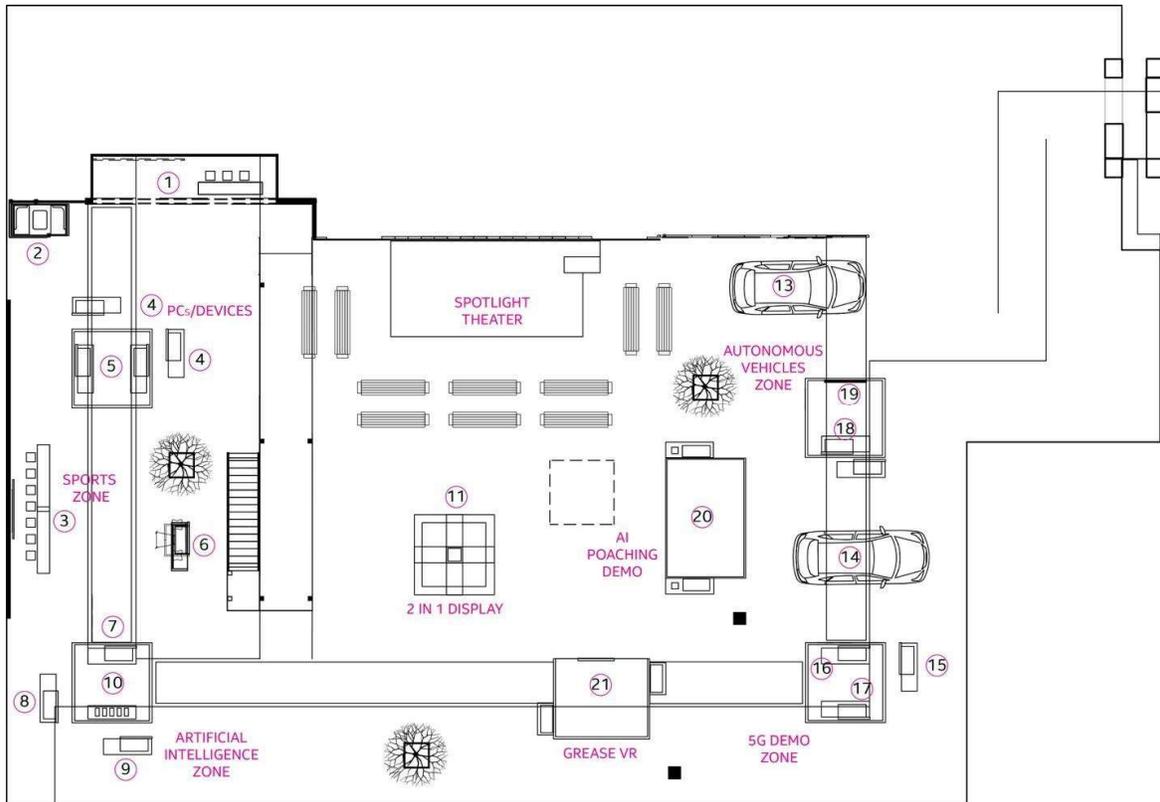


Demonstration Booth Map



Demonstration Legend

| Automated Driving | Artificial Intelligence |
|--|--|
| Autonomous Driving through Jerusalem (#13) | Trail Guard AI Anti-Poaching Solution (#20) |
| Autonomous Vehicle Entertainment Experience (#14) | Expression Controlled Wheelchair (#7) |
| Road Experience Management: Mapping for the Autonomous Future (#18 & 19) | Bringing Characters to Life on the Silver Screen (#10) |
| 5G | Intel Capital Innovation (#8) |
| Cloud Gaming (#15) | Future of Compute |
| Tactile Augmented Reality (#16) | PC Creators Zone (#1) |
| Additional Activations | Voice on PC (#2) |
| Drones (#6) | PC Gaming Arena (#3) |
| Smart City - Gorilla Edge AI (#9) | Gaming Eye Tracking Experience/Personal Streaming Experiences (#4) |

| Additional Activations (contd.) | Future of Compute (contd.) |
|--|-----------------------------------|
| Quantum Computing (#12) | Next-Gen Wi-Fi (#5) |
| Holographic Collaboration (#17) | Gigabit Wi-Fi Connectivity (#5b) |
| Immersive Cinematic Experience (Grease Experience) (#21) | 2 in 1 Experience (#11) |

AUTOMATED AND AUTONOMOUS DRIVING

Autonomous Driving through Jerusalem (#13)

Don virtual reality goggles to experience Intel's autonomous vehicles in action during a drive through the notoriously challenging streets of Jerusalem – a city known for its complicated traffic merges and lack of perfectly marked roads, which by design will help to prove out Intel's differentiated approach. Mobileye advocates cameras are the only real-time sensors suited to reading traffic signs and figuring out the drivable paths and has developed cars with eight cameras that provide long-range surround view and four cameras for parking. Experience camera-centric sensing all built on powerful and efficient compute.

