

Using Healthcare and Environmental Services Data Analytics for Infection Prevention

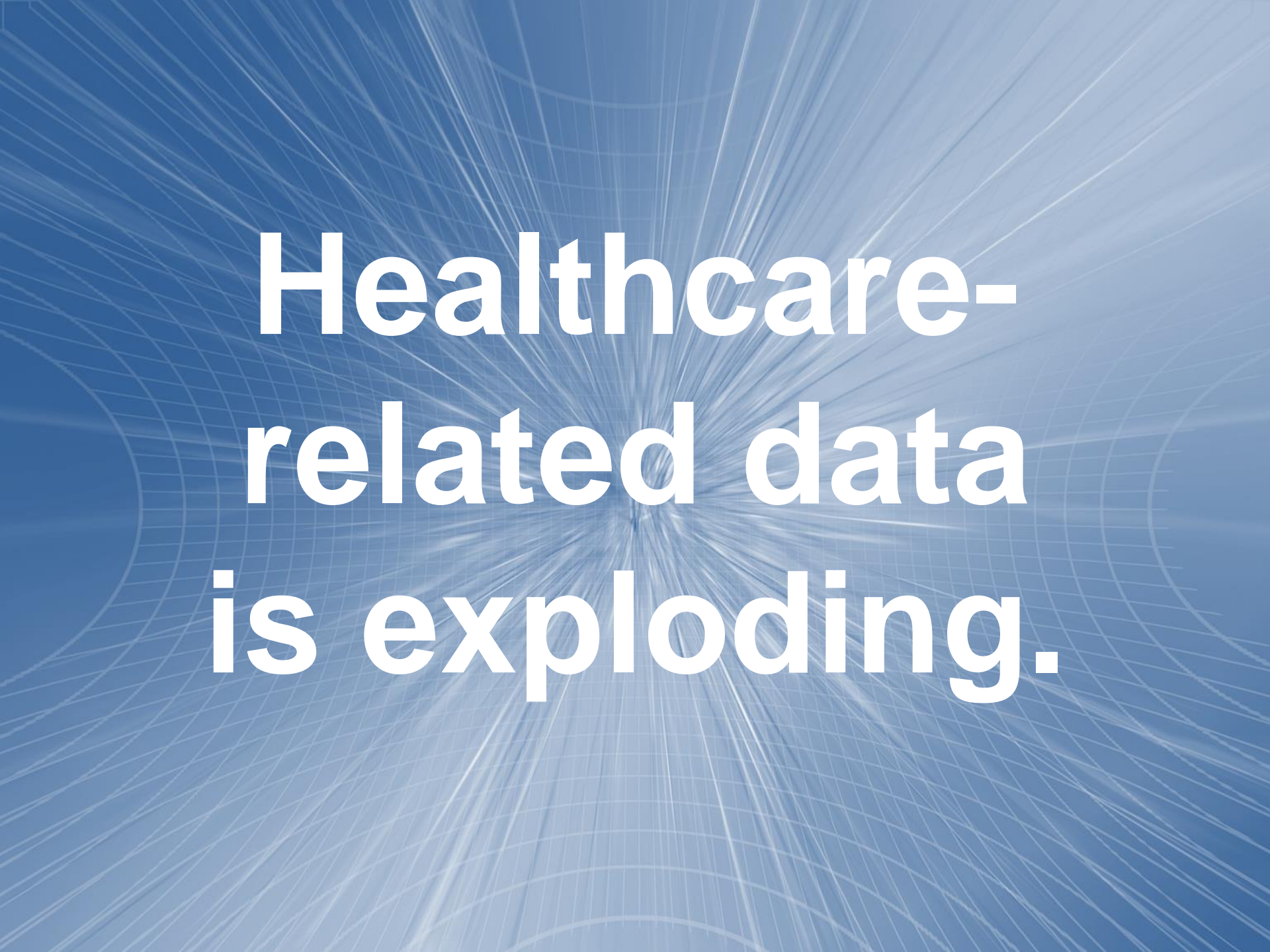


HAlvia™

©2018 HALvia, LLC

Using your ES data as an infection prevention tool...

- improves patient safety
- aids in modeling improvement impact on HAC scoring
- decreases or eliminates reimbursement penalties
- protects your staff



**Healthcare-
related data
is exploding.**

With pressures like...

