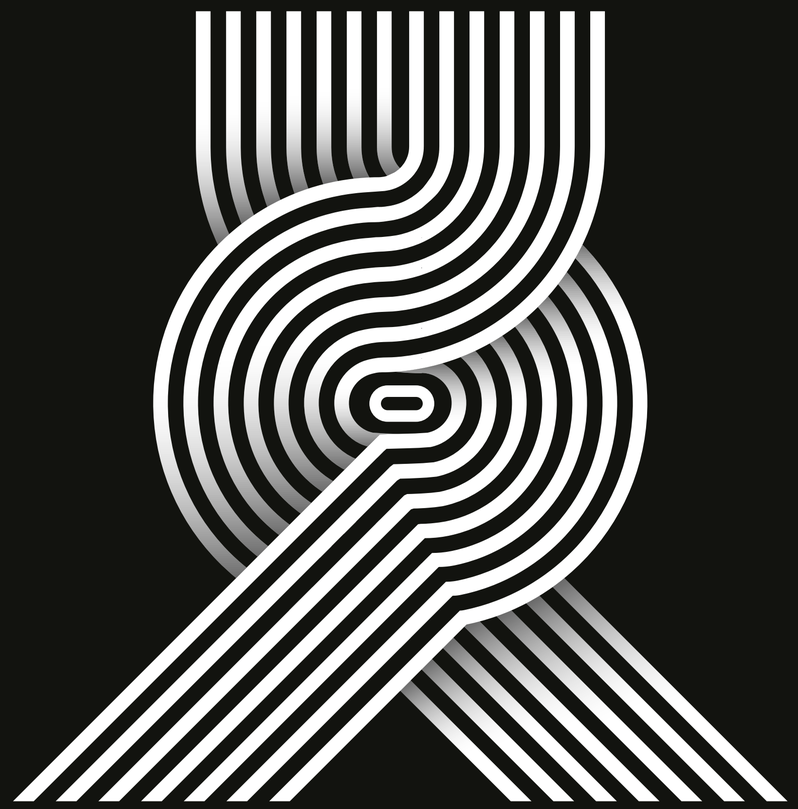


ANARI

ANARI AI is the Nvidia for System On Cloud heterogeneous computing.

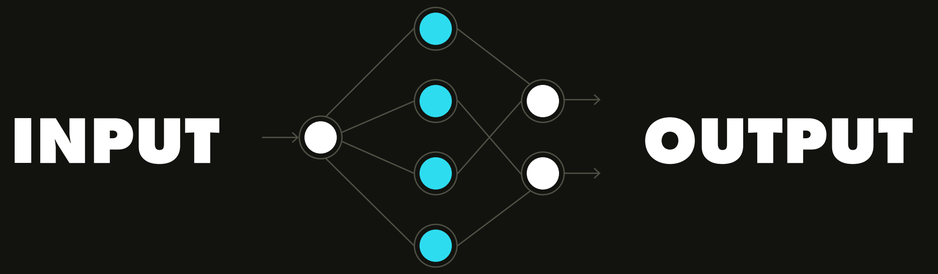
Without building a chip.

ANARI

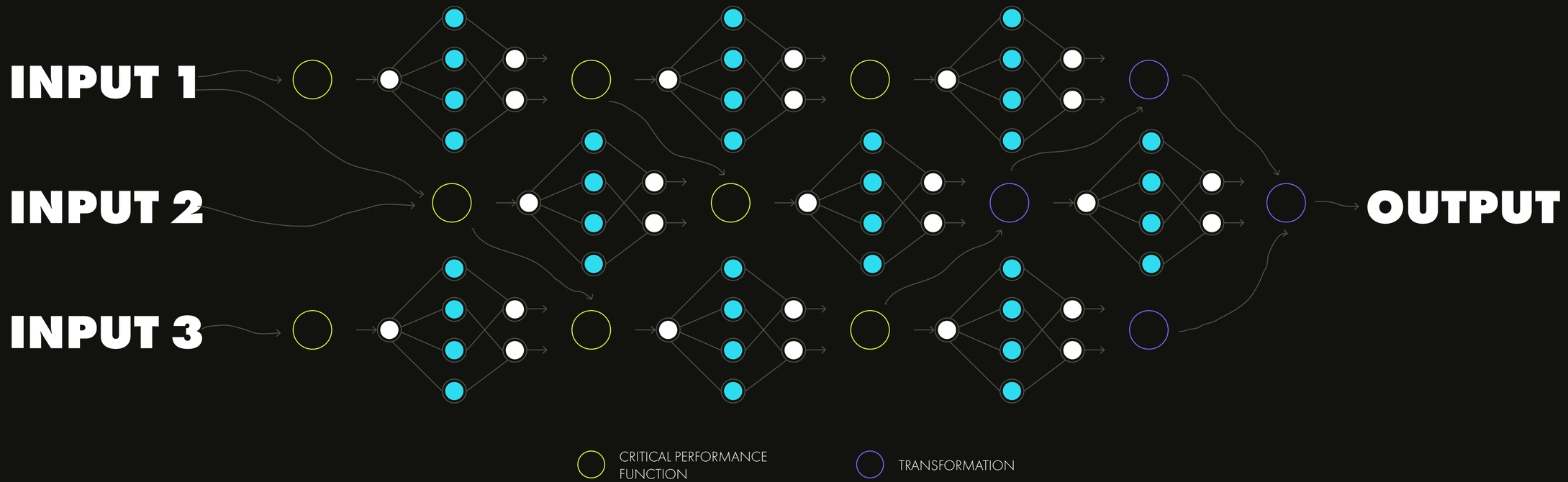
Time and ***money*** spent on AI computing have become **HUGE** bottlenecks for AI progress.

