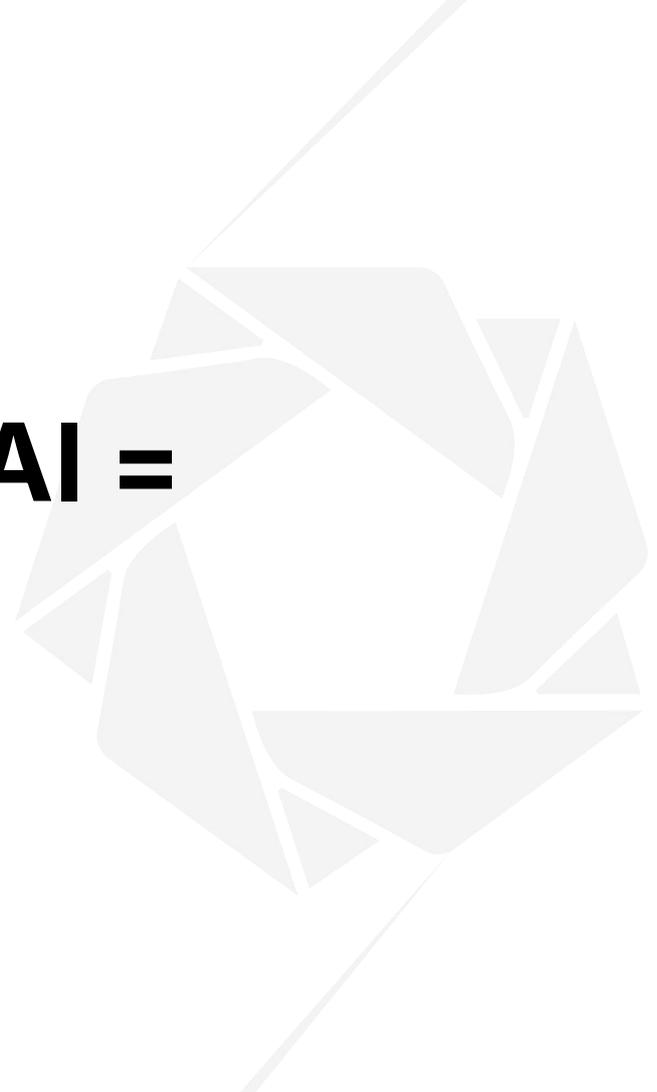


**| Reality Capture + AI =**  
*Construction Intelligence*

**BIM Gathering 25**

**Vinnie Quinn**

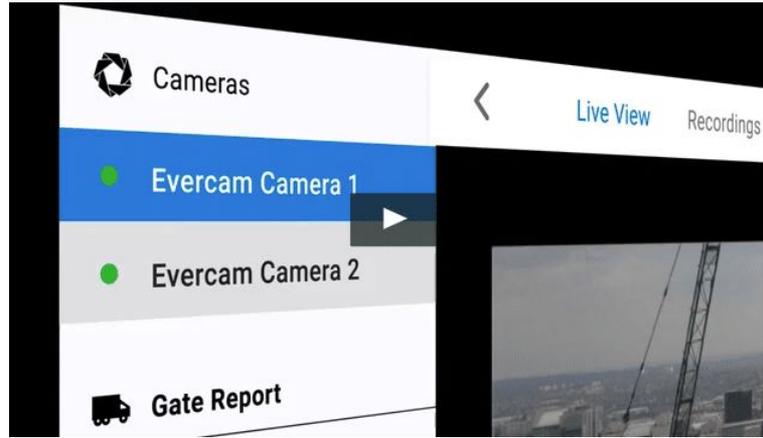


# Evercam

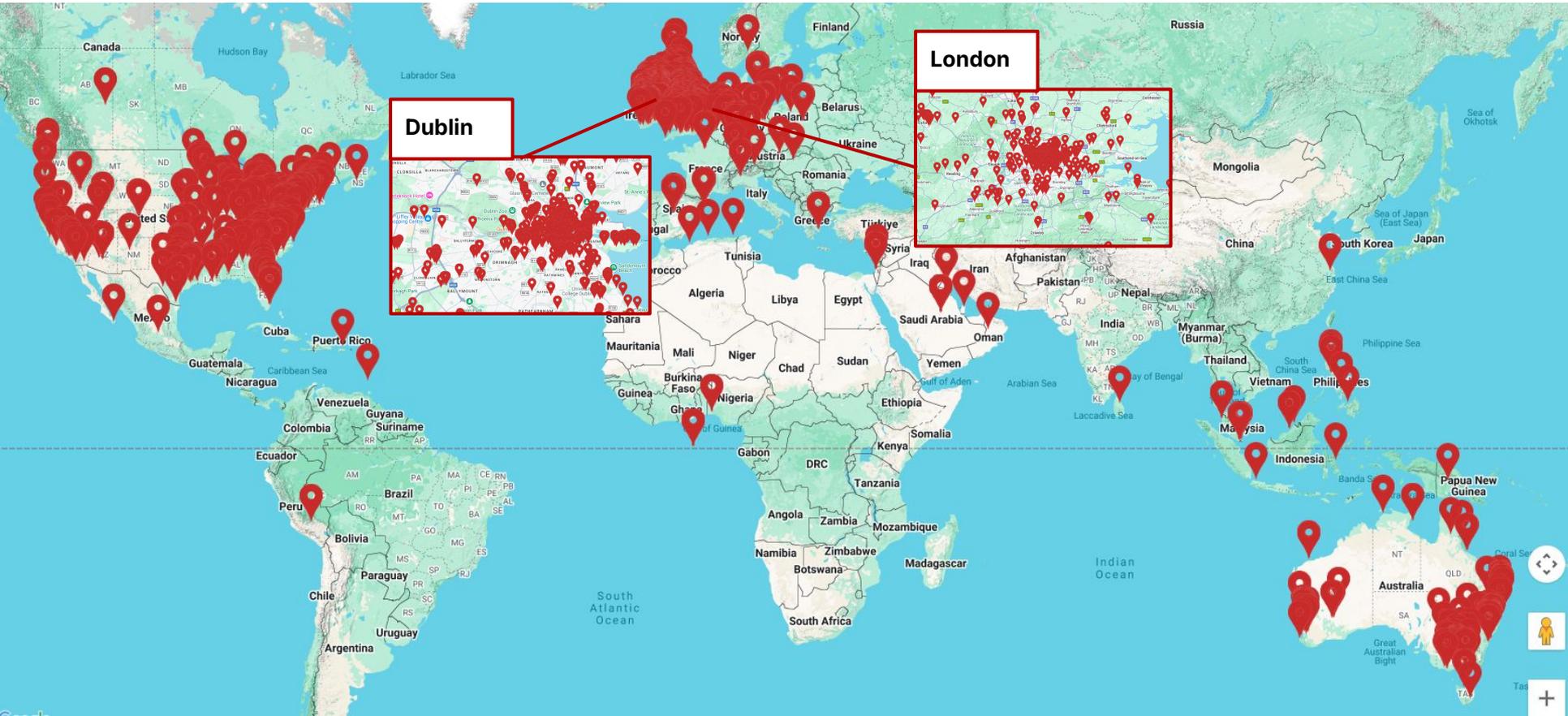
**1200+ Projects**  
Live in **24 countries**

**17k Users**  
Succeed with Evercam

**\$400bn**  
in Construction Projects



# Proven Locally & Internationally



# One Platform. 6 Products

**Connectors**

AUTODESK  
Bentley  
PROCORE  
ORACLE  
VOYAGE CONTROL

Platform

**CoPilot**

Hi, were there any safety incidents last week?  
Sure, let me gather the data for you...

**1. Fall Hazard Open Excavation (2024-04-26 T01:35:59)**

A worker was observed near an open excavation without proper fall protection. This occurred in the center of the camera's view.

