



OXmaint AI + Meta Ray-Ban Gen 2 Glasses

Hands-Free Operations, Intelligence & Decision Support

30-40%

Faster Job Completion

100%

Hands-Free Operation

Zero

Paper Documentation

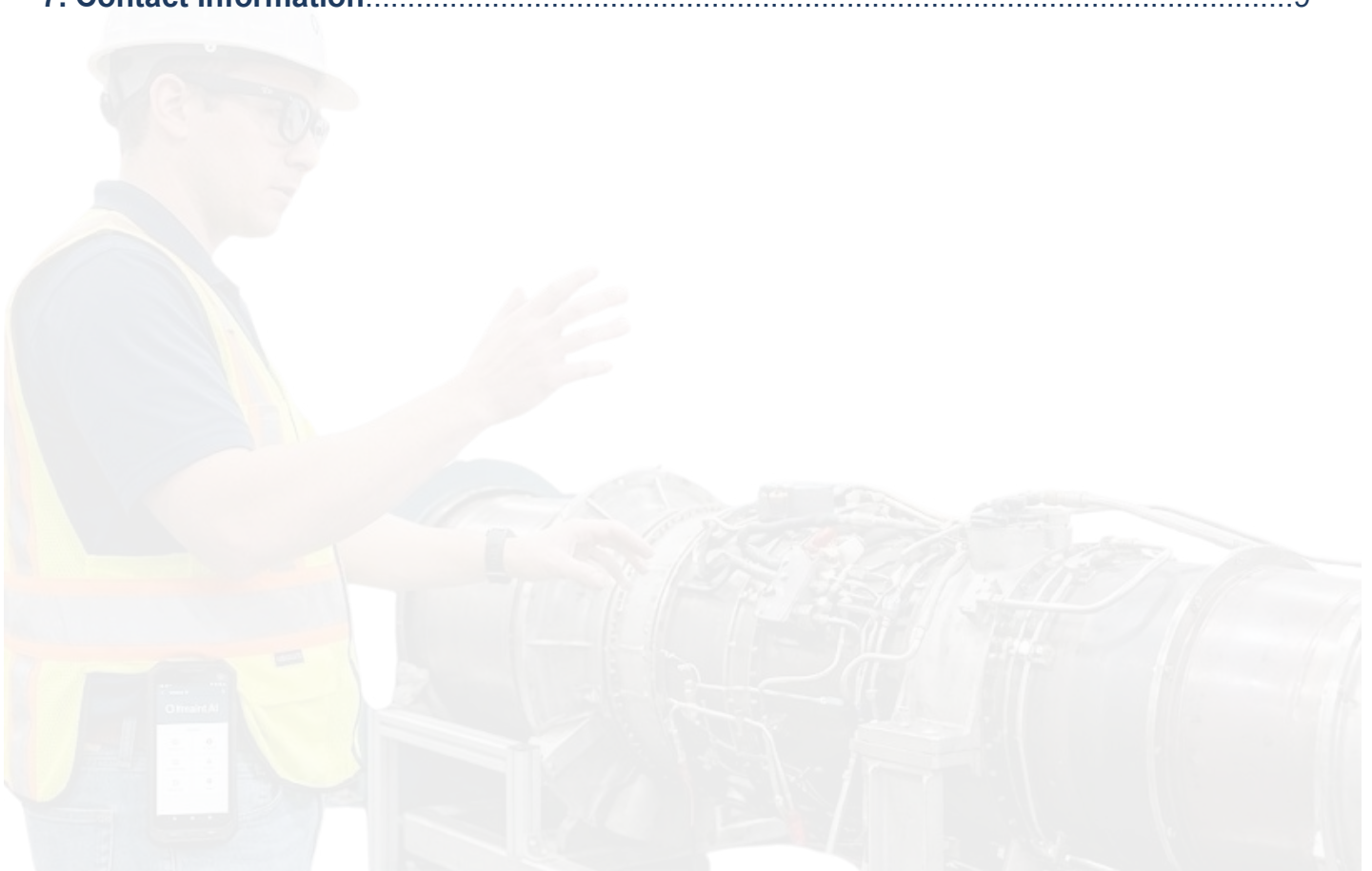


Industry 4.0 Technical White Paper
Prepared by: OXmaint Factory AI Solutions
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1. Executive Overview

