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Reproducible Technology Case Sharing —— Smart Station

Beijing Anvision Technology Co., Ltd.



Contents

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Project Background and Customer Pain Points

Smart Station

- 1) Smart BIM Platform
- 2) Intelligent Al Security
- 3) Job Ticket Control Platform
- 4) Integrated Control System

5) Smart Station Management Platform

- 6) Intelligent Real-time Measurement
- 7) Digital Twin Visualization
- 8) Mobile App Platform

Summary of Project Innovations



Project Background

Roc Oil (Chengdu) plans to build a natural gas dewaxing and boosting station near Well 70 to achieve *the dew point standard of natural gas, overcome* the existing pipeline transportation *capacity constraints*, and further *unleash the production potential* of the Bajiaochang-Block

Traditional construction methods cannot meet the urgent demand for capacity breakthroughs from the client. Anvision introduced the concept of a smart station and corresponding system applications during the design, construction, and operation phases. This ensured rapid and safe station commissioning, addressing the client's most pressing needs. Additionally, through the smart management platform during the operational phase, process management was optimized, equipment maintenance efficiency was improved, and the operation process was intelligently implemented. This provided managers with real-time monitoring, remote management, and visualization capabilities, significantly reducing management and operation costs



Project Background and Customer Pain Points

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Challenge of Capacity Expansion

Due to the issue of insufficient processing capacity, further capacity release is hindered, posing significant challenges and constraints

2 Rapid and Secure Station Construction Demands

Traditional construction approaches with lengthy timelines, high costs, and low levels of intelligence struggle to address customer construction

demands 东方智慧 全球分享 Oriental wisdom, Global sharing



Real-time Measurement Handover Requirement

Involving three-party measurement confirmation poses a significant workload. How can we achieve handover data recognized by all parties efficiently and accurately? Striving for a quick, efficient, and precise measurement process

Operational Management Cost Reduction and Efficiency Enhancement Demand

With extensive operational tasks at the station and high personnel costs, coupled with the remote location of the station, the challenge is how to enable remote operational management

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1.Data Integration and Interoperability

Addressing the Data Silo Issue, Ensuring Smooth Data Circulation Across Different Stations and Departments

2.Automated Report Generation

Developing tools to achieve automated report generation, enhancing data analysis efficiency

3.Real-time Data Visualization

Delivering a real-time data presentation solution to enhance management's immediate understanding of production conditions



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4.Standardized Smart Station Solution

Developing standardized smart station solutions to expedite the deployment of other stations and reduce costs

5.Enhancing Production Efficiency

Aiding stations in improving production efficiency, reducing operational costs, and achieving capacity enhancement

6.Data Security and Compliance

Providing data security and compliance solutions to ensure data protection and adherence to regulations

<u>The smart management system integrates data, optimizes resources, making</u> <u>station production management more convenient, precise, secure, and timely,</u> <u>thereby achieving a data-driven transformation for the station</u>

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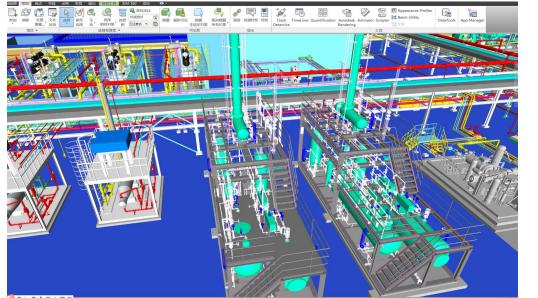


Smart Station — Construction Phase

1) Intelligent BIM Platform

- a) Design Phase: Layout *design and verification* using 3D BIM software
- b) Procurement Phase: *Continuously update models* based on actual conditions
- c) Construction Phase: *Guide installation and construction throughout the process* based on 3D design, refining the 3D model
- d) Operational Phase (Inspection and Maintenance): Record essential information from all construction plans for a *reliable data foundation* in future maintenance work

Real-time comparison ofconstruction progress andanomalies, achieving progresstracking, and enabling efficientsupervision and execution







Smart Station — Construction Phase

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2) Intelligent AI Security

Customer Pain Points:

Complex personnel structure with multiple construction participants, uneven safety awareness, posing management challenges;

Costly and abundant on-site materials, reliance solely on individuals making it difficult to ensure material safety;