PROBLEM?

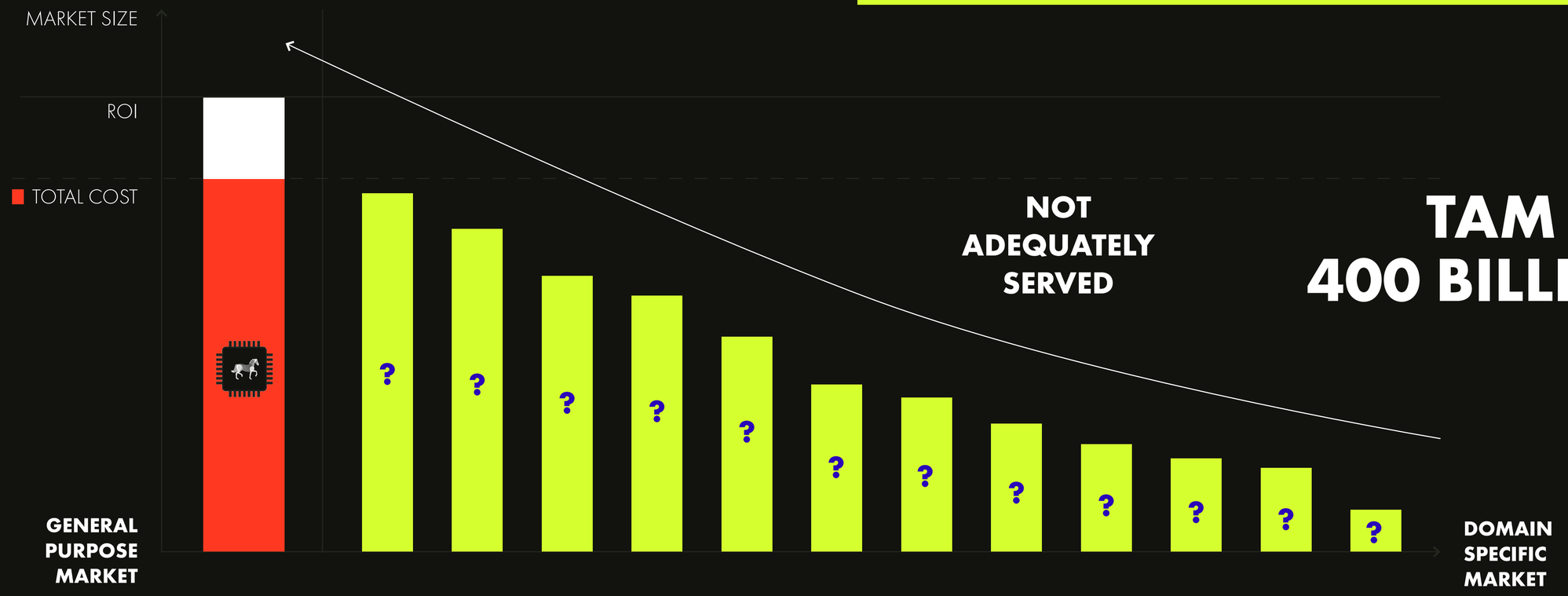
EXPECTATION



REALITY



PROBLEM?



GENERAL PURPOSE MARKET

1. **2-3 years** and **$100's of million** for R&D
2. Not scalable and not frictionless
3. Cast in silicon

DOMAIN SPECIFIC MARKET

1. Current total cost not allowing entrance
2. High need for reconfigurability and reusability
3. Potential for Higher ROI

ANARI

ENABLE

100,000's

AI Compute Systems to be built and deployed in a **FEW** days with a **FEW** people?

ANARI AI TEAM

JOVAN STOJANOVIĆ
Co-Founder and CEO

STEFAN SREDOJEVIĆ
Co-Founder and COO

BOGDAN VUKOBRATOVIĆ, PhD
Co-Founder and Head of RnD

KSENIJA ULIĆEVIĆ
Business Developer

DUŠKO BERONJA
RnD Menager and SW Lead

MILOŠ BOŽIĆ, PhD
AI Lead

NEMANJA LJUBINKOVIĆ
Senior Software Engineer

FILIP DOJČINOVIĆ
Senior Hardware Engineer

+20 people

BOARD OF DIRECTORS

SASHA OSTOJIC
Venture partner at *Playground Global*
Advisory Board member at Samsung Electronics and Zoox
Ex VP for Software at NVIDIA
Chairman of the board at Anari AI

