

IATA WEBINAR

WELCOME

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WILL START
SHORTLY**



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**Investissement
Québec**

25 June 2020

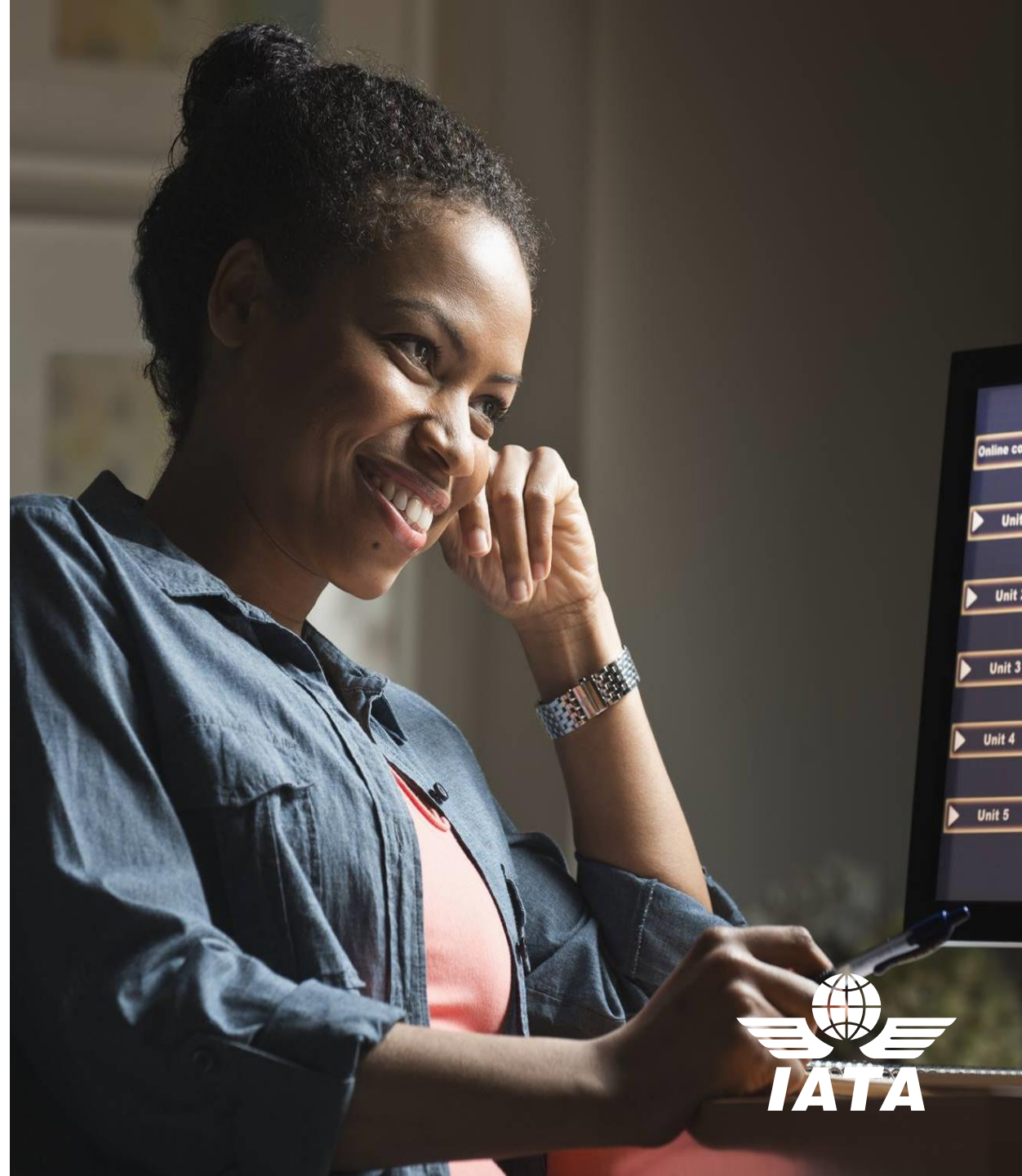


During the webinar

Your microphone will be muted during the webinar.

If you have questions, please use the Q&A panel. All questions are moderated by our legal team.

You also have a chat panel.



IATA WEBINAR

**SPECIAL SERIES:
RESHAPING THE
PASSENGER
EXPERIENCE**



IATA WEBINAR

SECURING THE PASSENGER JOURNEY

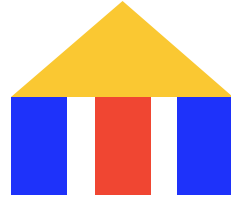
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23 June 2020, 14:00 CET / 08:00 EST



Competition Law Guidelines



This webinar is being conducted in full compliance with antitrust and competition law.