Autonomous Vehicle Entertainment Experience (#14)

Have you ever thought about what you might do with all the extra time you will have when your autonomous vehicle drives for you? Intel and Warner Bros.* have teamed up to reimagine the experience of being a passenger all while helping keep them safe.

Road Experience Management: Mapping for the Autonomous Future (#18 & 19)

Autonomous vehicles need incredibly precise maps to localize themselves to a much higher accuracy than the more familiar GPS maps we use to get from point A to point B today. Mobileye's solution is to harness the power of the crowd. Vehicles equipped with Mobileye technology send real-time road data and landmarks to the cloud. The Road Experience Management (REM) technology is a complete car-to-cloud solution for high-definition mapping that can be shared with all other autonomous vehicles.

ARTIFICIAL INTELLIGENCE

Trailguard AI Anti-Poaching Solution (#20)

Intel AI technology is enabling entirely new ways to solve world problems. In this experience, Intel demonstrates how the Resolve Trailguard* camera – which uses artificial intelligence powered by Intel® Movidius™ VPUs – is helping save wildlife. While some methods of catching poachers, such as monitoring ivory imports can be successful, they only work *after* the animals have been killed. The Resolve Trailguard camera uses AI technology to significantly improve protection of wildlife in preserves by helping identify poachers before they kill, and alerting rangers who can capture them in the field.

Expression Controlled Wheelchair (#7)

Experience the world's first motorized wheelchair that can be operated with facial expressions. Engineers and developers at HOOBOX* are using hardware and software technologies from the Intel® Artificial Intelligence portfolio to optimize their algorithms that detect and interpret facial expressions, giving tetraplegic individuals new autonomy to control their wheelchairs with just a glance. Thanks to an Intel® RealSense™ camera and specialized AI algorithms, the Wheelie detects 11 different facial expressions, such as a kiss, smile, frown, pain or surprise and translates them into motorized wheelchair controls. Leveraging AI and advanced vision technology, the Wheelie is an example of the potential for AI-driven assistive technologies that could have a sustainable impact on human caregiving.

Smart City - Gorilla Edge AI (#9)

As more municipalities and technology companies partner in the development of smart cities, surveillance has emerged as a must-have capability. Leveraging Intel's OpenVINO™ toolkit, used to create solutions that emulate human vision, Gorilla's* IVAR software allows cities to detect suspicious occurrences by effectively searching and tracking vehicles, objects and people. Developers can conduct real-time video analytics without the need for GPUs, which is projected to dramatically lower deployment costs as more video channels can be analyzed on the same hardware.

Bringing Characters to Life on the Silver Screen (#10)

Learn how Intel® Xeon® Scalable processors helped visual FX studio Scanline VFX* create a realistic-looking 90-foot megalodon for the movie "The Meg." To help reduce production time, Scanline used Ziva Dynamics* software to automatically create the physics that determine how the bone, muscle, and skin moves on the creature. With Intel® Xeon® Platinum processors driving increased compute power for artificial intelligence, visual effects (VFX) studios and filmmakers are able to create more lifelike effects in a shorter amount of time, saving them weeks of 3D FX work. Interact with a scene from the movie, changing the camera angles just like a VFX supervisor or film director.

Intel Capital Innovation (#8)

A showcase of Intel Capital portfolio companies using Intel® Architecture, spanning the newest neuromorphic chip architecture to Intel Xeon scalable processors, to overcome challenges and build the future.

5G

Cloud Gaming (#15)

Playing high-end console-quality games anywhere on any light PC becomes a reality with 5G-enabled cloud gaming networks. Intel powered 5G networks, together with an edge server, deliver high-performance and low-latency, giving gamers the "immediate response time" advantage anywhere, on nearly any type of device. Attendees will experience cloud gaming being delivered by Intel and its partner PlayGiga* over a live Ericsson* 5G network.

Tactile Augmented Reality (#16)

Intel and Nokia* have partnered to showcase the power of edge compute to provide reliable, low-latency network connectivity for a new class of applications delivering real-time response in collaborative augmented or virtualized use cases. In this hands-on demo, one to two players wearing HoloLens* AR goggles will try to solve a Rubik's Cube puzzle.

