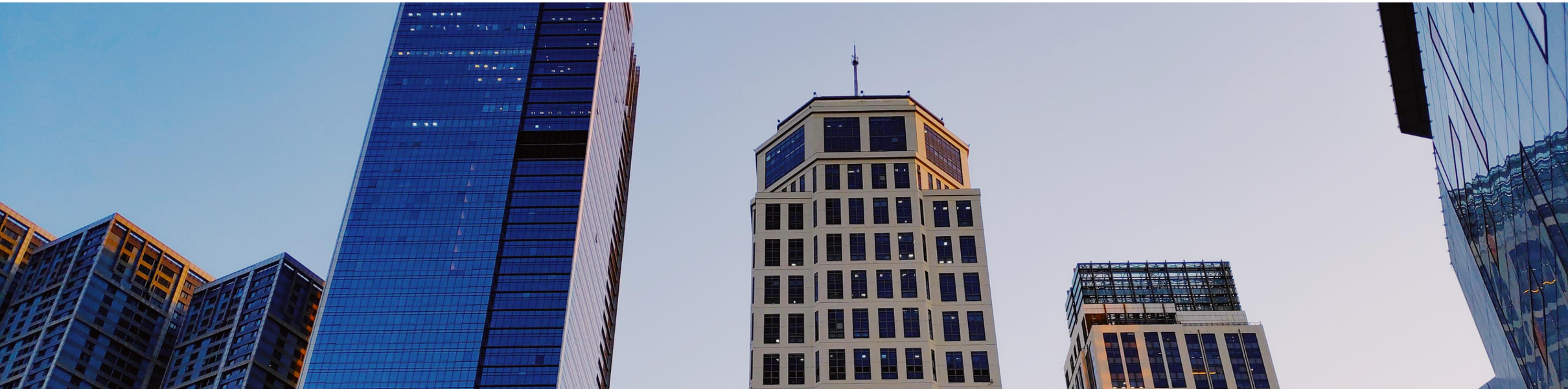# AmberFlux EdgeAI

helping enterprises achieve business goals with software for edge computing & AI
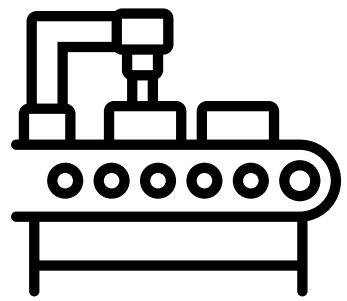
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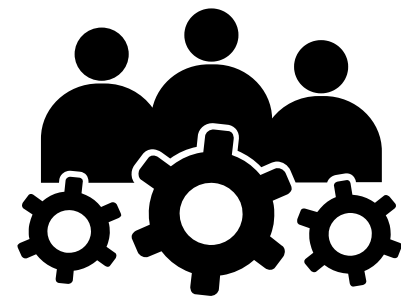
Present day challenges for Manufacturers & User Enterprises

Increased automation and integration of digital technologies bringing new challenges

Production data is huge

Average factory generates 1TB of production data per day; making it impractical to transfer and analyze data at the back end

Operations data is even bigger

Average manufacturer is able to analyze only less than 1% of data generated by the products even with IOT

Cyber threats are real

Cyber attacks on industrial facilities are up by 2000% since 2018.

Demand for Circular Economy

Sustainability and circular economy are fast getting regulatory and social responsibility ineeds

How much is it costing the manufacturers?

$28.2 Billion Per Year

Estimated Cost of reactive maintenance

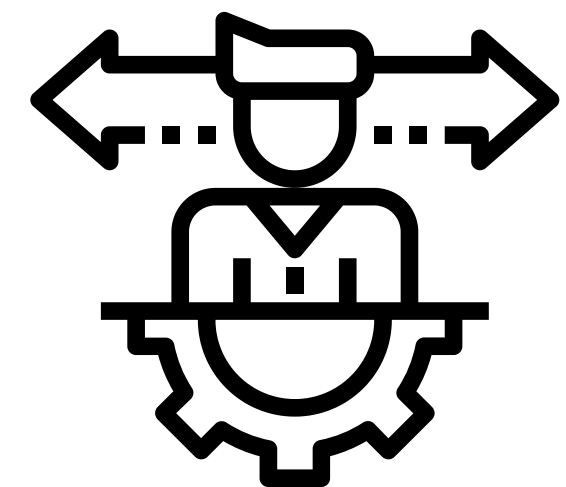**$50 Billion Per Year**

Estimated Cost of unplanned downtimes

Automated data driven decision making closer to the equipment makes faster, cheaper & better business sense as potential savings are huge

Sources for Estimates: Forbes, Gartner, McKinsey, PWC

EdgeAI helps in decision making where the real action is..

