

GRASP innovations

we empower security to be agile



GRASP your healthcare insights

- Monitors **breathing, heart rate, movement, and presence**
- Captures vitals at-rest through blankets, clothing, and more
- 100% contactless monitoring, no wearables required

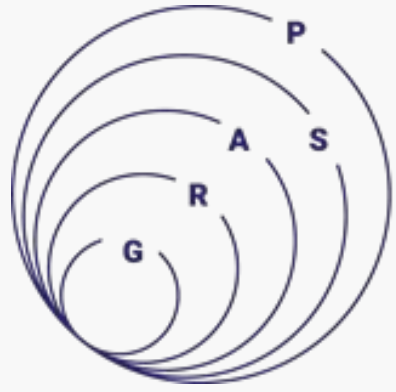
**130° Field
of View**

**33 ft
Max Range**

**40x Safer
Than WiFi**

**FDA 510(k)
Cleared**





15 Million impulses per second

The radar emits **15 million impulses every second** to capture micro and nano vibrational patterns in the cell, including those emitted from the human body, safely.

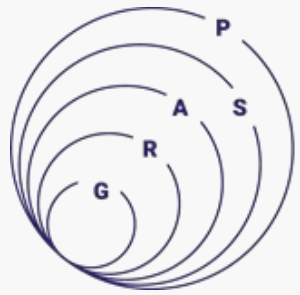
Movement



Vitals

The sensor works from big readings to miniature readings. The sensor detects movement first. If no movement is detected, it automatically switches from **motion** to **vitals**.





Medical grade accuracy

The technology is the world's first **FDA 510(k) cleared** class II medical device for capturing resting heart rate, resting respiratory rate, body motion and presence. And it captures vital signs with the accuracy of **hospital-grade equipment**.



*The device accuracy is +/- 1.08 bpm as compared with EKG
and +/- 1.18 breaths/min as compared to ETCO2 mask.
Impulses do not penetrate concrete, metal, or water.*



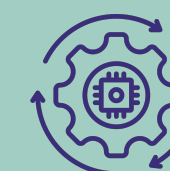
CONTACT FREE

There are no patches, wrist bands, or other sensor connected to the body.



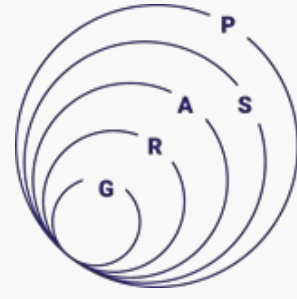
CONTINUOUS

The device is continuously operating whether the bed is empty or occupied. The algorithm can automatically detect when the body is at rest and will only capture vitals when the signal qualification score requirements have been met.



AUTONOMOUS

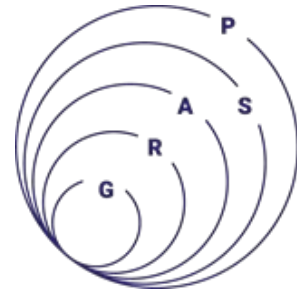
No staff intervention is required to operate the radar. Alerts will automatically be generated when the system detects an issue with the subject.



