HORIZON

Opportunity

Approach

Horizon

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OPPORTUNITY

In 2022, the U.S. DOE announced **the phasing out of T8 fluorescent tube bulbs** by January 1, 2023.

Underfunded facilities may be **stuck** with T8 bulbs, which are **less efficient and environmentally friendly.**

This can lead to **higher energy bills, pollution,** and a **less comfortable** work environment.

Utilize phased-out T8 bulbs to improve the environmental footprint and enhances safety of underfunded facilities?

APPROACH

Shooter Evacuation

Fire Evacuation

Disaster Evacuation

Shooter Evacuation
Fire Evacuation
Disaster Evacuation

Shooter
Evacuation
Fire
Evacuation
Disaster
Evacuation

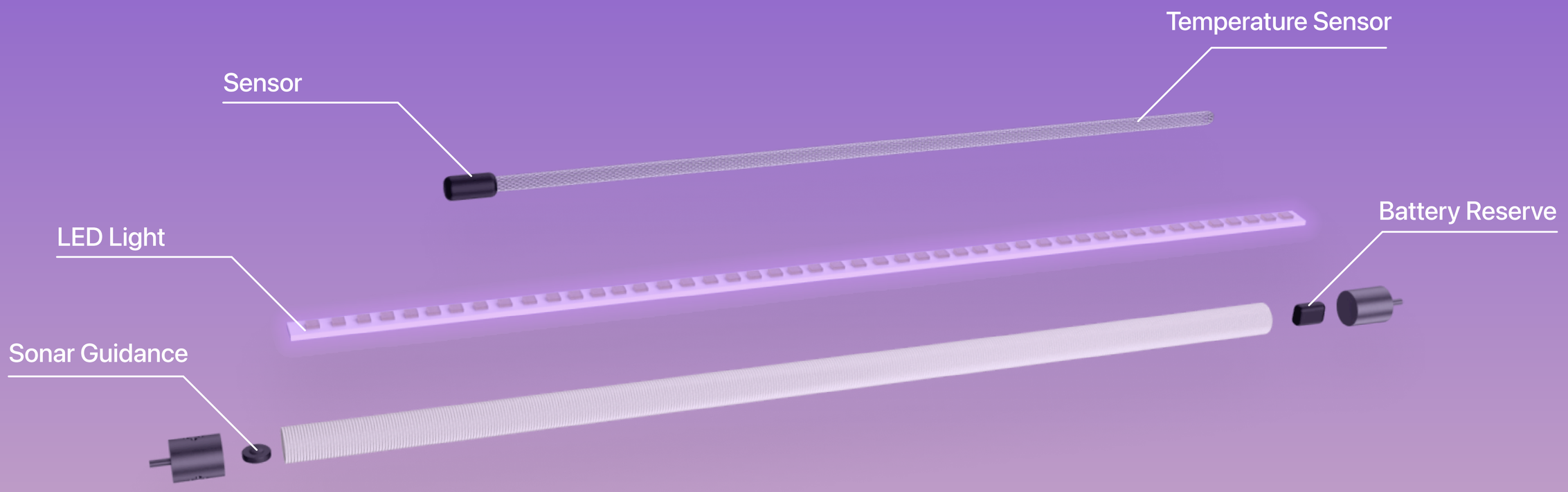
Sustainable
Business Model

Circular
Product Lifespan

Sustainable
Business Model

Circular
Product Lifespan

HORIZON



Adaptive Lighting

Network sensors enable threat specific evacuation adaptation plans to be created in real time, to optimize evacuation plans.

