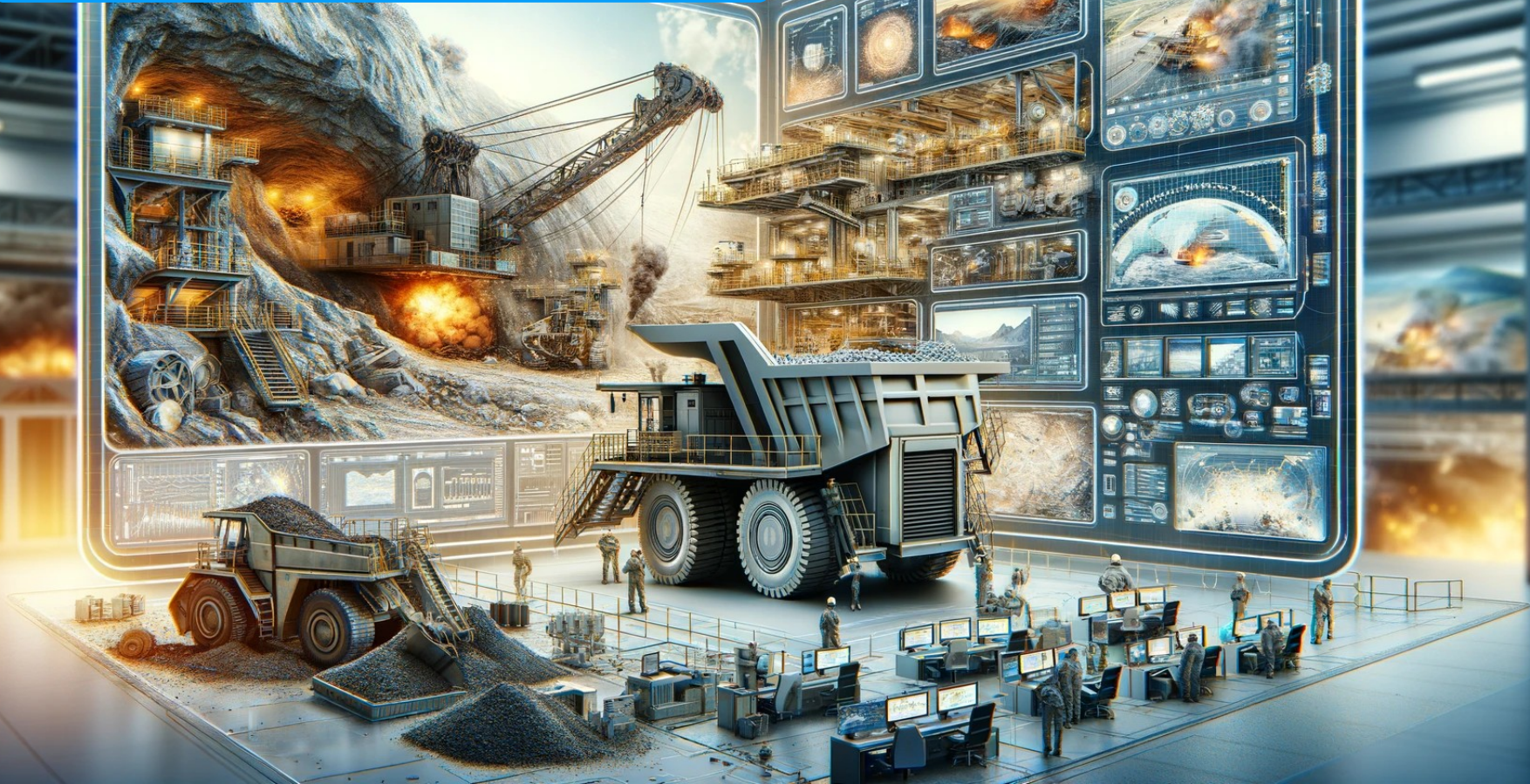


## The future of digital fatigue and drowsiness management





# BUSINESS CASE



COSAPI



Colombia, Chile  
and Peru



Engineering  
and  
Construction

<https://www.cosapi.com.pe>

# CLIENT PROFILE

## COSAPI



COSAPI is a Peruvian engineering and construction group founded in 1960, with operations in mining, infrastructure, real estate, and PPPs across more than 12 countries in Latin America.