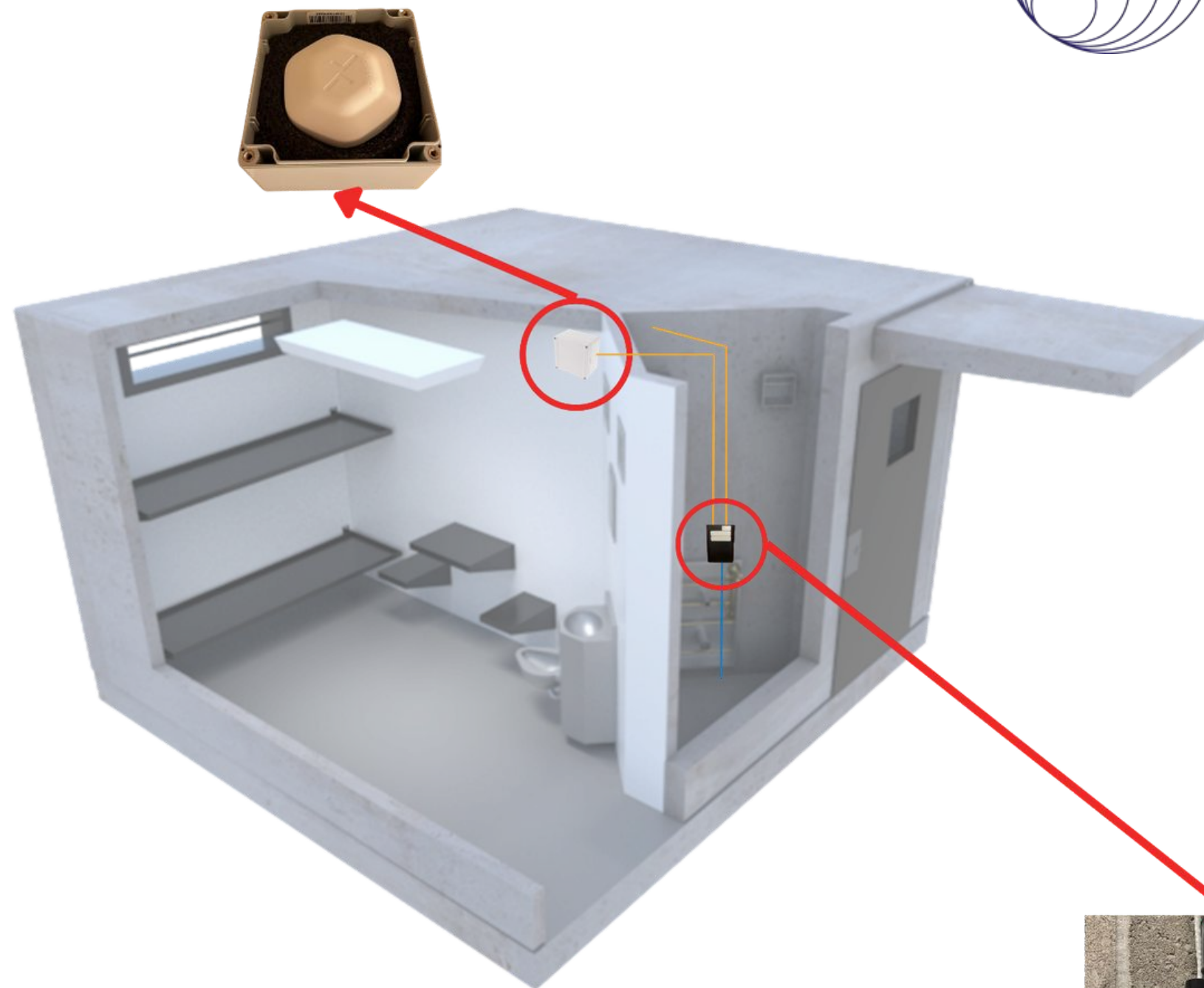
Identifying a heart attack





The sensor detects a reduction in breathing rate in real-time and alerts medical staff of the problem, allowing time for successful intervention.



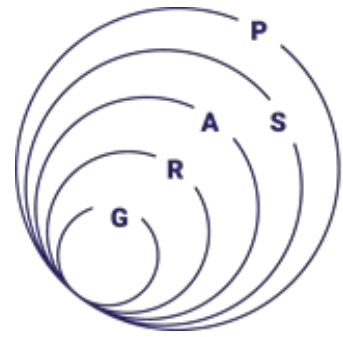
Sensor Deployments



-  Cat 6 sensor -> gateway
-  Cat 6 gateway -> network switch

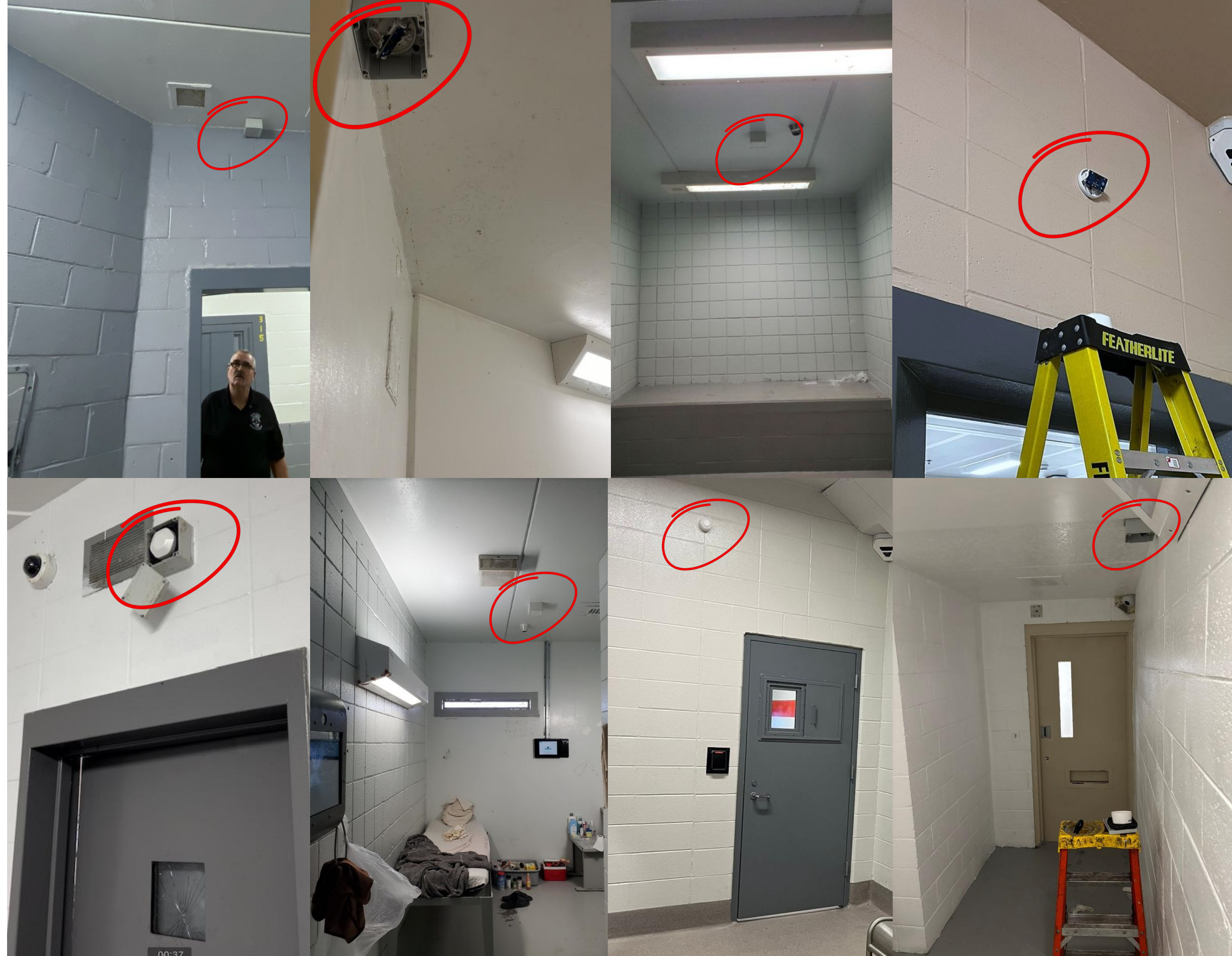
- The sensors are powered by a **gateway**.
- The gateway provides power and communication for **two sensors**.
- The gateway requires **power and a network connection** to the facilities network switch.
- Wi-Fi is an option** if the facilities network is stable and reaches into the areas where gateways are installed.