EdgeAI is about enabling AI based decisions on the equipment (or near to the equipment) that is generating the data

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Compute, analytics and storage closer to where the data is getting generated
- realtime data processing and decision making
- secure data processing
- improved user experience
- lower costs
- improves lifetime of the equipment
- improves company's LTV/CAC

Why now?

The market is growing

Enterprises have a need for EdgeAI

Tech Infrastructure is ready for business

5G, IOT & SOC infrastrcture is now ready for EDGEAI

Enterprises want efficiency

People want a simple and easy way to control their digital business roll-outs and IT/OT infrastructure

AmberFlux

AmberFlux

AmberFlux EdgeAI offers deep, differentiated & valuable technology suite to lead EdgeAI adaptability

✔ **Enables AI based analysis, learning & inferencing on equipment or edge computers**

✔ **Easy integration with IT/OT**

✔ **Can be deployed on any edge, IOT, SOC hardware**

✔ **No need for any new microprocessors/chips**

✔ **Risk free rapid deployement**

✔ **Secure management & remote config & control**

AmberFlux Market Recognition
Since incorporation in Aug 2020

Selects AmberFlux as a
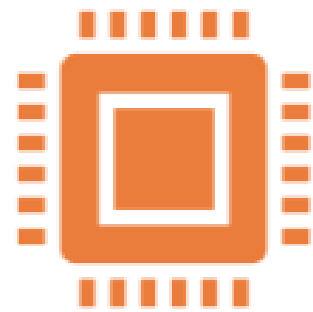finalist at Start Up of the Year 2020 competition
(Oct 2020)

Names AmberFlux as one of the
60 Edge Computing Companies to Watch in 2021
(Apr 2021)

Shortlists AmberFlux as one of the
deep tech pioneers for Industrial IOT
(Sep 2021)

Our EdgeAI Product Bundles

AmberFlux Opus

EdgeAI software that runs on devices/equipment

Sense, learn & act at the edge

AmberFlux Concerto

Edge & Cloud enterprise containers and APIs for integration with IT/OT

Data & Protocol transformations

Opus Dashboard

Orchestration & Visualization software to manage millions of edge devices.

Remote deployment, updates & operations for EdgeAI

Solution Value Proposition

EdgeAI Intelligence

- Enable actionable, real-time, IOT, edge operations data management
- Bridge OT-IT data
- Enable learning at the edge, not just inferencing using Artificial Intelligence
- Realtime responsiveness
- •Streaming data management

EdgeAI Data Management

- Fast data onboarding
- Data self service tools for easy management
- Easy data pipeline orchestrations
- AI driven meta data discovery
- Data lineage automation
- Sensitive data management

EdgeAI Analytics

- Embedded analytics and AI/ML models
- Ad-hoc analysis and self service
- User centric reports and dashboards
-

supports seamless edge-cloud ops; IT-OT integrations, legacy-modern app infra support; unified controls & reports

Example EdgeAI Use Case:
Equipment Health Monitoring & Maintenance

Best HeavyProducts Inc manufacturers equipment for industrial use. Such equipment play critical role in 24x7 production and usage operations. Any downtime means loss of revenue, increased costs.

With EdgeAI, Best HeavyProductsInc can monitor machine data with sensors; detect issues, analyze what caused them; act on guidance to improve health & performance of equipment; guide users to prioritize machine health management

EdgeAI helps in reducing unplanned downtimes, lower costs and increase resilience.