- Any discussion regarding matters such as fares, charges, division or sharing of traffic, or revenues or concerning any other competitively sensitive topics outside the scope of the agenda is strictly prohibited.
- IATA will not answer questions pertaining to individual policies or commercial decisions and/or being subject to bilateral commercial discussions between airlines and their suppliers or customers.

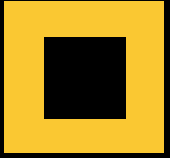
Welcome

Sylvain Campeau

Senior Manager Passenger Process &
Technology

Passenger Experience





Securing the Passenger Journey

Speakers

Martin Boyer

Vice President and
Chief Information
Officer, GTAA

Tim McGraw

Senior Business Technology Analyst
American Airlines

Andrew Price

Head Global Baggage Operations
IATA

Carmen Marcu

Investissement Québec
International

Marie-Christine Huberdeau

P.Eng. | Interiors Sales Vice-President
Avianor

Alireza Hassani

Ph.D. | CEO
Maxwellian



Toronto Pearson 

Martin Boyer

Vice President and Chief Information Officer, GTAA





Carmen Marcu

Investissement Québec
International



Who we are

Based in Montréal - an [economic development agency](#) – facilitating Québec business projects, supporting the development of the driving sectors and attracting foreign companies wishing to settle in Québec.

[Quebec aerospace](#) - Aerospace in Québec is a major driving force for the province's economy and is known for its innovation, vitality and global competitiveness.

Montréal is....

- ✓ [one of the world's three aeronautics hubs](#), alongside Seattle and Toulouse
- ✓ home to a [major global hub for artificial intelligence \(AI\) research](#)
- ✓ more than [70% of all Canadian aerospace R&D](#), conducted in Greater Montréal area

Montréal has....

- ✓ A dynamic **industry cluster** - [Aéro Montréal](#).
- ✓ The [Consortium for Research and Innovation in Aerospace in Quebec \(CRIAQ\)](#) - a unique model for collaborative research conducted by companies of all sizes, with involvement from universities and research centres.
- ✓ A **diversified workforce** - aerospace industry employs over 42, 000 workers
- ✓ **Cutting-edge training** - 4,800 aerospace students graduate each year

Québec's innovation for Securing Passenger Journey

We are pleased to introduce you the ***Autonomous Sanitization system for air transport*** - a global solution for the international air transport echosystem and community,

brought to you by: Maxwellian & Avianor.

AUTONOMOUS SANITIZATION FOR A SAFE PASSENGER JOURNEY

Presented by

MAXWELLIAN and Avianor

Autonomous Sanitization for the beginning of Journey



Maxwellian sanitization unit cleans
Check-in Kiosks for each passenger:

- Gives green light to a passenger to come forward
- UV washes the touch screen/kiosk in <1 min
- Gives green light to next passenger to move forward
- Has customized safety features
- Records all sanitization data/ time/ location
- Connects to cloud
- Plug & Play

All in ONE stand alone Sanitization (Patent pending)

Sensors

- Motion
- GPS
- Exposure
- Temperature
- Humidity
- 4 Extra Slots for other Sensors & Biosensors



