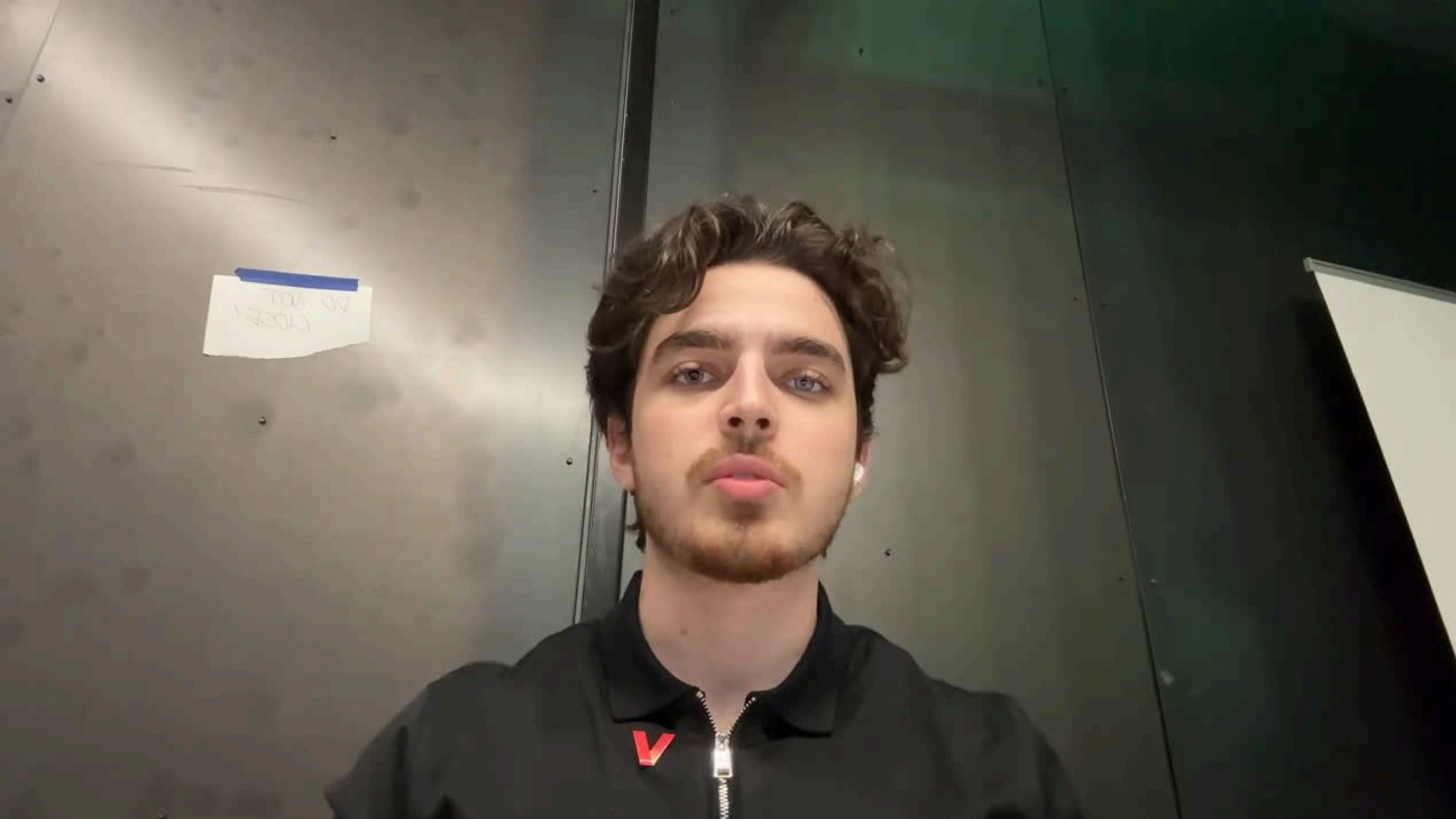
VeriSmart

By: Mucteba Ekizoglu, Sammy Elhindi, Ihsan Duru, Sefik Battal, Abdullah Uzer

replit.com



Problem Statement



gemini.google.com

Competitors

seechange

Ambient.ai

SCYLLA

Veri Smart

CORAM

Verkada

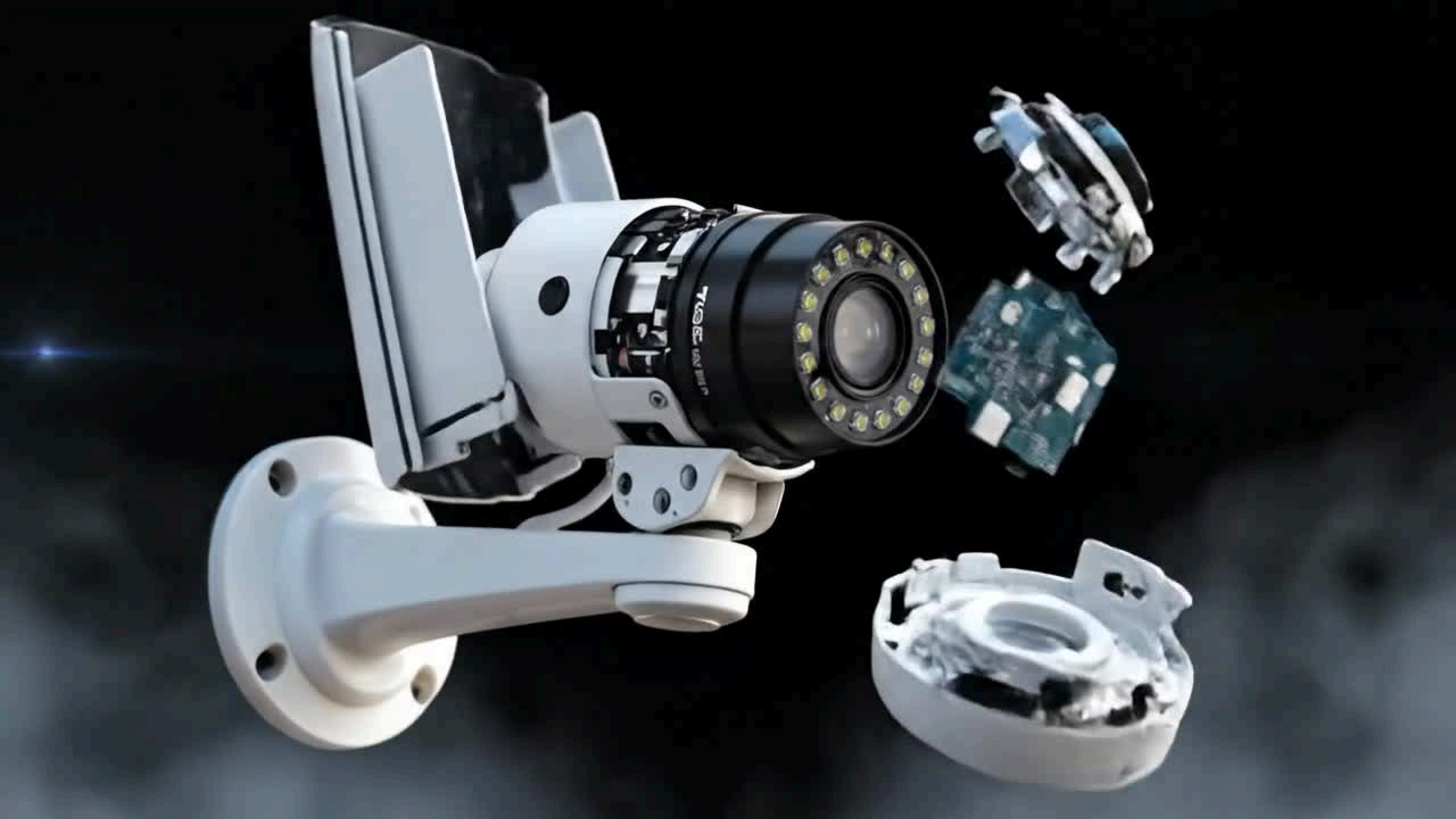
VeriSmart Competitive Comparison

AI-POWERED ENVIRONMENTAL DETECTION · FACILITY OPERATIONS · CAMPUS SAFETY

CAPABILITY	VeriSmart	Ambient.ai	Verkada	SeeChange	Coram AI	Scylla AI
Spill Detection	✓	✗	✗	✓	✗	✗
Trash / Litter Detection	✓	✗	✗	✗	✗	~
Broken Fixture / Maintenance	✓	✗	✗	✗	✗	✗
Auto Facilities Ticketing	✓	✗	✗	✗	✗	✗
Works with Existing Cameras	✓	✓	~	✓	✓	✓
Edge Processing	✓	✓	✓	✓	✓	✓
Privacy-First Design	✓	✓	~	~	~	~
5G Connectivity	✓	✗	✗	✗	✗	✗
Campus / University Focus	✓	✗	✗	✗	✗	✗
IoT Sensor Integration	✓	~	~	~	~	✗
SCORE	**10 / 10**	4 / 10	3 / 10	4 / 10	3 / 10	2 / 10

