Intel Edge and Physical AI

Web Summit Demo Fact Sheet

At Web Summit 2026, Intel demonstrated how AI running at the edge can help organizations understand physical environments, automate real-world operations and deploy intelligent systems across cities, retail, healthcare and manufacturing.

Cities

Cognitive Airport: Unified AI-Powered Airport Operations
This demonstration brings airport operations, security, facilities and passenger systems into one operational intelligence environment. Built with Dell Technologies, Intel and Astrikos technologies, the solution delivers real-time visibility, predictive insights and intelligent automation from terminal endpoints to the centralized analytics backend.

Cognitive Cities: Citywide Intelligence at the Edge
This demonstration shows how distributed AI agents can sense, reason and coordinate across city infrastructure, public-safety and mobility systems. Intel Core Ultra Series 3 platforms, Intel Metro AI Suite and SpadEx agent orchestration support scalable, private and data-sovereign intelligence at the edge.

Intel SceneScape: Measure Every Moment
Intel SceneScape turns camera feeds into anonymous spatial intelligence, measuring visits, occupancy and engagement time in physical spaces. Running locally on Intel technology, the demonstration shows how organizations can gain responsive insights for event engagement, retail traffic, queue monitoring and space utilization.

Security and Guiding Robot Dog
A Unitree A2 robot dog answers questions about the Intel booth, guides visitors to demonstrations and uses vision AI to describe its surroundings. Conversation, speech, vision and autonomous navigation run locally on Intel hardware, without relying on cloud connectivity.

Retail

Ella: Physical AI for the Service Economy
SensoryAI's Ella combines AI agents, computer vision and robotics to engage with customers, manage operations and serve made-to-order beverages. Running on Intel Core Ultra Series 3 processors at the edge, Ella handles customer conversation, business intelligence and system monitoring, while a deterministic orchestration layer commands the robot.

Pourfection: Beverages and Drinks, Reimagined
TendedBar's compact automated beverage platform takes visitors from touchscreen selection through precise beverage dispensing. Intel Core i5 vPro-based Lenovo ThinkCentre systems coordinate ordering, recipes, transaction data and dispensing controls locally.

Healthcare

Cyberworks Autonomous Wheelchair
Cyberworks' autonomous wheelchair uses the OmniSuite Physical AI platform, optimized for Intel computing technology, to support perception, navigation, obstacle avoidance, motion control and intelligent safety. The demonstration also shows how the same autonomy platform can be adapted for material handling, cleaning robots, logistics vehicles and other intelligent machines.

Liquid AI: Local AI for Life Sciences Research

Liquid AI's LongevityLFM and BioLFM models run locally on Intel Core Ultra Series 3 processors to support life sciences research. In an interactive challenge, LongevityLFM helps researchers prioritize drug targets for aging research, while BioLFM designs proteins from structural motifs, sequence patterns or functional descriptions. Because both models run entirely on the AI PC, sensitive research and patient data stays on-premise.

Manufacturing

End-to-End Physical AI: Development to Deployment

This demonstration shows how Intel's OpenVINO Physical AI framework and Physical AI Studio can simplify the development, training and deployment of intelligent robotic systems at the edge. Robots learn tasks through demonstrations and Vision-Language-Action models, helping manufacturers adapt automation to new parts and high-mix workflows without rewriting rigid control code.

Oversonic RoBee R20 Industrial Humanoid

Oversonic Robotics' RoBee R20 performs an autonomous manufacturing cycle involving machine interaction, material handling, vision-based perception and force-sensor feedback. Powered by Intel edge computing, the robot recognizes its workspace, plans movements locally and carries out production tasks without depending on the cloud.

AI Agents and Avatars

Concierge AI Avatar: AI-Powered MetaHuman Experiences with Real-Time Interaction

This interactive MetaHuman experience is built in Unreal Engine 5.8 and uses Convai for real-time voice conversations and natural character interactions. Claude, connected through an MCP endpoint, helps develop and modify the virtual environment, character presentation and scene functionality directly within Unreal Engine.

Unleashing Agent PCs: Personal Home AI Agent Orchestration

This demonstration shows a hybrid agentic AI workflow, using OpenClaw and Hermes on Intel Core Ultra X7 processors, that combines multiple models, MCP integrations and local tools to automate tasks and enhance productivity. By offloading code generation and AI workloads to an Intel Core Ultra Series 3 device with integrated Intel Arc B390 graphics, users can reduce token costs while maintaining responsive, local AI performance.

About Intel

Intel (Nasdaq: INTC) is an industry leader, creating world-changing technology that enables global progress and enriches lives. Inspired by Moore's Law, we continuously work to advance the design and manufacturing of semiconductors to help address our customers' greatest challenges. By embedding intelligence in the cloud, network, edge and every kind of computing device, we unleash the potential of data to transform business and society for the better. To learn more about Intel's innovations, go to newsroom.intel.com and intel.com.

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