



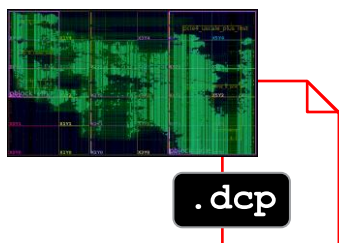
Agentic FPGA Backend Optimization Competition @ FPL'26

Chris Lavin, Eddie Hung, Preston Walker, and
Alireza Kaviani

September 9, 2026

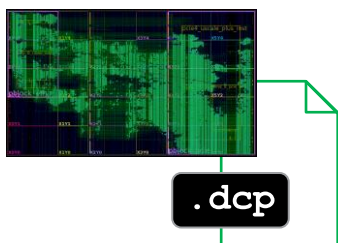
***Ever wish you could magically make your
FPGA design run faster?***

Challenge



Fmax = 395MHz

Given a fully placed and routed design checkpoint...



Fmax = 450MHz

...generate a new checkpoint that has improved Fmax as much as possible!

Constraints

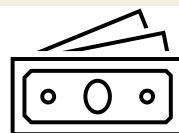
- ✓ Fully Placed & Routed
- ✓ No Hold or Pulse Width Violations
- ✓ Functionally Equivalent

Budgets



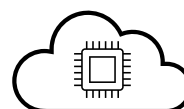
1 Hour Wall-clock

runtime per benchmark



\$1.00 USD LLM Credits

OpenRouter, per benchmark



8 vCPUs (4th Gen Epyc) / 32 GB RAM

AWS EC2 m7a.2xlarge



2025.1 Developer AMI

Ubuntu 22.02

How Much Intelligence for \$1.00 USD?

RANK	MODEL	ARTIFICIAL ANALYSIS INTELLIGENCE INDEX	BALANCED TOKENS / \$1	INPUT ONLY / \$1	OUTPUT ONLY / \$1
1	Ling-3.0-flash by inclusionai · \$0.021 / \$0.063 per 1M	37.8	23.81M	47.62M	15.87M
2	DeepSeek V4 Flash 0731 by DeepSeek · \$0.0798 / \$0.1596 per 1M	51.8	8.35M	12.53M	6.27M
3	Hy3 preview by tencent · \$0.063 / \$0.21 per 1M	42.2	7.33M	15.87M	4.76M
4	GPT-5.6 Luna by OpenAI · \$0.10 / \$0.60 per 1M	52.3	2.86M	10.00M	1.67M
5	MiMo-V2.5 by Xiaomi · \$0.14 / \$0.28 per 1M	38.0	4.76M	7.14M	3.57M

Source: OpenRouter Value Leaders, <https://openrouter.ai/discover?lane=value>, August 10th, 2026

Competition Registration Results

91

REGISTERED TEAMS

329

TOTAL PARTICIPANTS

269 members + 60 advisors

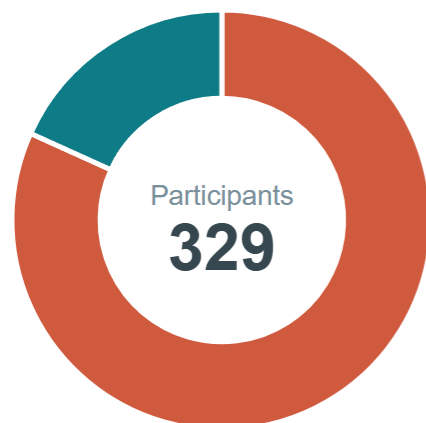
77

ACADEMIC INSTITUTIONS

26

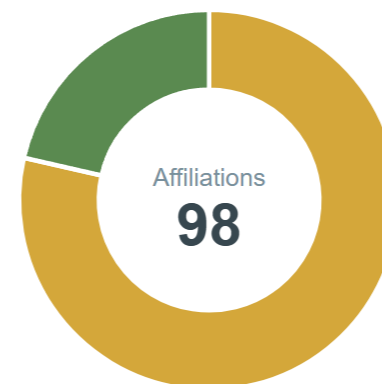
COUNTRIES & REGIONS

Participant Roles



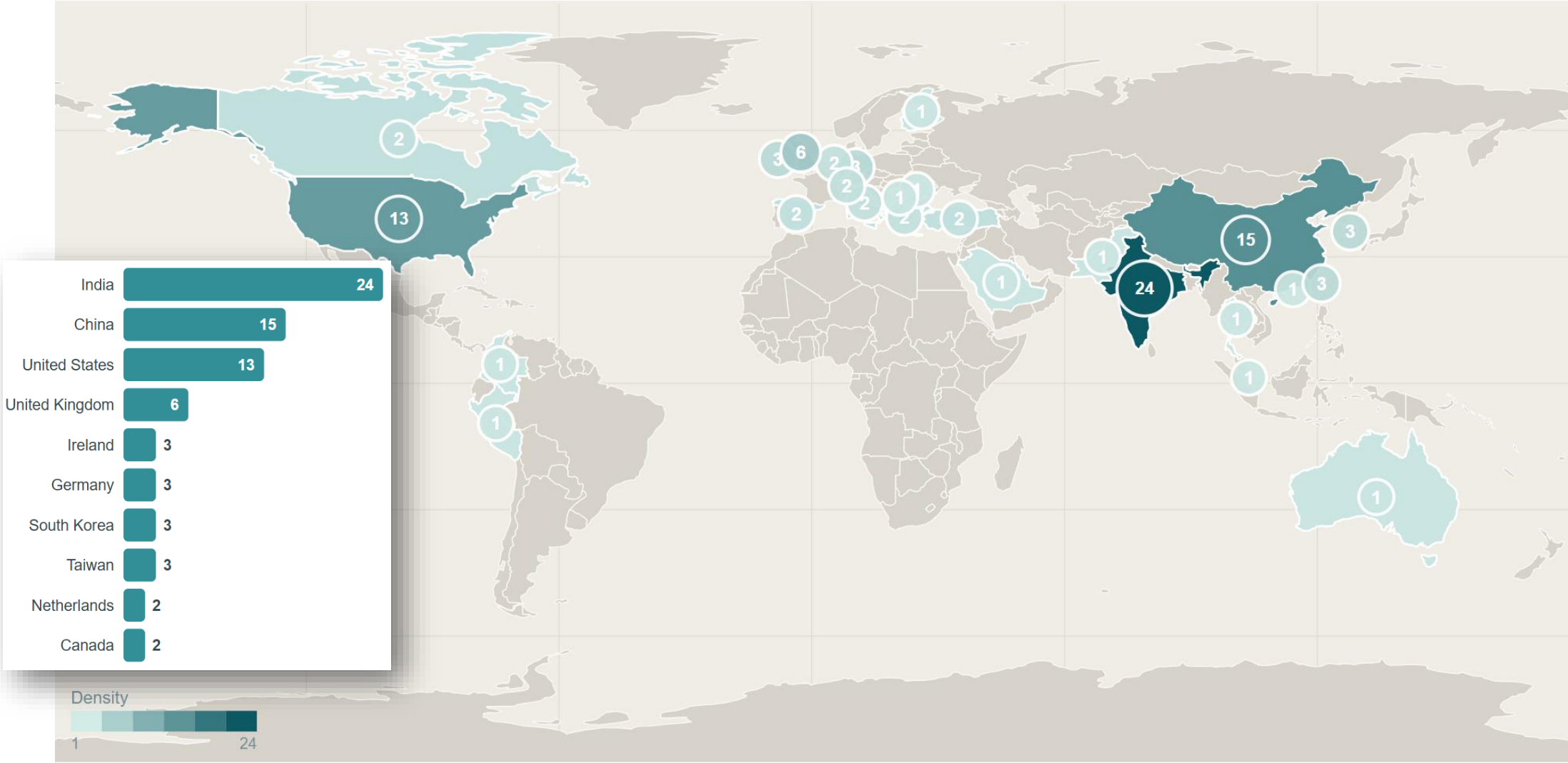
- Members: 269 (81.8%)
- Advisors: 60 (18.2%)

