SDG8-DECENT WORK AND ECONOMIC GROWTH

THE PROBLEM:

EVERY 15 SECONDS, A WORKER DIES FROM A WORK-RELATED ACCIDENT OR DISEASE; EVERY 15 SECONDS, 153 WORKERS SUFFER A WORK-RELATED INJURY.

HIGH-RISK INDUSTRIES (CONSTRUCTION, MINING, MANUFACTURING) ARE ESPECIALLY VULNERABLE. IN DEVELOPING NATIONS, POOR SAFETY MONITORING AND WEAK ENFORCEMENT INCREASE RISKS.

URGENCY:

ANNUAL GLOBAL COST OF WORKPLACE ACCIDENTS: \$3 TRILLION.

ACCIDENTS CAUSE LOSS OF INCOME, LONG-TERM DISABILITIES, AND REDUCED PRODUCTIVITY.

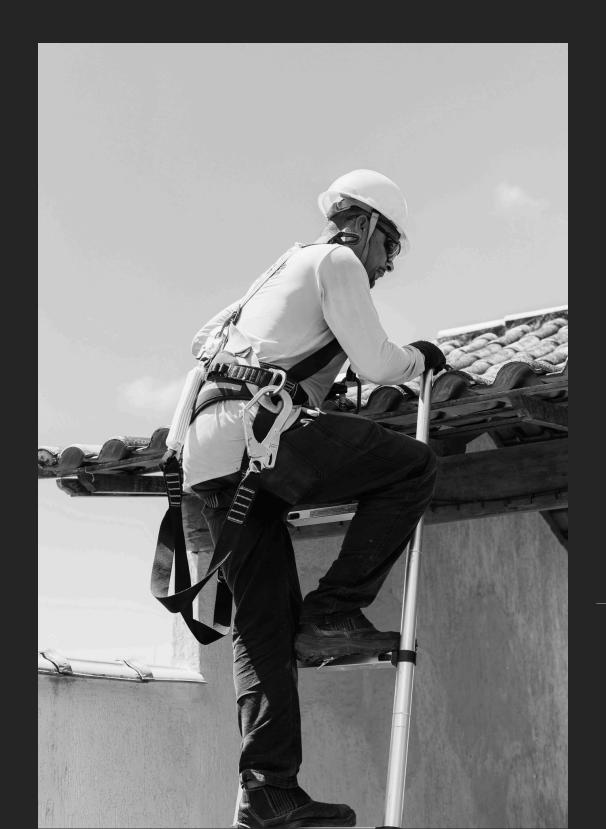
WHO IS AFFECTED:

WORKERS, EMPLOYERS, AND NATIONAL ECONOMIES



AI-POWERED SOLUTION

SOLUTION NAME: SAFEX AI – SAFETY MEETS INTELLIGENCE



High-Level Idea:

An Al-powered workplace safety system that prevents accidents before they happen through:

- Real-Time Hazard Detection (computer vision spotting missing PPE, unsafe equipment use).
- Predictive Analytics (forecasts accident hotspots).
- Instant Alerts (warns supervisors and workers).

How Al Helps:

- Analyzes live video feeds and historical data.
- Predicts risks early and triggers preventive action.

Every 15 seconds, a worker dies from a work related accident or disease, every 15 seconds, 153 workers suffer an injury.

INNOVATION & IMPACT

• What Makes SafeX Al Unique:

- Combines computer vision + predictive analytics for proactive safety.
- Works with existing CCTV systems (low setup cost).
- o Industry-customized AI models for different hazards.

• Expected Positive Outcomes:

- Accident reduction → safer, healthier workers.
- Productivity increase → fewer disruptions.

• Scalability:

 Adaptable to construction sites, factories, warehouses, oil rigs, and mining.

• Risks/Limitations:

- Initial setup cost.
- Need for worker training & privacy compliance.



IMPLEMENTATION PLAN



Target Users:

Large factories, construction companies, industrial plants, mining firms.

Step-by-Step Plan:

- 1.Install cameras or use existing CCTV feeds.
- 2. Train AI model on industry specific hazards.
- 3.Integrate with worker wearable devices & supervisor dashboard.
- 4.Launch pilot program in one facility.5.Scale to multiple sites after success.

Technologies/Tools:

- Computer Vision (YOLO, OpenCV)
- Predictive Analytics (Python, ML models)
- Cloud dashboard for monitoring
- Mobile & wearable integration



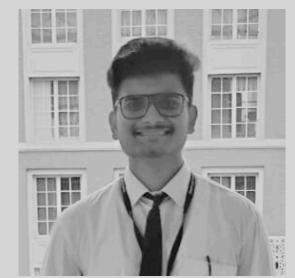
Stakeholders/Partners:

- Industrial safety regulators
- Al software developers

TEAM

Aaviraj Nikumbh

CEO of Salford & Co.



-: FINAL TAGLINE:-

We believe every worker should be able to return home safely after a hard day's work.



Ruchi Khairnar

Head of Operations



Shlok
Panchal
PPT & Video Editor