Value-based Purchasing


Staff Training

*HAIs (Healthcare-Associated
Infections)*

Rising Costs

Government Requirements

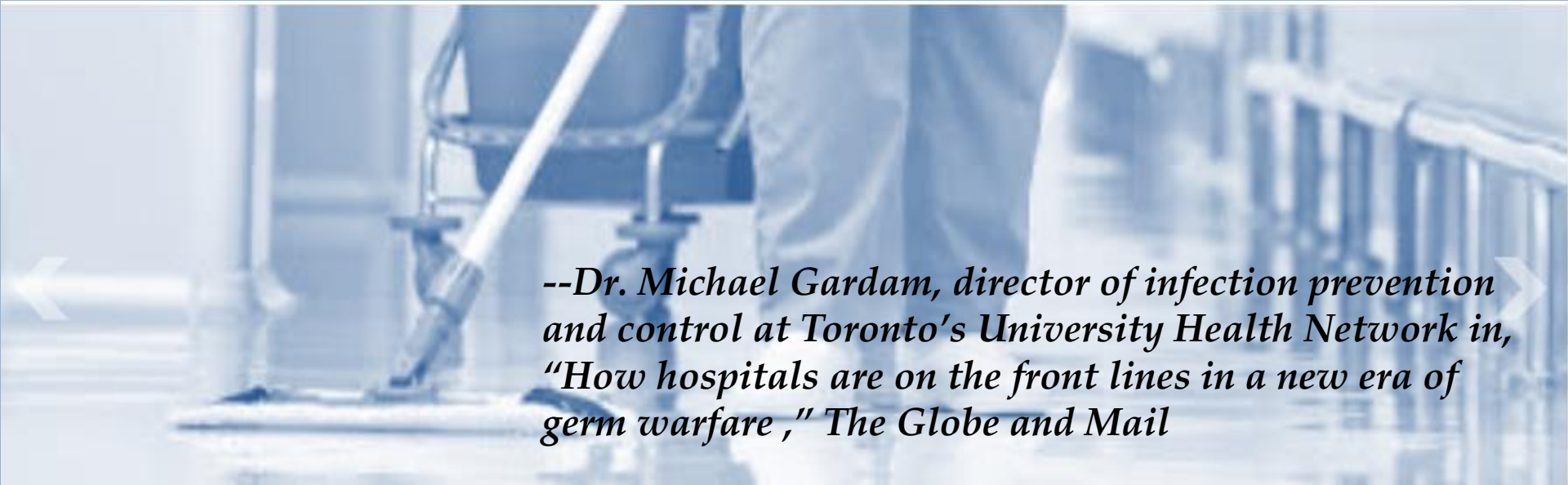
unlocking this data
is more critical
than ever.

A healthcare worker, likely a janitor or environmental services staff member, is shown in profile, mopping a highly reflective floor in a hospital corridor. She is wearing teal scrubs, white shoes, and a light blue hairnet. A blue bucket and a red bucket are on a cart behind her. The hallway is long and brightly lit, with railings visible on the right side. The text is overlaid on the right side of the image.