Affiliation Types

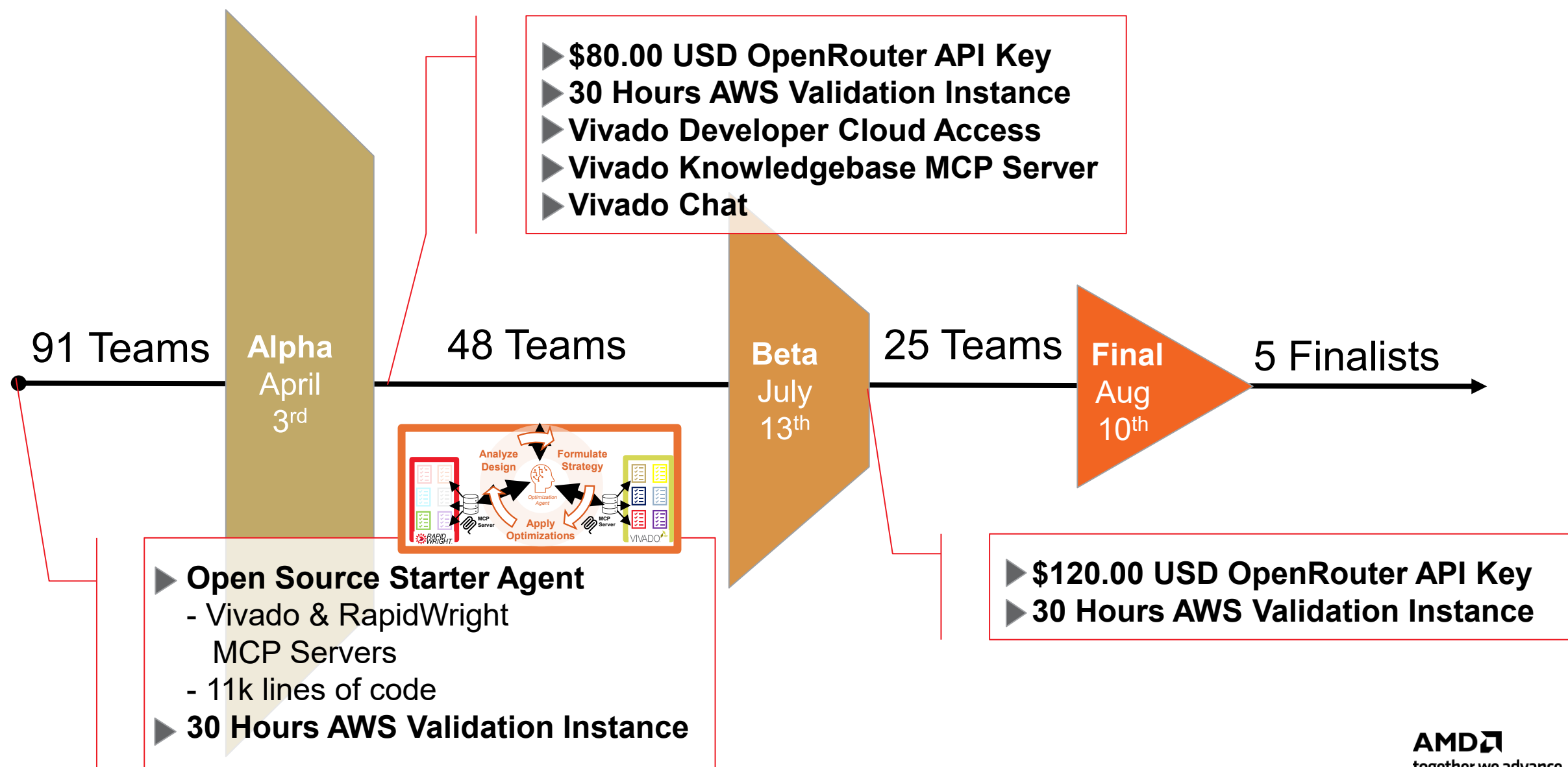


- Academic: 77 (78.6%)
- Industry / Lab / Independent: 21 (21.4%)

Worldwide Contest Participation: 91 Teams



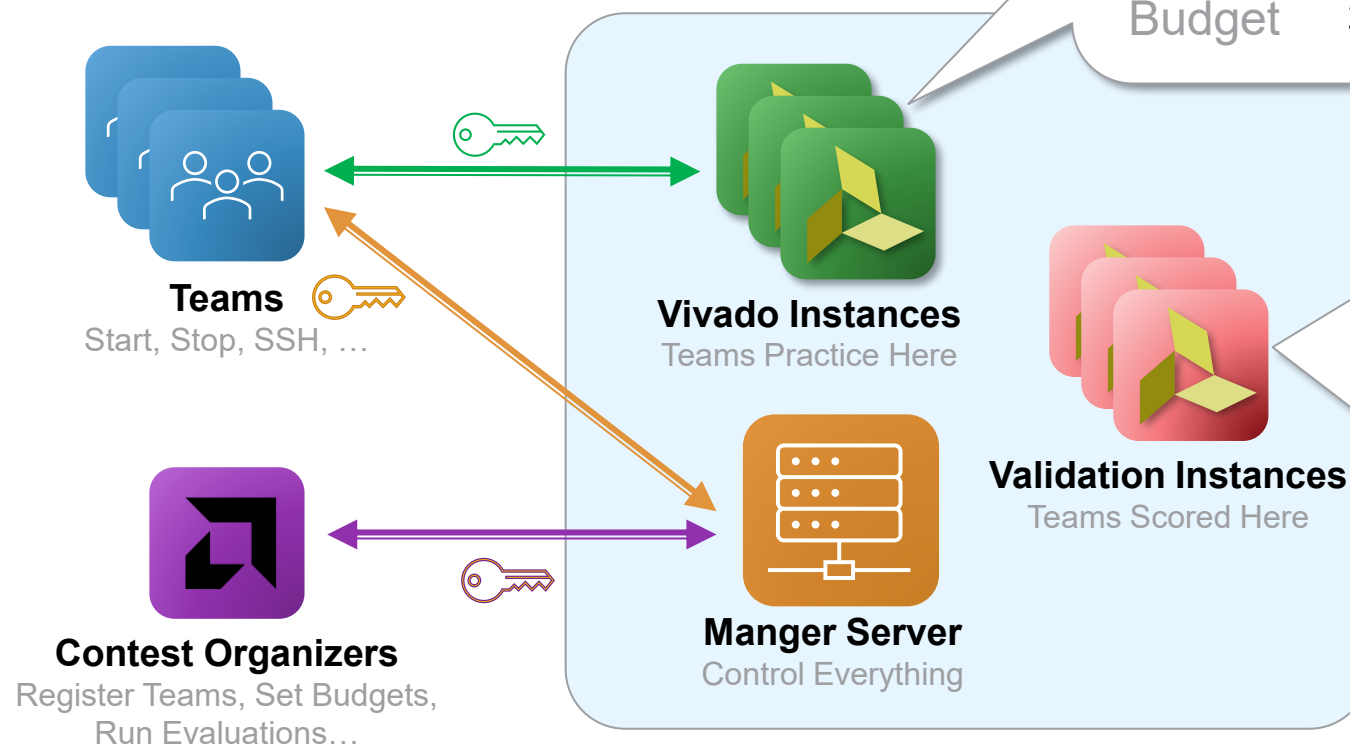
Resources Provided to Contest Teams



Contest Cloud Infrastructure

Vivado Instance Specs

Instance	M7a.2xlarge (8 CPU, 32 GB)
AMI	AMD Vivado ML 2025.1
Access	SSH (key-based)
Budget	30 hours per team, per phase



Validation Instance Procedure

1. Start instance, start memory watchdog
2. Run warmup Vivado script
3. Download, unpack team submission
4. Run team's 'make setup; 90 min cap
5. Setup trusted validator
6. Download trusted benchmark
7. Mint \$1.00 USD OpenRouter key
8. Run 'make optimizer' kill after 1 hour
9. Kill any zombie processes
10. Use Vivado to validate timing, routed, DRCs of output DCP
11. Run validator flow
12. Publish scorecards, logs, etc.