This document describes the practical architecture, prioritized field and management use cases, and a voice-command-driven interaction model using **OXmaint AI Android app** integrated with **Meta SDK for Ray-Ban Gen 2 smart glasses**.

OXY Agent enables real-time, multilingual (English/Hindi) access to operations and maintenance intelligence without screens, spreadsheets, or portals.

KEY BENEFITS

- 30-40% faster job completion with hands-free work order execution
- Zero paper documentation – all evidence captured digitally
- Real-time access to CMMS, analytics, and maintenance history
- Multilingual support (English/Hindi) for diverse workforce adoption



2. Solution Architecture Overview

2.1 Device Layer (Field)

- **Meta Ray-Ban Gen 2 smart glasses** – camera, microphone, speaker for hands-free capture and interaction
- **Android smartphone** – primary compute, authentication, storage, and network gateway

2.2 Application Layer

OXmaint AI Android App featuring:

- Meta SDK integration for camera/audio streaming
- Hands-Free Mode & Walkthrough Mode
- Offline-first action journal (media, voice, readings, status)

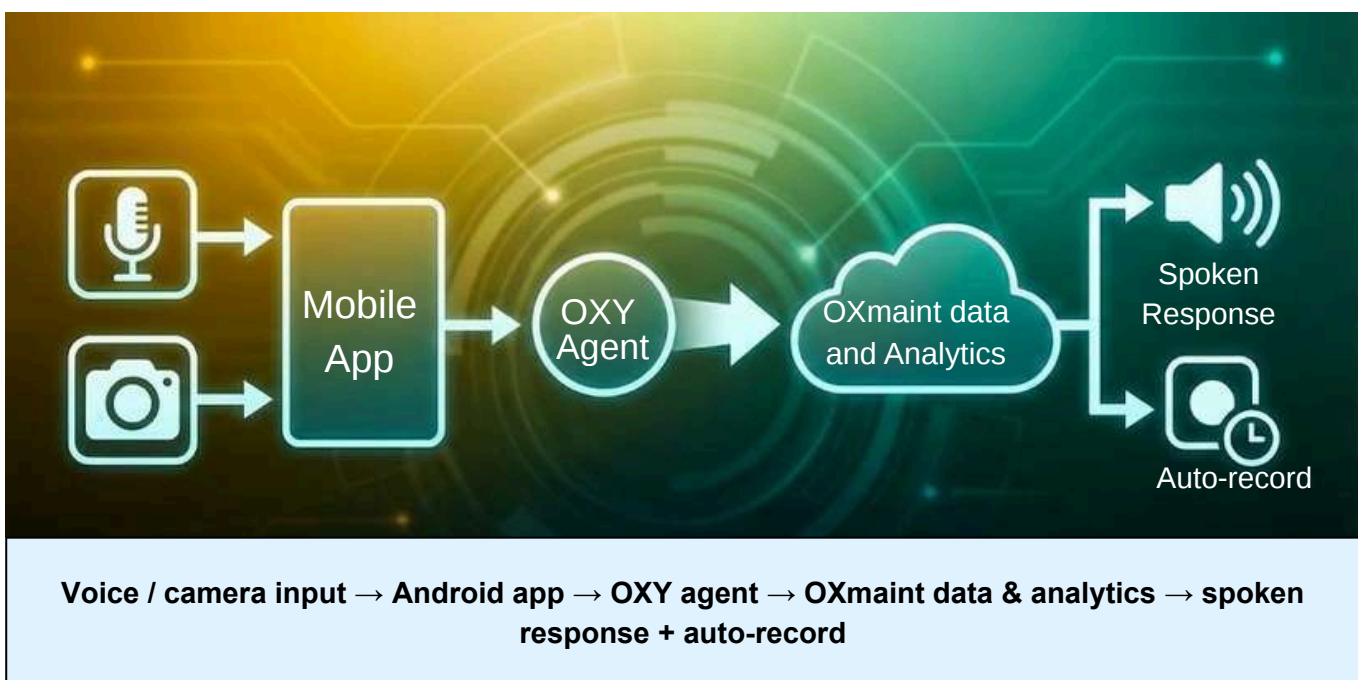
2.3 AI & Agent Layer

OXY Voice Agent (English / Hindi):

- Speech-to-text → intent detection → CMMS/analytics queries
- Context binding (asset, WO, shift, user)
- Summarization & spoken responses

2.4 Backend & Data Layer

- OXmaint CMMS (Work Orders, PM, Shutdown, EHS, Logbooks)
- CCR & analytics (health index, trends, recurrence)
- Secure APIs, audit logs, role-based access



3. Most Practical & Impactful Use Cases (Prioritized)

| Rank | Use Case | Primary Users | Business Impact |
|------|--|---|--|
| 1 | Hands-Free Work Order Execution with Evidence Capture | Technicians | 30–40% faster job completion, zero paper, complete compliance |
