Sustainably reduce risk with intelligent, hospital-grade UV-C disinfection
At the end of the presentation, we will have a **Question and Answer** segment where we will try our best to answer all of your questions.

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Today’s Presenters

▶ Eli Harris, President, R-Zero Systems, Inc.

Moderator:
▶ James Collins, Senior Director, Business Development, CSBA
Sustainably Reduce Risk with Intelligent, Hospital-grade UV-C Disinfection

Eli Harris, President
COVID-19 exposed how vulnerable we are to infectious diseases. But the challenge is bigger than the coronavirus alone. When it comes to infection prevention, we need a new normal.

R-Zero. Because we all need a new normal.

Increase trust and confidence
Protect students and staff
Reduce sick days
Environmentally friendly
Before COVID-19, 40M Americans caught the flu each year and we accepted this as normal.

- **40M** INFLUENZA Impacts 40 million Americans every year
- **21M** NOROVIRUS Impacts 21 million Americans every year
- **265K** E. COLI Impacts 265 thousand Americans every year
- **100K** STAPH INFECTIONS Impact 100 thousand Americans every year
- **1M** HAIs Occur across health care every year

Sources: CDC, U.S. Department of Health & Human Services, CB Insights
But while fighting Coronavirus, we've proven we can wipe out the flu.

Flu Cases Before Coronavirus

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2019-20 Influenza Season Week 3 ending Jan 18, 2020

Flu Cases During Coronavirus

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet
2020-21 Influenza Season Week 2 ending Jan 16, 2021
So where do we go from here?

Disinfection has not changed significantly in a century.
The pandemic exposed the flaws of antiquated disinfection

Inefficient
A Clorox study found that hospital disinfection through wiping surfaces cleaned only 50% of surfaces (even with trained staff).

Unsustainable
Disinfecting buildings means thousands of gallons of chemicals per year.

Dangerous
Errors in dilution, mixing, and application of chemicals can result in respiratory issues, skin and eye damage, asthma, lung disease, and more.

Manual
On average, 87% of manual disinfection costs are labor related.

Source: Harvard University and the French National Institute of Health and Medical Research (Inserm)
UV-C has been the leading disinfection solution for the highest risk environments, hospitals, since the 1950s.

It hasn’t crossed the chasm to non-medical applications because of the following reasons...

- Expense
- Previous non-medical options were ineffective
- Poor user experience
Meet R-Zero Arc
An IoT-enabled whole room UV-C disinfection system that is more powerful than medical devices, but affordable for non-medical businesses.

Destroys over 99.99% of pathogens in a 1,000 ft² room in just 7 minutes

- >99.99% MRSA
- >99.99% Escherichia Coli (E. Coli)
- >99.99% Human Coronavirus
- >99.99% Feline Calicivirus

Smart disinfection technologies like Arc will be the future of how we ensure safety across indoor spaces.

- Efficacy
- Sustainability
- Visibility and Data Driven Insights
- Cost Savings
Easy, Actionable Protocols

Integrates **seamlessly** into **custodial workflows**.

Arc's 4-button system is easy to use and R-Zero supports your staff with in-person training.

**Easy to move**
It's lightweight, nimble, and has a low center of gravity, so it's easy to move from one room to the next.

**Easy to use**
Starts with the push of a button

**Highly efficient**
With less than two minutes of touch time required per cycle, staff can work in one room while Arc is cleaning another.

**Makes invisible visible**
With built in connectivity, facility managers can check usage and manage devices from anywhere.
Software & Analytics Make the Invisible Disinfection Process, Visible

The R-Zero Cloud enables users to check usage and manage devices anytime and anywhere, creating an audit trail of disinfection activities.

**Compliance**
Enable managers to check if the UV-C device is being run at the correct frequency.

**Community**
Reassure community that the best cleaning solutions are implemented consistently.

**Mobile App**
Collect location-based usage data and provide reminders and checklists.

**Maintenance**
Provide bulb cycle count and hour count, as well as bulb replacement notifications.
ARC vs SPRAYERS

Health Benefits
- No harmful chemicals / No aerosolized bleach that causes asthma / No diluted pesticides / No irritating vapors - eyes, nose, throat, lungs, skin -
- Enter the room immediately after the cycle (vs up to 3 hour wait before it’s safe to enter again)
- Safe to use around food, toys and shared objects and equipment like musical instruments and computers

Cost Effective
- No chemical refills nor PPE required for operators
- ~30% labor savings (1 min touchtime for Arc vs > 10 mins for spraying the room)
- Savings from reduced sick days (staff and students)

ARC vs SCHOOL CHEMICAL WIPE DOWNS

Health Benefits
- No poor indoor air quality due to chemicals that may cause cancer, reproductive disorders, and respiratory ailments
- Higher efficacy: manual wipes misses up to 50% of surfaces even in hospital audit environment
- Effective against airborne pathogens (e.g. coronavirus)

Cost Effective
- No variable chemical costs
- Labor savings (1 min touchtime for Arc vs > 15 mins for spraying the room)
- Software to measure compliance (vs manual wiping)
- Savings from reduced sick days (staff and students)
Select R-Zero Customers

MEDICAL

EDUCATION

GOVERNMENT
The world today needs a closed-loop disinfection system, that provides data.
rzero

is at the forefront of UV-C innovation to sustainably reduce risk and lower sick days for students and staff

rzero.com/education | mattm@rzerosystems.com
Questions?
Thank you