Contest Benchmark Scoring

$$\text{Benchmark Score} = \alpha - 0.1\alpha(\beta + \gamma)$$

$\alpha = \Delta F_{\max}$ Improvement (in MHz)

$\beta = \text{OpenRouter Cost}$ (in \$USD)

$\gamma = \frac{\text{Wall Clock Runtime (in secs)}}{3600 \text{ secs}}$

TERMS

Team Ranking

1. For each benchmark, rank all teams based on their score
2. For each team, compute arithmetic mean of all benchmark rankings (lower is better)
3. Sort teams by mean ranking; assign prizes in ascending order

RapidWright Explores faster; Vivado Provides Trusted Fmax

VIVADO | REALIZE + VERIFY

Authoritative WNS + Fmax

→ Rank candidates on real timing

Complete physical optimization

placement · routing · timing · device rules

→ Legalize changes; catch DRC + hold failures

Global directives + phys-opt

→ Leverage existing optimizations

RAPIDWRIGHT | DIAGNOSE + EDIT

7.5× (18.3 → 2.4 s) faster DCP reads

→ Reload + inspect more candidates

20 ms path-spread analysis

→ Classify placement vs. routing problems immediately

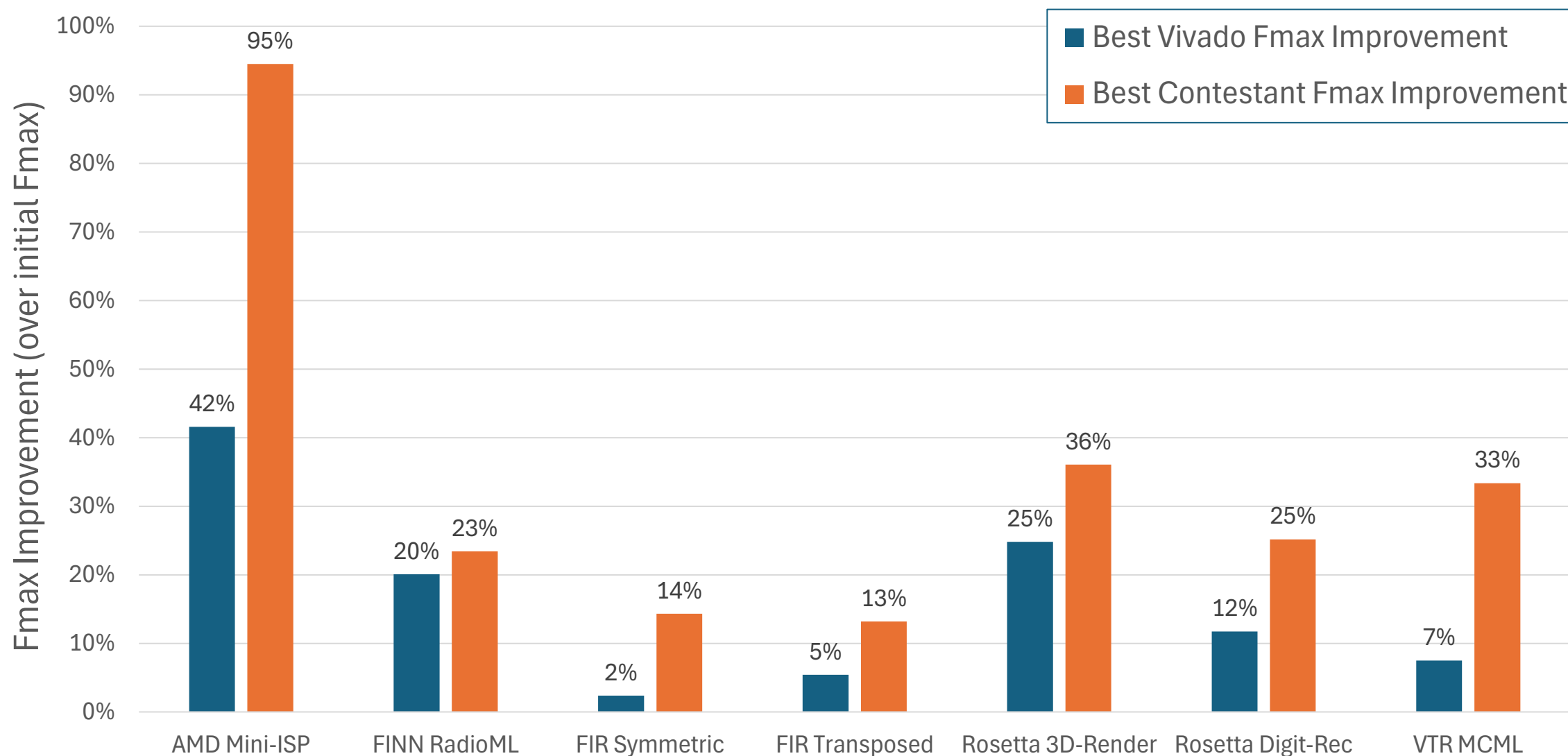
0.17–2.5 s targeted actions

fanout edit · cell ECO · pblock analysis

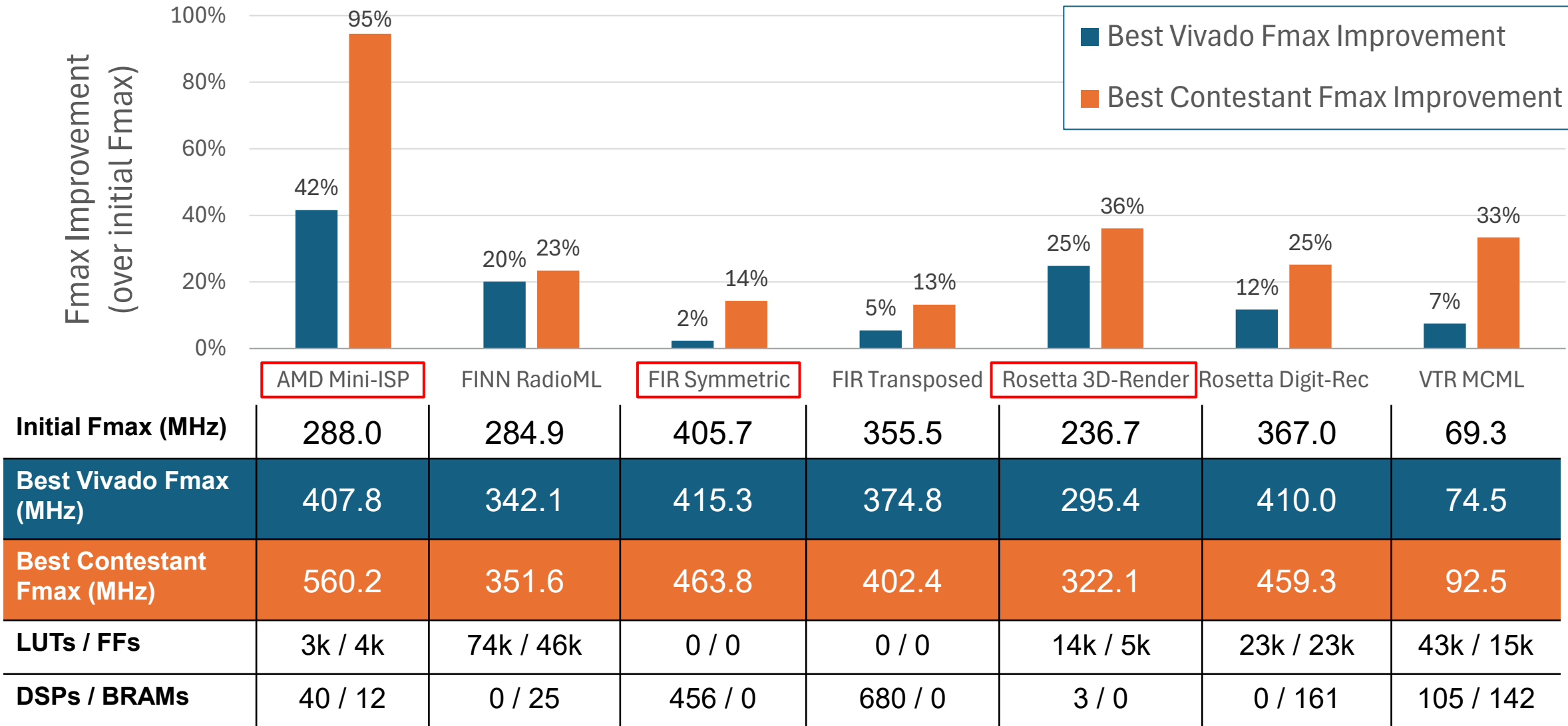
→ Screen structural ideas before full implementation

