



#### **Pete Bernard, Executive Director**



BOSTON UNIVERSITY COLLEGE OF ENGINEERING

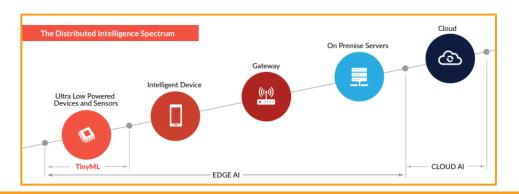


- EDGECELSIOR Founder & Principal
- Microsoft 18 years
  - Senior Director Azure Edge HW/5G
  - Principal Group PM Windows & Devices Products
- Silicon Valley 14 years
  - Insignia Solutions Chief Product Officer
  - E Color VP Products
  - Phoenix Technologies Director of Technology
- Seven patents in security, imaging, smart wearables, and music streaming

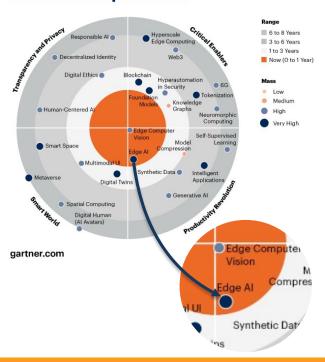


### **Edge AI is Transforming the Digital Landscape**

- Advances in semiconductors, connectivity and software have enabled a wave of AI on devices that connect to the cloud
- These capabilities are transforming healthcare, agriculture, manufacturing, retail and more...
- They take the form of low power sensors, cameras/imaging devices, gateways and robotics platforms – running AI Models with cloud-to-edge management and security



#### **2023 Gartner Emerging Technologies** and Trends Impact Radar





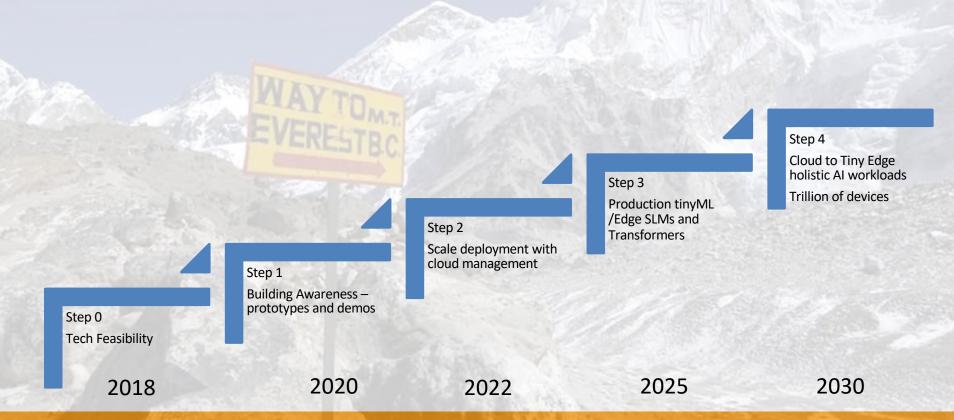
#### The State-of-the Art is Moving Quickly

- Al models can run as small as 5kb on sensors using only milliwatts – solar and battery powered
- Low power wireless connectivity such as LoRA and 5G Redcap are enabling far-flung deployments
- Generative AI models coming to the edge – Meta's LLAMA model shrank 10x in 9 months – for rich sensor descriptions and enhanced telemetry
- "Observational learning" is enabling robotics platforms on the edge with Generative AI





### **Climbing Up tinyML Mountain**





## tinyML® Foundation is "what's next" in Edge Al



20.5k tinyML meetup members: 50 groups in 41 countries



In-person symposiums / summits in the US, EMEA, ASIA



12k+ YouTube subscribers, 450k+ views;
20k+ members/followers on LinkedIn



Deep academic partnerships - ~100k students taking tinyML classes worldwide



100+ sponsors across Technology and Fortune 500





### **Upcoming Community Events**



"It is my first time attending the tinyML Summit, and the experience has been fantastic. I had the opportunity to network with top edge ML researchers from both industry and academia, discussing the current and future challenges of implementing ML on low-power devices..."

Wilfredo Lugo-Beauchamp,
 Assistant Professor, University of <u>Puerto Rico</u>







#### **Partnership Opportunities**

#### **Technology Companies**



Understand state-of-the-art, develop cutting-edge partnerships, engage with customers and solution providers, marketing value

# **Commercial Companies / NGOs**

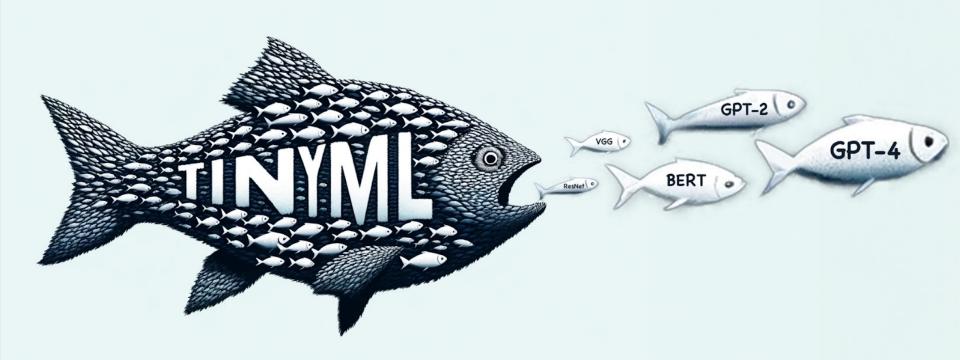


Discover solution and technology partners, Edge Al technology trends, talent pipeline

#### **Academic Institutions**



Collaboration on AI R&D, mentorship/internship opps for students in technology industry





## THANK YOU.

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