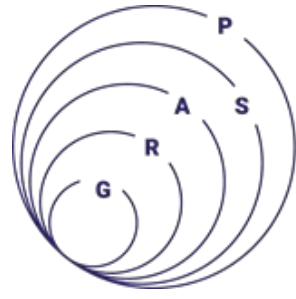


Installation

Our installation team develops custom installations for each facility. Walls or ceilings can house sensor units.



*Examples from our jail-deployments for demonstration purposes



What our customers are saying...

"We had an inmate who would claim to go into a seizure state and get all tense and unresponsive. We placed him in our cell with the Sensor and we could tell that he was just fine all his vitals stayed in the normal range the entire time".

Harper County Jail, KS

"It's monitoring them constantly, not just when I go and look in the little window to do my timely check. Just really innovative and will really help those who are coming in."

Thurston County, WA

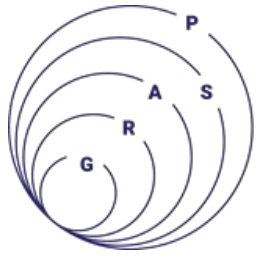
While we haven't had any confirmed saves yet, we definitely appreciate the peace of mind that the sensors allow us throughout the course of our duties.

La Plata County, CO

"What kind of check are you going to write if someone dies in jail? "I think it's important to commit to the technology for our staff... We can't afford not to"

Davidson County, SD





Sensor in action

Walker County, Alabama Case Study



At a glance

Officers at the Walker County Jail in Alabama were alerted by the sensor system that an inmate was experiencing a critical medical emergency. Thanks to the automatic alert and real-time monitoring dashboard, an officer responded immediately, administered Narcan, and helped save the inmate's life.

"Officer Franklin Sherer's quick thinking and dedication exemplify the core values of our department. The system has proven to be an invaluable tool in enhancing community safety, and we are proud to see its effectiveness in action."

Nick Smith, Walker County Sheriff



Real-Time Monitorin



Critical Alerts



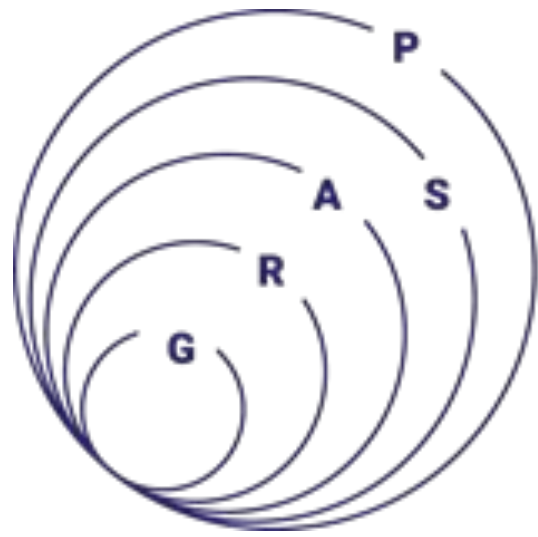
Enhanced Safety

BENEFIT

- 1 Critical Alerts**
"Orange Alerts" notify officers the moment a vital sign falls below safe thresholds.
- 2 Enhanced Safety**
Officers can respond immediately, even when not physically present in the cell.
- 3 Autonomous Monitoring**
No wearables or manual input required. The system works 24/7 with no gaps.
- 4 Proven Life-Saving Technology**
Enabled due to the combined power of XK300 technology and rapid staff intervention.



Thank You



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