✓ Supported ~ Partial ✗ Not Supported

Source: ambient.ai, verkada.com, seechange.com, coram.ai, scylla.ai, claude.ai





SOLUTION



SOLUTION

Spill detected – Study Room 204 New

Type: Liquid spill (desk area)
Location: Library – 2nd Floor

High Today, 2:17 PM

Camera 3 – Indoor

Litter detected – North Campus Walkway Open

Type: Cleanliness issue
Location: North Walkway

Medium Today, 1:42 PM

Camera 7 – Outdoor

Trash bin full – Student Union 1st Floor New

Type: Overflowing bin
Location: Student Union – Food Court

Medium Today, 12:05 PM

Camera 12 – Indoor

Fill level: 94% – Auto-detected

Flickering light – Hallway B West In Progress

Type: Electrical issue
Location: Building B – West Wing

Low Today, 9:30 AM

Camera 15 – Indoor

Broken chair – Lecture Hall A113 Open

Type: Furniture damage
Location: Academic Building A

Low Yesterday, 4:22 PM

Camera 22 – Indoor

Spill detected – Study Room 204 New High

AI detected liquid spill on study desk requiring immediate attention.

Issue ID
VS-2043

Type
Liquid spill (desk area)

Location
Library – 2nd Floor

Detected By
VeriSmart AI

Source Camera
Camera 3 – Indoor

Detected Time
Today, 2:17 PM

Risk Category
Safety risk

Event Snapshot



Actions

Assign to team

Select team

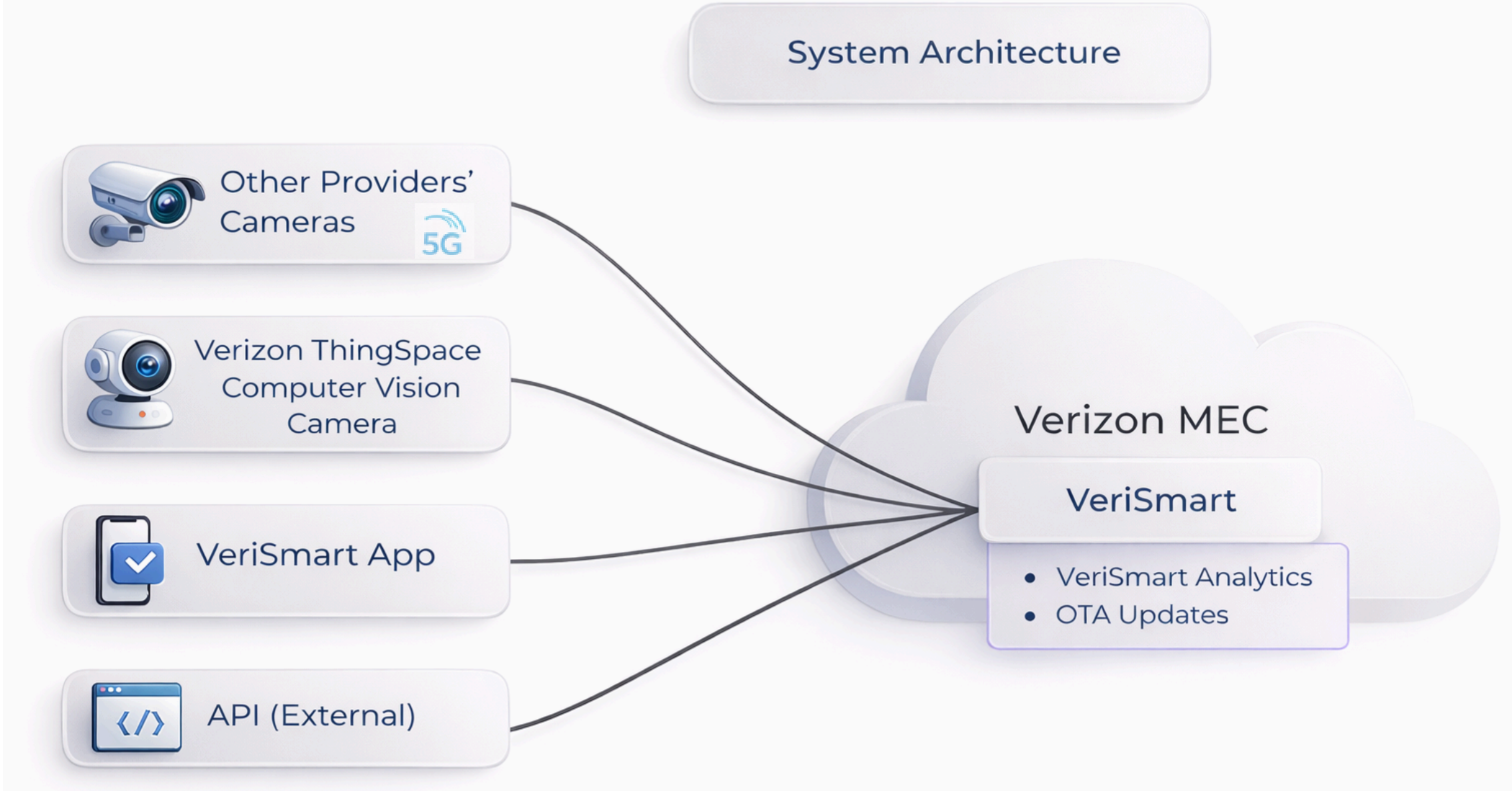
Mark In Progress

Resolve

PRIVACY AND SECURITY



System Architecture



www.chatgpt.com

ESTIMATED COST

Cost Category	Item	Estimated Price	Frequency
Upfront Hardware	Camera	$160 – $600 per unit	One-time
Upfront Hardware	Installation & Setup	$100 – $200 per unit	One-time
Total Est. One-time	**All-in Cost**	**$260 - $800**	**One-time**
Connectivity	ThingSpace Data Plan	$15 – $22 per device	Monthly
AI Processing	Verizon MEC License	$5 – $10 per "seat" or stream	Monthly
Platform Fee	VeriSmart Dashboard & Analytics	$10 – $20 per unit	Monthly
Total Est. Monthly	**All-in Service (per unit)**	**$30 – $50**	**Monthly**

https://thingspace.verizon.com/start
https://www.verizon.com/plans/devices/security-cameras/

VeriSmart Impact Drivers

Verified statistics

Safety & Risk

479,480

work cases involving falls/slips/trips (2024)

