
HRI Project Weekly Update

Milipol TechX 2026 - Cognitive Robotics Demo

Week of **February 10, 2026**

Current Progress & Status

Dashboard UI

- Multi-camera monitoring system with live streaming
- Real-time metrics: bandwidth, latency, FPS
- Recording controls per camera feed
- 3 active cameras: Front Left, GoPro, Front Right

Sprint 1 Deliverables (Feb 12)

- KogniGate API: WebSocket on port 43008
- TTS API: HTTP POST on port 8200
- FR API: WebSocket video streaming
- Edge Proxy: Navigation control on port 8080

SPRINT 1

COMPLETE

NEXT PHASE

SPRINT 2

KLASS Cognitive Robot

VLM: Waiting for video input...

LIVE TRANSCRIPT

MIC INPUT

Sprint 2 Priorities

Feb 13 - Feb 26: Speech Loop Works

End-to-end conversation: **Wake word** → **STT** → **LLM**
→ **TTS** → **Speaker**

- State machine implementation
- DAG planning with LLM integration
- KlassUI Dashboard scaffold
- WebSocket connections to all services
- Basic scenario testing

Key Targets

