# Delivering the Software-Defined Edge

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# Opportunity at the Edge

## 50 percent

of Enterprise-managed data will be created and processed outside the data center or cloud by 2025[2]

[1] Predicts 2022: The Distributed Enterprise Drives Computing to the Edge, Gartner, 2021.

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# Key Technology Inflections at the Edge

Edge-native Software

Connectivity (5G, Multi-Access)

Artificial Intelligence

## Edge of the Future

Multi-Access/Hyperconverged

Real-Time/Deterministic

On-Demand/Dynamic

Energy Efficient/Sustainable

Massively Geo-Distributed at Scale

# Key Challenges and Considerations at the Edge

Network & Application Complexity

Legacy Infrastructure

Heterogenous Locations

Privacy & Security

Diverse Verticals & Fragmented Ecosystem

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DELIVER

## Economics, Ease of Use, and Experience for Customers

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# Intel's Portfolio Built for the Edge

## Accelerating Vertical Solutions to Maximize Customer Value

Performance Optimized, Workload-Aligned

### Software Portfolio

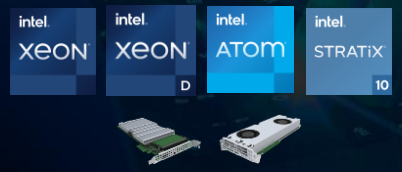
- intel SMART edge
- OpenVINO™
- Intel® FlexRAN
- Open Visual Cloud
- DPDK
- Edge Controls for Industrial
- Edge Insights for Industrial
- Edge Insights for Autonomous Mobile Robots (AMRs)

Complete Intel Solution Benefiting End

### Customers

Comprehensive, Edge-Centric

### Hardware Portfolio




Nurture & Enable

### Edge Ecosystem

- Service Providers
- Developers/ISVs
- Edge Stack Builders
- OxMs
- System Integrators
- Enterprises

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# Intel® Smart Edge

DEVELOPERS | BUILDERS | ENTERPRISES

Intel® Smart Edge is Edge-Native software that accelerates development and deployment of highly optimized, secure and scalable distributed computing platforms and solutions to unleash services at the Edge

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# Accelerating Time to Market for Edge Builders with Smart Edge Experience Kits

Reference Blueprints composed of a set of Building Blocks Carefully Selected, Optimized on IA and Integrated with Modern Tools to host a specific set of Edge Services

Pre-Validated | Pre-Integrated | Location / Use Case Optimized

## Private Wireless

## SASE
(Secure Access Service Edge)

## Developer

**Economics**
Pre-validated kits and specific K8s clusters ensure a working, verified blueprint, speeding deployment and revenue realization.

**Ease of Use**
Developer-friendly formats with Ansible scripts, helm charts, and setup playbooks, delivering **ease of use** and adoption.

**Experience**
Vertical reference implementations pull together the experience kit and commercial applications from a rapidly growing ecosystem of ISVs already validated on the Smart Edge portfolio.

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# Unleashing Developer Innovation on Smart Edge

## Creating an Innovation-Friendly Environment for Edge Developers

Experience Smart Edge capabilities with the

### Developer Experience Kit

- Edge Video Analytics Microservices (EVAM) with OpenVINO part of DEK for video analytics applications
- Edge Insights for Industrial (EII) offered as part of DEK allows for seamless data ingestion, analytics and insights for Industrial 4.0 use cases
- Arctic Sound-M (Intel GPU) enabled on DEK enables media processing and AI inference acceleration
- Support for RAN Intelligent Controller (RIC) for Network AI apps

Test and Prototype with Use Case specific

### Reference Implementations

- PCB Defect Detection
- Telepathology
- Telehealth
- Immersive Media
- Wireless-Ready Smart Intersection
- Intelligent Connection Management

Maximize Visibility to Edge Customers via

### Commercial Applications Portal

- 40+ Application Vendors & Growing
- Get enabled on Smart Edge Portfolio and experience seamless portability and interoperability across the different offerings
- Workload and Vertical Specific Apps

Find the Smart Edge Applications Portal on
Intel Network Builders
and explore our extensive
Edge Ecosystem

Developer Experience Kit & Reference Implementations only available in the Intel Developer Catalog

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# Innovating with the Ecosystem to Transform the Edge

## Partner Solutions powered by Smart Edge

Capgemini

Intelligent Traffic Management for Smart Cities

RAFAY

Enterprise Security Solutions

NEARBY COMPUTING

Media & AI Solutions for IoT

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