ROLAND MANGER
Founder and partner at Earlybird Venture Capital
Board member at Anari AI

ADVISORY BOARD

JOE COSTELLO
ex CEO of Cadence
Made Cadence a billion dollar company

CHRISTOPH AUER-WELSBACH
Co-Founder and Co-CEO at Kaizo
Ex Venture partner at IBM Ventures

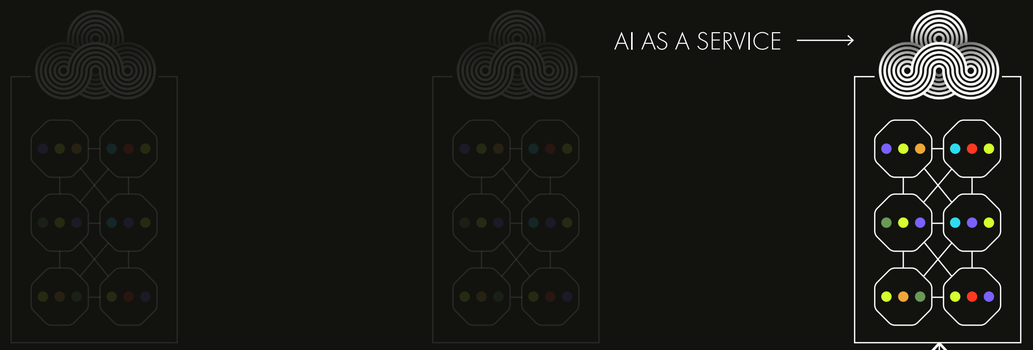
DEJAN MARKOVIC, PhD
Co-Founder of Flex Logix and Professor at UCLA

NAVEED SHERWANI, PhD
Ex President and CEO of SiFive,
Chairman at Open Source FPGA,
Chairman CEO at RapidSilicon

ANARI

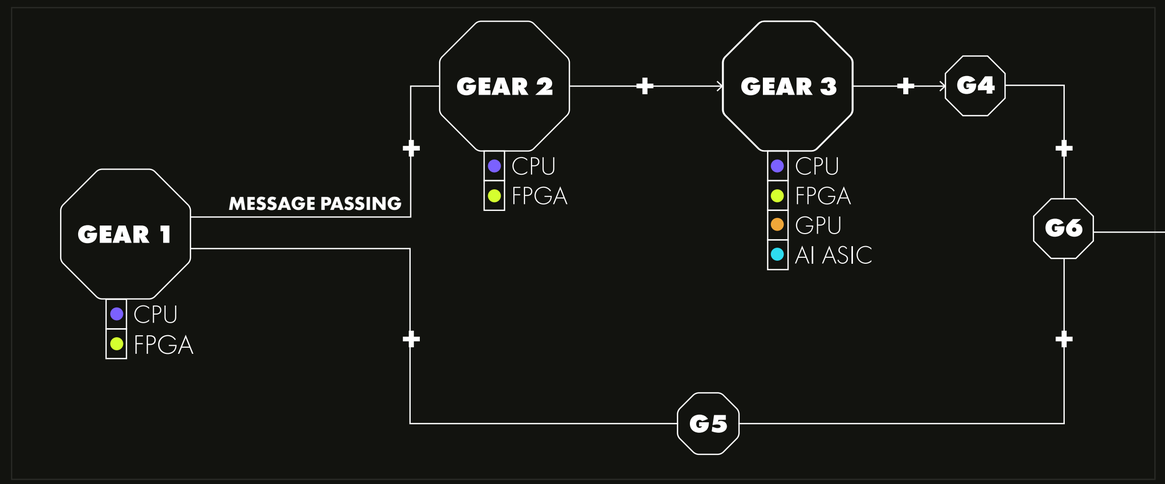
ANARI AI is the Nvidia for **System On Cloud** heterogeneous computing.

CLOUD SOLUTIONS



CLOUD PLATFORM

AIDA = AI DESIGN AUTOMATION



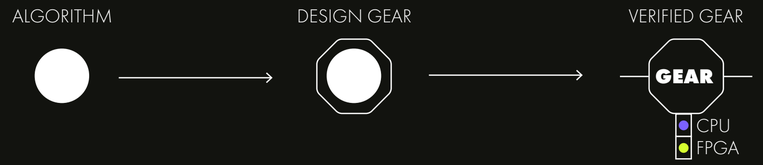
GRAPHELLA

GEAR COLLECTION

G1 **G2** **G...**

FRAMEWORK

"CUDA" FOR "SYSTEM-ON-CLOUD"



WHY CLOUD SOLUTIONS?

To enable next generation of progress to be accelerated

WHY *AIDA*?

To enable next generation of "System-on-Cloud" companies to be born

WHY THE FRAMEWORK?