**Camera**

ex\_nvr

**BIM**

Bentley AUTODESK

**Drone**

DJI

**360**

Insta360

**Gate**

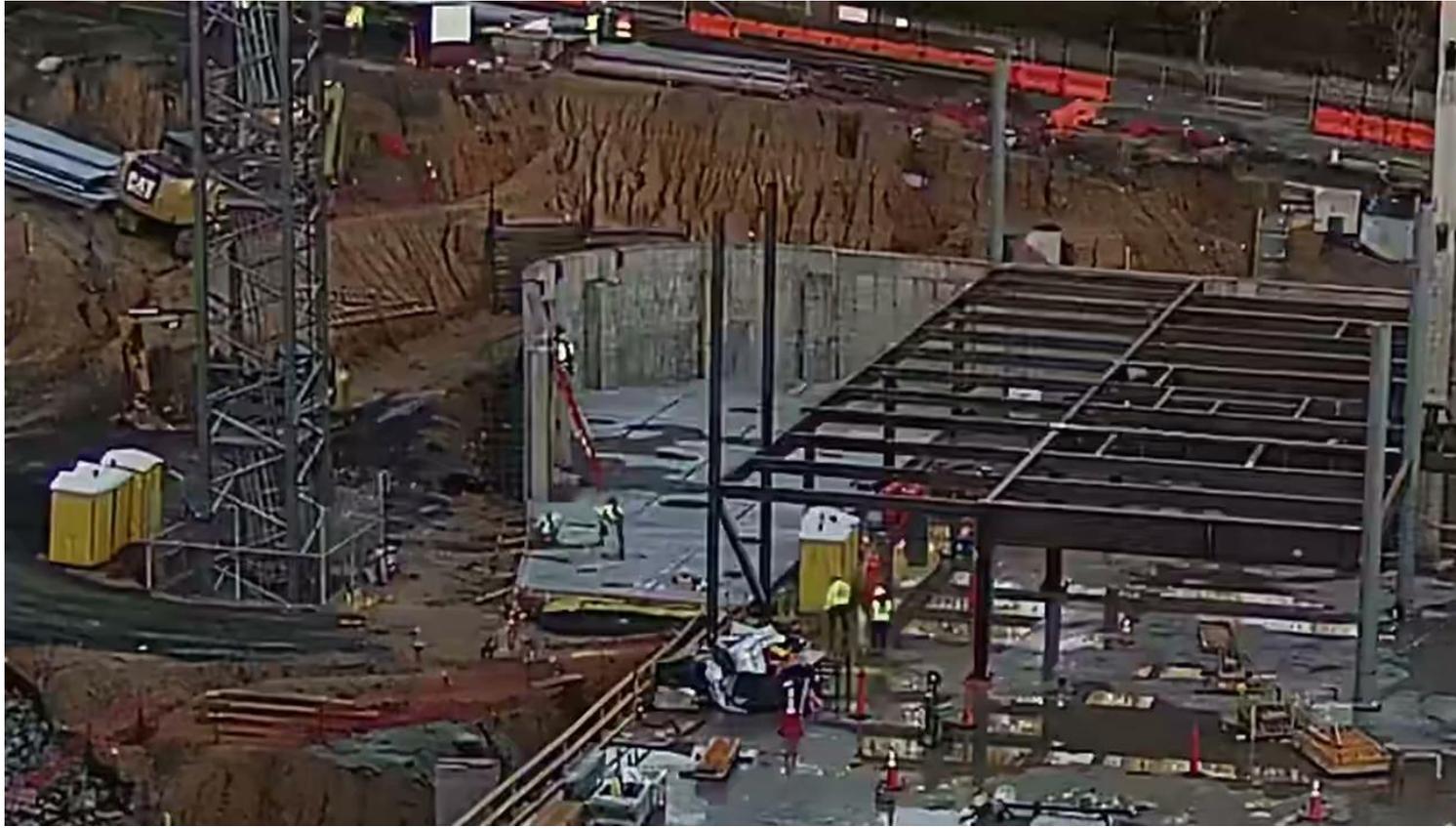
ex\_nvr

**Mobile Capture**

Google Play Store icon

**Let's record everything, all the time**

*Can we confirm he really slipped off that ladder 3 months ago?*



# Where exactly is the power line?

*Simple yet powerful features*

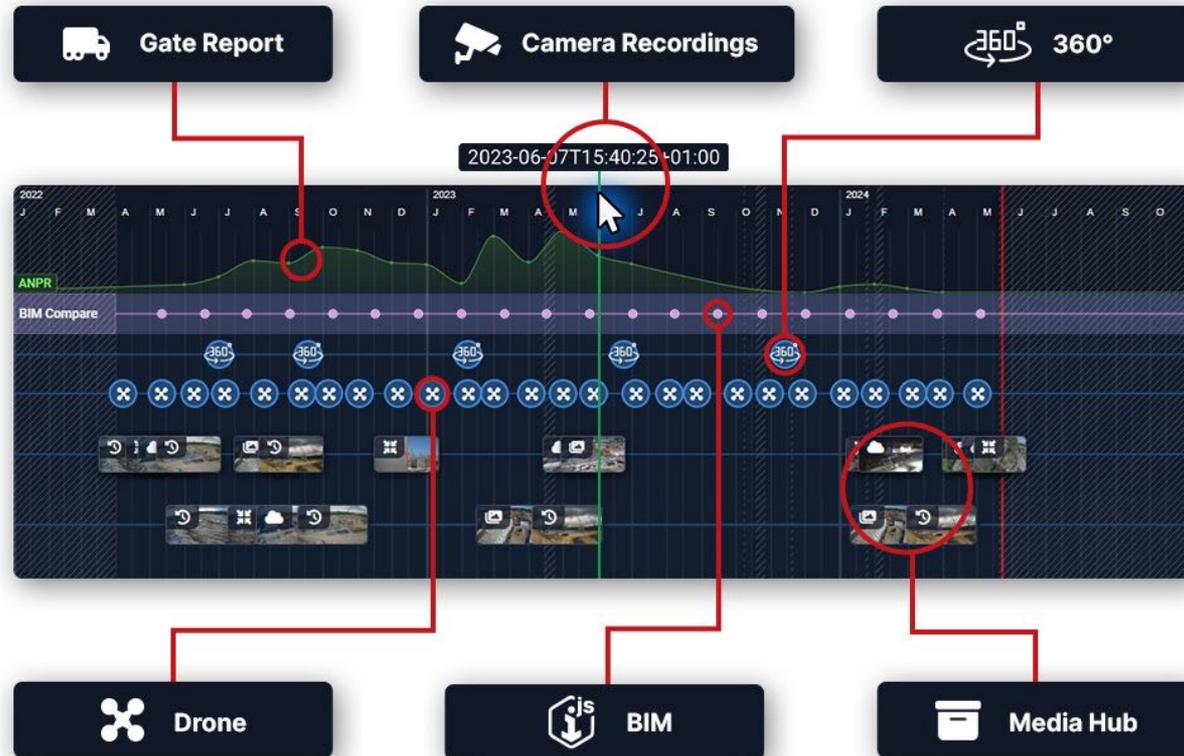


# BIM

01-05-2023 Thu 11:16:37



# Telling The Story of a Construction Project in the Timeline



# Reality Capture becomes Visibility & Intelligence

Reality Capture:

## Fixed Camera



## Drone



## 360



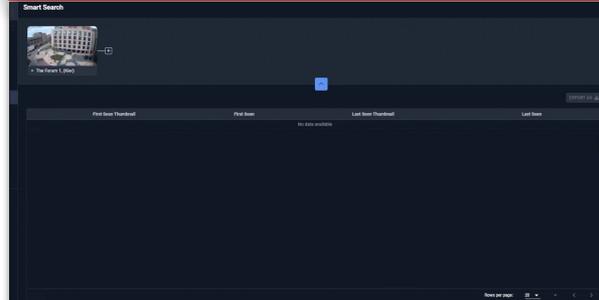
becomes Construction Intelligence:

## PPE Detection



AI monitoring of helmets, vests, and site safety compliance.

## Smart Search



The search engine for construction site video.

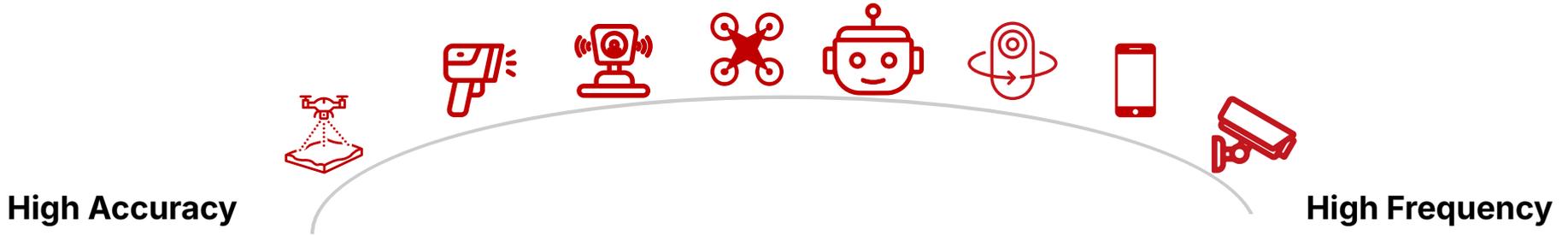
## Gate Analytics



AI powered vehicle tracking for site logistics.

# Cameras are here to stay

## Reality Capture Spectrum



# How Evercam Works

1

## Capture - Reality + Data Layer

Multi-source capture to capture complete site visibility.  
Structured, accessible data.



2

## Visualize

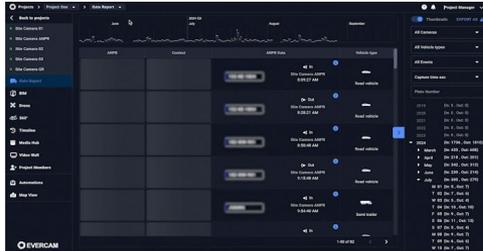
A cohesive visual timeline to see work unfold in real-time, from the big picture to small detail.



3

## Analyze

Use AI to capture events and useful insights for safety, logistics, scheduling, project management, etc.



4

## Connect

Use APIs, integrations and automations to empower existing systems and workflows with visual context and intelligence, to drive behaviour change and decision-making.