| 2 | Routine Inspection Routes with Auto Corrective Actions | Operators / Technicians | Consistent inspections, early fault detection, fewer breakdowns |
| 3 | Engineer Floor Walkthrough with OXY Intelligence | Maintenance / Reliability Engineers | Instant access to PM & breakdown history; faster decisions |
| 4 | Shift Logbook Abnormal Carry-Forward via Voice | Shift Engineers / Supervisors | No loss of critical issues between shifts; better accountability |
| 5 | Shutdown & LOTO Validation with Visual Proof | Shutdown Teams | Higher shutdown safety & compliance; reduced risk |
| 6 | EHS Hazard Reporting in Real Time | All Plant Staff | Higher hazard reporting, improved safety culture |
| 7 | Management Meeting Intelligence on Demand | Plant Head / Ops / Maintenance Management | Eliminates manual reporting; faster, data-backed decisions |

4. Management & Leadership Use Case

Data Without Dashboards

During review meetings, plant walkthroughs, or crisis discussions, managers often depend on Excel sheets, PPTs, emails, or portal dashboards. With Meta glasses + OXY Agent, leaders can query live and historical data verbally while staying engaged in discussion.

EXAMPLE VOICE COMMANDS

"Hey OXY, what were yesterday's top three downtime reasons?"

"Show me which motor caused maximum production loss this month."

"How many PMs are overdue in rolling mill area?"

"Any critical EHS issues open right now?"

Hindi: *"Hey OXY, pichhle hafte sabse zyada breakdown kis machine mein hua?"*

OXY Response Features

- Spoken summary + key metrics delivered through glasses speaker
- Optional quick visual card on phone (if needed)
- Follow-up prompts for drill-down (root cause, owner, action plan)