To empower everyone to create and earn from Gears

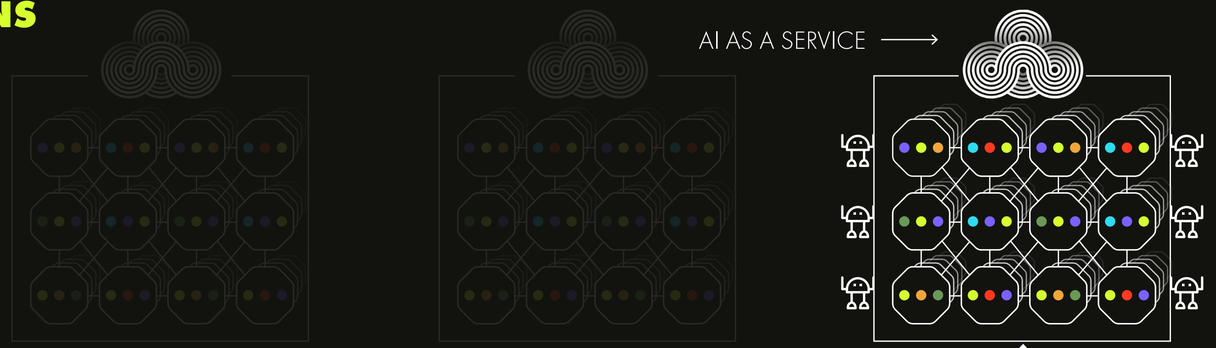
ANARI

ANARI AI is the Nvidia for **System On Cloud** heterogeneous computing.

GRAPHELLA AI

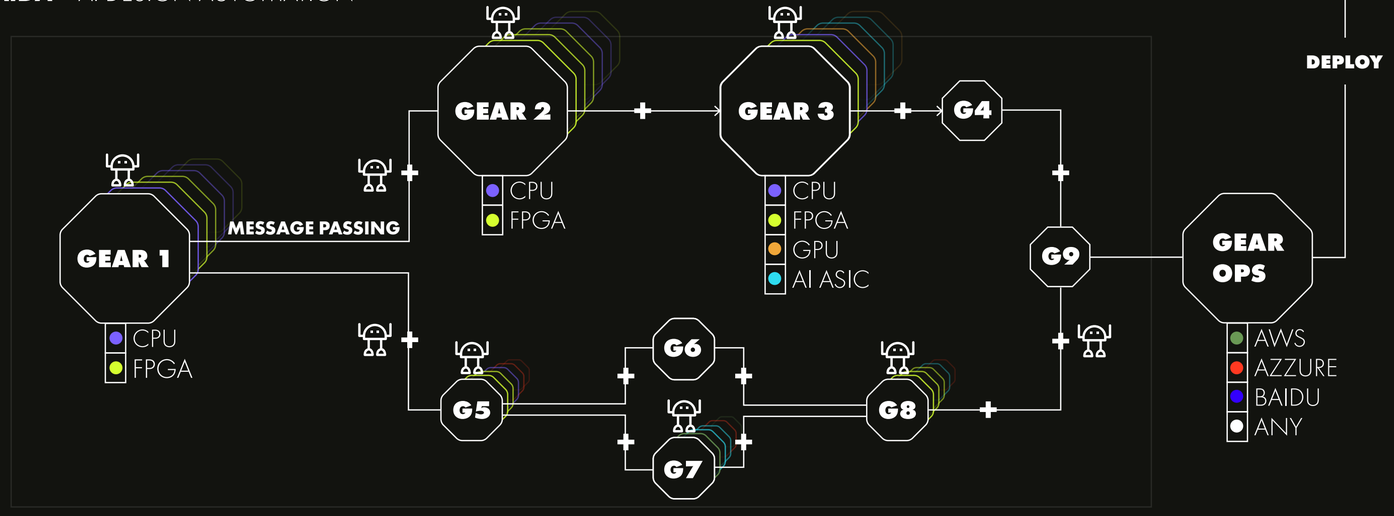
GOAL-DRIVEN COMPUTATION

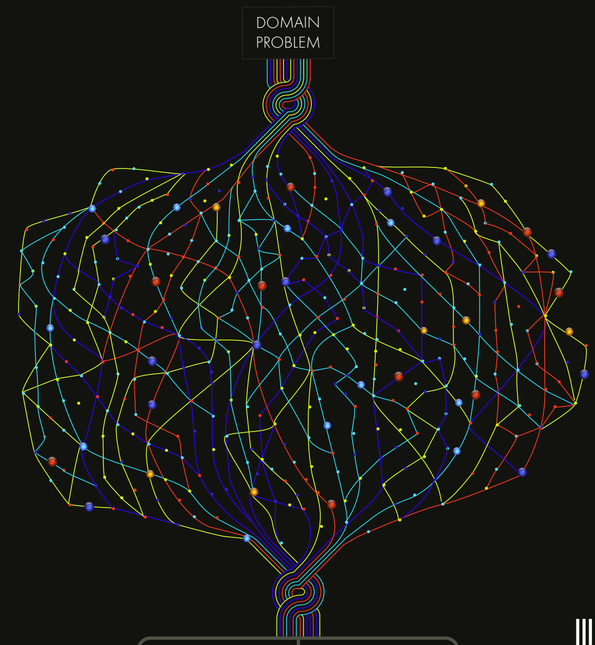
CLOUD SOLUTIONS



CLOUD PLATFORM

AIDA = AI DESIGN AUTOMATION





AI Architect focused on optimization, utilization, and generation of Goal-driven heterogeneous computation. For domain problems just specify the budget, time, or throughput needed and let Graphella advise and scale for the perfect results in the cloud environment.

