

EDA Needs at Advanced Technology Nodes

ISPD-2024 Panel

Andrew B. Kahng
UCSD CSE and ECE Departments

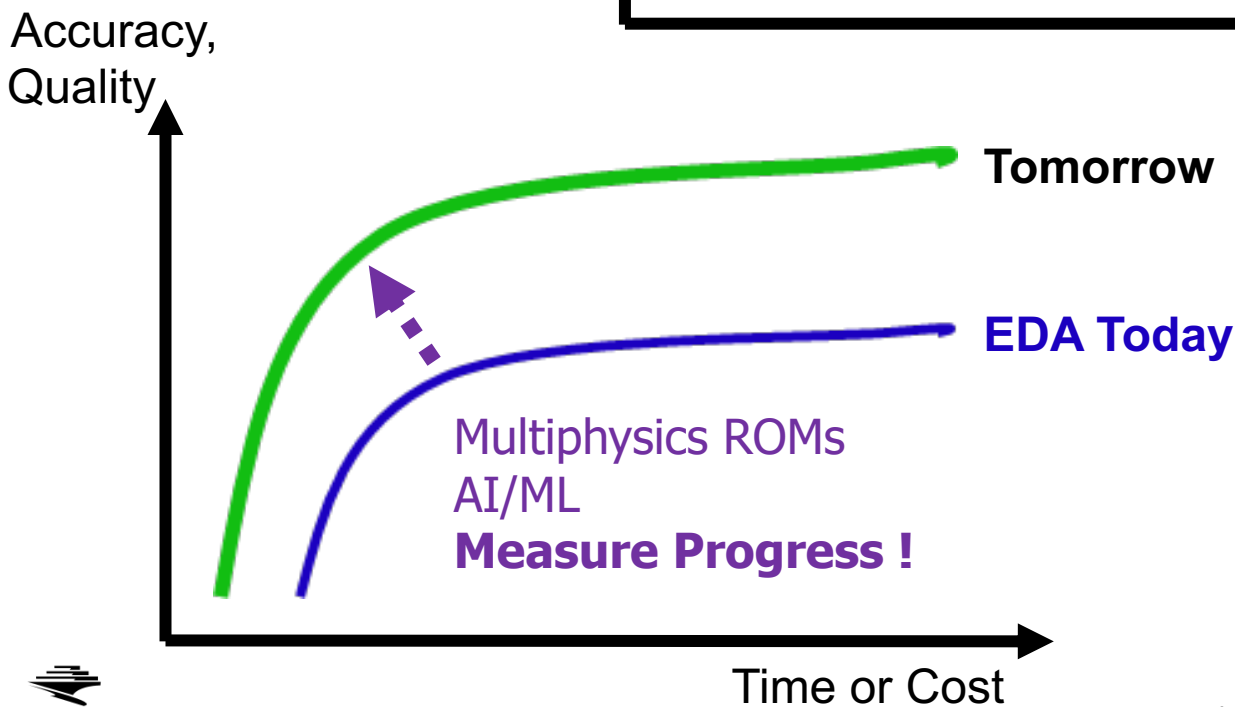
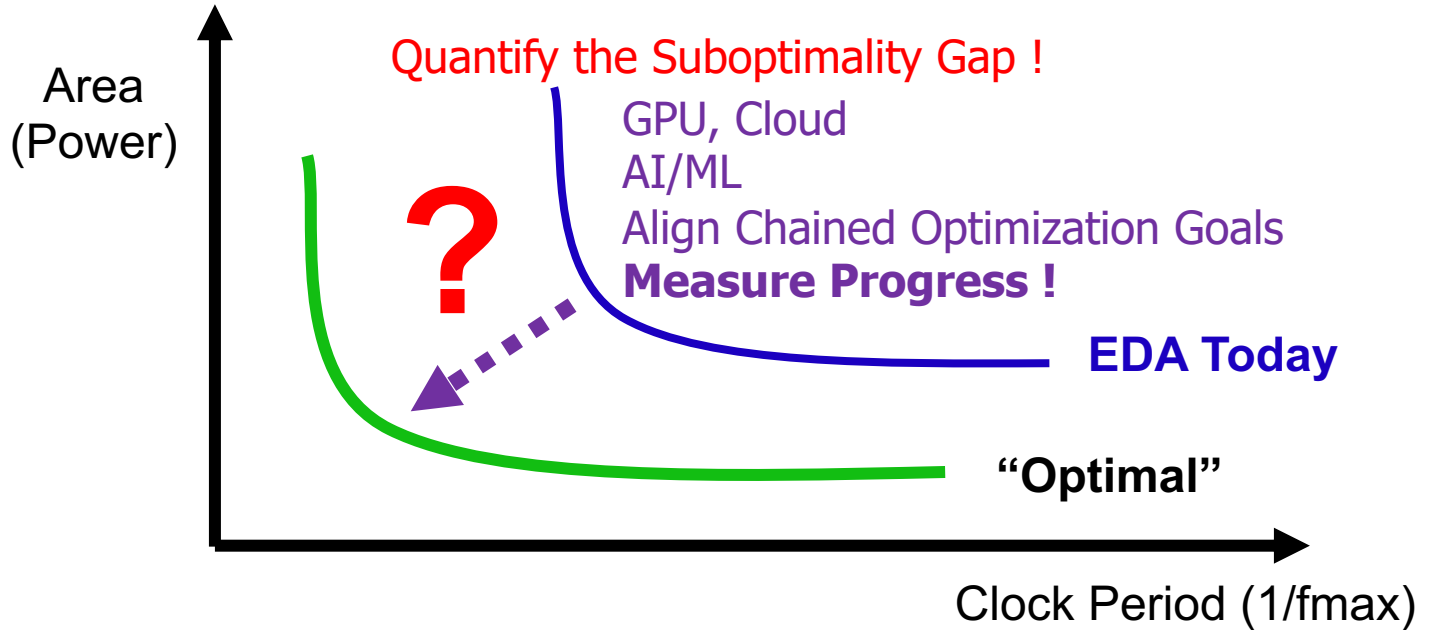
abk@ucsd.edu

