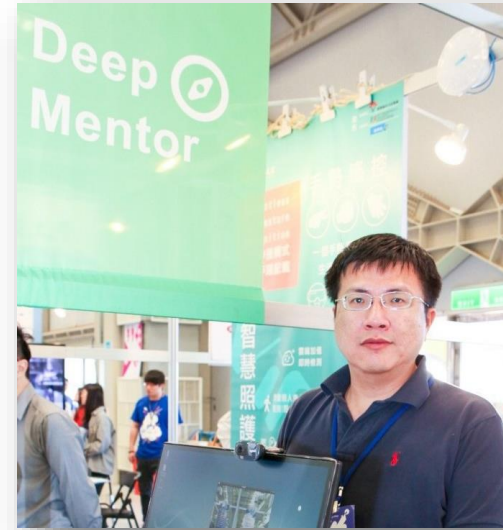


DEEPMENTOR

The Best Edge AI Computing Solution Provider

Our Company

- Founder & CEO: **Dr. Jack Wu**, PhD of EE, NTU
- Established in **2018** in Hsinchu, Taiwan
- Leading **AI Miniaturization Technology** for CNN/RNN
- Strong R&D capability in **IC Circuit Design on FPGA**
- Innovated **Edge AI Box** offering optimized AI turnkey solutions
- Through our **Web-Based Training Platform** to provide a complete process from data-upload for retraining to technique supports
- **6** international patents granted, **24** articles on major scholarly journals & **20+** on-going projects
- Top Award:
 - 2020 Cloud computing & IoT Association First Prize, Best Investment Award, 2020 TCA AI-Contest Award, 2020 AI-Star Award & 2020 Taira Award



Challenge of Data Analytics & AI

Data Storage + Power Consumption + Transmission Bandwidth +
Computational Resources = Cost of Cloud AI & Data Center

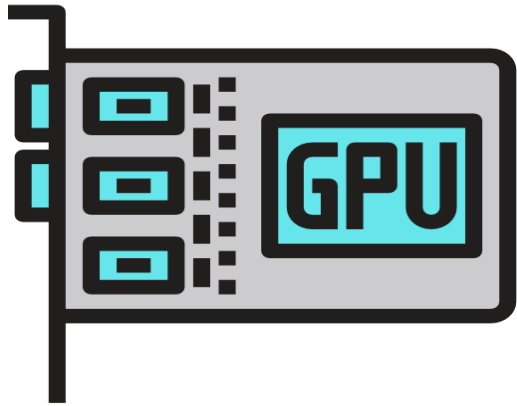
12% Data Analyzed | 3% Data with Meaningful Result | 97% Data GIGO

High Cost & Low Efficiency

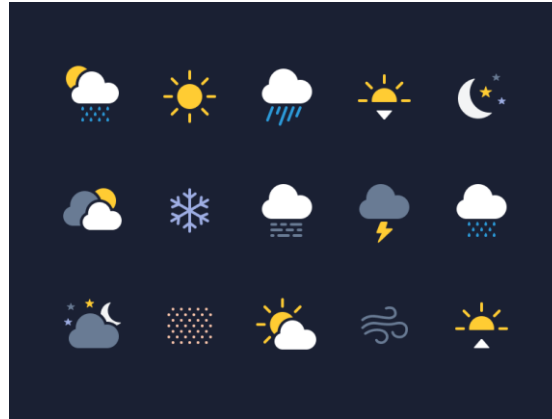
Edge AI to Enhance the Efficiency of Data Analysis & AI

DeepMentor's Miniaturization Technology
Can Save the Cost & Stay with Accuracy

Key Challenges of Edge AI



GPU server is not suited as Edge AI device, due to High Power consumption Overheat by 40° easily

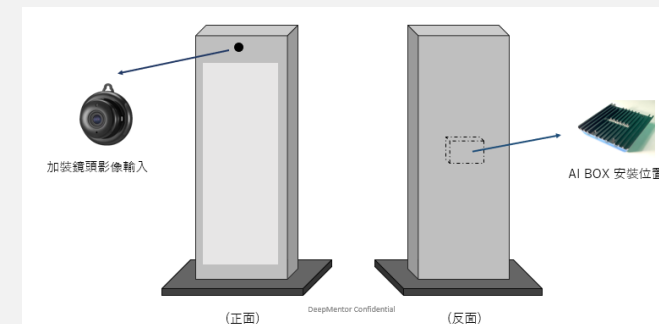


Only tiny AI model be able built-in Edge devices
Only simple function & climate change affect AI accuracy



Accuracy drops **5-15%**
Even well-known and big companies still face this critical Dilemma

How We Solve The Challenges?