www.anari.ai

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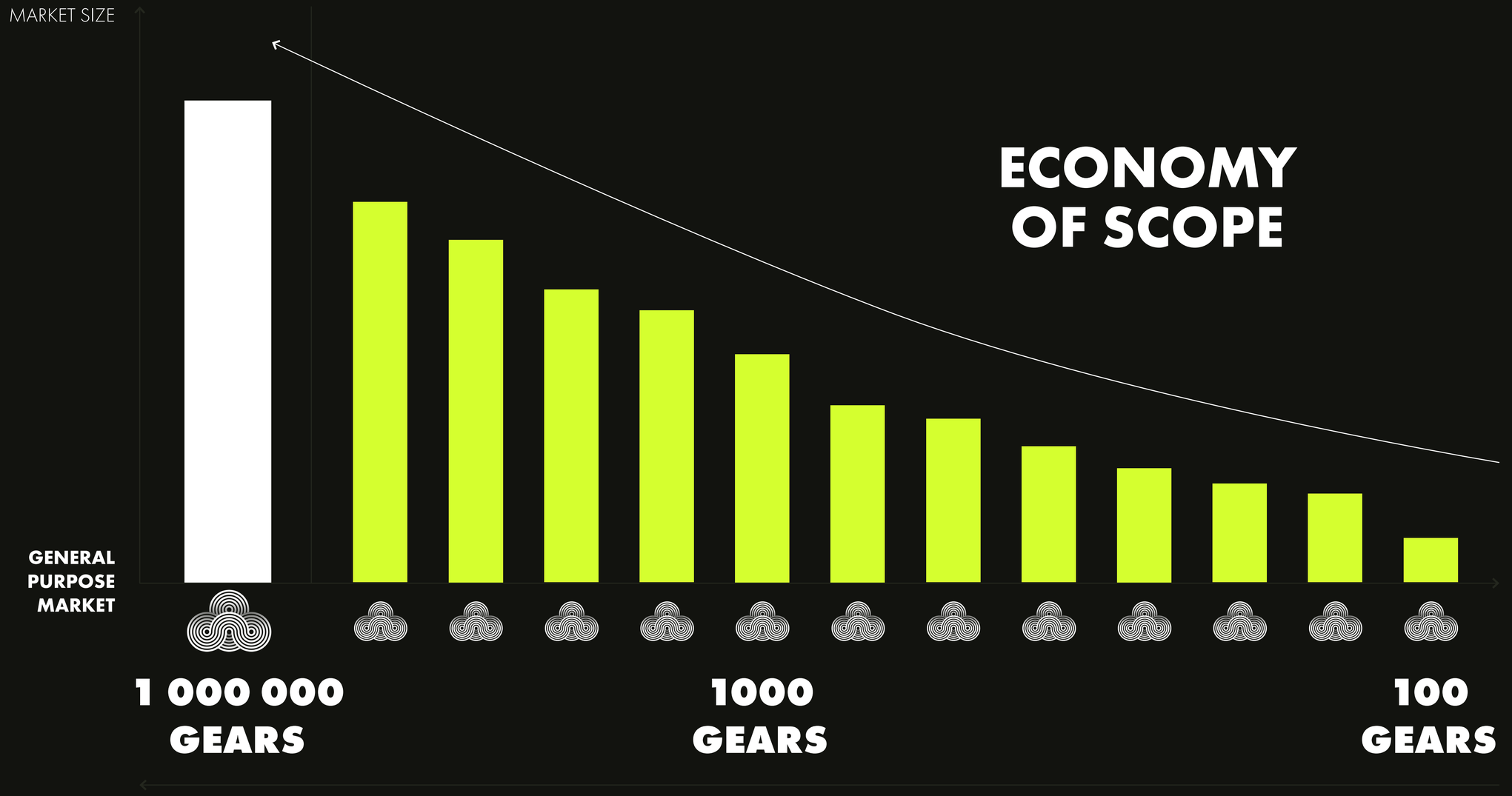
ANARI WILL CHANGE THE WORLD