Medians from the FPL'26 top-10 tool report; only DCP read is shown as a like-for-like speedup.

Best of 198 Vivado Runs* vs. Best of Contestants' Results



Best of 198 Vivado Runs* vs. Best of Contestants' Results



 = Previously unreleased

What if Frontier Models Entered as Contestants?

Each frontier model given:

- Contest repo & rules
- 1 prompt & looped for ~80 hours

Prompt

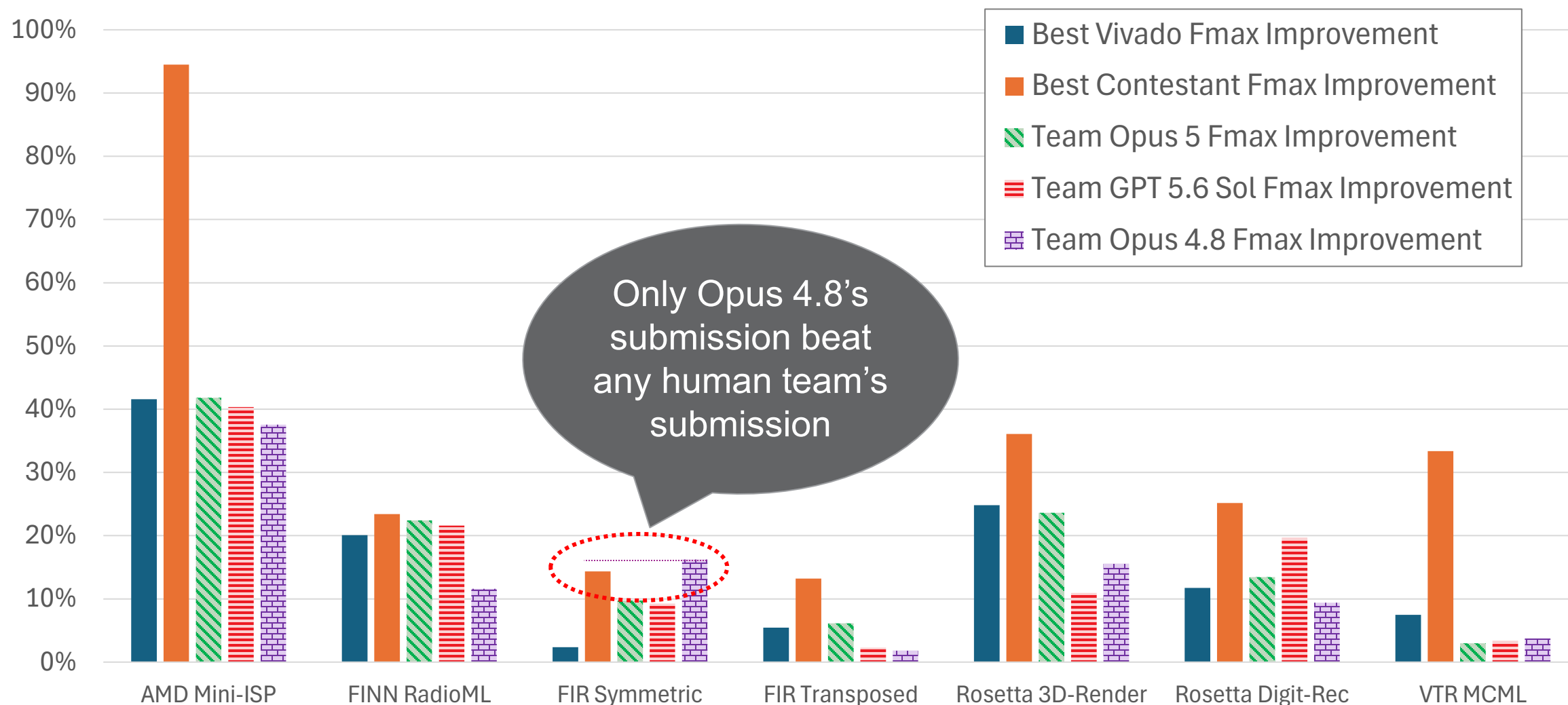
“You are a meta-optimization agent...”

“...improve the contest agent to maximize contest score...”

“...follow all contest rules...”

Coding Harness	Frontier Model Tested	Approx. Cost
Claude Code	Opus 4.8 (high effort)	\$2,200 USD
Codex	GPT 5.6 Sol (high effort)	\$750 USD
Claude Code	Opus 5 (high effort)	\$620 USD

Comparison of Frontier AI Built Team Submissions



Top 5 Teams (Alphabetical Order) & Honorable Mentions

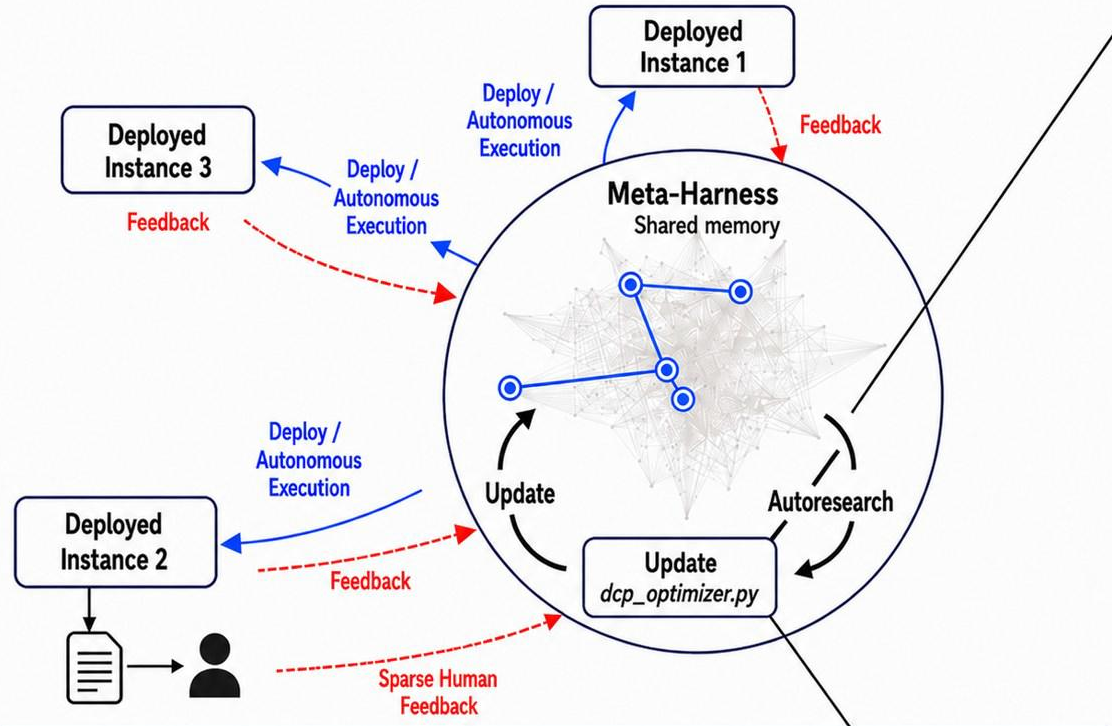
- **AER** | *Seoul National University*¹, *Kyunghee University*²
 - Sihun Lim¹, Sookwan Han¹, Sung Jun¹, and Haeun Ji² | **Advisor:** Jinho Lee¹
- **ESCA** | *Korea University*
 - Jangho Lim, Junseok Kang, and Jinhyeok Choi | **Advisor:** Taeweon Suh
- **Fu_Do_Fdo** | *Fudan University*
 - KunLong Li and Huan Lin | **Advisor:** Zhiang Wang
- **MEEMAR** | *Ankara Yıldırım Beyazıt University*
 - Kamoliddin Fatkhiddinov | **Advisor:** Enver Çavuş
- **RouteAgents** | *University of Thessaly*
 - Georgios Chatzitsompanis | **Advisor:** Georgios Karakonstantis