<https://vlsicad.ucsd.edu>

Hmmm !

- **EDA Needs ~~at Advanced Technology Nodes~~**
- **v1: EDA Needs = What the Semi Industry Wants from EDA**
 - Better, faster and cheaper traditional wisdom: only 2 out of 3
 - Tools for non-profitable markets 3D/Hi, STCO/pathfinding
 - Irrational behavior interoperability, open APIs/formats/data, GPU/cloud-native reinvention
- **v2: EDA Needs = What the EDA Industry Needs**
 - More? \$, respect, talent, investment, opportunity ... (but, arguably, "in a good place")
- **v3: EDA Challenges**
 - Tung-Chieh already has an excellent list !!! data for AI/ML; moving to GPU and cloud; scalable heuristics; co-optimization; ... + advanced-node stuff
- **v4: EDA Needs/Challenges = What Do We Need Help With?**

EDA Needs: What Do We Need Help With?



**Who?
and How?**

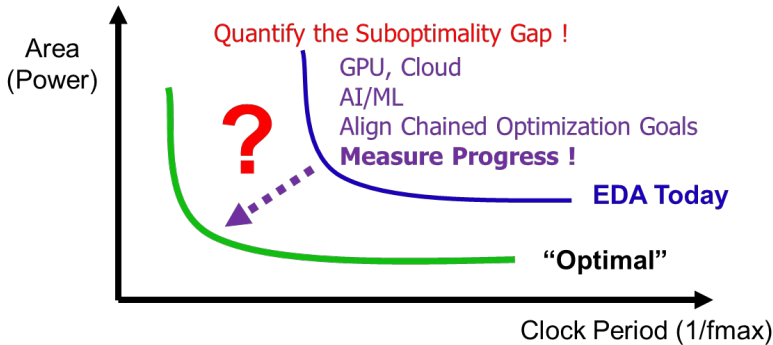
EDA Needs: What Do We Need Help With?

Break this law!

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For whom?

For whom?



WHO
Us

HOW

Suboptimality: solvers, search
Scale: clustering, hierarchy
Stability: sampling
Waste: commoditization
Accessibility: openness
Motivations: Serenity Prayer 😊