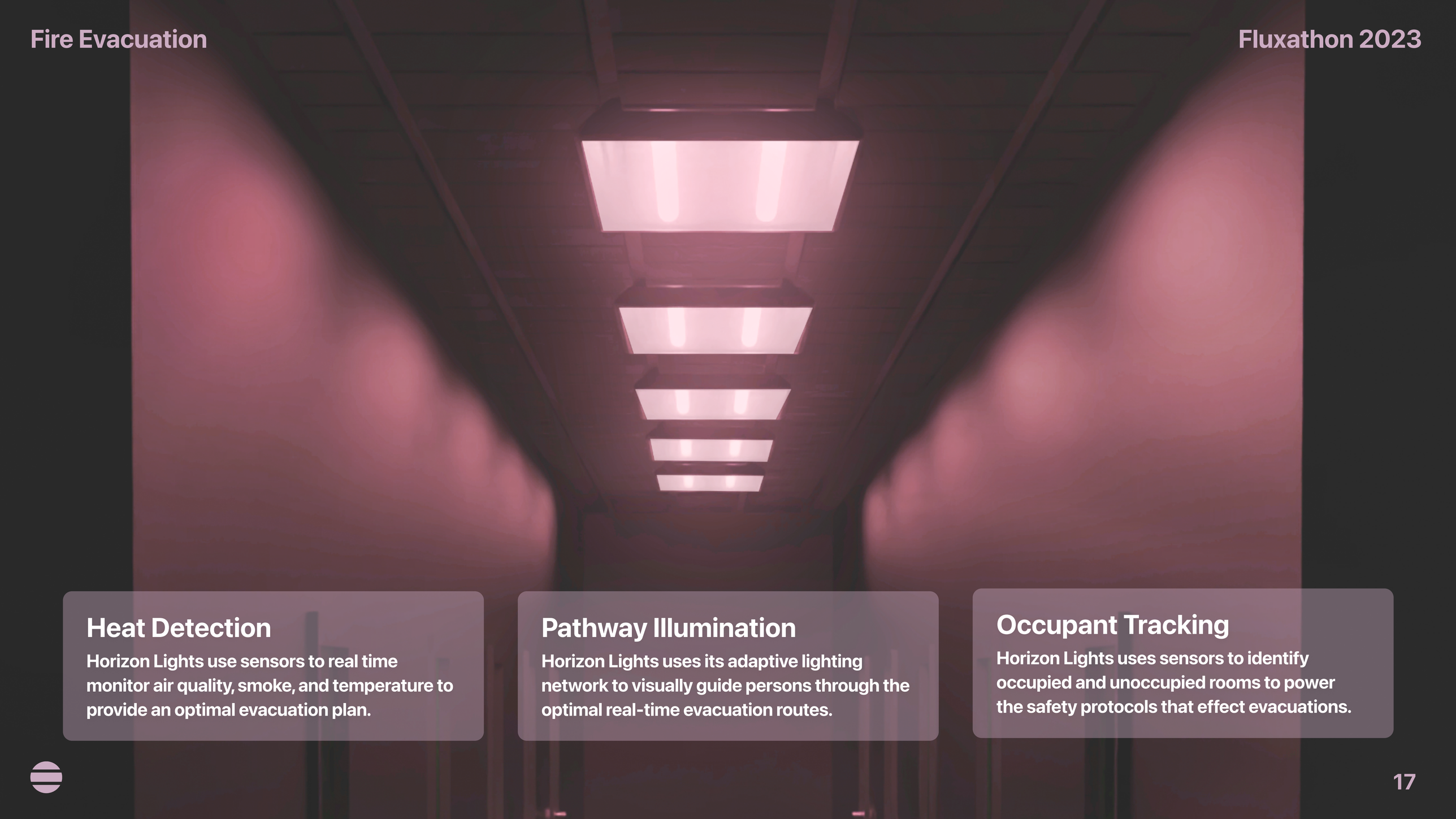
Sonar Guiding

Horizon lights use Sonar Sound Pathways to guide and enable a heightened evacuation experience for the visually impaired.

Battery Reserve

Horizon lights includes active energy reserves so emergency lighting can guide those out of a facility regardless of electricity access.