With annual revenues of US\$555M and nearly 7,600 employees, the company has executed over 1,000 projects—including Antamina, San Gabriel, and Tía María—holding ISO 9001, 14001, 45001, 37001, and 37301 certifications.

**66** years in  
the  
market

**+700** employees





# **BUSINESS CASE**

Client: COSAPI  
IDENTIFIED  

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PROBLEM

# Fatigue in mining: A SILENT ENEMY PRESENT IN OPERATIONS

San Gabriel is a Buenaventura underground gold and silver mine located at 4,700–5,000 masl in Ichuña, Moquegua — one of the highest-altitude construction environments in Peru. The work entails a series of significant operational risks, especially for those working the night shift.

With 164 active workers on continuous shifts in the COSAPI-HV consortium, the baseline screening revealed that 73% of the workforce presented fatigue risk — a critical level under DS 024-2016-EM and Law 29783.



**73**  
%  
Workers with  
Fatigue-  
Associated Risk



# BUSINESS CASE

Client: COSAPI  
STRATEGY, ACTION PATHS,  
RESULTS



# TECHNOLOGY WITH MINING EXPERTISE SUPPORTING HEALTH AND SAFETY

Logifit was integrated into the COSAPI-HV consortium's HSEQ system, with biometric monitoring via smartbands and PVT alertness tests administered before the start of each shift.

Continuous nighttime monitoring via DMS and smartbands, combined with PVT tests, enabled early intervention. Fatigue risk prevalence dropped from 73% to 7% across the 164 operators — a 90-percentage-point reduction that closed a critical regulatory gap.

**164** operators



Logifit

<https://www.cosapi.com.pe>

# A PREVENTIVE SAFETY VISION

changing the paradigm and  
innovating

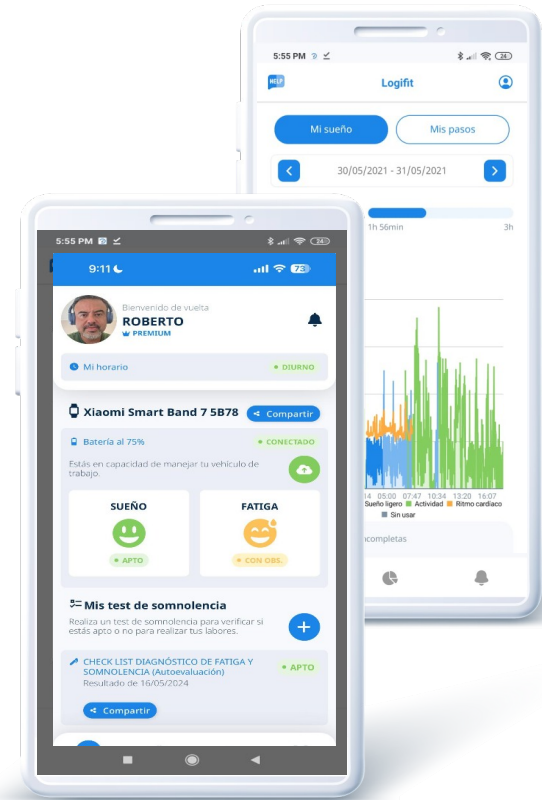
COSAPI's commitment to operational safety delivered measurable results throughout the deployment at San Gabriel, reinforcing a culture of prevention and well-being for all personnel.

The Logifit model integrates technology + ongoing support services, and has positively influenced a more robust safety culture and a user-friendly control system that directly impacts the health and well-being of on-site personnel.

*“When management is involved, prevention ceases to be a procedure and becomes a culture. That is the real difference.”*

**SEGUNDO DIAZ - Safety Manager - Quellaveco**

project



Logifit

<https://www.cosapi.com.pe>



COSAPI

<https://www.cosapi.com.pe>

# TRANSFORMING BENEFITS INTO WELL-BEING RESULTS



**PERSONAL  
FATIGUE  
RATE**

**BEFORE**

**73**

Workers with  
Fatigue-  
Associated Risk

**BENEFIT**

**+90**



**NOW**

**7%**

Workers with  
Fatigue-  
Associated Risk

*“Safety is our commitment: high standards in quality, environment, and occupational health.”*

**Cosapi Minería — General Management**



**Logifit**

<https://www.cosapi.com.pe>

The future of digital fatigue and drowsiness management

