

# SafetyOS

AI Compliance Co-Pilot for GCC Construction Sites — The world's largest construction boom has a safety and compliance crisis. We built the system to fix it.

Swapneet Lahoti / Joaquín Gómez



⚠ THE PROBLEM

# Saudi Arabia is Building at a Scale the World Has Never Seen — and the Safety System is Broken

Saudi Arabia awarded **\$196 billion** in giga-project contracts in 2025 — up 20% year-on-year. NEOM alone has **140,000–200,000 workers** on a single site, from 100+ nationalities. Construction accounts for **47% of all occupational injuries** in KSA (GOSI official data), yet the compliance workflow is almost entirely manual.

47%

## Occupational Injuries

Share of all KSA occupational injuries attributable to construction (GOSI)

72%

## WhatsApp Dependent

Primary coordination tool — zero audit trail

"Observations are written on paper or noted informally, then transferred later into reports — if at all."

PlanRadar GCC Construction Safety Analysis, 2026

# GOSI and MHRSD Make Compliance a Legal Obligation

## Growing Compliance Gap

Saudi Arabia's regulatory framework explicitly mandates hard hats, bilingual incident documentation, and formal audit trails — yet Human Rights Watch (May 2025) found that **74% of Indian migrant worker deaths** in Riyadh were classified as "natural causes" — never investigated, never compensated.

The root cause: **no reliable incident documentation system.**

01

### Hard Hat Mandate

GOSI Basic OSH Standards (2020) — PPE required on all construction sites

03

### Arabic-Language OSH Policies

MHRSD Regulation, Royal Decree M/46 — all documentation must be in Arabic

02

### Written Report After Every Accident

"Regardless of its size or location" — GOSI OSH Standards, Safety Officer obligation

04

### 24-Hour Incident Reporting

Saudi Aramco GI 6.003 — de facto standard for all large-site EPC contracts

# SafetyOS: Detect, Alert, Document, Audit



## Detect

Computer vision (CCTV-integrated) identifies the PPE violation in real time. No patrol needed.



## Alert

Instant push notification routed to the responsible zone supervisor with location, timestamp, and image evidence — not buried in a WhatsApp group.



## Auto-Generate

SafetyOS produces a structured, bilingual **Arabic–English** incident report in seconds — GOSI OSH format, all mandatory fields pre-filled.



## Audit Trail

Tamper-proof timestamp, GPS zone, worker ID, supervisor acknowledgment, and corrective action tracking. Audit-ready by default.

BEFORE

Paper observation → WhatsApp message → Manual Arabic translation → Email attachment → *Lost in inbox*

AFTER

Regulatory-compliant, bilingual, traceable incident record — automatically, every time.

# Four Converging Forces Make This the Right Moment

## Market Moving to Execution

Saudi giga-project contract awards hit **\$196bn in 2025 +20% YoY**. Execution phase means hundreds of thousands of workers on active sites, today. The Saudi EHS software market is **\$1.5bn** and software is the fastest-growing segment.

## NEOM Already Sold on AI

NEOM's ADISA platform (launched 2025) compresses weeks of manual construction reporting into hours using AI. The buyer is already sold on the concept — **SafetyOS** brings it to **safety compliance specifically**.

## Regulatory Window is Tightening

Saudi Building Code 2024 mandatory since July 2025. MHRSD is formalizing OSH inspection and enforcement. The **2034 FIFA World Cup** requires 8 new stadiums and 73 training facilities — all under construction, all requiring compliance.

## Arabic AI is Production-Ready

**84%** of Saudi and Emirati professionals use AI translation tools daily (Arab News / DeepL, 2026). Bilingual document generation is no longer a research problem — it is a deployable product feature.

📌 **Market Size:** Saudi EHS market: \$1.5B (KenResearch 2025). MEA EHS software CAGR: 6.2% through 2033 (Grand View Research). Active construction workforce on KSA giga-project sites: 140k – 200k workers on NEOM alone.

 WHY SAFETYOS WINS

# The SafetyOS Competitive Moat



## Arabic-First

GOSI/MHRSD-compliant report generation built natively in Arabic. No global platform has built this capability, securing our competitive edge.



## Regulatory Tailwinds

With Saudi Building Code 2024 and the 2034 FIFA World Cup, MHRSD's OSH enforcement window is only opening wider, increasing demand for compliance.



## Seconds, Not Hours

A manual, bilingual incident report that takes hours today becomes an automated, five-second workflow. Safety officers get their time back.



## Convinced Buyer

NEOM's ADISA platform proves that giga-project buyers accept AI-driven compliance automation. SafetyOS specifically targets high-liability safety workflows.