Green Light

User signaling & safety

UV-C lights

- Adjustable exposure
- 250-280nm

IoT Units

- Micro controller
- Wireless
- AWS connectivity

Controls all MAXWELLIAN Units from Cloud & Features

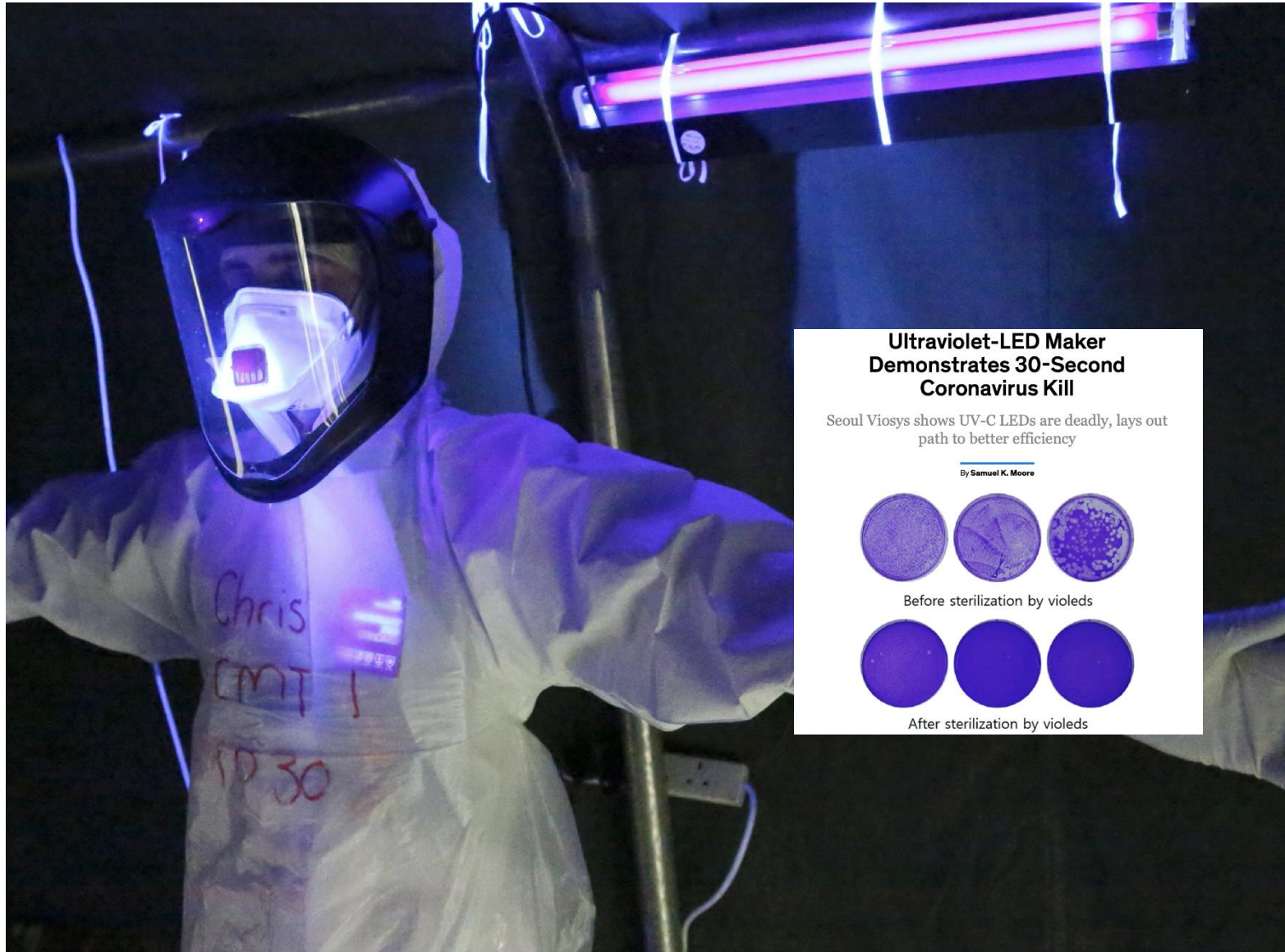
Customized UV Exposure for Different Viruses

- ✓ Coronavirus
- ✓ E-COLI
- ✓ MERSA
- ✓ Other Pathogen

Data Base

- ✓ Time
- ✓ Place
- ✓ Number of Sanitization
- ✓ Period of Sanitization
- ✓ Exposure time

Disinfecting Coronavirus + 99% of other germs



Ultraviolet-LED Maker Demonstrates 30-Second Coronavirus Kill

Seoul Viosys shows UV-C LEDs are deadly, lays out path to better efficiency

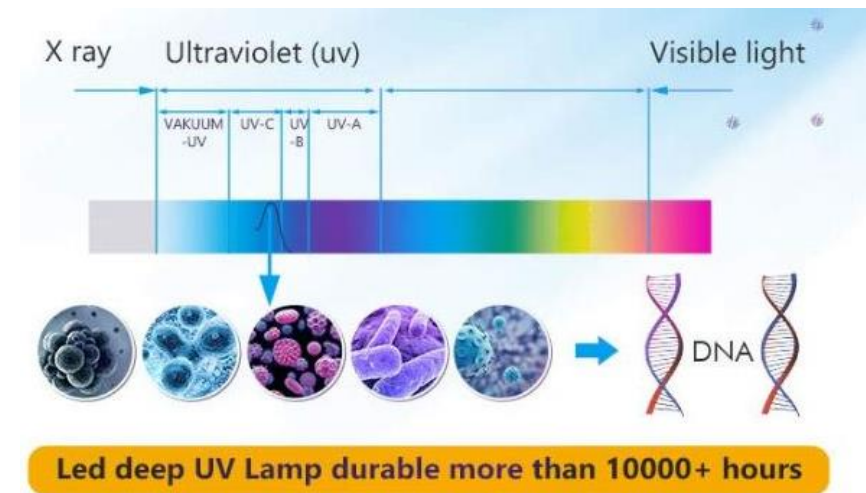
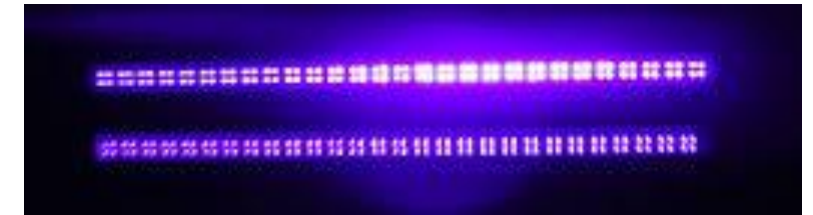
By Samuel K. Moore