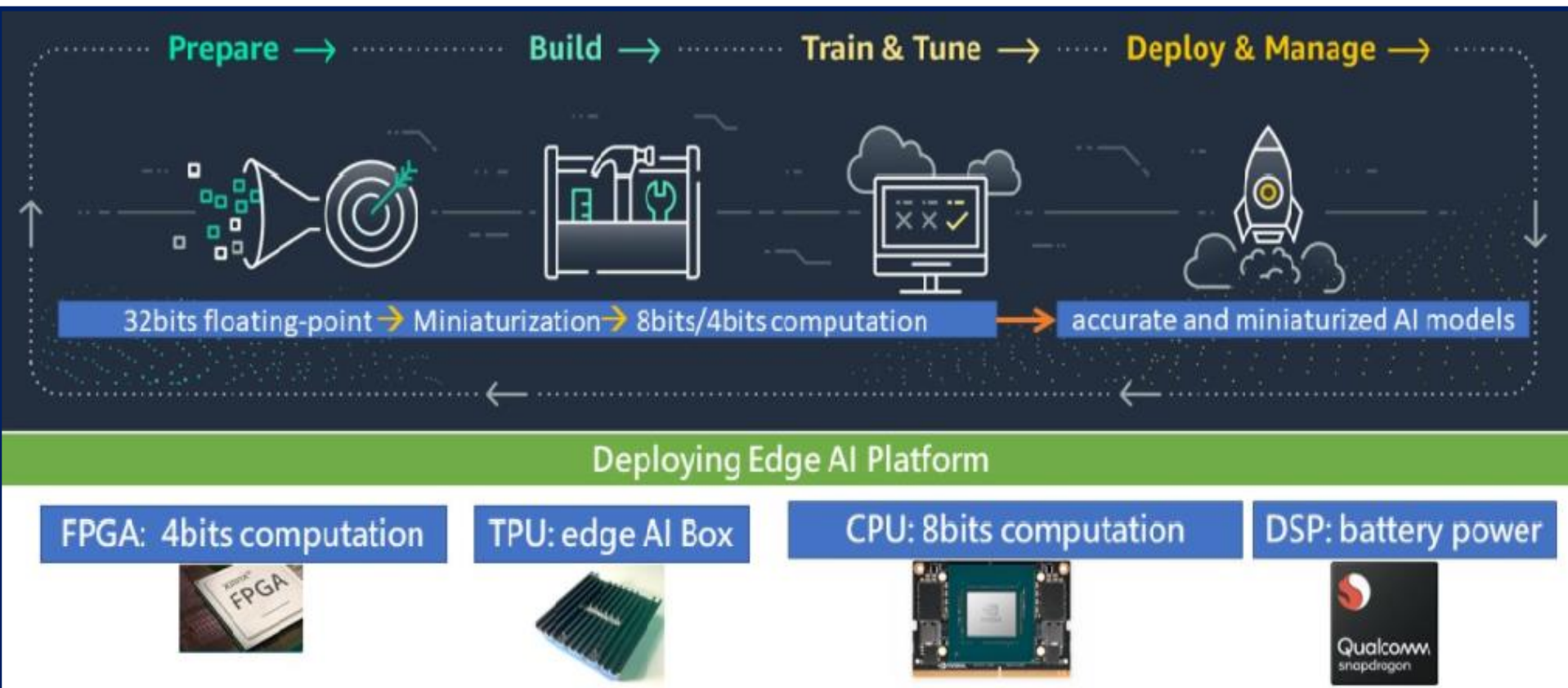
Miniaturized The Most Powerful & Popular AI Model Into **10M+** parameters with Less H/W Cost & Power Consumption

Accuracy **99+%**

Our End-to-End Edge AI Miniaturization Container Package

DeepLogMaker® Miniaturization Models

- Melanoma Classification
- Pose Estimation
- Medical Image Analysis
- Object Detection
- Face Detection
- Face Recognition
- People Tracking
- Age_Gender Estimation
- Others...



Product — Edge AI Box

Smart Advertising player

Functions	Applications
Crowd analysis	Get the statistics data of people hourly
Unique analysis	Filter data follows requirements (Such as: gender, age,..)
Gold-time recommendation	Analyze the audience when they're watching ADs, then adjust the gold-time automatically.
Eye-tracking analysis	Eye tracking analysis→ Record the time of visitor look at the screen. Then it will analyze the effectiveness and efficiency of that AD.