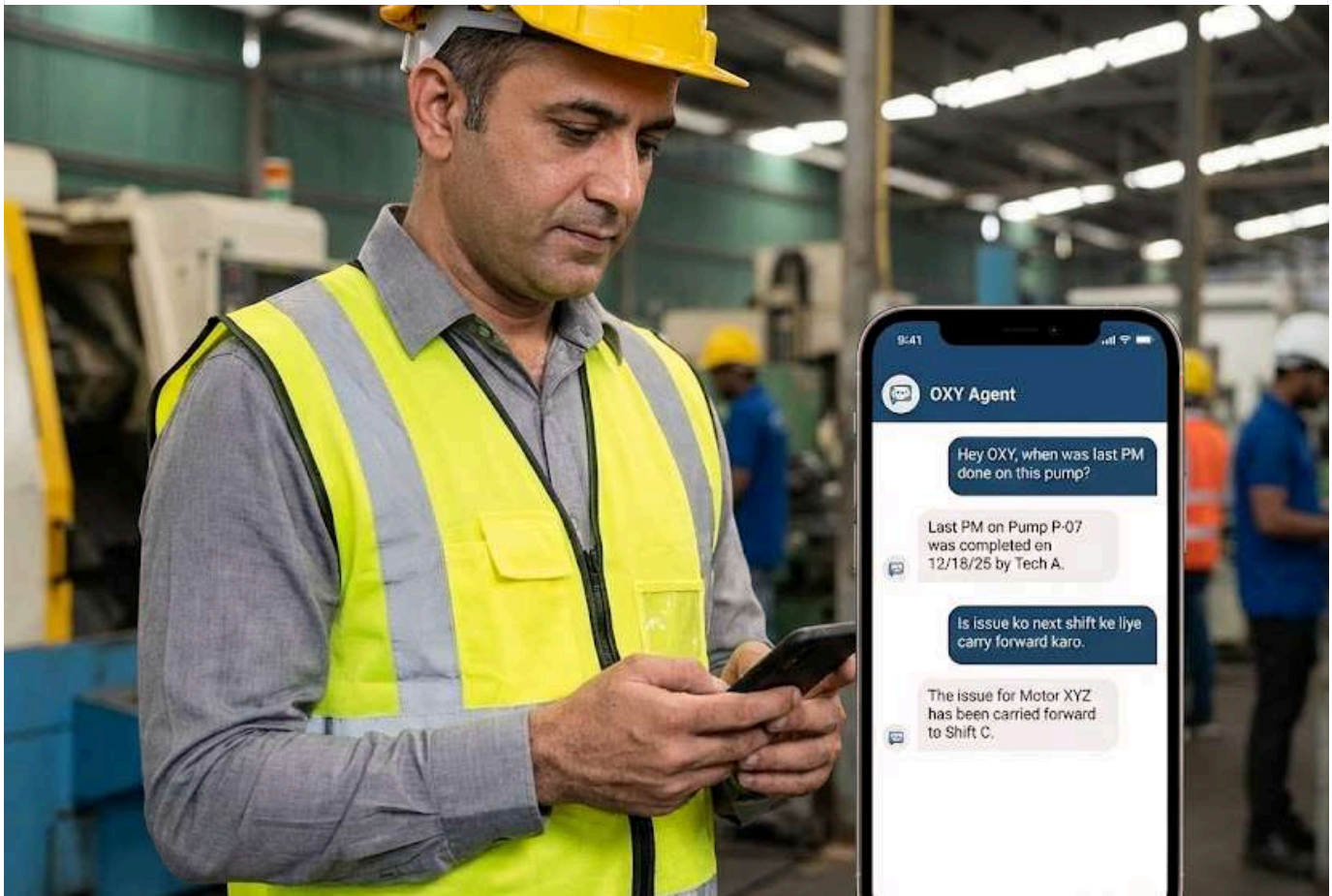
BUSINESS IMPACT

- Faster, fact-based discussions without interrupting meeting flow
- Reduced reporting overhead – no more waiting for compiled reports
- Leadership confidence in real-time plant intelligence

5. Multilingual Voice Access (English / Hindi)

OXY Agent supports bilingual interaction to match plant-floor realities. Users can freely switch between English and Hindi without changing settings. This significantly improves adoption among technicians, supervisors, and contract workforce.

