



# **A Broader View: From Tunnel Vision to Panoramas**

***Game Changers: Leveraging Commercial Microelectronics into  
Future DOD Capabilities, Part II***

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# Microelectronics: At Home With the DOD

## Tunnel Vision: All About Moore

- DOD as THE customer
  - Early supporter of research
  - Early customer of technology
- Technology progress → miniaturization
  - Innovation, yet incrementalism
  - Brute force paradigm
- A primary enabling technology

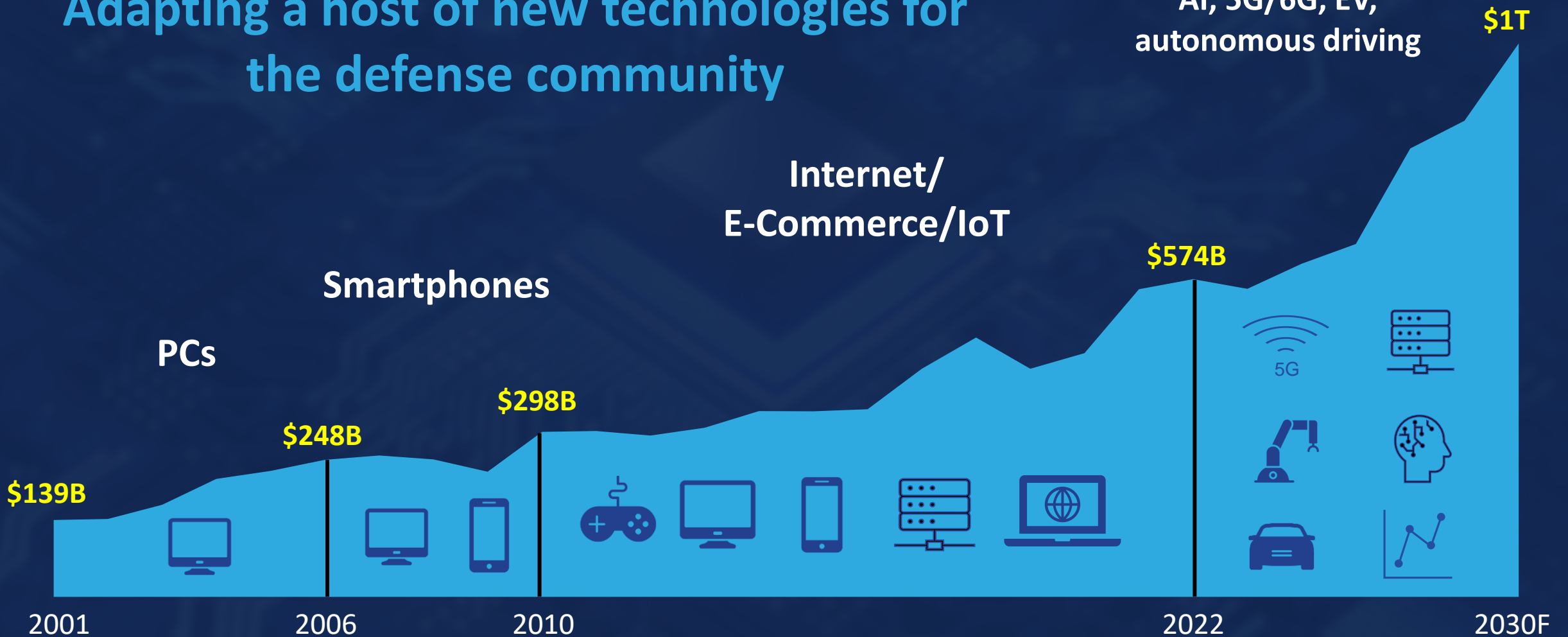
## Panorama: More Beyond Moore

- Technology progress → new computing paradigms
- Chiplet buffets: tailored systems
- It's an analog world out there – Sensing Everything!
  - “The Data Deluge”
- Artificial Intelligence
  - Process node is no longer the primary means of performance improvement
- Secure computing and AI at the edge/IoT

# A Trillion Dollars by 2030

Adapting a host of new technologies for the defense community

Today & Tomorrow:  
AI, 5G/6G, EV,  
autonomous driving



Source: WSTS, TechInsights, and SIA analysis

Approved for Public Release



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# Thank You

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