Honorable Mentions

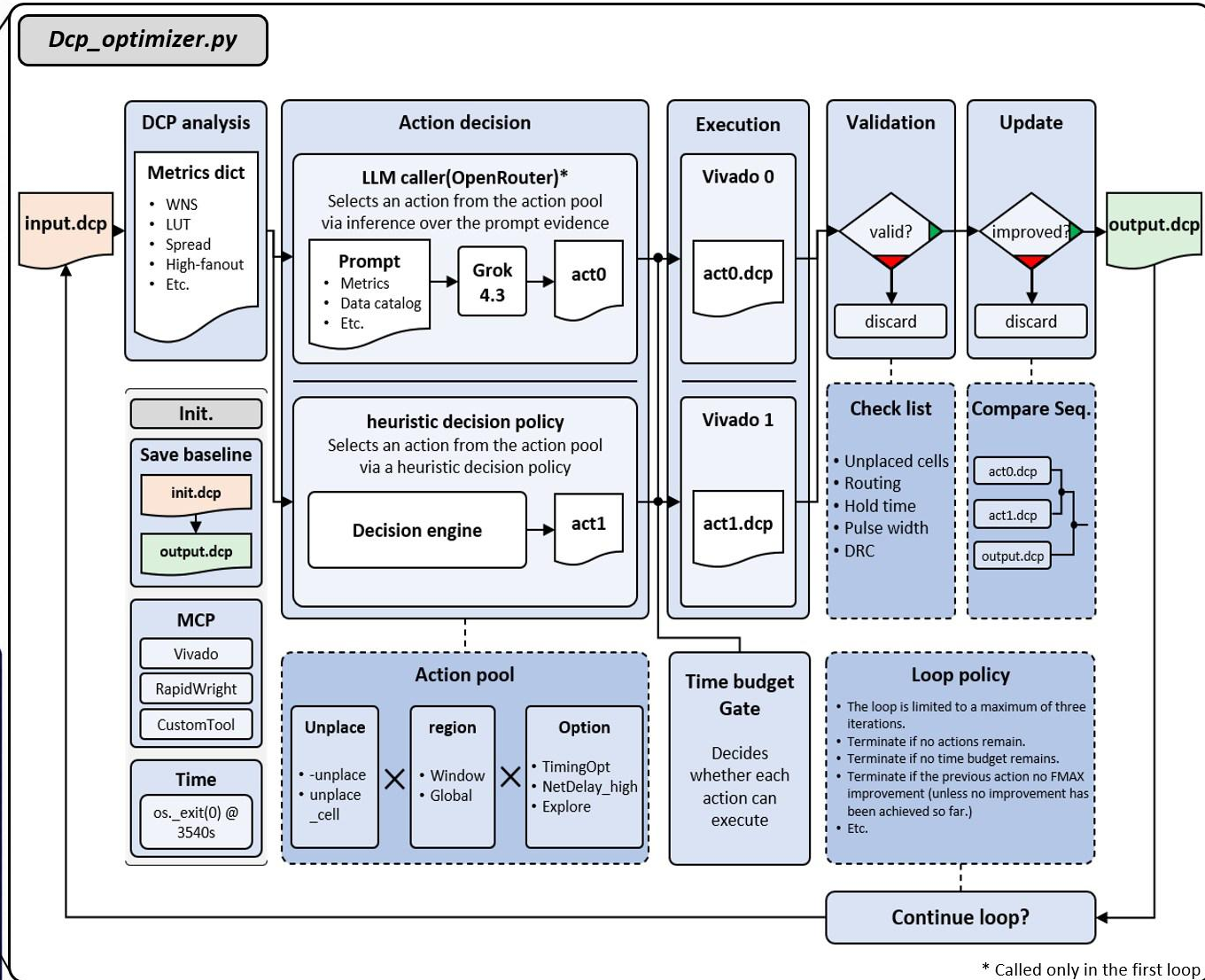
- **Fmaximizers** | *Delft University of Technology*
- **Novi_CAD** | *University of Novi Sad*

Phase 1

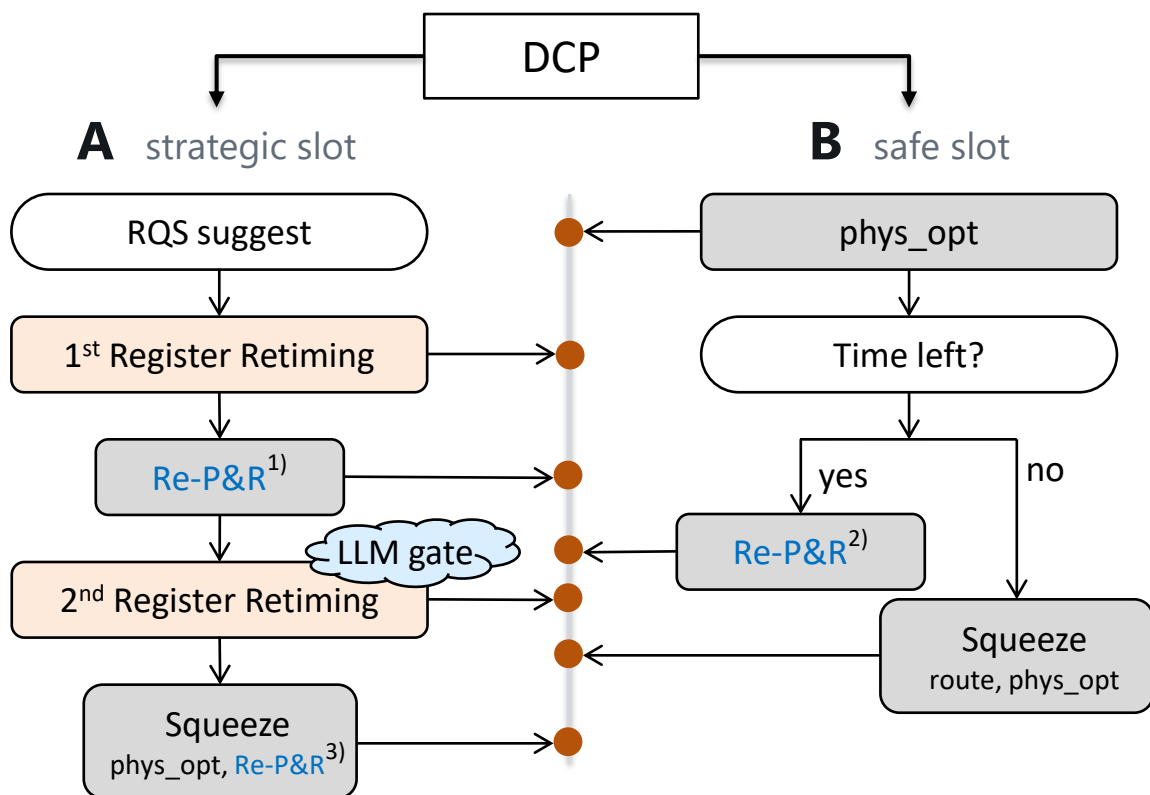
Autoresearch Meta-Harness with Sparse Human-Feedback

