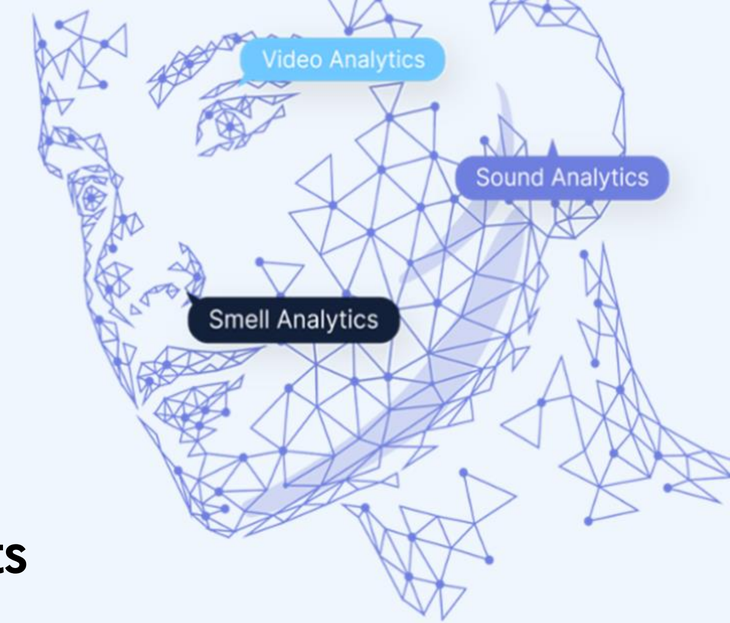


Mass Customization

iOmniscient

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Need for AI Mass Customization



- **Every User’s Situation is Unique**
  - Standard AI models cannot satisfy every user’s specific requirements
  - Traditional AI customization has been impractical due to complexity, cost, and technical limitations
- **Boundaries of existing AI:**
  - Users often do not have sufficient datasets for training
  - Data labeling and model training are expensive and labor-intensive
  - Traditional AI models are black boxes that are difficult to modify or improve
  - Training requires expensive GPUs and heavy computing resources

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Challenges of Traditional AI



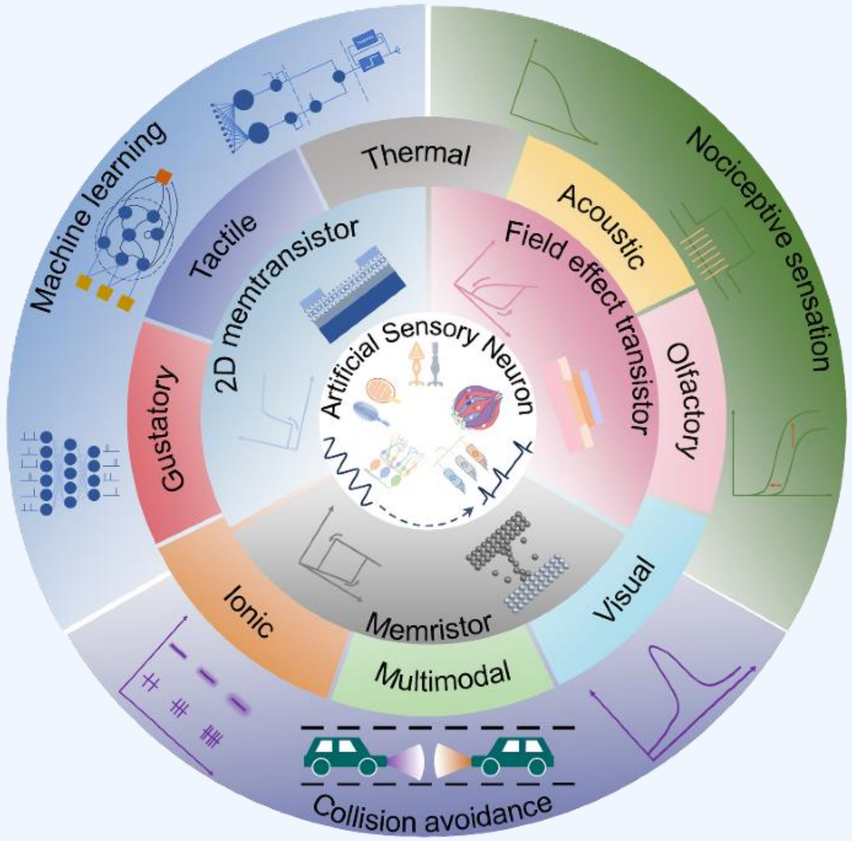
Many users do not have enough training data	Preparing and labeling datasets requires significant time and cost	Existing AI models are difficult to understand, customize, and improve	AI training depends on expensive GPUs and heavy computing resources
Insufficient Training Data	Expensive Data Labeling	Black-box AI models	High Computing Cost

