The Consortium



Stay in touch

isteel-expert.eu

company/isteel-expert

iSteel-Expert

Remote expert virtual system enhancing human management capabilities and favors preservation, transfer and continuous evolution of knowledge for steelmaking operations



www. isteel-expert.eu

company/isteel-expert

Project co-funded by the Research Fund for Coal and Steel - (RFCS) G.A. 101112102

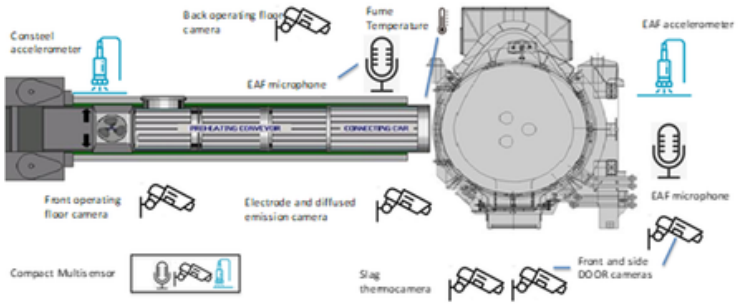
Objectives

iSteel-Expert implements and demonstrates in an industrial environment a remote expert virtual system that:

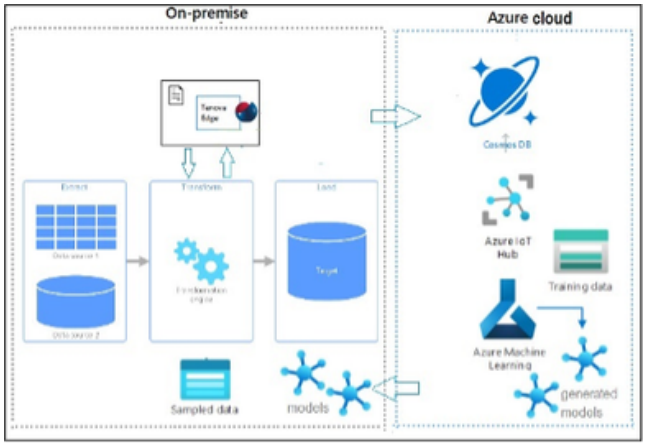
- **monitors 24/7 the EAF process**
- **exploits AI to timely detect relevant events**
- **effectively supports operators in decision-making and maintenance**
- **integrates an interactive immersive training tool which helps preserve and continuously evolve the company's know-how.**

Pillars

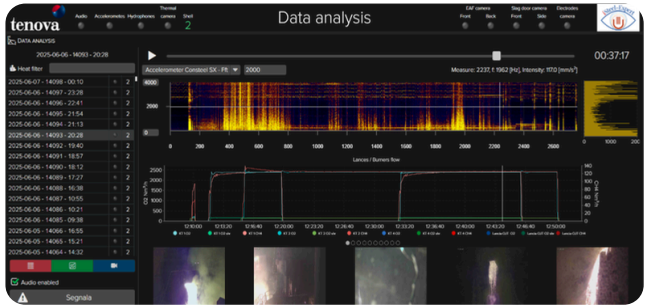
- Ad-hoc installations of sensors suitable to harsh environments

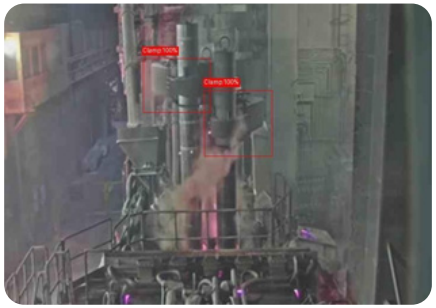


- Dedicated data collector board
- Local preprocessing station for video, acoustic, vibrational and temperature data, extracting relevant features and transferring to the cloud only necessary information



- A powerful cloud infrastructure that
  - implements user-friendly, easy-to-read dashboards to monitor the status and performance of the system through the company-driven Key Performance Indicators
  - runs sophisticated algorithms leveraging Artificial Intelligence for image processing, anomaly detection and classification









- Interactive immersive simulation training tool