**Phase 2**

P1 Research-Informed Reconfiguration & Optimization



1. Optimization strategy · Parallel slots



● publish if better than the best DCP (**keep-best**)

LLM gate prior benchmark, measured 1st retiming cost → go/no-go

Re-P&R Un-place, Un-route, and P&R

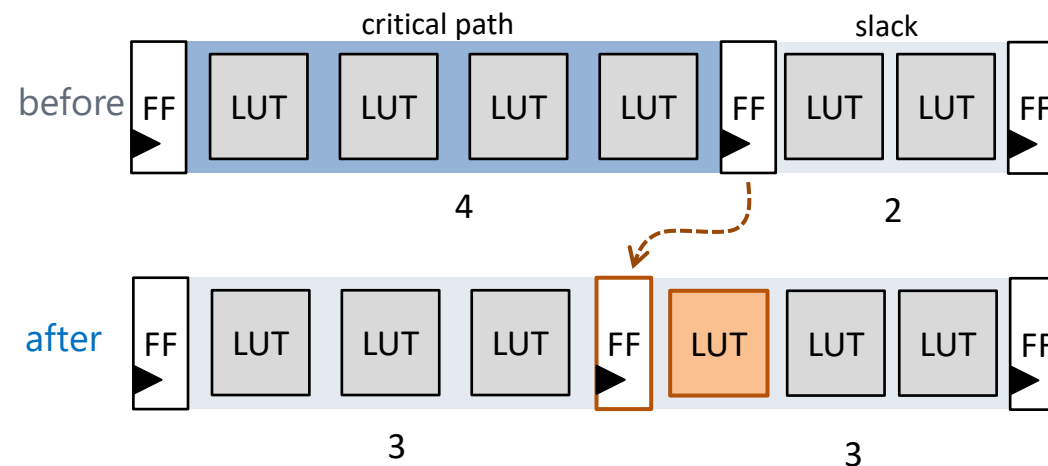
1) RQS-suggested directives

2) Explore directives – counter-bet to A

3) unused directives

2. Register Retiming

How it gets faster? the critical path borrows its neighbor's slack



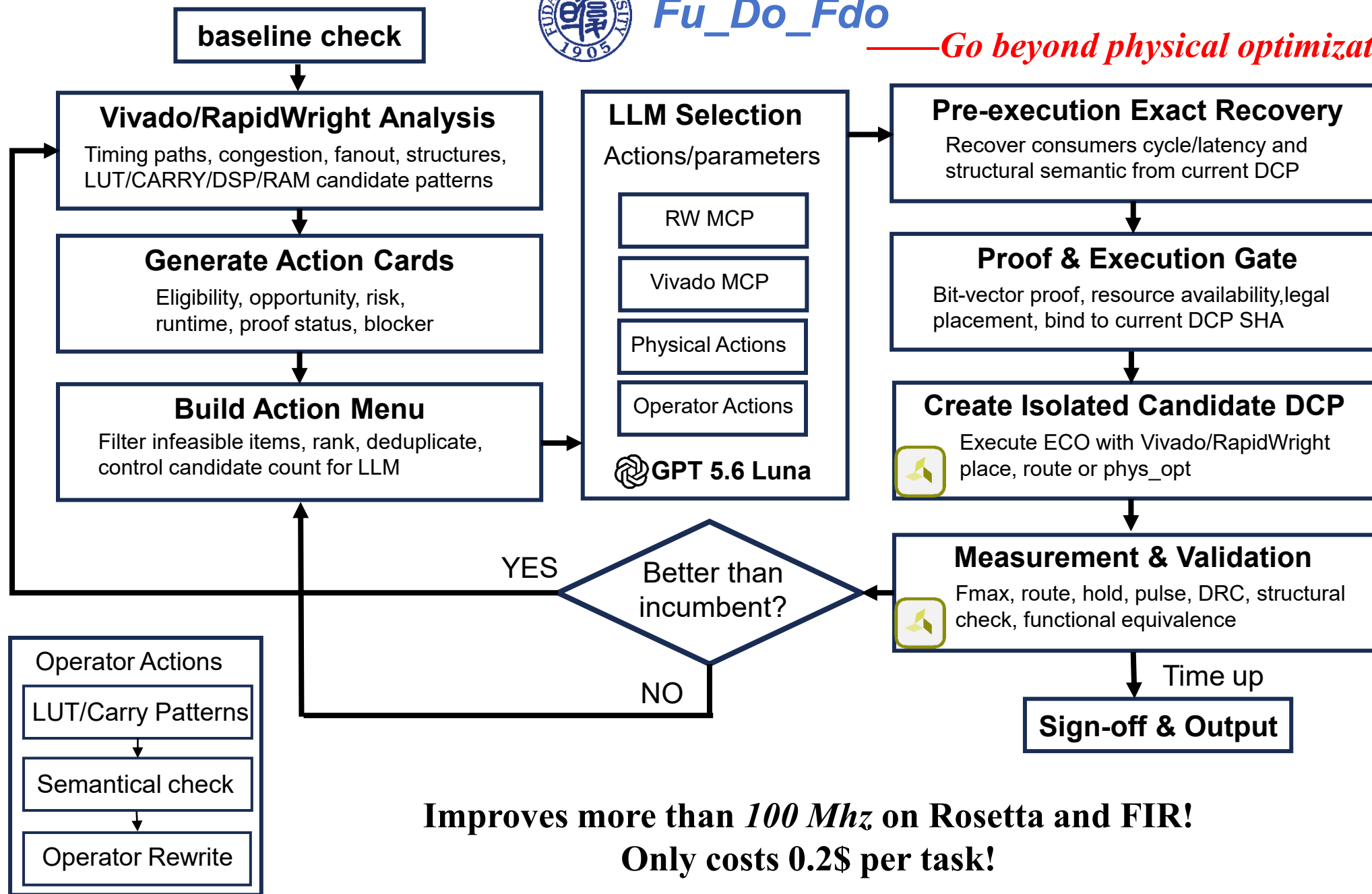
3. Official final scorecard · 7 hidden benchmarks

Benchmark	Strategy	Fmax in→out	Score
amd_mini-isp	A · 2nd Retiming	288.0 → 512.0	217.97
finn_radioml	B · Re-P&R ² → phys_opt	284.9 → 345.9	56.69
rosetta_3d	A · Re-P&R ¹ → phys_opt	236.7 → 290.4	51.28
rosetta_digit	A · Re-P&R ¹ → phys_opt	367.0 → 419.1	47.04
fir_transposed	A · 1st Retiming → phys_opt	355.5 → 399.5	42.09
vtr_mcml	A · 1st Retiming → phys_opt	69.3 → 92.5	21.44
fir_symmetric	B · phys_opt only	405.7 → 422.8	16.32
Total			452.83



Fu_Do_Fdo

—Go beyond physical optimization



Improves more than *100 Mhz* on Rosetta and FIR!
Only costs 0.2\$ per task!

How a stochastic agent was made *unable to lose ground*.