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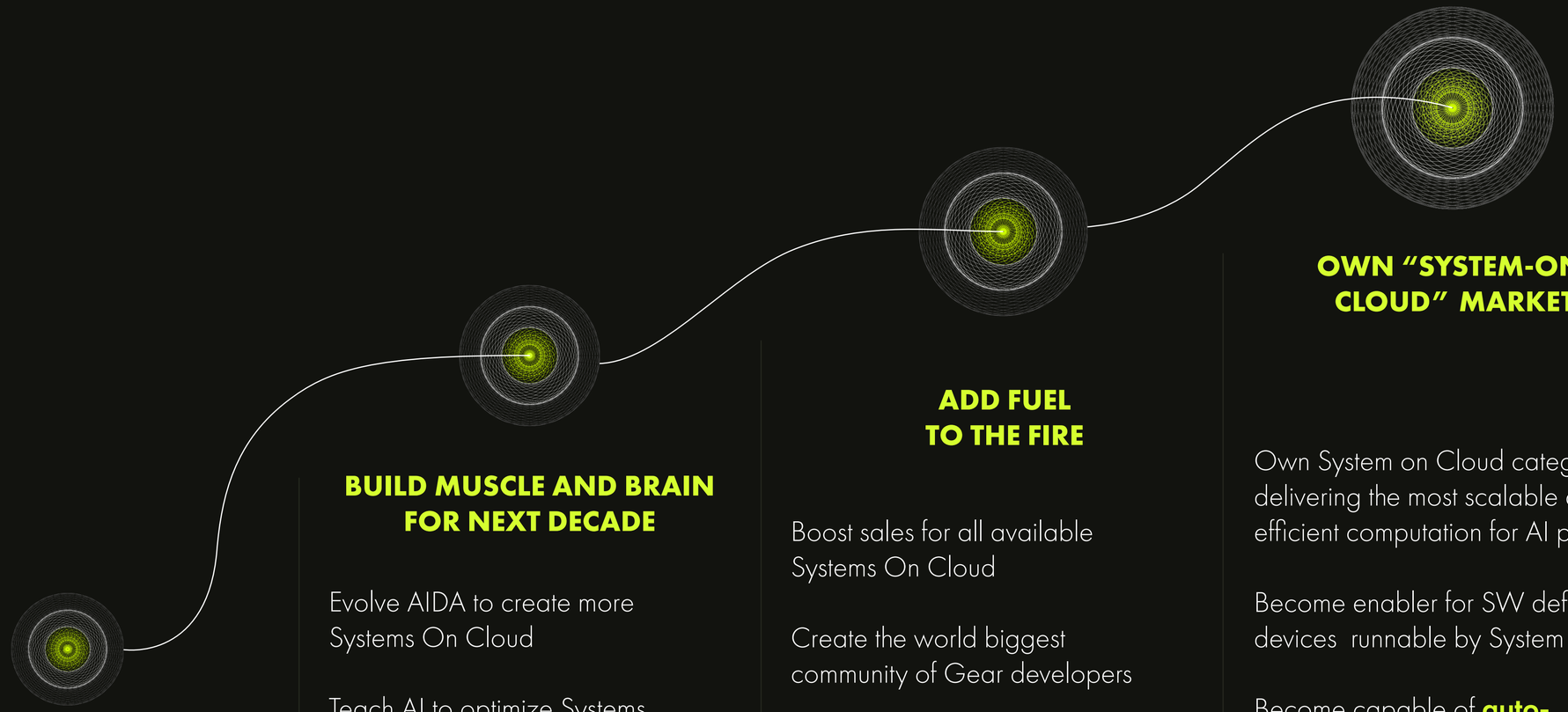
PATH TO FUTURE



LAY THE GEAR FOUNDATION

Design Gears faster and with better perf/$ with just software

TODAY

BUILD MUSCLE AND BRAIN FOR NEXT DECADE

Evolve AIDA to create more Systems On Cloud

Teach AI to optimize Systems in a Goal Driven way

Commercialize our first System on Cloud

Significantly expand Gear library

2022-2024

ADD FUEL TO THE FIRE

Boost sales for all available Systems On Cloud

Create the world biggest community of Gear developers

Open AIDA to others and create first marketplace for Sys-cloud developers

Integrate with major AI cloud components

2024-2027

OWN "SYSTEM-ON-CLOUD" MARKET

Own System on Cloud category by delivering the most scalable and cost efficient computation for AI problems

Become enabler for SW defined devices runnable by System On Cloud

Become capable of **auto-coding** and scaling chip modules in Goal Driven way

Build **System on Cloud in seconds** for problems that come after **Current AI**

2027-FUTURE

ANARI

WHERE ARE WE NOW?

AI COMMUNITY

30 000 AI people across 80 cities worldwide

DeepMind
Google
facebook
Adobe

NEW CUSTOMER "SYSTEMS"

EPIC GAMES
APIS Assay Technologies Ltd.