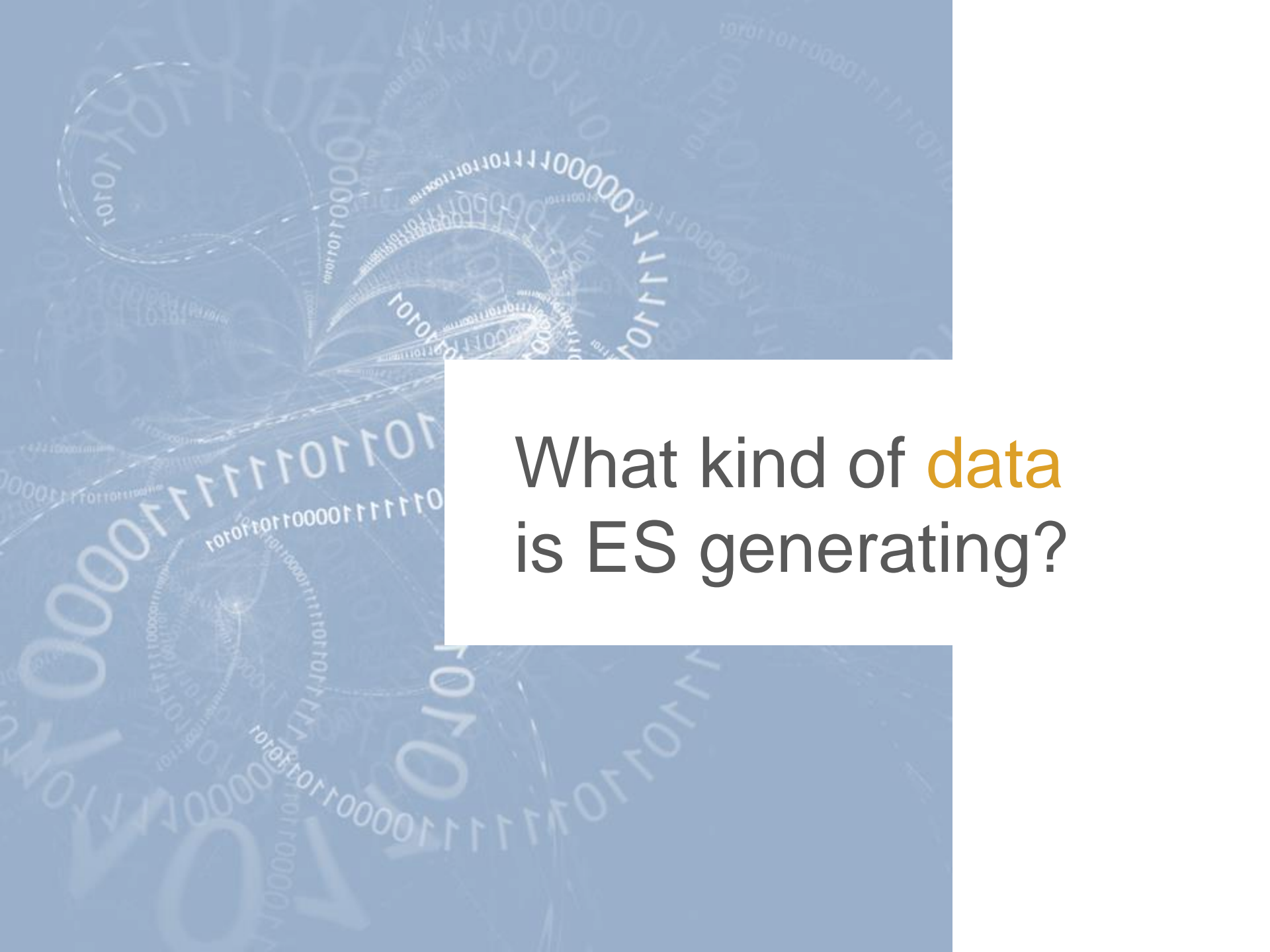
Just like other
aspects of today's
healthcare,
Environmental
Services (ES) is
generating more
and more data.

And ES is key to infection prevention

“Environmental services is not being recognized as the incredibly important patient safety initiative it is.”

A person wearing a dark uniform and gloves is using a floor cleaning machine in a hospital hallway. The machine has a long handle and a cleaning head. The hallway has a metal railing on the right side. The image is slightly blurred and has a blue tint.

--Dr. Michael Gardam, director of infection prevention and control at Toronto's University Health Network in, "How hospitals are on the front lines in a new era of germ warfare," The Globe and Mail

The background of the slide is a blue-toned abstract image. It features a dense pattern of binary code (0s and 1s) in various sizes and orientations. Overlaid on this are several glowing, white, curved lines that resemble orbits or data paths, creating a sense of dynamic movement and digital complexity.

What kind of **data**
is ES generating?

