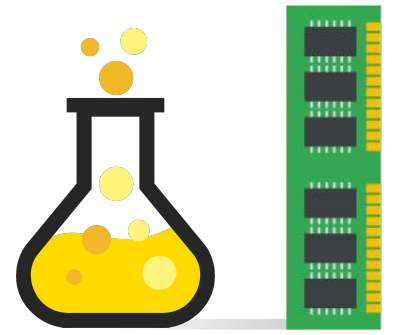


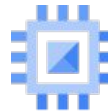
Accelerate Silicon Research



Instantly make your researchers more productive by scaling experiments in Google Cloud. Tune your design with ML-driven exploration.

Research is an extremely important part of maintaining your competitive advantage in the silicon space.

RAD Lab module for Silicon design is a cloud native research, development, and prototyping platform providing you with **secure and collaborative environments** to **optimize all the layers of silicon research**: ranging from basic physics for new materials, to high level architecture designs.



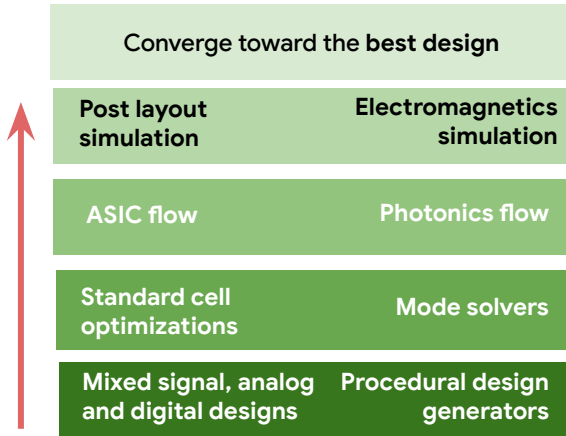
RAD Lab module for Silicon design comes **pre-provisioned** with open source EDA tools and PDKs **optimized for Google Cloud**.



Store your experiments on **Google Cloud Storage** to **develop**, version and share a **catalog of reusable design blocks**.



Automatically tune your experiments parameters with **Vertex AI Vizier** to optimize the **performance, power and area** metrics of your design

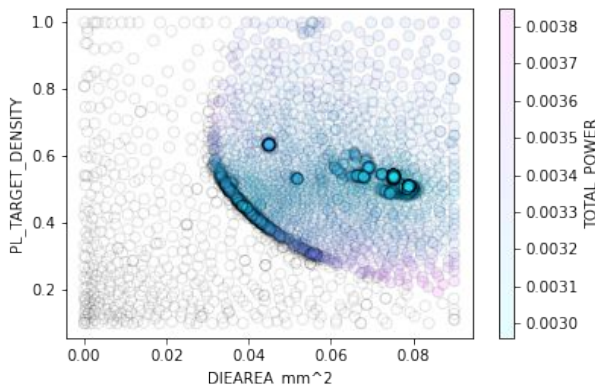
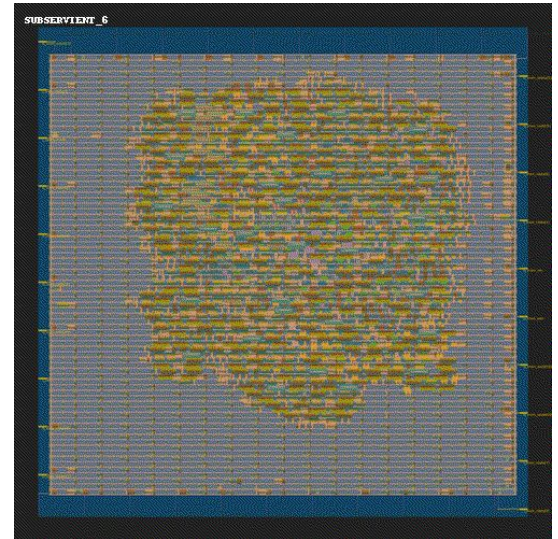


Start from a wide area of **experiment templates**

Hyperparameter tuning with Vertex AI Vizier

Using RAD Lab module for Silicon Design, we ran **thousands of concurrent experiments** to explore the area and density parameter space **for a RISC-V core design**.

Between each batch of experiments we reported the estimated total power consumption, allowing **Vertex AI Vizier** to suggest new parameters that **quickly converge toward the best power metrics** for this design.



- ✓ Innovate in **Perf, Power, Area** optimization
- ✓ Accelerate **Time-to-Market**
- ✓ Optimize **Cost** while scaling on demand
- ✓ Share **Reproducible Research** results