ANARI AIDA

Ford
Trimble
Hitachi Vantara
Dataloop
Schneider Electric

THE FIRST SYSTEM - THOR X

Official course of **chip design at UCLA**

110+ in build Gears

UCLA Samueli School of Engineering
ASU Arizona State University

ANARI FRAMEWORK

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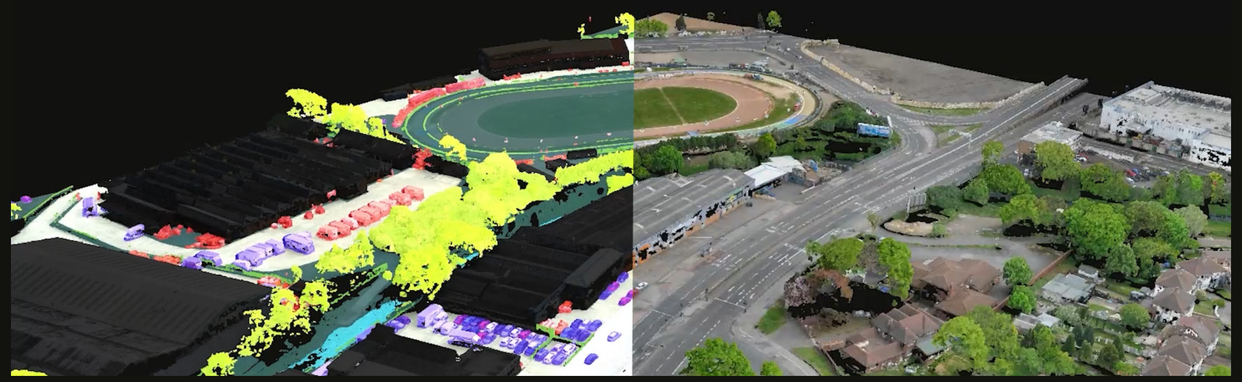
ANARI

THOR X

THE FIRST ***SYSTEM on CLOUD*** FOR DIGITAL TWINS, 3D ARCHITECTURE AND GEOSPATIAL



Developed in **4 months** with **3 engineers**

THOR X

BY ANARI AI

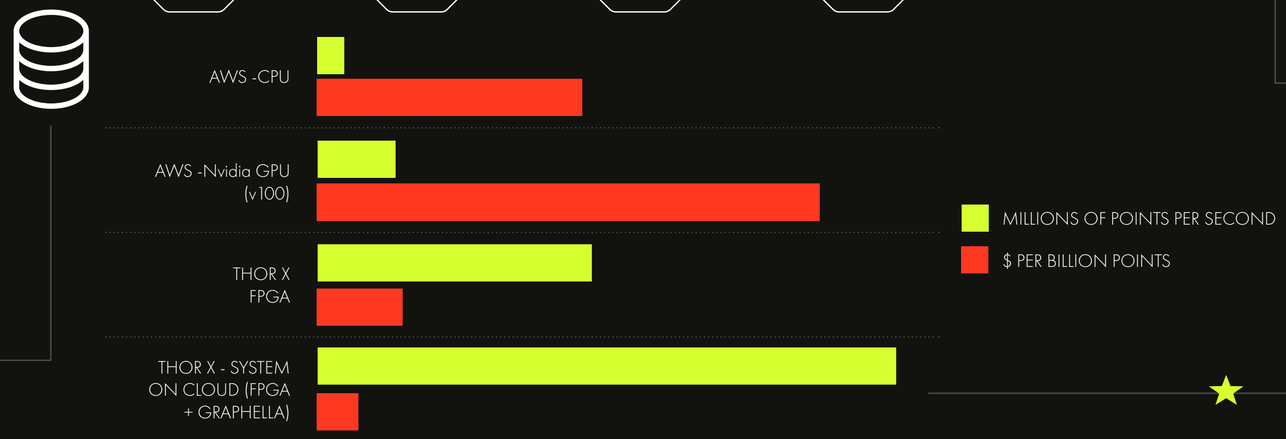
GEAR IV1 EVANGELIST

AI engine for semantic segmentation of 3D point clouds.

EXECUTE

HW + ML + SW

GEAR 1 **GEAR 2** **GEAR 3** **GEAR n**



What 10 people in 5 days achieved using current approach, Thor X with 1 person achieved in 2 minutes.