AUTODESK

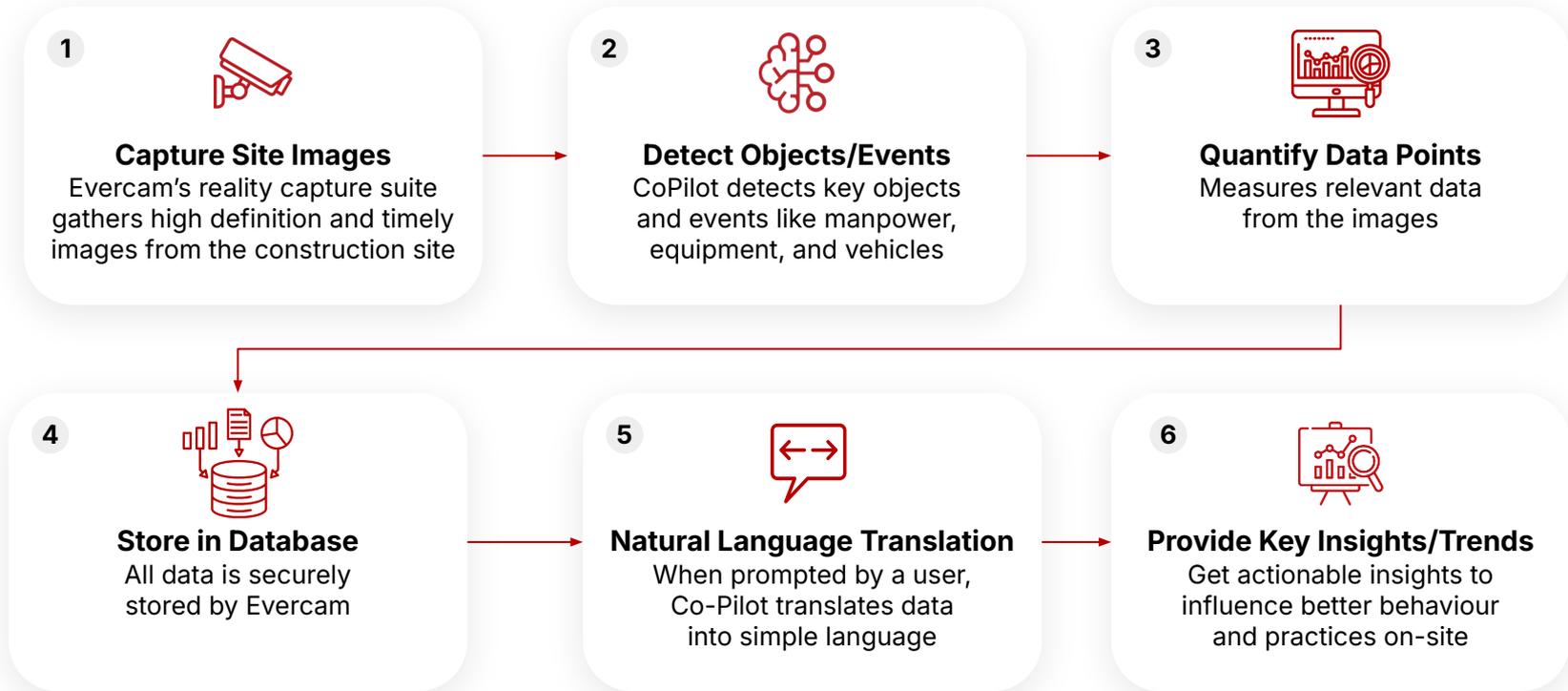
Bentley

PROCORE

ORACLE

VOYAGE CONTROL

# How Does CoPilot Work?



# Analyse (Turn images into data)

### Smart Search

Smart Search interface showing search filters (North Facade, In Area) and a grid of image thumbnails with timestamps (e.g., 25 Sep, 2025 12:29:01).

10 workers on 10/10 at 8am

### PPE Detection

PPE Detection interface showing a timeline of events and a list of detected items (e.g., Missing equipment, High-visibility vest, Safety glasses).

5 Missing Hard Hats

### Gate Analytics

Gate Analytics interface showing a grid of camera feeds and a list of detected vehicles (e.g., Concrete truck, Dump truck).

15 concrete trucks entered, 13 exited

### CoPilot

CE Hi, were there any safety incidents last week?

Sure, let me gather the data for you...

**1. Fall Hazard Open Excavation (2024-04-26 T01:35:59)**

A worker was observed near an open excavation without proper fall protection. This occurred in the center of the camera's view.

29-07-2024 Mon 12:57:07

Cranes Detections

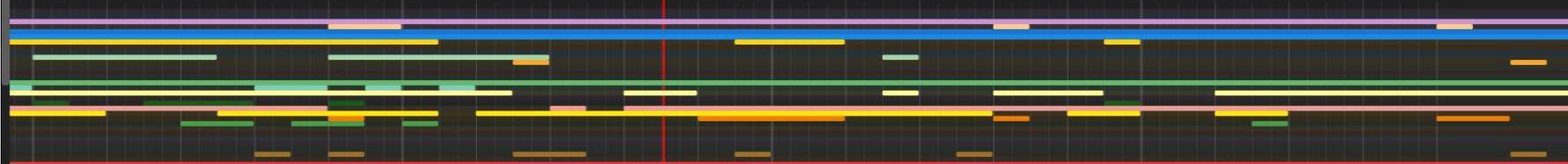
- truck-mounted-mobile-crane
- articulated-dumper
- compact-excavator
- pile-drilling-rig
- industrial-truck
- concrete-pump
- tipping-truck
- mobile-crane
- road-vehicle
- semi-trailer
- tele-handler
- small-truck
- truck-mixer
- skip-truck
- tank-truck
- truck-head
- excavator
- dumper
- roller
- worker
- mewps



22 / 105 29/07/2024 12:57:00

Playback speed: x 1

12:40 12:42 12:44 12:46 12:48 12:50 12:52 12:54 12:56 12:58 13:00 13:02 13:04 13:06 13:08 13:10 13:12 13:14 13:16 13:18



SB

Hi. What significant milestones/progress were reached this week?



Sure, let me gather the data for you...

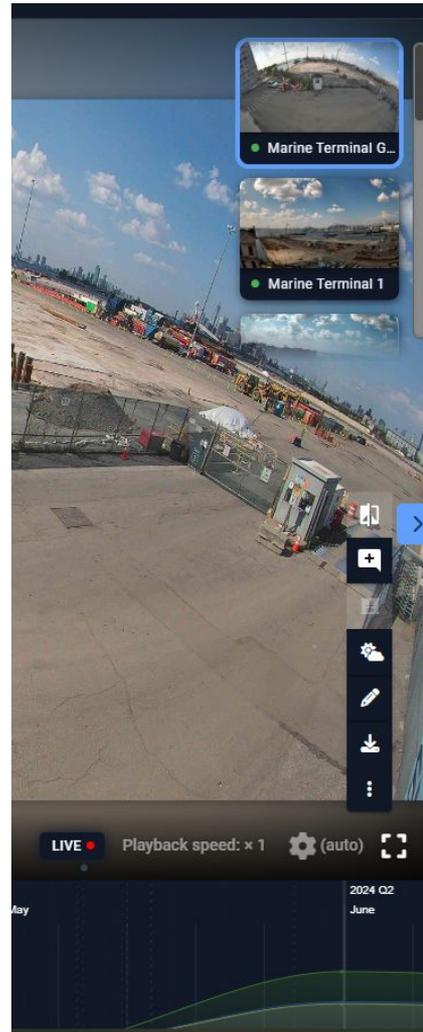
This Week's Significant Milestones And Progress Report For Construction Manager:

During the week of [2024-05-20T12:51:55](#) to [2024-05-26T12:51:55](#), significant progress was observed on the "skans-bjdox" project, specifically within the area monitored by camera "skans-vnmcz".

**Concrete Pouring And Material Deliveries:** The week saw consistent deliveries of concrete and other construction materials, particularly in the Top-Right and Center-Left regions. This suggests steady progress in structural work and foundation development. Notably, a cement truck delivery on [2024-05-20T13:31:06](#) marked the commencement of concrete pouring activities.

**Increased Worker Activity:** Worker presence surged in the Center-Left region on [2024-05-20T13:31:06](#), indicating focused efforts on specific construction tasks. This surge coincided with increased crane and excavator activity, suggesting coordinated efforts in material handling and installation.

**Safety Observations:** While the week saw commendable progress, several safety concerns warrant attention. Multiple instances of workers in close proximity to operating machinery, particularly excavators, necessitate immediate action. Additionally, potential fall hazards were observed, highlighting the need for stringent adherence to fall protection protocols.



Evercam Copilot

Can you as simply as possible provide me with the average number of trucks per day? Also break it down by truck type?



**Average Daily Truck Arrivals Breakdown**

**Overview**

This report provides the average number of trucks arriving per day from August 1, 2024, to August 14, 2024, broken down by truck type.

**Daily Truck Arrivals by Type**

The following table summarizes the total arrivals for each truck type over the observed period:

Truck Type	Total Arrivals	Average Arrivals per Day
Flatbed Semi-Trailer	109	7.79
Road Vehicle	1,029	73.50
Semi-Trailer	88	6.29
Small Truck	18	1.29
Tank Truck	12	0.86
Tipping Truck	16	1.14
Truck Head	3	0.21
Other Truck	2	0.14
Truck Mixer	1	0.07

**Calculation of Averages**

To calculate the average arrivals per day for each truck type, we sum the total arrivals and divide by the number of days (14 days).