Holographic Collaboration (#17)

New usage models will be enabled by 5G networks. Watch as Intel RealSense cameras and the latest Intel-based PC platforms support holographic communication for futuristic collaboration. This might sound like a demo from the future but it's real, with equipment available today. The demo features Intel® RealSense sensors on an Intel-based PC, allowing real-time image digitalization.

FUTURE OF COMPUTE

Creator Zone (#1)

Today, everyone can be a creator. From simple YouTube videos to indie films, all it takes is a little guidance and the right tools. The combination of Intel's Creator PCs and industry-leading applications from Adobe* and Cyberlink*, it's easier than you think. Enjoy making a video using Cyberlink Power Director and the Intel Inference engine and see your video transformed in near real time using AI.

Voice on PC (#2)

Intel has partnered with Amazon* and Cortana* to introduce these digital assistants to desktops and notebooks in 2019. Delivering rich, hands-free, voice-first interactive experiences, new features and peripherals are expanding the voice footprint and giving people the freedom to choose their preferred assistant.

Gaming Arena (#3)

Go head-to-head with the pros as you experience the excitement of an esports match on an Intel® Core™ i9™ gaming platform. Three gaming notebooks and three gaming desktops are set up arena-style, with attendees taking turns joining in groups of three.

Gaming Eye Tracking Experience (#4a)

Rank up your gaming skills on new Intel platforms with Tobii eye tracking. After a match the game analyzer shows how much time you spent looking at the critical regions in the game and how focused or distracted you were during play, including gaze analysis and heatmap metrics.

Personal Streaming Experiences (#4b)

Experience firsthand the new tools and PC platforms for today's streamers, from amateur to professional, gamer to creator.

Next Gen Wi-Fi (#5)

Want to download a 4K movie faster than you can today? Try Wi-Fi 6 for yourself and play a VR game on a Wi-Fi 6 connection. Wi-Fi 6 is the new generation of Wi-Fi connectivity that is nearly 3x faster¹ and delivers up to 75% reduction in latency², bringing better performance in dense environments.

Gigabit Wi-Fi Connectivity (#5b)

Gigabit Wi-Fi delivers both the speed and capacity required to power the ultra-connected homes of today and tomorrow. Comcast* and Intel are collaborating on fast, high-performance Gigabit Wi-Fi that will be essential to operate ultra-connected homes. Attendees will see how it's possible to deliver gigabit speeds from Comcast's xFi Advanced Gateway connected to a PC with an 8th Gen Intel® Core™ processor with integrated Gigabit Wi-Fi.

2 in 1 Experience (#11)

Check out over 15 of the newest Intel® 8th Generation 2 in 1 systems showcasing the full gamut of innovation, from performance, form factor, connectivity, battery life and interaction.

DRONES

Drones (#6)

Experience the state-of-the-art for this emerging drone-powered entertainment art form. Intel developed a new form of art and entertainment based on drones flying with lights choreographed to music. Until now, these shows have only happened outside because they relied on GPS that is typically not available indoors. To solve the problem, Intel developed a positioning system that is integrated into a new drone, the Intel® Shooting Star™ Mini drone.

¹ 802.11ax 2x2 160MHz enables 2402Mbps maximum theoretical data rates, nearly 3X faster than standard 802.11ac 2x2 80MHz (867Mbps) Wi-Fi as documented in IEEE 802.11 wireless standard specifications, and requires the use of similarly configured 802.11ax wireless network routers.

² '75% reduction in latency' is based on Intel simulation data of 802.11ax with and without OFDMA using nine clients. Average latency without OFDM is 36ms, with OFDMA average latency is reduced to 7.6ms. Latency improvement requires that the AP and all clients support OFDMA.



Quantum Computing (#12)

Future quantum computers will contain thousands or even millions of qubits — and will be vastly more powerful than today's fastest supercomputers. Intel opens the door to the future of manufacturing, showcasing the spin-cubit wafer manufacturing process. Currently this technology is being used in small-scale production but could eventually scale to beyond thousands of qubits.

Immersive Cinematic Experience (#21)

Paramount* has teamed up with Intel® Studios to leverage volumetric data to reinvent the original film medium and to enable creators to do more with Intel® Core™-based PCs. Visitors will get a sneak peek of potential experiences, including an interactive movie poster presenting a volumetric promo.

About Intel

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