Recycled T8's → Repurposed T8's → Updated T8's



Heat Detection

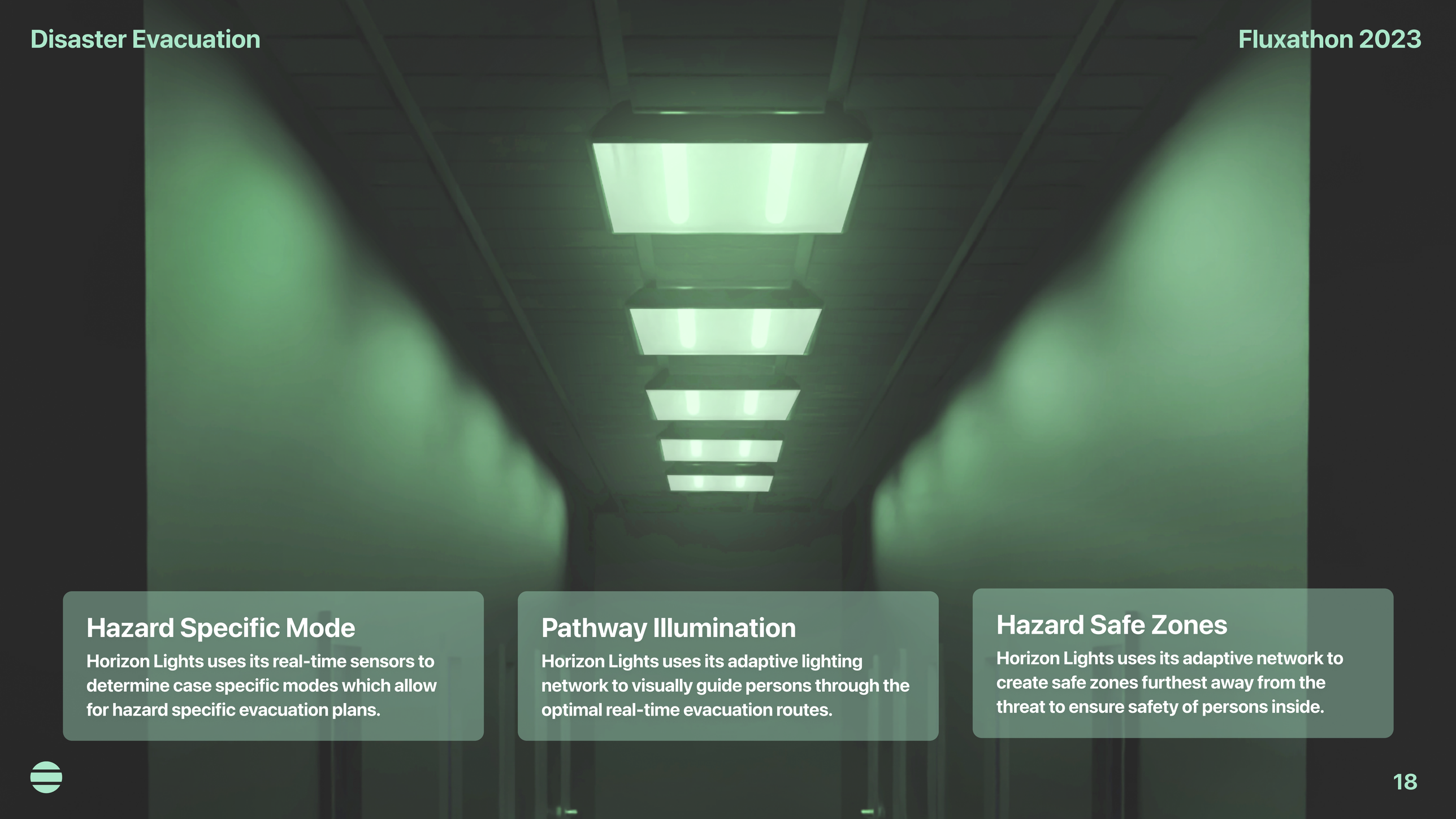
Horizon Lights use sensors to real time monitor air quality, smoke, and temperature to provide an optimal evacuation plan.

Pathway Illumination

Horizon Lights uses its adaptive lighting network to visually guide persons through the optimal real-time evacuation routes.

Occupant Tracking

Horizon Lights uses sensors to identify occupied and unoccupied rooms to power the safety protocols that effect evacuations.