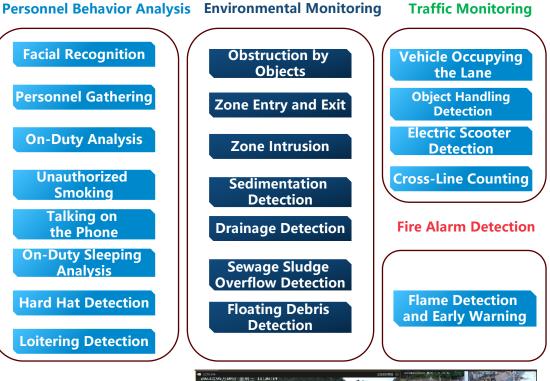
Frequent cross-operations in a fast-paced construction process, challenging to guarantee safety in the interaction between personnel and vehicles

Solutions:

Upcycling: Integrate existing Rock video feeds into the platform for comprehensive scene monitoring

Continuous Monitoring: Implement **20** perimeter security routes for surrounding construction, and install **50** intelligent monitoring routes in the equipment area, achieving full coverage monitoring in key areas *Early Warning Alarms:* Realize analysis of over 20 unsafe behaviors, remote monitoring of inspections, full-process recording of operations, project progress control, and construction safety alarms

High adaptability, versatile applicability, diverse algorithm types, and precise recognition







Smart Station — Construction Phase

3) Work Permit Control Platform

Customer Pain Points:

Ticket Personnel Management: Paper work permits cannot address consistency issues

Low Efficiency: The signature process for issuing permits is complicated and inefficient;

Difficulty in Historical Data Retrieval: Challenging to review and manage historical work permits;

Many Blind Spots in Supervision: Issuing permits based on experience, lacking a unified standard

Solutions:

Work Permit Control Platform:

Intelligent video verification against personnel and permits;

inconsistencies prevent work issuance

Entire process of online permit issuance and approval: Enhance efficiency, achieve intelligent management

Unified standards, specifications, and management, with historical *retrievability* for convenience and efficiency



Implementing fully intelligent permit issuance has enhanced operational efficiency

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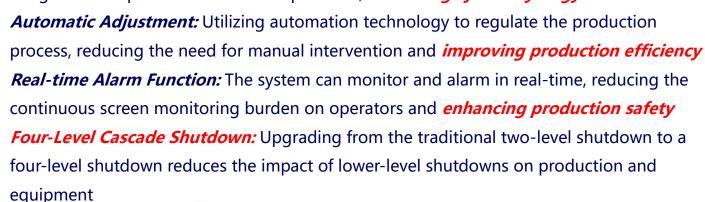
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4) Integrated Control

Customer Pain Points:

Management Challenges: Difficulty in managing complex systems, necessitates effective tools

High Labor Intensity: Skilled personnel with high labor costs *High Operating Costs:* High maintenance and energy costs *Demand for Energy Saving and Consumption Reduction:* Energy savings equate to cost savings, requiring precise control



Integrated Control: The domestic system integrates DCS, SIS, and FGS, achieving

integrated comprehensive control capabilities, *enhancing system synergy*



(DCS)

Safety Instrumented System (SIS)



(FGS)

Solutions:

Ensuring the production, safety, and firefighting processes of the station, reducing the number of on-site personnel to 2 during daily shifts

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5) Smart Station Management Platform

Customer Pain Points:

Demand for Increased Production Efficiency

Concerns about Equipment Failures and Repair Delays

Is Manual Inspection Adequate?

Are Operating Processes Standardized?

Is the Management Process Transparent?

Solutions:

Intelligent Production Management

Remote management is implemented for production, equipment, inspection, security, and operational processes

Equipment Inspection: Accurate and Real-time

Complemented by efficient new technologies and products, real-time monitoring of equipment operation status is achieved through on-site integrated applications around the clock

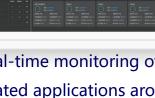
Specialized Operation Management and Control

Achieving standardized and safe operations, reducing potential risks, minimizing hazards, preventing accidents, and enhancing the level of safety management.