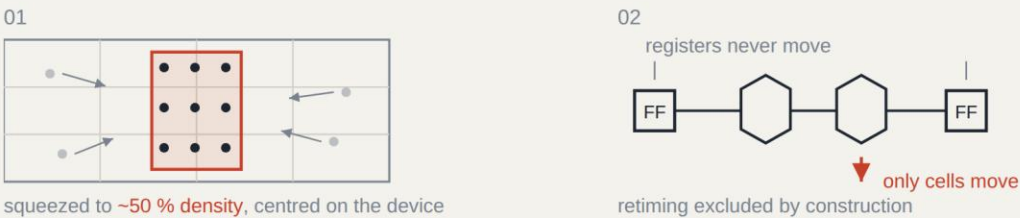


Team MEEMAR · finalist

FPL'26 Agentic FPGA Backend Optimization Contest

Kamoliddin Fatkhiddinov, a one-person entry · advisor Prof. Enver Çavuş, AYBU
xcvu3p-ffvc1517-2-e · Vivado 2025.1 + RapidWright · 8 threads

Take a placed-and-routed checkpoint, return a faster one. Three deterministic stages do most of the work; the model is called last, and only when it can still help. **Nothing is kept unless it is legal and better than what came before.**



Floorplan prepass

device-centred, clock-region aligned, deterministic
+129.6 / +103.4 / +82.6 MHz

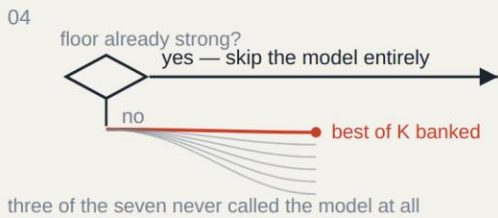
Physical optimisation

retiming-free by construction — it cannot fail validation
+6.7 / +2.7 MHz



Surgical re-place, on demand

a rescue: it fires only on a weak floor of a large design
+57.7 / +52.3 MHz



LLM phase, over MCP

its best behaviour is knowing when not to run
0 calls on 3 of 7 · 265 on the hardest

Every stage banks through one gate: legal *and* better, or not at all — single writer, atomic, never downward.
The output checkpoint is written before any tool server starts, so a crash costs the upside, never the benchmark.

F_{max}, % of input · ○ banked a new floor (31) · × measured and refused (17) · ★ never run before the final



a the model was skipped entirely — amd finished in 318 s of its 3600 **b** last gain banked at 3240 s, so the cap cost runtime, not megahertz

amd_mini-isp	288 → 411	+42.5%
★ finn_radioml	285 → 350	+22.8%
★ rosetta 3d-render	237 → 290	+22.5%
★ rosetta digit-rec	367 → 429	+16.9%
fir_systolic_transp	355 → 374	+5.3%
vtr_mcml	69 → 72	+4.4%
★ fir_symmetric	406 → 414	+2.1%

318.254

total score across seven benchmarks — zero disqualifications

4 / 7

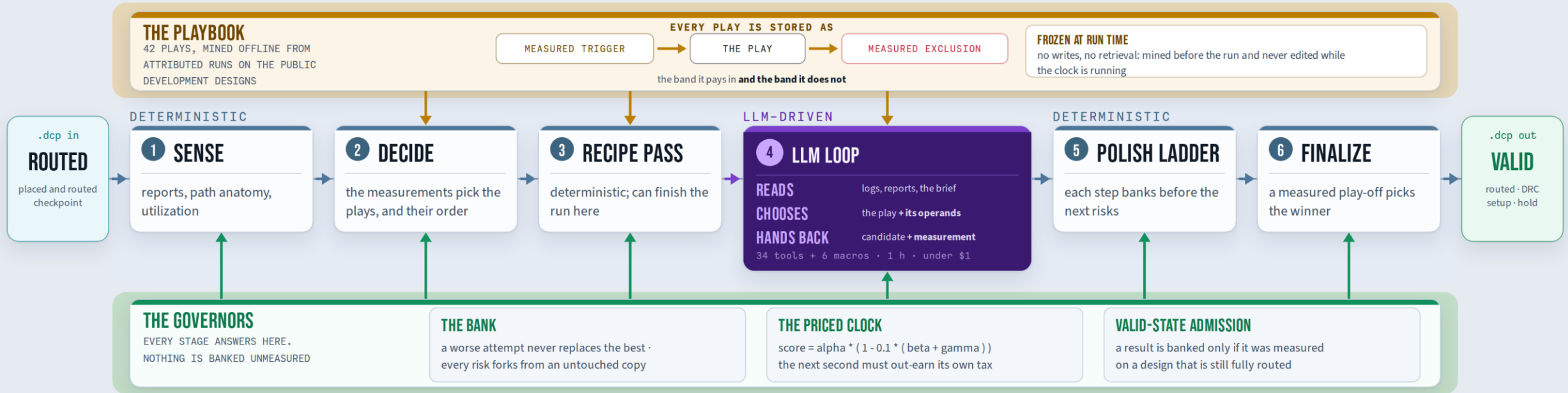
designs we had never run — all clean, all positive

\$0.35

model spend, on gemini-3.1-flash-lite

score = $\alpha - 0.1 \cdot \alpha \cdot (\beta + \gamma)$ — megahertz gained, charged alike for dollars and hours.

Every run routed, DRC-clean and simulation-equivalent.
Most of $\Sigma \alpha$ 332.8 MHz is deterministic: two repeated benchmarks reproduced our earlier measurement to three decimals.



WHAT A PLAY LOOKS LIKE

1 OF 42 · THE TRIGGER AND THE EXCLUSION ARE BOTH COUNTED

ILS PARTIAL RUIN

UNPLACE ONLY THE WORST PATHS' CELLS, THEN REBUILD

PAYS WHEN

the critical path is spread across the die
improved 181 of 188 independent runs

DOES NOT PAY

when that same path sits co-located in one region
0 of 26, and those losses average -1.09 ns

SO THE PLAY IS FENCED AT 30 TILES OF PATH SPREAD

counted on runs the miner was never shown:
a boundary you cannot guess, only measure

INSIDE THE LLM LOOP

grok-4.3 VIA OPENROUTER · SWAP IN ANOTHER MODEL WITH ONE FLAG

READS

the brief, and everything it can measure

the router hands it an ordered, costed plan with the inapplicable plays blocked · reports, JSON, route status, and prior campaigns by fingerprint

CHOOSES

the play and its operands

which endpoints · which nets · which cells, named from a report it just produced: operands a directive-level interface never asks for.

HANDS BACK

a candidate and its own measurement

analyze, transform, route, measure, inside one call · the callable restores the bank itself when the number comes back worse

OFFICIAL RESULTS

OFFICIAL SCORECARD · SEVEN BENCHMARK DESIGNS · SCORED END TO END

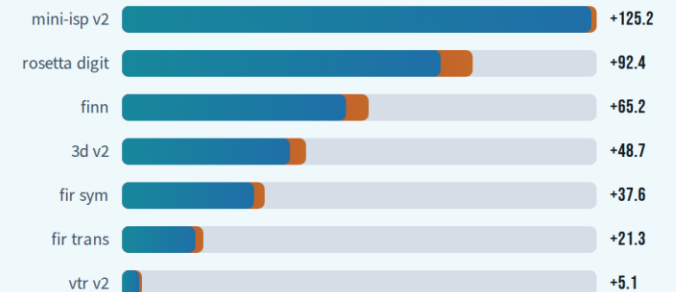
369.9
OFFICIAL SCORE

7 / 7
IMPROVED

0
INVALID

\$0.18
MOST SPENT
ON ONE DESIGN

DELTA FMAX PER DESIGN (MHZ)



banked score paid in wall time and model spend

every design improved, and every output re-validated

Finalists & Honorable Mentions

Rank	Prize	Team	Mean Rank	AMD Mini-ISP	FINN RadioML	FIR Symmetric	FIR Transposed	Rosetta 3D-Render	Rosetta Digit-Rec	VTR MCML
1 st	€ 3,000									
2 nd	€ 2,000									
3 rd	€ 1,000									
4 th	€ 500									
5 th	€ 500									
6 th	Kria KD240									
7 th	Kria KD240									