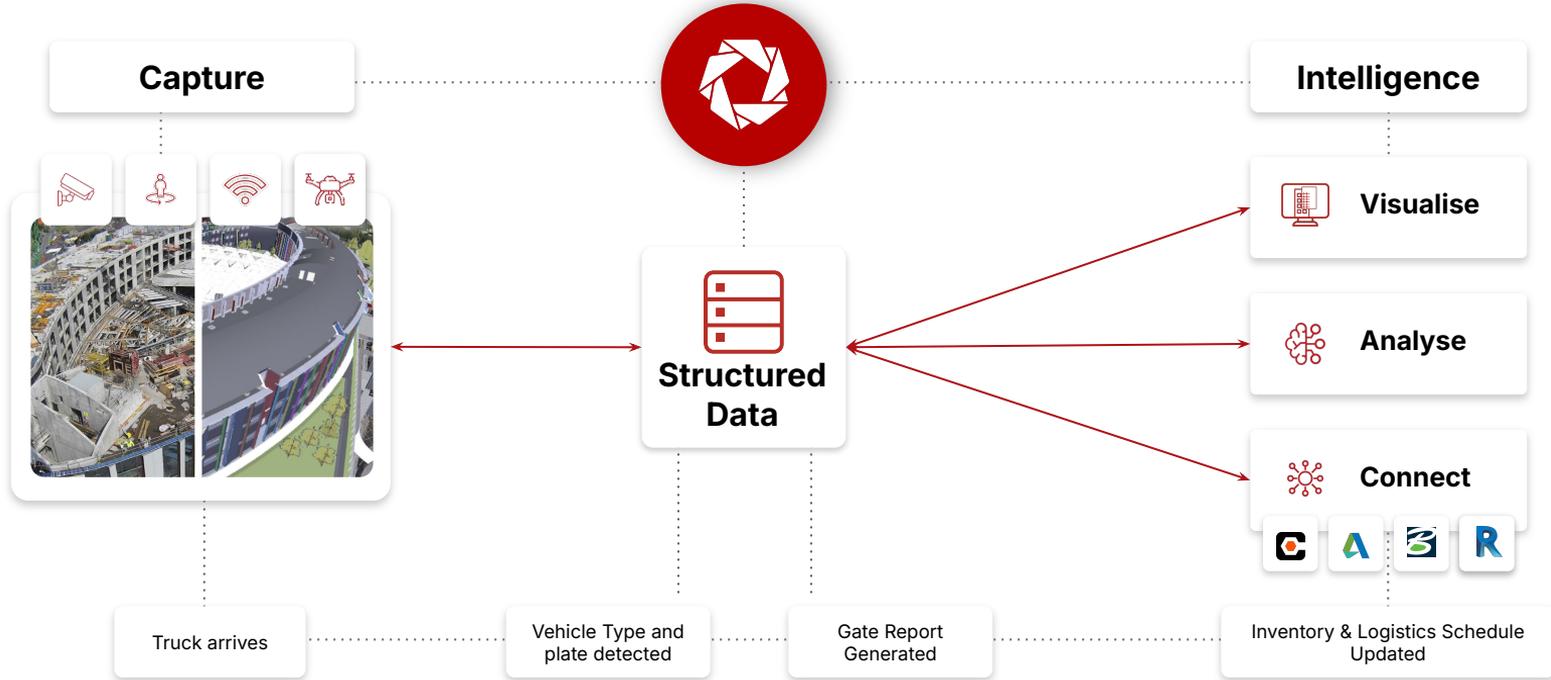
• **Total Arrivals:**

- Flatbed Semi-Trailer: 109
- Road Vehicle: 1,029
- Semi-Trailer: 88
- Small Truck: 18

Message Copilot

# Construction Workflow Improvement

Compliance & convenience drive customers to prefer one provider over multiple.  
Once in use, we remain embedded by supporting workflows through our connectors & APIs



*Provide the data layer → become the infrastructure → partners and workflows build value on top.*

# Gate Report & ANPR

- **Automatic Gate Access Data:** Streamline gate traffic and prevent delays.
- **Evidence-Based Payments:** Ensure compliance and avoid overbilling with verified data.
- **Invoice Matching:** Align invoices with site activity for better financial control.
- **Faster Dispute Resolution:** Keep reliable records of vehicle activity to provide clear evidence in disputes.
- **Ensure Safety Procedures:** Monitor material deliveries and enforce safety measures to prevent accidents and ensure a safe environment for both equipment and personnel.

ENTRIES EXITS MATCHES OVERVIEW

All Vehicle types  Thumbnails [ICAL](#) [EXPORT AS](#)

Entry	Arrived at	Vehicle type
	10/05/2022 08:29:41	Tank truck
	10/05/2022 08:32:11	Concrete truck
	10/05/2022 08:35:48	Small truck
	10/05/2022 08:36:55	Tipping truck
	10/05/2022 08:39:33	Flatbed semi-trailer

1-50 of 91 < >

Tipping truck  Concrete truck  Tank truck  Semi trailer  Truck head  Flatbed semi-trailer

January (Entries: 1411)  
February (Entries: 445)  
March (Entries: 160)  
April (Entries: 1000)  
May (Entries: 457)  
S 01 Not processed  
M 02 (Entries: 0)  
T 03 (Entries: 7)  
W 04 (Entries: 3)

Live View Recordings Sharing Details Logs Archives Compare Time-lapse Creator Gate Report **ANPR** BIM Compare

ALL DETECTIONS MATCHES PLATES

Direction:  All  In  Out

Filter by plate number:

From date: 15/01/2021

To date: 15/03/2021

Thumbnail	Plate number	Direction	Capture time
	05-WW-6263	Out 1	15/03/2021 03:57:55
	99-D-120306	Out 1	15/03/2021 03:48:07
	151-LH-3843	Out 1	15/03/2021 03:22:03
	10-D-3523	Out 1	15/03/2021 03:17:55
	BX18FZK	Out 1	15/03/2021 02:37:54