Smart bus

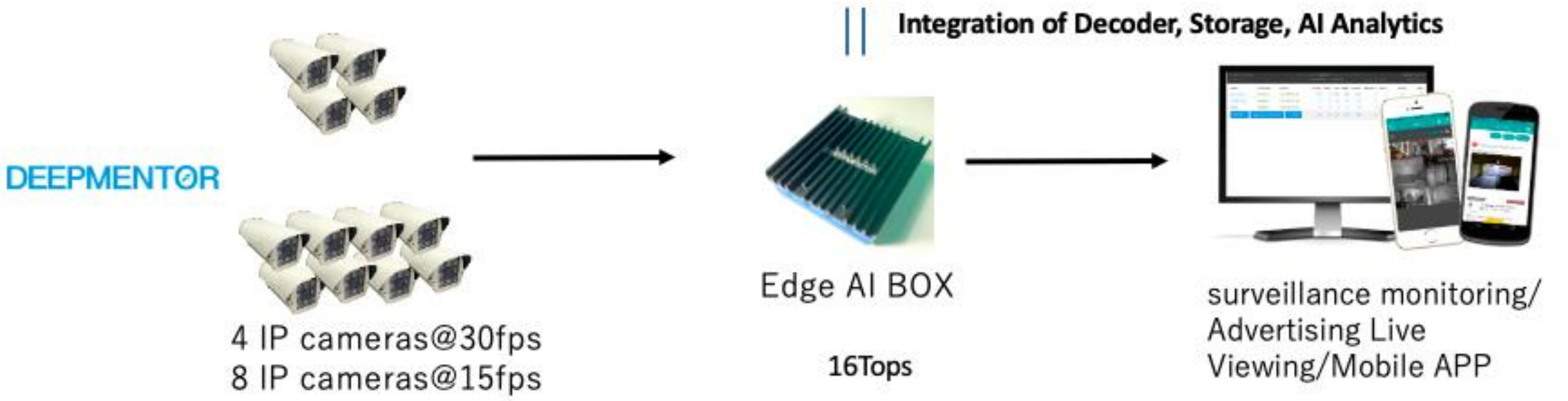
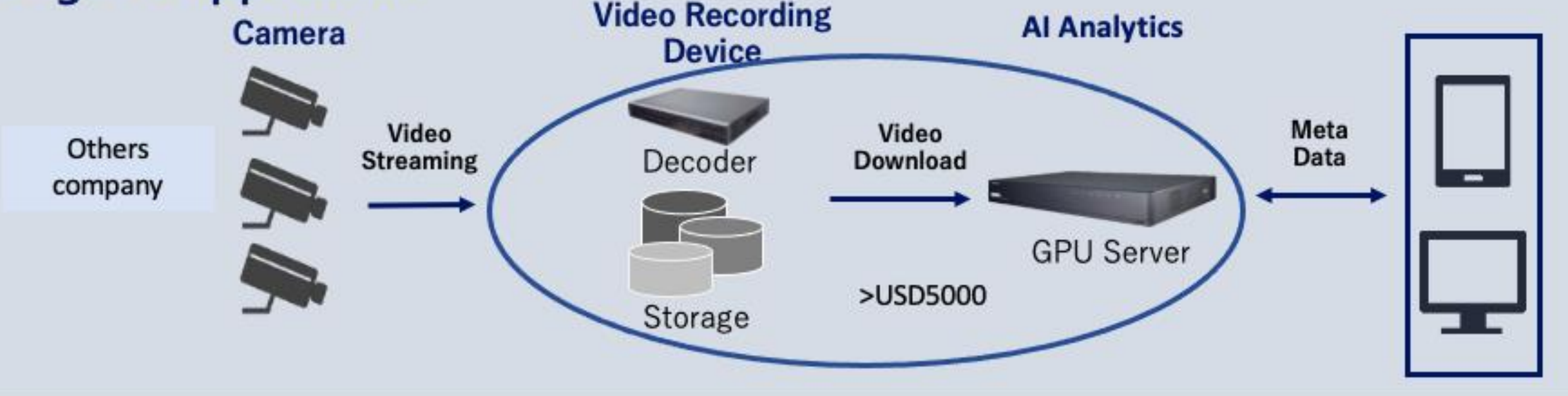
Functions	Applications
Interval arrival reminder	Automatic communication and connection between the bus and the station, which can accurately report the arrival time to the passengers
Display of the number of passenger seats and standing positions	Advance the number and location of seats on the bus
Mask recognition system	In response to <u>Covid 19</u> precautions, if a passenger has a fever or does not wear a mask, the driver and the platform can be notified immediately and take further action.
Smart advertisements	Recommend the best advertising time, or arrange the order of advertising



DMAI-900

- Slim Design
- Up to 4 AI algorithms parallel process
- Powerful Computation & Power Saving
- High accuracy
- Industrial specifications

Edge AI Application



Advantage of DMAI-900 as the First-Line Filter in 5G Era

- ❖ Super Power Saving (20W)
- ❖ More AI Models
- ❖ Lower Transmission Cost
- ❖ Short Response Time
- ❖ Lower Hardware Cost

Saving 5X ~100X

(vs. GPU Server & Cloud AI)

DMAI-900 (20W)	VS	GPU Server for Edge AI (500W)
8bits , 4 camera@30fps		32bit
Parallel processing of multiple professional AI models (up to 4)		Only one AI model can be executed at a time
Temperature Range, Industrial Specification -20 to +85°C		Temperature range, commercial specification 0 to +40°C
Integrated Decoder, AI Inference. Multi-Functional Device with Extension Capability		

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