





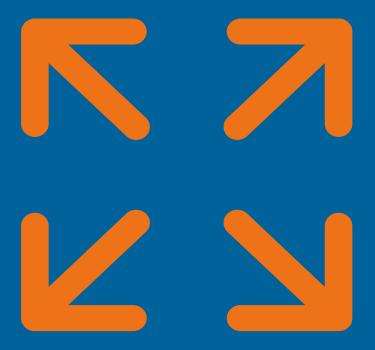
Dharmesh Jani ("DJ")
Organizer, HiPChips 2022
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Start with the need...



#### New Workloads



Workload Diversity
Unbounded fleet size

#### **New Economics**



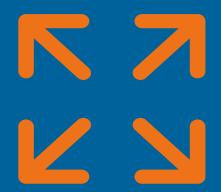
# Moore's Law Decline 7nm chip with 10B transistors may cost \$500M to design

#### New Approach: Domain Specific Architectures



## DSAs Accelerators via HW/SW co-design

#### New Approach: Domain Specific Architectures











DSAs
Accelerators via HW/SW
co-design

Old approach is unworkable



New approach is evolving



### HiPChips!