Example EdgeAI Use Case: Refrigerator Maintenance

RealCold Inc., supplies refrigerators to super markets on a rental basis. RealCold is committed to ensure SLAs are met. RealCold has branding agreements with consumables suppliers who discounts cost of operations provided retail stores keeps their products in the front.

With EdgeAI, RealCold Inc can track the functioning of the refrigerator. It can also track which products are kept prominently with EdgeAI product analysis. Can generate notifications, corrective actions etc.

EdgeAI helps in Preventive and Predictive Maintenance. It also helps in tracking commercial contracts and SLAs.

Example EdgeAI Use Case:
VoiceAI based Notifications & Reminders

John works at a steel plant. He handles hazardous equipment. He needs to adjust settings remotely.

With EdgeAI connected to the control systems, John can get alerts and control the equipment with voice commands via alexa, siri etc.

Settings are adjusted based on John's voice commands. When tasks are completed, system notifies John via voice notifications.

EdgeAI helps in ease of man-machine interactions and improves efficiency and reduces costs.
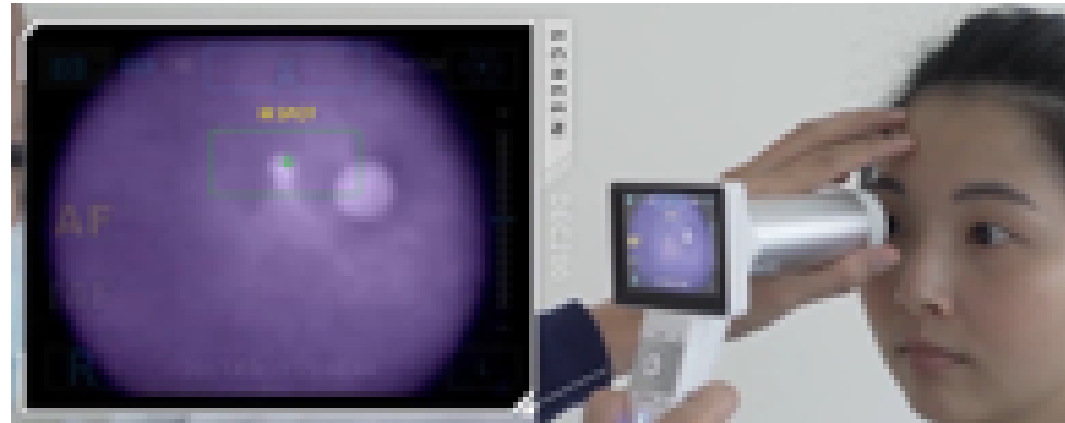
Example EdgeAI Use Case:
Supply Chain Quality Assurance

SafeTransport Inc., moves sensitive goods from place A to B safely and efficiently. They maintain right temp, vibrations etc for the goods on the move.

With EdgeAI, SafeTransport can track the parameters that are critical for safe transport and generate analytics on the go. EdgeAI can provide notifications, reminders to take corrective actions if needed.

EdgeAI helps in real time monitoring, control and instant corrective actions to prevent damage to the goods.

Example retinEdge Use Case:

Eye Exam Anywhere, Anytime & Detection of Diabetic Retinopathy

Susan lives in a small town and wants her eyes checked. Specialist is not available. A non-specialist takes pictures of her eyes.

retinEdge analyses the images for abnormalities and signals characteristics of different ophthalmic diagnostics.

Analysis is done in realtime without human intervention, insights generated and relayed to specialist. Susan can visit specialist, if needed.

EdgeAI helps in reducing strain on health care system and network infrastructure as info is processed on device.

retinEdge
AI FOR EYE CARE
INITIATIVE FROM AMBERFLUX

Example EdgeAI Use Case:
Insulin Pump

Lucy is diabetic and uses an insulin pump equiped with sensors collecting data from her vital signs.

With EdgeAI the device analyses whether Lucy's vitals are within a tolerable range or not and triggers responsive actions. EdgeAI can also trigger alerts for abnormal functioning of the insulin pump.

Treatment is done in realtime, keeping Lucy healthy and happy.

EdgeAI helps in monitoring, providing personalized treatment and fast accesibility to expert without straining the patient or doctor or the infrastructure.

Names used for illustrative purpose only. Not related any entity or person by those names

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