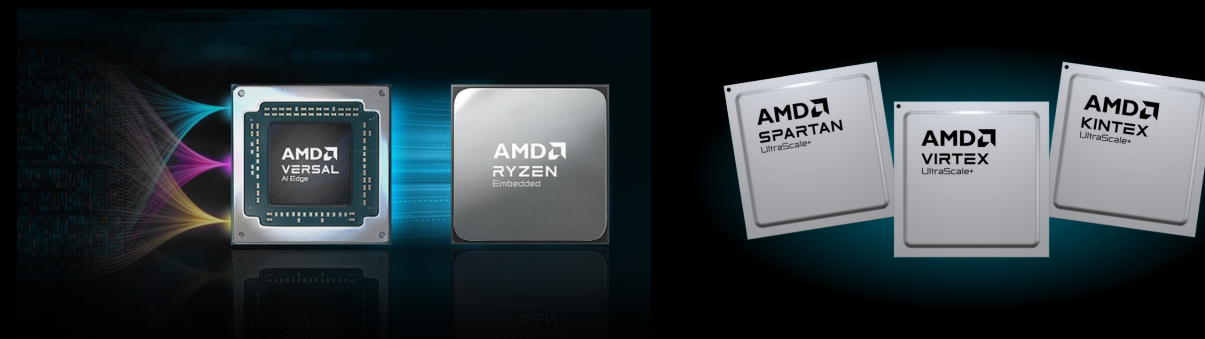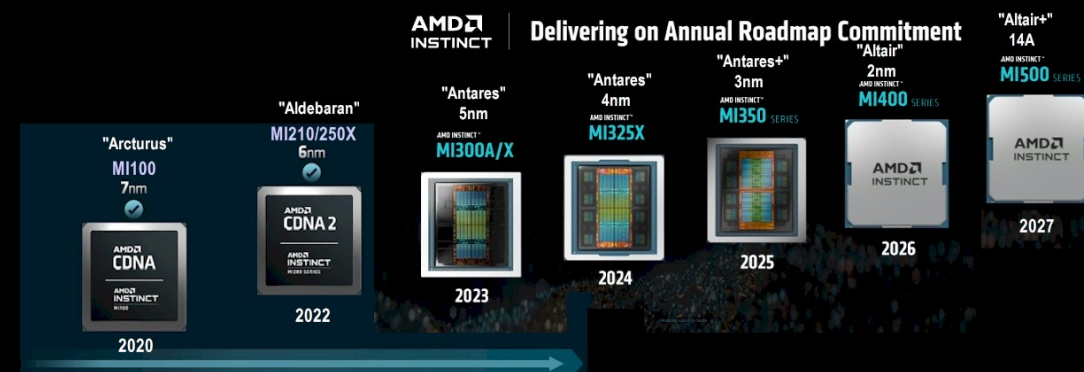# LSSDA:
Industry Hardware Panel

Austin Ellis
22 Oct 2025

Faster HW Schedules, Greater SW Focus

- AMD and other GPU / HW vendors are releasing new HW yearly
  - A marching cadence of <u>full portfolio</u> solutions
    - Tick-Tock release model
  - May lead to smaller more frequent build outs for scientific user facilities / HPC sites
  - Focus on ecosystem composability & <u>open standards</u>

- Continued hardware innovations for chiplets, edge AI, and advanced memory technologies
  - AI & data centric workloads across the suite of AMD devices

- Massive throughput of lower precision flops for users that can use them
  - AI Engine (-ML) for edge device data processing
  - MX datatypes will help with precision issues in scientific workloads

AMD INSTINCT Delivering on Annual Roadmap Commitment

"Arcturus" MI100 7nm — 2020
"Aldebaran" MI210/250X 6nm — 2022
"Antares" 5nm MI300A/X — 2023
"Antares+" 4nm MI325X — 2024
"Antares+" 3nm MI350 SERIES — 2025
"Altair" 2nm MI400 SERIES — 2026
"Altair+" 14A MI500 SERIES — 2027

Pervasive AI: Adaptive SoCs / FPGAs

AMD together we advance_