5) Smart Station Management Platform

Smart Production Management

Implementing intelligent management, including remote management of production, equipment, inspections, security, and operational processes

Program Achievements:

Enhancing Efficiency and Productivity:

Remote management enables real-time monitoring and control, reducing downtime and increasing capacity

Data Analysis and Decision Support:

Collecting data from various sources, analyzing production processes, equipment performance, and trends to make informed decisions, thereby improving production quality and efficiency

Cost Savings:

Reducing labor costs, inspection costs, and operational expenses while simultaneously increasing resource utilization







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5) Smart Station Management Platform

Equipment Testing, Precision in Real-Time

In accordance with the objectives of intelligence, adopting efficient new technologies and products, integrating them on-site, and implementing real-time monitoring of equipment operations around the clock

Program Achievements:

Reducing Maintenance Costs:

Timely identification of potential faults and issues, making maintenance more preventive and precise, thereby lowering maintenance costs

Enhancing Equipment Reliability:

Reducing equipment failures and downtime, thereby increasing the lifespan of the equipment

Optimizing Resource Utilization:

Real-time monitoring and data analysis aid in better resource utilization, including energy, raw materials, and human resources, leading to cost reduction



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5) Smart Station Management Platform Specialized Operation Management and Control

Specialized operation management and control achieve orderly and compliant

operations, reducing risks, minimizing hazards, preventing accidents, and enhancing the

safety management level in operational processes

Program Achievements:

Ordered Workflow:

Ensure compliance with the sequence and requirements of each step

Risk Reduction:

Minimize the presence of potential risk factors, reducing the probability of accidents

Hazard Reduction:

Identify and eliminate potential hazards and safety risks to ensure a safer workplace

Accident Prevention:

Effectively prevent accidents, ensuring the safety of employees' lives and property

Employee Awareness:

Enhance employees' awareness and importance of safety

Monitoring and Feedback:

Real-time reporting aids in quickly identifying and addressing potential issues 东方智慧 全球分享 Oriental wisdom, Global sharing 作业预约与申请 作业审批 确认相应人员到场,落 作业预修 实责任 由语 由法 确定位置 作业申请构建 现场修正风险与措施 00 书面审查 宙音 批准人 监护人 现场确认安全措施、 作业实施与结束 人防护 WIPI/3G 确认身份 现场复查 检测员 WIFI/3G 申请人 北北 作业延期 确定位置 作业取消 上が人 作业关闭 作业许可证打印 确认身份 检测局 上申请: 动火作业 业申请:用火作业 用火作业许可证 申请时间: 2023-08-18 08:32:0 内容・測定 作业时间: 2023-08-18 作业票完工 甲方监护: 何宝 许可证编号: CYSC-YH 作业地古・国信冷却区 作业申请:动火作业 注: 作业要完工后与此作业许可证相关要据不可再进行修正 ■业申请:起重作业 作业时间: 2023-08-18 |内容: 測试 属地单位:角70井场 作业时间: 2023-08-18 甲方监护: 何宝 施工单位:安讯数智 作业申请类型:动火作) 没有更多数据 作业部位及内容・測试 作业票办理 注: 作业完工后此作业不可再续票; 作业完工后不可再进行作业许可申请 作业完工后方可进行作业评价及人员评价 1000 证件对比 作业许可 作业完工 * 作业完工

6) Intelligent Real-time Measurement Intelligent Metering Handover

Process management based on intelligent metering handover achieves real-time statistics of process parameter compliance rates and device operation records **Customer Pain Points:**

Need to improve production efficiency

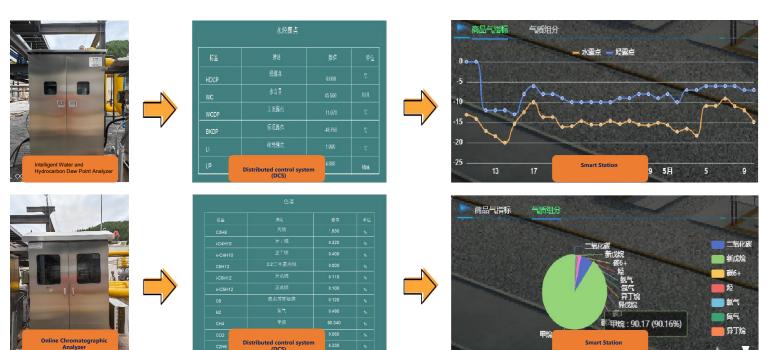
Is production data collected and shared in real-time?

Are metering data automatically calculated and reliable?

Is the production process analyzed in real-time with intelligent warnings?