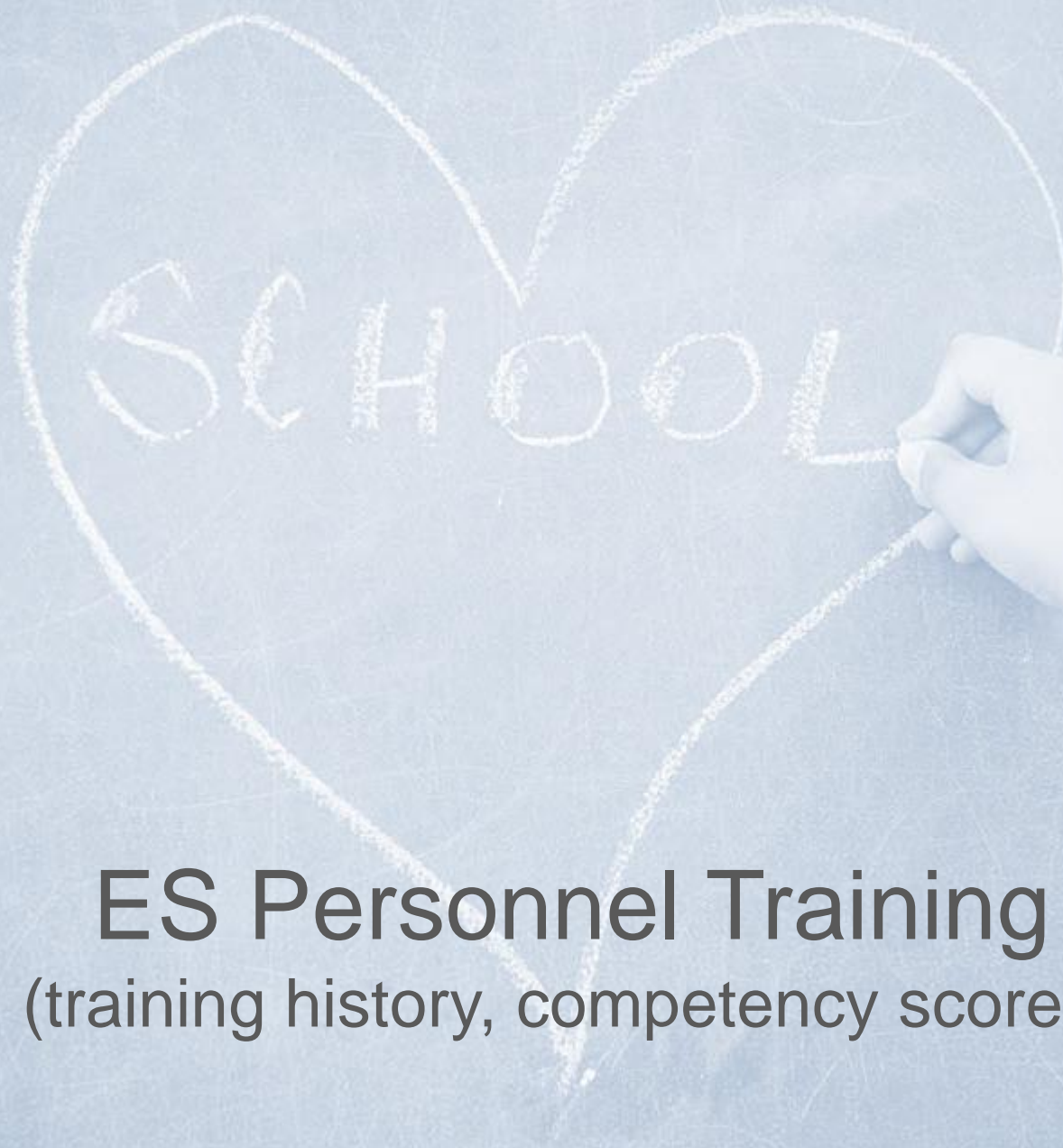
A blue-tinted photograph of cleaning supplies. In the foreground, a light blue towel hangs over a white metal rack. Behind the towel, two cleaning bottles are visible: a clear spray bottle with a black trigger and a clear liquid bottle with a black cap. A metal clothes hanger is also visible on the right side of the rack. The background is a plain, light-colored wall.

Disinfectant and Cleaning Product Usage



Disinfection Device Events

(UV-C , UVGI, and aerosol, misting or vapor devices)