Before sterilization by violeds

After sterilization by violeds

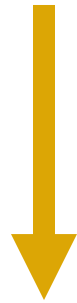
UV Sources

- UV Lamps
- UV LED



Autonomous Sanitization for Securing the Passenger Journey in Airports

Gates



Baggage Drop



Desks



New Era For Sanitization in Mobility

Maxwellian Solution is a new system for sanitization with the following advantages:

- AUTONOMOUS: not labour intensive, less human error
- MANAGABLE: monitoring all sanitization from one management center/ Data accessibility
- Efficient: UV light with customized exposure
- FAST: sanitizing all places in parallel
- SAFE: equipped with different sensors
- ADAPTABLE: for different touch points
- FLEXIBLE: for different current and future viruses

Autonomous Sanitization for Passenger Aircraft

Airplane Lavatory



Galley



SECURING THE PASSENGER JOURNEY IN AIRPLANE CABINS

Autonomous Sanitization



CORE COMPETENCY

- ✓ Autonomous IoT based optical and data collection systems for harsh environments
- ✓ 100 years of collective experience in optical technology and IoT
- ✓ Instrumentation for Aerospace Test
- ✓ Real-time IoT monitoring for Defense Infrastructures



CORE COMPETENCY

- ✓ Over 25 years of experience working with Aircraft Manufacturers, Airlines & OEM
- ✓ Part 21 manufacturer of aeronautical products
- ✓ Experts in the design, integration and certification of passenger cabin solutions
- ✓ Holder of more than 250 STCs & TSO products
- ✓ TCCA/FAA/EASA Approved Maintenance Organization (AMO) for the installation of these solutions and heavy maintenance of multiple aircraft

VISION OF CABIN SANITIZATION

Autonomous Sanitization could contribute significantly to restoring passenger's confidence in addition to other measures such as social distancing, mandatory mask...

- ✓ Passenger board a sterilized aircraft
- ✓ During flight, automated lavatory sterilization between usages



AVIANOR'S CONTRIBUTION DURING THE CRISIS

- ✓ Design, Certified, Manufactured and Installed Passenger Cabin Cargo Conversion Kits for Multiple Airlines and Airframes. Currently working on 787 solution.
- ✓ Designed multiple onboard solutions for passenger isolation during flight. Currently under review with multiple airlines.



For more information about the technology and the global solution,

please contact **Carmen Marcu**

at

Carmen.marcu@invest-quebec.com





Tim McGraw
Senior Business Technology Analyst

American Airlines 



Technology challenges

- Need to speed technologies
- Flexible and modular solution for Common Use Passenger Process Systems (CUPPS), Common Use Self Service (CUSS) kiosks and Self Service Bag drop
 - Agent counter options
 - Contactless options, Short, medium and long-term solutions
- The need for flexibility to adapt to all requirements
 - Modular add-on to self-service solutions,
 - Enabling interaction with mobile solutions.
- Why do we need technical standards ?



IATA WEBINAR

SECURING THE PASSENGER JOURNEY

Andrew Price
Head, Global Baggage
Operations



Options today for baggage operations

Outbound

- If you have the opportunity then make use of:
 - Electronic Baggage Tags
 - Home Printed Baggage Tags
 - Off-Airport services

Learn more **next week** in our webinar on:

"Prepare to Travel Contactless"

Inbound

- Allow passengers space to physically distance themselves in the arrivals hall
- Some airlines now unload the carousel and call passengers forwards.
- Use one reclaim per origin point
 - E.g. All flights from YVR to reclaim 1...

Conclusion

No single measure today can mitigate all the biosafety risks of travel

This range of measures will provide a layered solution in the immediate term

- They are achievable
- They already exist

SECURING THE PASSENGER JOURNEY

Q&A session

Thank you to our webinar Sponsor:



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strong



Flying is
the business
of **freedom**