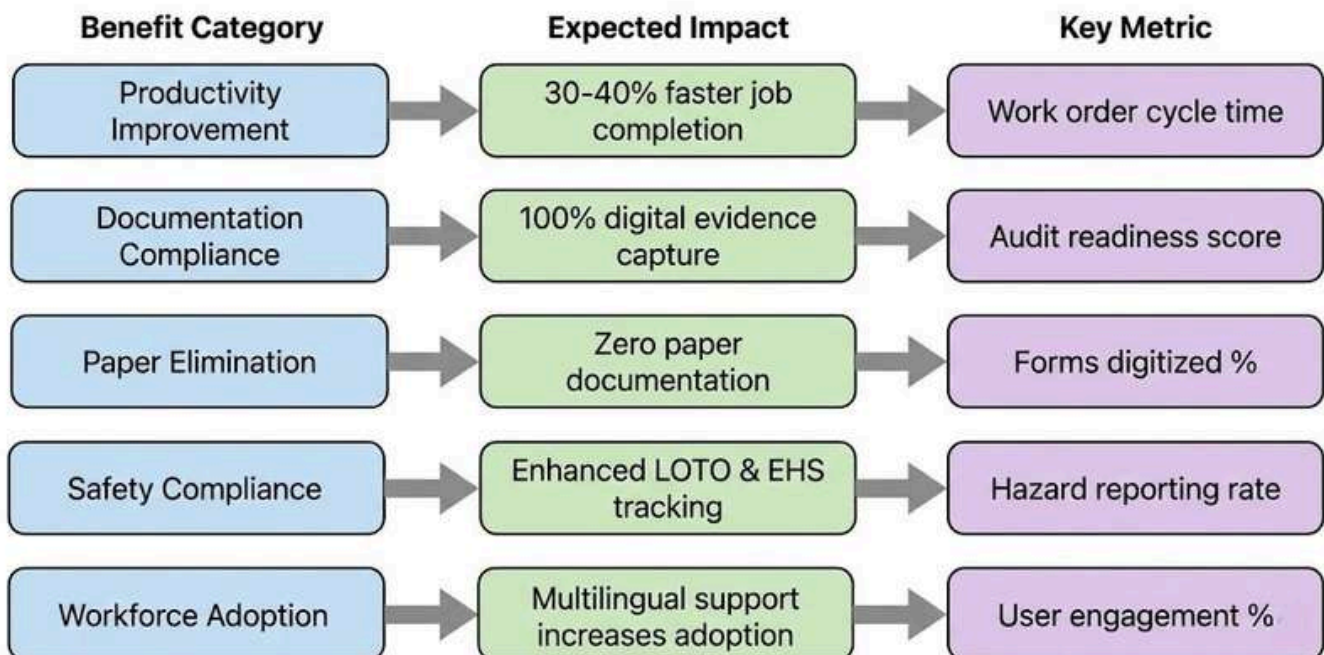
| English Commands | Hindi Commands |
|---|--|
| <i>"Hey OXY, when was last PM done on this pump?"</i> | <i>"Hey OXY, is machine ka last breakdown kab hua tha?"</i> |
| <i>"Carry forward this issue to next shift."</i> | <i>"Is issue ko next shift ke liye carry forward karo."</i> |
| <i>"What was the maximum breakdown last week?"</i> | <i>"Pichhle hafte sabse zyada breakdown kis machine mein hua?"</i> |



6. Implementation Benefits

| Benefit Category | Expected Impact | Key Metric |
|--------------------------|---|-----------------------|
| Productivity Improvement | 30-40% faster job completion | Work order cycle time |
| Documentation Compliance | 100% digital evidence capture | Audit readiness score |
| Paper Elimination | Zero paper documentation | Forms digitized % |
| Safety Compliance | Enhanced LOTO & EHS tracking | Hazard reporting rate |
| Workforce Adoption | Multilingual support increases adoption | User engagement % |

Implementation Benefits Flow



7. Contact Information



Transforming Industrial Maintenance with Artificial Intelligence

- On-premise AI deployment with local LLMs on NVIDIA GPUs
- Complete data sovereignty—production data never leaves your facility
- 32% downtime reduction and 18% cost savings reported by customers
- Modern architecture with continuous innovation and support

Contact Information

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[Schedule a personalized demo: Scan QR Code](#)

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