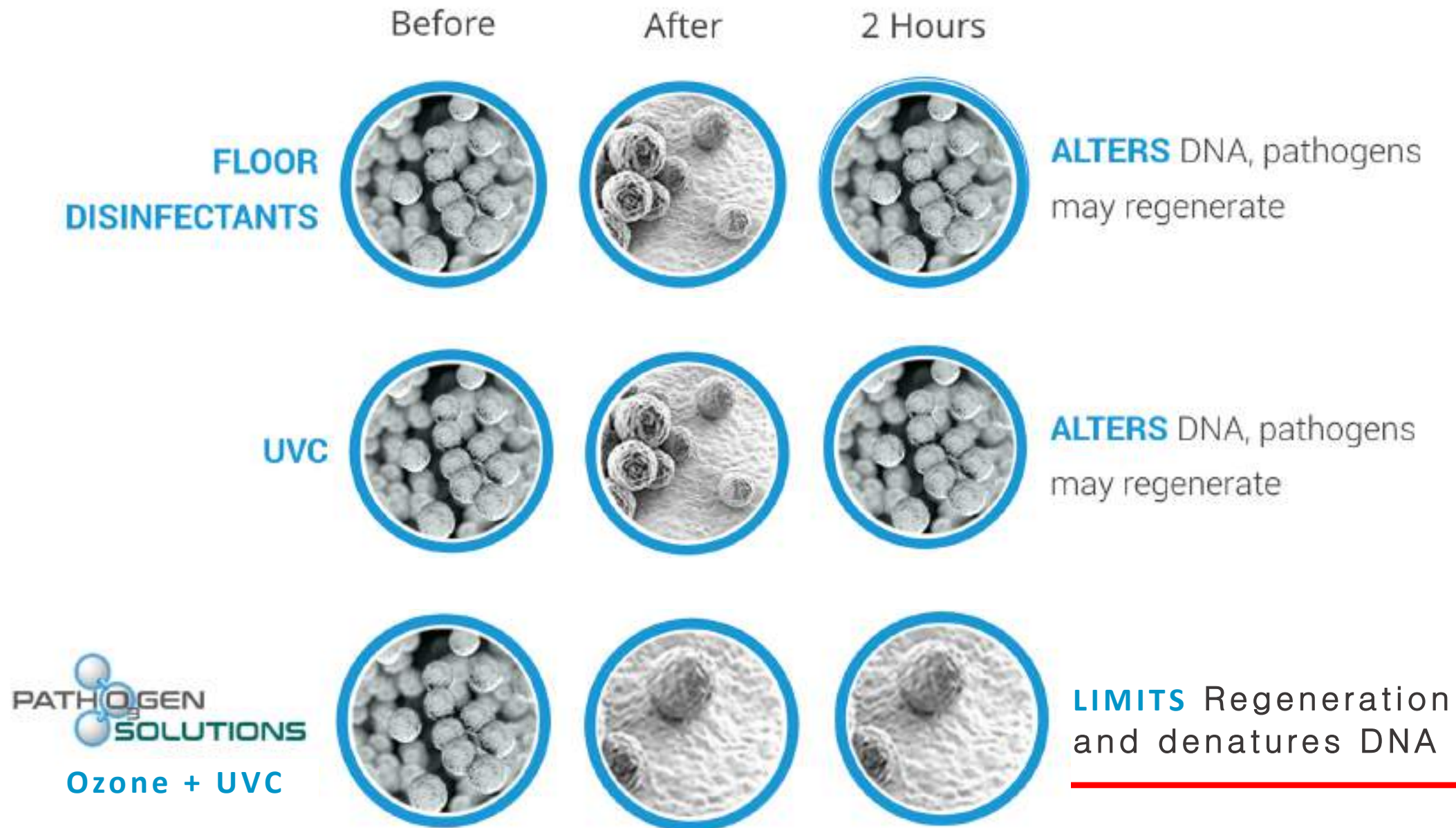
» UVC denatures at DNA level

» » » In Seconds, the Ozone + UVC

- Kills 99.999% of Harmful Pathogens
- Completely Eliminates Coronavirus

KEY ELEMENT: Ozone (O3)

CDC cites, a few hours after floor disinfection, the bacteria count was nearly back to pretreatment levels.



Post-Install Employee Survey Metrics

90% of respondents felt safe that they wouldn't be taking home pathogens on the soles of their shoes when leaving work

97% of respondents thought the shoe sanitizing station was easy to use

89% of respondents agreed the addition of the shoe sanitizing stations made their facility a more attractive working environment



"I love having the peace of mind that I have that extra layer of protection. I have actually read multiple studies for the use of ultraviolet light and the decrease in pathogens and feel that this is warranted with what we walk through in a shift."



"I performed an independent test on my shoes and proved that it worked as it was supposed to. Very pleased with it"



"Using the sanitizer is a very simple way to reduce how infections can be spread throughout our facility. It is also very simple to set up and relocate if it is needed at another location."

How We Support You

- Expert placement advice and training for your staff and facility
- Marketing materials such as customized posters, social distancing floor stickers, and large banners
- Access to our Public Relations team to help distribute key messages to local and national media agencies
- Post-install employee engagement survey & live results dashboard to share with your team
- Financing options to suit any budget





THANK YOU!

**Name, Title
Company
Contact Info**

**Premier Supplier Name and Number:
Green Earth Medical Solutions: 841437**