Solution:

Implement intelligent water, hydrocarbon dew point, and chromatographic analysis. Combine this with an intelligent flow metering system to ensure automated handover confirmation throughout the entire process from raw materials to sales





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7) Digital Twin Visualization

东方智慧 全球分享

Digital Twin

Customer Pain Points:

- > Inaccurate location identification for station alerts;
- Lack of uniformity in inspection routes and content;
- Inability to monitor equipment information in real-time;



Digital Station

Solution Achievements:

Implementation of a smart twin system for pipeline stations, **ensuring production safety**, **enhancing control efficiency**, **and improving operational quality**, **achieving lean production** in station operations;

Full coverage of video surveillance for station monitoring, **real-time surveillance, remote warnings, quick positioning**, and assistance in problem resolution;

Real-time reflection of the production process of the corresponding physical station, enabling three-dimensional virtual inspections for a comprehensive understanding of the inspection process;





Video Surveillance

Virtual Inspection

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8) Mobile App Platform The mobile app platform enables efficient and streamlined office operations

Implementing lean operations, standardized on-site procedures, meticulous management, strengthening material quality control, continuous on-site support from technical experts throughout the entire process, and improving the efficiency of construction management and decision-making



The mobile app supports Android, iOS, and HarmonyOS, ensuring timely and reliable data push notifications

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8) Mobile App Platform

Three-layer Functional Architecture - Efficient Collaboration

Functional development is centered around different levels, mainly addressing the requirements of decision management, supervision management, and

operation and maintenance operators

- Achieving refined information management;
- Enhancing transparency and flexibility in production operations;
- Optimizing resource allocation, and improving production efficiency;

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321,786 m	5,70:	2,834 m³	44,967,852 m³	Ť	安全帽检测 工业1号	常规 2023-08-16 16:55:47		
■天然气外轴	俞量(大兴阀)	室外输量)						
日产量	J	月产量	年产量					
1,497,832 n	n³ 25,20	55,920 m³	127,665,704 m ³					
<i>Decision Management Layer</i>				л	_	n-Site ment Layer	Ň	peration and laintenance Operators



Ensure the orderly coordination and efficient implementation of production operation goal setting, supervision, and daily operations

Contents



Project Background and Customer Pain Points

Smart Station

- 1) Smart BIM Platform
- 2) Intelligent Al Security
- 3) Job Ticket Control Platform
- 4) Integrated Control System

- 5) Smart Station Management Platform
- 6) Intelligent Real-time Measurement
- 7) Digital Twin Visualization
- 8) Mobile App Platform

Summary of Project Innovations



Summary of Project Innovations

- Digital Design and Construction: The station employs three-dimensional digital tools for design, integrating design and procurement to enhance the three-dimensional model, guiding the construction process
- 2. Integrated Control System: Utilizing automation systems such as DCS, SIS, FGS to ensure production, safety, and fire control, reducing on-site daily operating personnel to 2
- **3. Smart AI Security System:** Using AI technology to monitor the station perimeter and production areas, actively detecting issues and notifying management
- **4. Intelligent Metering Handover:** Employing intelligent systems for water, hydrocarbon dew point, and chromatographic analysis, combined with an intelligent flow metering system, ensuring automated handover throughout the entire process from raw materials to sales
- 5. Smart Production Management: After completing station construction, achieving intelligent management, including remote monitoring of production, equipment, inspections, safety, and operational processe
- 6. Three-dimensional Digital Twin System: Combining digital design and actual construction to create a three-dimensional digital twin system, showcasing production, inspection, and video monitoring functions in a three-dimensional manner
- **7. Mobile App Management:** Providing a mobile application management platform where almost all management functions can be used on the mobile app, not limited to the PC version







Anvision

Customer Value

Intelligent assistance in design and construction contributes to safety and efficiency during the construction phase

Cloud-based deployment enables remote management from anywhere



1

A management system covering all aspects of the station's operations, eliminating the need for further expansion



Intelligent assistance in operations, inspections, and monitoring reduces labor costs





Integrated centralized control reduces manual labor intensity

Intelligent real-time metering handover reduces handover and verification costs.

6

Three-dimensional visualization systems enhance data readability and usability

7

8

The system exhibits strong replicability, enabling low-cost and rapid replication for similar stations

Anvision

Committed to Making Digitalization in the Oil and Gas Industry Simple and Practical