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AI Mass Customization

Achieving the cost benefits of scale while ensuring each user gets a solution to fit his specific needs

- Internationally Patented Capability
- Multi-sensory Analytics
  - Video
  - Sound
  - Smell



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iOmniscient Technology

Built & Owned AI
- All AI products are developed and owned by iOmniscient
- Easy to customize for customer-specific requirements

Minimal Training Data
- AI models can be built using only 0-50 images instead of 50,000+

Computing Light
- No GPUs required
- Lower computing costs

Extensive AI Portfolio
- More than 300 AI applications
- Supporting 30 different industries
- Only minor customization is usually needed

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Key Benefits

Fast Implementation

- Customization can be completed in hours, days, or weeks instead of months or years

Easy Fine-tuning

- In-house algorithms allow easy optimization for specific customer requirements

Cost-effective

- Minimal labeling and training
- No expensive GPUs
- Lower implementation costs

Sustainable AI

- No GPUs required
- 16x lower power consumption
- More environmentally sustainable AI systems



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iOmniscient & intel

Partnership

All iOmniscient Products run exclusively on Intel based computing hardware using OpenVINO™

- The use of Advanced AI technology that goes beyond Deep Learning enables iOmniscient to run its systems without the need for 3rd party GPUs.
- This reduces the power required by a factor of 16 – resulting in a 16-fold reduction in the carbon footprint.
- This is just one part of a multi-faceted program to help customers to implement Sustainable Systems.

www.iomni.ai

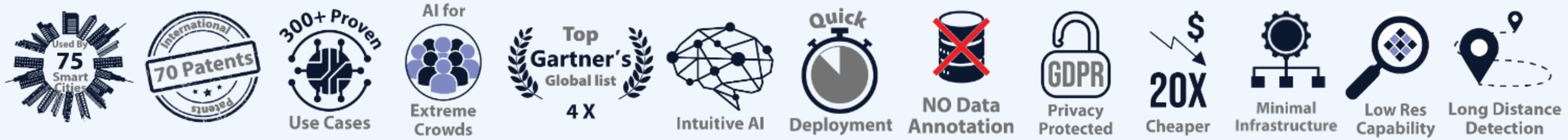
enquiries@iomni.ai

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About iOmniscient

- iOmniscient is an **Ethical AI** company.
- It offers **multi-sensory (video-sound-smell) Artificial Intelligence based analytics for Autonomous Systems.**
- It focuses on ensuring **Outcomes** for its customers.
- With **over 2 decades of experience,** iOmniscient systems have been demonstrated to be **robust,** operating with high accuracy and few false alarms specially in **complex and crowded** environments.
- By design, its systems **reduce the cost of infrastructure** required:
  - they can use existing cameras
  - they require fewer cameras with lower resolution
  - they require 90% less storage and network bandwidth
  - they are computing light and require no GPUs
  - they allow autonomous operations requiring fewer personnel to operate
- iOmniscient has implemented projects in **70 countries.**
- With over **70 international patents** many of its capabilities are unique and unavailable from any other source.





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