BLS latest numbers list DAFW cases involving falls, slips, and trips as one of the biggest injury categories.

Source: U.S. BLS (IIF Latest Numbers, 2024)

844

fatal work injuries from falls/slips/trips (2024)

Fatal falls, slips, and trips remain a major risk category, which supports rapid hazard detection messaging.

Source: U.S. BLS (CFOI, 2024)

$54,499

avg workers' comp cost for falls/slips

NSC reports average lost-time workers' compensation cost for falls or slips in 2022-2023 claims data.

Source: NSC Injury Facts / NCCI

Operations & Cost

VeriSmart

$1 -> $4

preventive maintenance savings

EPA school guidance states every dollar spent on preventive maintenance yields four dollars in savings.

Source: U.S. EPA IAQ Tools for Schools

Passive -> Active

camera systems are often reactive

VeriSmart upgrades existing cameras into real-time alerts so issues get detected before they escalate.

Source: VeriSmart framing (project value proposition)

Campus Context

60%

students considered campus safety in school choice

BestColleges survey found campus safety influenced college selection for a majority of respondents.

Source: BestColleges Campus Safety Survey

74%

current students say they feel safe overall

Even with a majority feeling safe, campuses are still expected to improve visibility and response.

Source: BestColleges Campus Safety Survey

57%

say colleges should do more on safety

This supports a smart-campus monitoring solution focused on faster response and issue escalation.

Source: BestColleges Campus Safety Survey

IMPACT



www.freepik.com

SAVINGS AND SAFETY

COST OF PREVENTABLE WORKPLACE INJURIES (U.S.)

- $175B+ annual total workplace injury cost
- 100M+ lost workdays per year
- Well-being of employees effected

PER EMPLOYEE IMPACT

- Around $1,200 per employee
- 90,000 employees → cost over $100M annually

NET SAVINGS

- Considering just 10% reduction in preventable incidents using VeriSmart
= around $120 savings per employee annually
90,000 employees →$10M+ annual savings
and this is without including lower legal costs.

https://www.bls.gov/iif/
https://injuryfacts.nsc.org/work/costs/work-injury-costs/

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