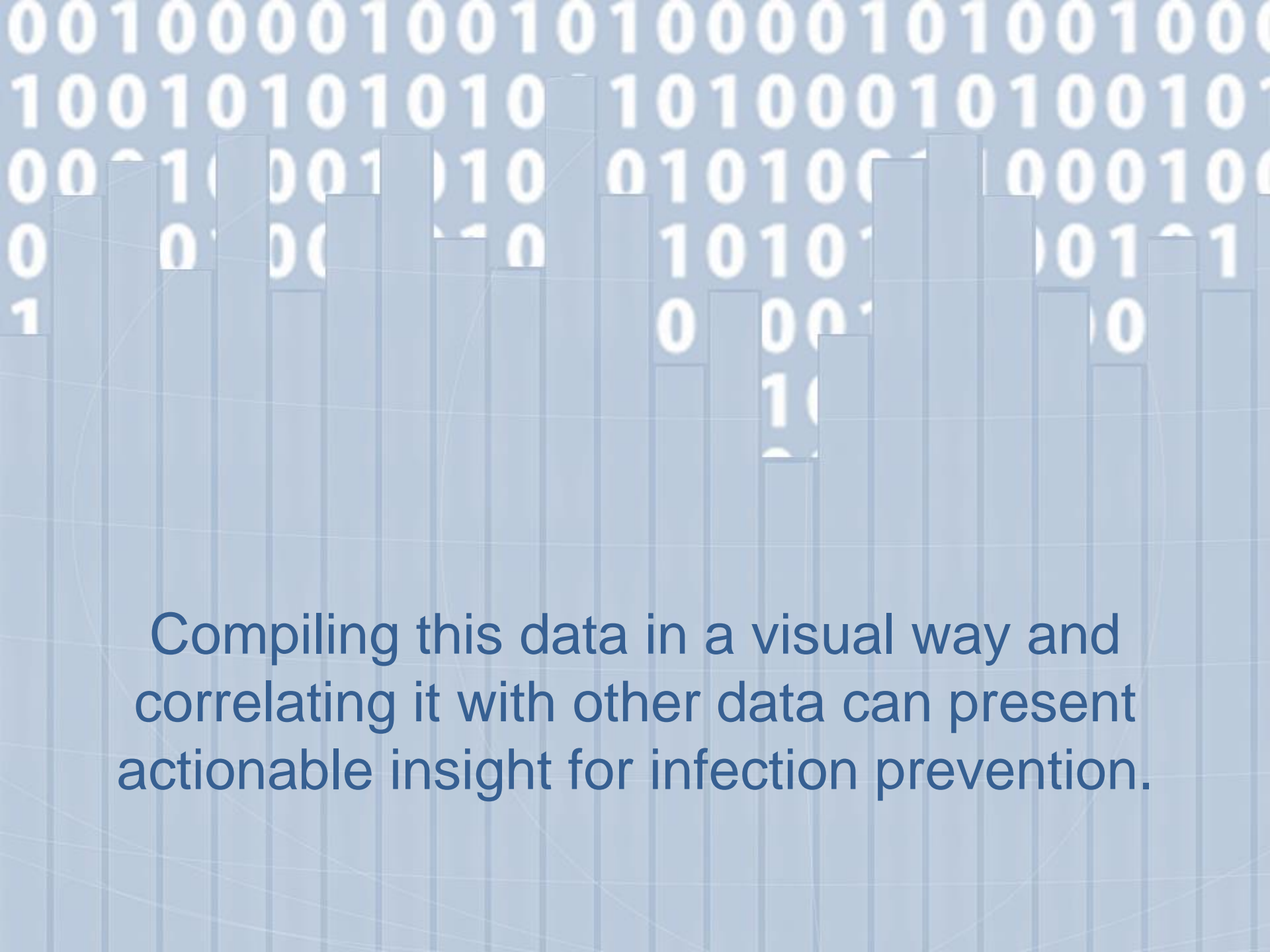
ES Personnel Training

(training history, competency scores)



Cleaning Staff Inspection Results

(fluorescent markers, swab cultures, direct observation, agar cultures, or ATP test)



Compiling this data in a visual way and correlating it with other data can present actionable insight for infection prevention.

Turning the Data into Action

Quality Control:
Infection Data

Facilities:
Room Mapping

Human Resources:
Cleaning Personnel

Spot infection control problems with rooms or environmental services personnel or procedures quickly.

Turning the Data into Action

The background of the slide features a soft-focus photograph of three apples resting on a desk. Behind the apples are several books, and in the foreground, a white marker and a pen are visible. The entire scene is overlaid with a semi-transparent blue geometric pattern consisting of large triangles pointing towards the center.

Quality Control:
Room Inspection Data

Quickly detect
employees
needing training
and assign it
automatically.

Training

Human Resources:
Cleaning Personnel

Quality Control:
Infection Data

Turning the Data into Action

Facilities:
Room Mapping

Determine optimization
and efficacy of
disinfectant device use.