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5 th	€ 500									
6 th	Kria KD240	Fmaximizers <i>Delft University of Technology</i>	8.86	1 (246.6)	19 (46.1)	4 (45.0)	7 (18.4)	19 (33.9)	7 (51.9)	5 (3.6)
7 th	Kria KD240	Novi_CAD <i>University of Novi Sad</i>	9.57	10 (115.6)	7 (58.0)	3 (47.6)	3 (22.4)	3 (54.6)	21 (0.0)	20 (1.7)

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1 st	€ 3,000									
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3 rd	€ 1,000									
4 th	€ 500	Fu_Do_Fdo <i>Fudan University</i>	7.43	22 (78.8)	9 (56.9)	1 (53.1)	1 (42.8)	1 (77.6)	11 (46.0)	7 (3.1)
5 th	€ 500	MEEMAR <i>Ankara Yıldırım Beyazıt University</i>	7.71	4 (121.4)	2 (61.4)	18 (7.7)	11 (16.8)	7 (50.7)	3 (57.4)	9 (2.8)
6 th	Kria KD240	Fmaximizers <i>Delft University of Technology</i>	8.86	1 (246.6)	19 (46.1)	4 (45.0)	7 (18.4)	19 (33.9)	7 (51.9)	5 (3.6)
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1 st	€ 3,000									
2 nd	€ 2,000	RouteAgents <i>University of Thessaly</i>	5	3 (123.8)	5 (59.0)	6 (34.7)	6 (19.5)	12 (44.2)	1 (84.0)	2 (4.7)
3 rd	€ 1,000	ESCA <i>Korea University</i>	6.29	2 (218.0)	10 (56.7)	13 (16.3)	2 (42.1)	6 (51.3)	10 (47.0)	1 (21.4)
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Finalists & Honorable Mentions

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1 st	€ 3,000	AER <i>Seoul National & Kyunghee University</i>	4.29	7 (116.8)	1 (62.5)	2 (53.0)	4 (21.5)	4 (53.4)	9 (50.7)	3 (4.1)
2 nd	€ 2,000	RouteAgents <i>University of Thessaly</i>	5	3 (123.8)	5 (59.0)	6 (34.7)	6 (19.5)	12 (44.2)	1 (84.0)	2 (4.7)
3 rd	€ 1,000	ESCA <i>Korea University</i>	6.29	2 (218.0)	10 (56.7)	13 (16.3)	2 (42.1)	6 (51.3)	10 (47.0)	1 (21.4)
4 th	€ 500	Fu_Do_Fdo <i>Fudan University</i>	7.43	22 (78.8)	9 (56.9)	1 (53.1)	1 (42.8)	1 (77.6)	11 (46.0)	7 (3.1)
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Ranking of AI Teams Against Human Teams

Rank	Prize	Team	Mean Rank	AMD Mini-ISP	FINN RadioML	FIR Symmetric	FIR Transposed	Rosetta 3D-Render	Rosetta Digit-Rec	VTR MCML
1 st	€ 3,000	AER	4.714	8 (116.8)	1 (62.5)	3 (53.0)	4 (21.5)	4 (53.4)	10 (50.7)	3 (4.1)
2 nd	€ 2,000	RouteAgents	6	3 (123.8)	7 (59.0)	9 (34.7)	7 (19.5)	13 (44.2)	1 (84.0)	2 (4.7)
3 rd	€ 1,000	ESCA	7.286	2 (218.0)	12 (56.7)	16 (16.3)	2 (42.1)	7 (51.3)	11 (47.0)	1 (21.4)
4 th	€ 500	Fu_Do_Fdo	8.429	25 (78.8)	11 (56.9)	2 (53.1)	1 (42.8)	1 (77.6)	12 (46.0)	7 (3.1)
5 th	€ 500	MEEMAR	8.571	4 (121.4)	2 (61.4)	21 (7.7)	12 (16.8)	8 (50.7)	4 (57.4)	9 (2.8)
6		Team Opus 5.0	9	7 (116.8)	6 (59.3)	8 (36.1)	5 (20.5)	6 (52.3)	13 (45.1)	18 (1.9)
7		Fmaximizers	9.857	1 (246.6)	21 (46.1)	5 (45.0)	8 (18.4)	21 (33.9)	8 (51.9)	5 (3.6)
8		Novi_CAD	11.143	12 (115.6)	9 (58.0)	4 (47.6)	3 (22.4)	3 (54.6)	24 (0.0)	23 (1.7)
9		CUFO	11.571	19 (110.9)	8 (58.3)	14 (23.4)	13 (16.6)	12 (44.4)	5 (56.1)	10 (2.6)
9		Team GPT 5.6 Sol	11.571	11 (115.7)	5 (59.7)	7 (36.8)	20 (8.1)	23 (25.5)	2 (70.4)	13 (2.2)
19		Team Opus 4.8	16.429	21 (106.5)	23 (31.4)	1 (58.7)	22 (6.2)	20 (34.4)	17 (32.0)	11 (2.5)

Rank on Output Fmax Alone (Including Best Vivado & AI Teams)

Fmax Rank	Score Rank	Team	Mean Rank	amd_mini_isc	finn_radioml	fir_symmetric	fir_transposed	rosetta_3d	rosetta_digit	vtr_mcml
1	1	AER	5.285	8 _(409.5)	1 _(351.6)	3 _(463.4)	4 _(377.5)	6 _(292.9)	10 _(421.4)	5 _(73.7)
1	2	RouteAgents	5.285	3 _(413.2)	3 _(350.1)	8 _(443.3)	6 _(376.8)	13 _(285.4)	1 _(459.3)	3 _(74.5)
3	3	ESCA	7.714	2 _(512.0)	14 _(345.9)	16 _(422.8)	2 _(399.5)	8 _(290.4)	11 _(419.1)	1 _(92.5)
4	4	Fu_Do_Fdo	8.571	26 _(372.9)	10 _(348.1)	2 _(463.8)	1 _(402.4)	1 _(322.1)	12 _(417.7)	8 _(72.8)
5	5	MEEMAR	9.857	7 _(410.5)	4 _(349.9)	22 _(414.2)	11 _(374.4)	10 _(289.6)	5 _(428.8)	10 _(72.4)
5	6	Team Opus 5	9.857	10 _(408.5)	7 _(348.8)	7 _(445.2)	5 _(377.4)	7 _(292.6)	13 _(416.3)	20 _(71.4)
7	7	Fmaximizers	10.142	1 _(560.2)	22 _(335.8)	5 _(455.4)	8 _(375.8)	21 _(274.1)	8 _(424.3)	6 _(73.4)
8	-	Best Vivado	11.428	12 _(407.8)	17 _(342.1)	21 _(415.3)	9 _(374.8)	4 _(295.4)	15 _(410.0)	2 _(74.5)
9	8	Novi_CAD	12.142	15 _(406.0)	11 _(346.6)	4 _(458.3)	3 _(379.1)	3 _(297.2)	25 _(367.0)	24 _(71.1)
16	9	Team GPT 5.6 Sol	14.714	18 _(404.2)	12 _(346.4)	8 _(443.3)	21 _(363.6)	25 _(262.6)	3 _(439.0)	16 _(71.6)
22	19	Team Opus 4.8	17.857	24 _(396.2)	24 _(318.0)	1 _(471.5)	23 _(361.9)	22 _(273.4)	19 _(401.4)	12 _(71.9)

Thank You to All Contest Participants!

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 - FPL organizers (Dirk Stroobandt & Evangeline Young)
 - AMD University Program (Mario Ruiz Noguera)
 - AMD RAD (Kevin Cheng)
- This is only the beginning of agentic FPGA optimization!
- Look for publications from contest teams in upcoming conferences
- All 5 finalists have (or will) open source their submissions
- Summary slides, repos, and 3-minute videos will be on contest website

https://xilinx.github.io/fpl26_optimization_contest



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Contest Timeline 2026