1/31 of 666

# Gate Report

Data output - PDF or .xls

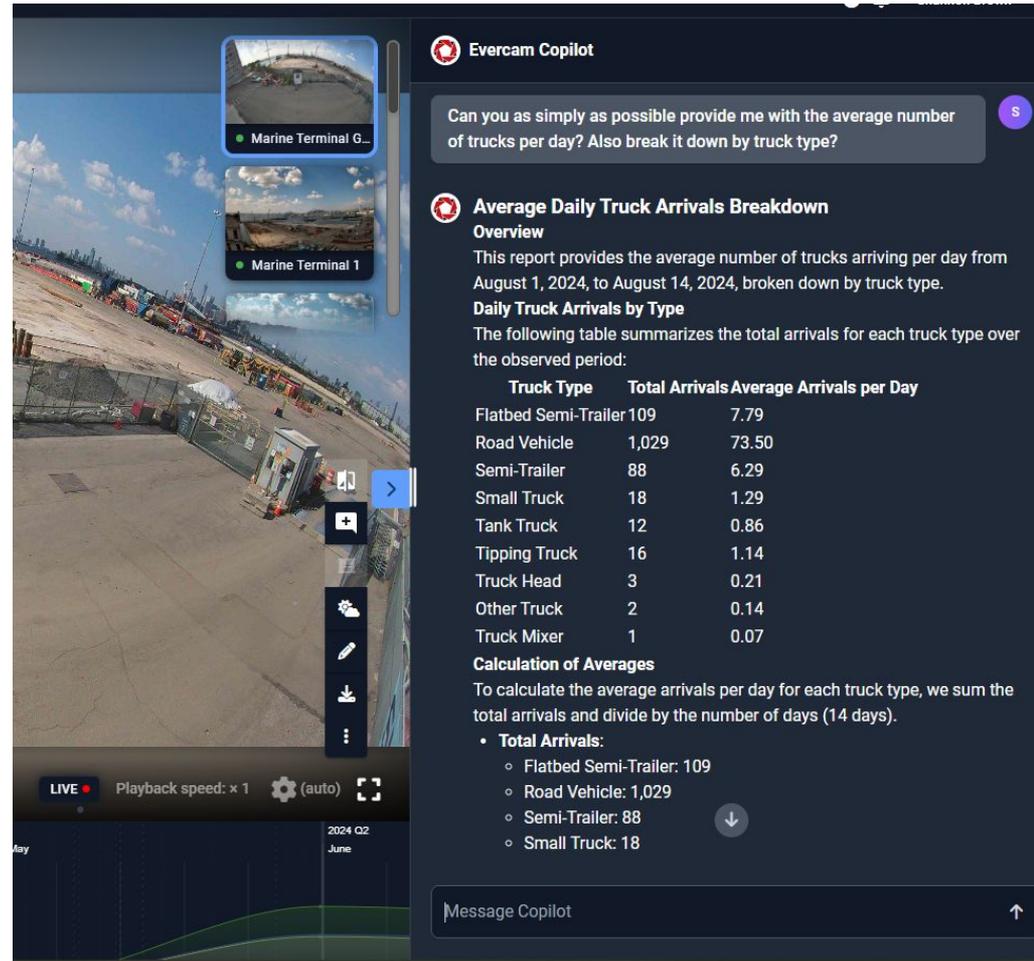
v

The answer

How many concrete trucks through  
this month?

Average time to unload steel?

Show me first vehicle in & last out every day  
last week?



The screenshot displays the Evercam Copilot interface. On the left, a large live video feed shows a port area with several trucks. On the right, a chat window contains a user query and a generated report.

**Evercam Copilot**

Can you as simply as possible provide me with the average number of trucks per day? Also break it down by truck type?

**Average Daily Truck Arrivals Breakdown**  
**Overview**  
This report provides the average number of trucks arriving per day from August 1, 2024, to August 14, 2024, broken down by truck type.  
**Daily Truck Arrivals by Type**  
The following table summarizes the total arrivals for each truck type over the observed period:

Truck Type	Total Arrivals	Average Arrivals per Day
Flatbed Semi-Trailer	109	7.79
Road Vehicle	1,029	73.50
Semi-Trailer	88	6.29
Small Truck	18	1.29
Tank Truck	12	0.86
Tipping Truck	16	1.14
Truck Head	3	0.21
Other Truck	2	0.14
Truck Mixer	1	0.07

**Calculation of Averages**  
To calculate the average arrivals per day for each truck type, we sum the total arrivals and divide by the number of days (14 days).

- Total Arrivals:**
  - Flatbed Semi-Trailer: 109
  - Road Vehicle: 1,029
  - Semi-Trailer: 88
  - Small Truck: 18

Message Copilot

# Are the lights on? - Find the right question

Use case	Description	Prompt
<b>Crane Utilization</b>	Track and analyze crane usage on-site to identify underutilization and reduce costs	"Analyze crane activity from 8:00 AM to 6:00 PM, providing a breakdown of active vs. idle time and overall activity levels."
<b>Semi-automated safety reporting</b>	Automatically generate regular reports summarizing safety observations, violations, incidents	"Generate a weekly safety report detailing the number of incidents, violations, and safety observations for each area of the site."
<b>Safety benchmarking</b>	Analyze safety data to identify trends and set benchmarks for improving safety practices across projects	"Analyze safety data across all project sites to establish benchmarks for PPE compliance and incident reduction."
<b>Equipment &amp; Material handling safety tracking</b>	Monitor and report on the safe handling of materials (e.g., rigging, load movements) to ensure compliance and safety	"Analyze crane movements and material handling activities for potential safety violations."
<b>Safety recommendations</b>	AI reports that identify hazards and suggest improvements	"Identify potential fall hazards in construction zone and suggestion immediate action to mitigate risks"
<b>Actual vs Planned/Scheduled (P6) Progress</b>	Compare what is supposed to occur per the p6 schedule compared to what actually happens observed through the camera lens and analyzed by copilot	"Compare the P6 schedule for concrete pouring to actual footage from the last 48 hours and report any delays."

## Questions Evercam will (eventually) answer

"Can we avoid those delays in phase 2?"

"Will that concrete pour take longer on the 15th floor?"

"Did that steel beam arrive yesterday in between 10-11am?"

"How can we optimize resource allocation and minimize downtime across multiple sites?"

"What are the bottlenecks in our project timelines?"

"How accurate is project progress compared to original plan?"

"Establish safety benchmarks across my projects and predict project risk profiles"

"How can we make construction smarter, faster, and safer?"

## **Rule #5:**

Use the right tool  
(it's not always a camera)