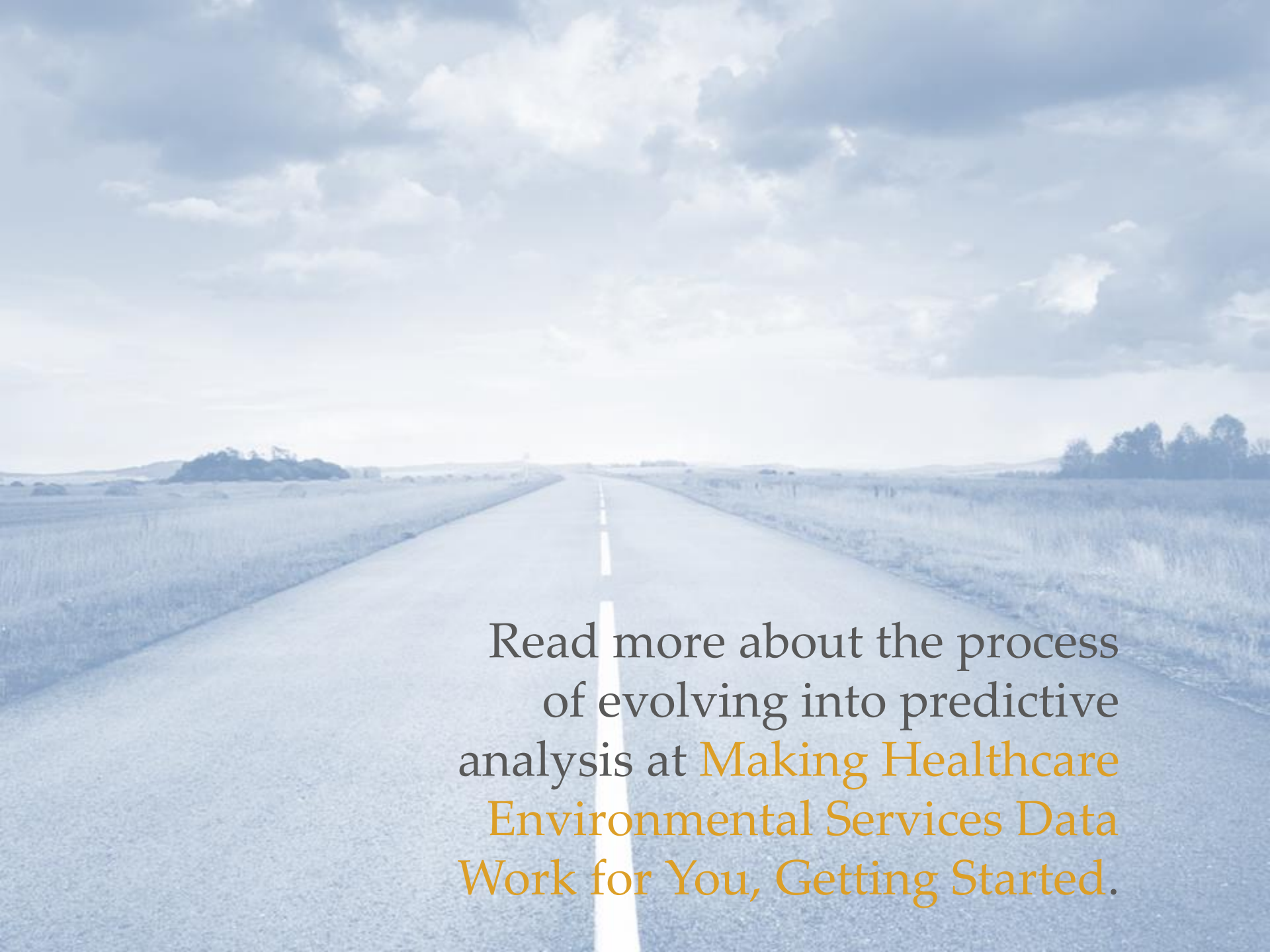
ES:
Disinfectant Device
Event

A scenic landscape featuring a winding asphalt road that curves through a valley. On the left, a steep, rocky mountain slope rises. In the distance, a body of water is visible under a sky filled with soft, white clouds. The overall scene is bright and airy, with a light blue tint.

So How Do You Get Started?

So How Do You Get Started?

The road from
data capture
to **data presentation**
to **data insight**
is often not a straight line.

A blue-tinted photograph of a long, straight road stretching into the distance under a cloudy sky. The road has a white dashed line down the center and is flanked by grassy fields. The sky is filled with large, white clouds.

Read more about the process
of evolving into predictive
analysis at [Making Healthcare
Environmental Services Data
Work for You, Getting Started.](#)



*Visualizing and Managing Infection
Prevention for Environmental
Services in over 500 hospitals*



*Increase your value-based payments,
call for a demonstration.*



Email the author

HALvia is a data analytics and
capture application provider
and developer.

www.haivia.com

info@haivia.com

480-616-1190