Hazard Specific Mode

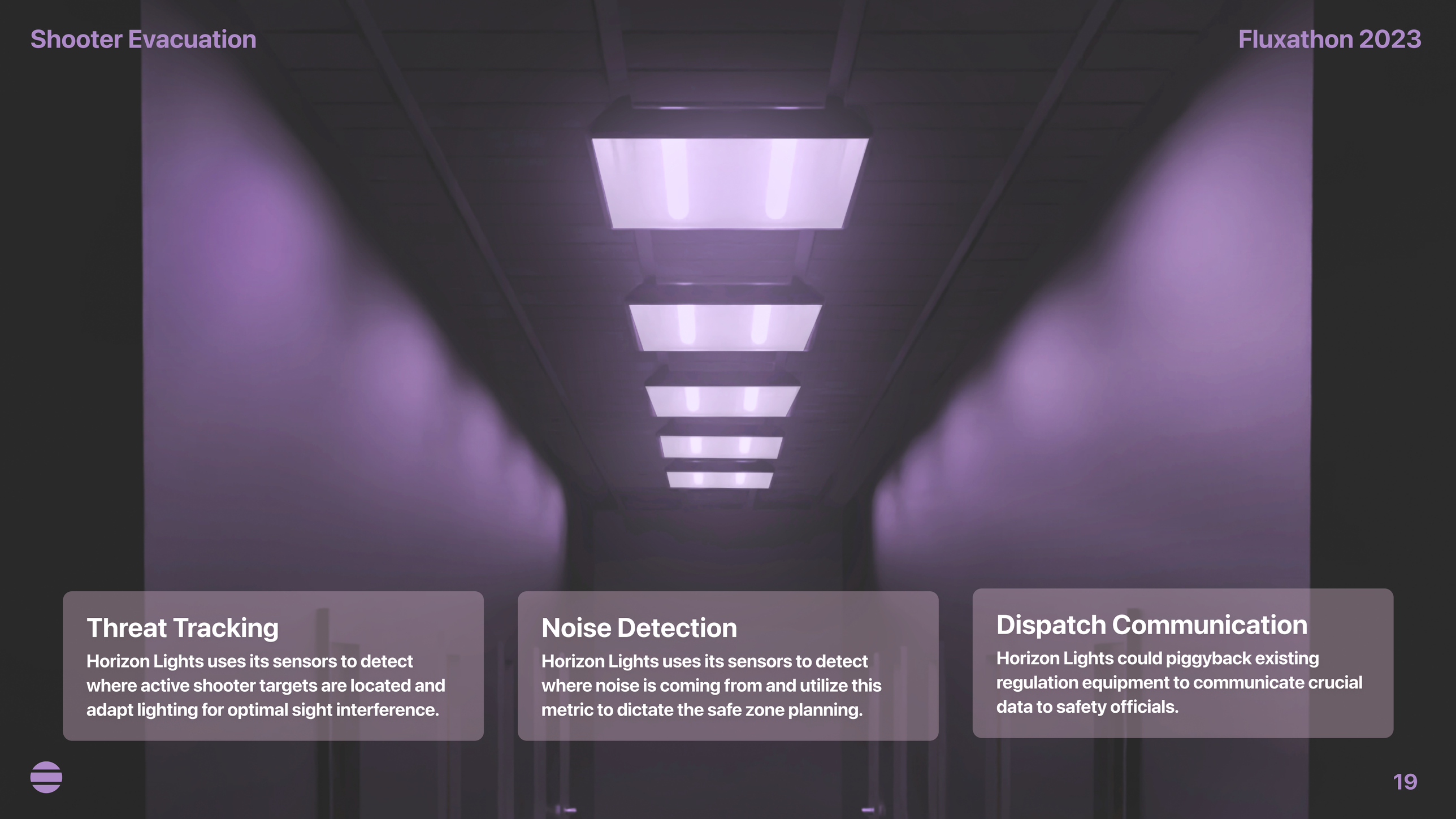
Horizon Lights uses its real-time sensors to determine case specific modes which allow for hazard specific evacuation plans.

Pathway Illumination

Horizon Lights uses its adaptive lighting network to visually guide persons through the optimal real-time evacuation routes.

Hazard Safe Zones

Horizon Lights uses its adaptive network to create safe zones furthest away from the threat to ensure safety of persons inside.



Threat Tracking

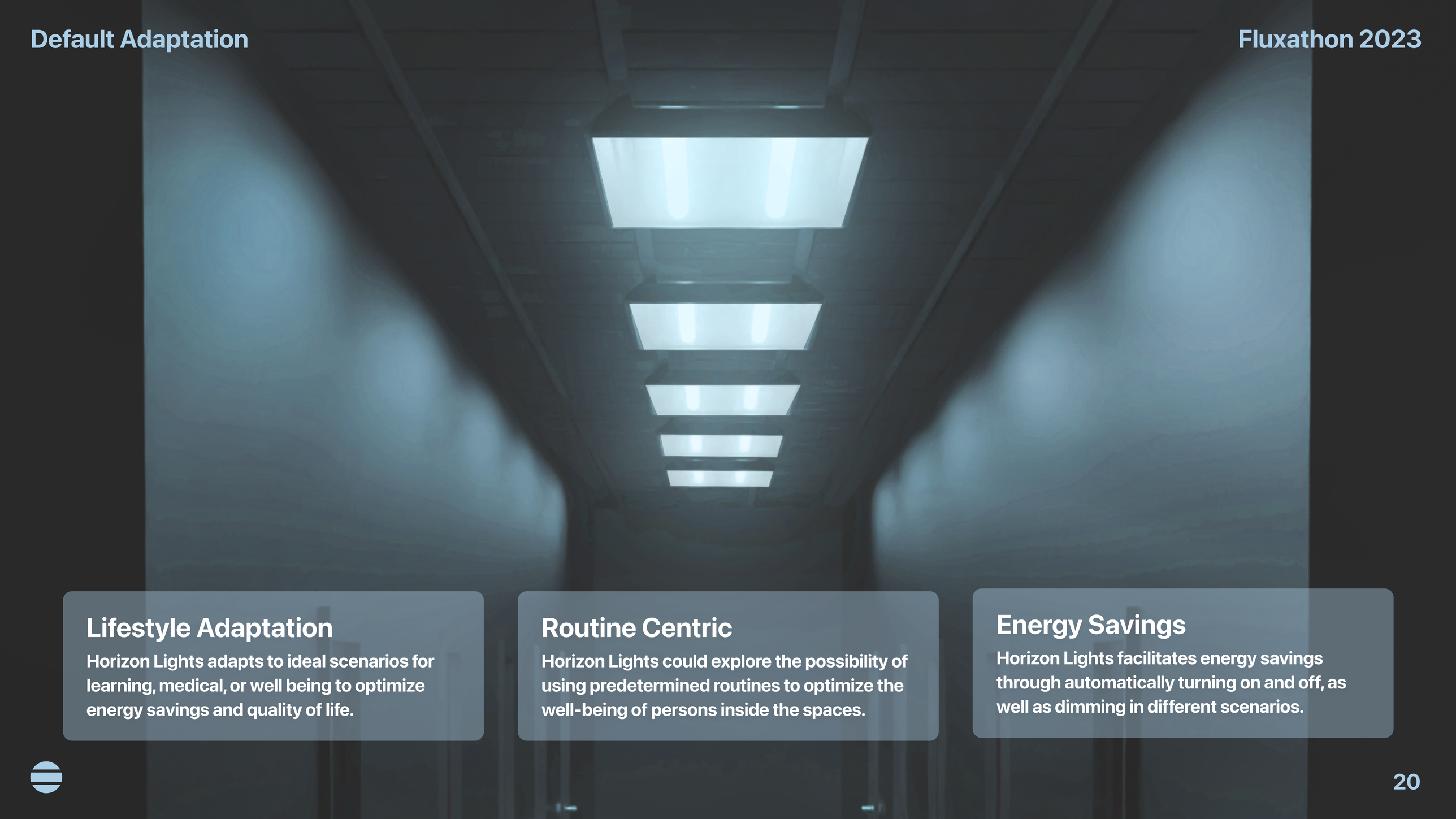
Horizon Lights uses its sensors to detect where active shooter targets are located and adapt lighting for optimal sight interference.

Noise Detection

Horizon Lights uses its sensors to detect where noise is coming from and utilize this metric to dictate the safe zone planning.

Dispatch Communication

Horizon Lights could piggyback existing regulation equipment to communicate crucial data to safety officials.



Lifestyle Adaptation

Horizon Lights adapts to ideal scenarios for learning, medical, or well being to optimize energy savings and quality of life.

Routine Centric

Horizon Lights could explore the possibility of using predetermined routines to optimize the well-being of persons inside the spaces.

Energy Savings

Horizon Lights facilitates energy savings through automatically turning on and off, as well as dimming in different scenarios.

RADIATE THE PATH TO A NEW HORIZON