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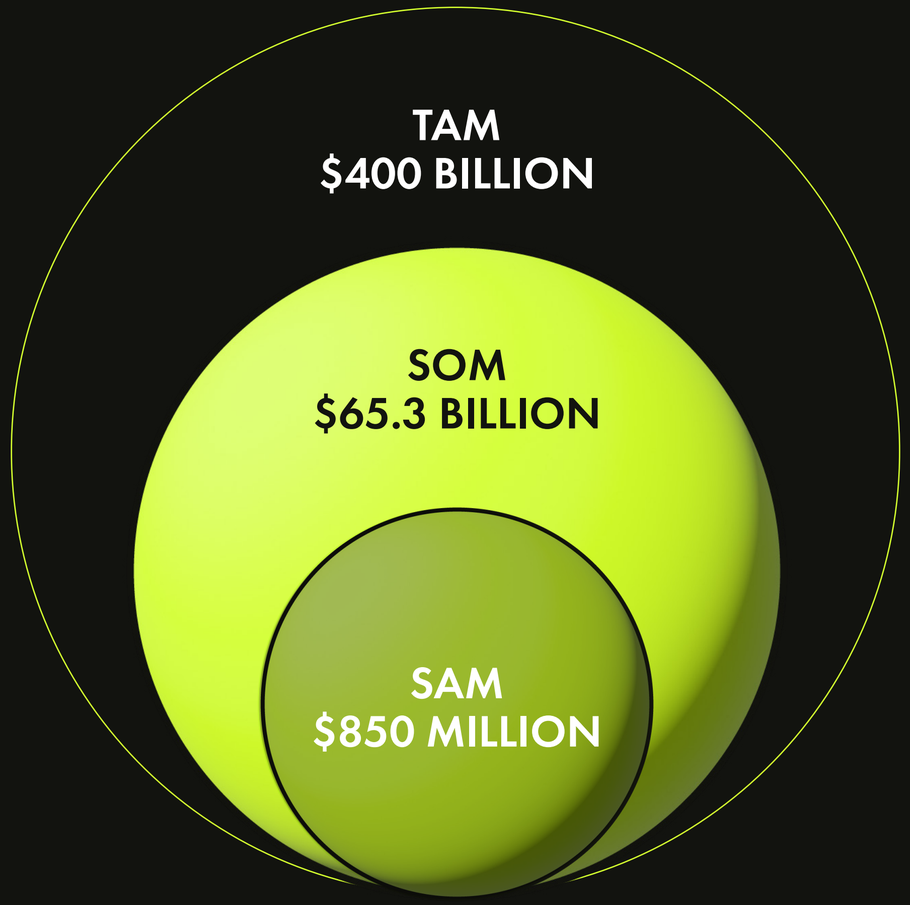
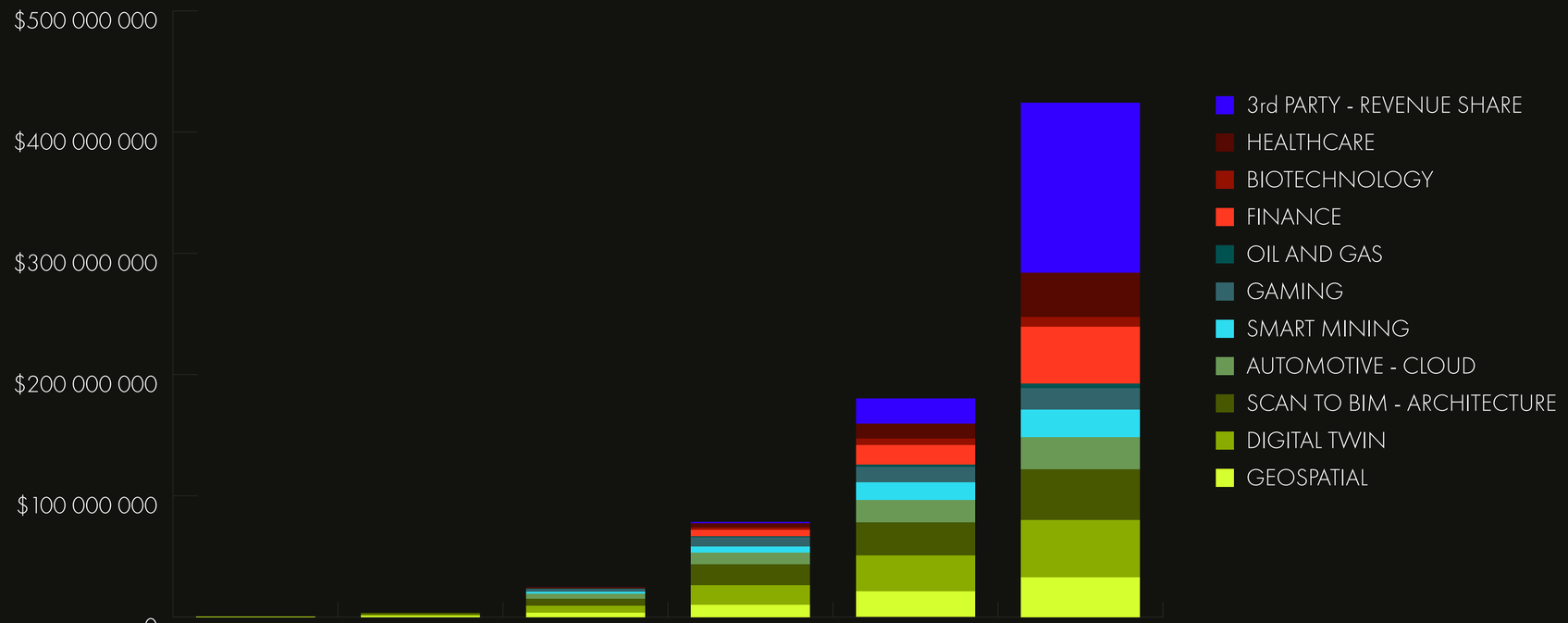
MARKET SIZE



TAM	Digital Twin, Geospatial and 3D Architecture
SOM	*Cloud (Data Center) AI acceleration* By 2026
SAM	Building Vertical AI Solutions - TAM by 2030

REVENUE MODEL

REVENUE FORECAST SUMMARY - PER PRODUCT PER YEAR



	2022	2023	2024	2025	2026	2027
# of Gears	110	500-550	2000-2100	7-10 000	10-15 000	15-30 000

REVENUE STREAM 1

PAY AS YOU GO

computation per hour.

Will evolve to SaaS.

REVENUE STREAM 2

30%

Revenue share from 3rd party Gears and Systems.

ANARI

JENSEN HUANG
CEO of ***NVIDIA*** for technologyreview.com

> Software is eating the world,
> but AI is going to EAT software.

AI is here to **FEED** the world.
In a **GOAL-DRIVEN** way.

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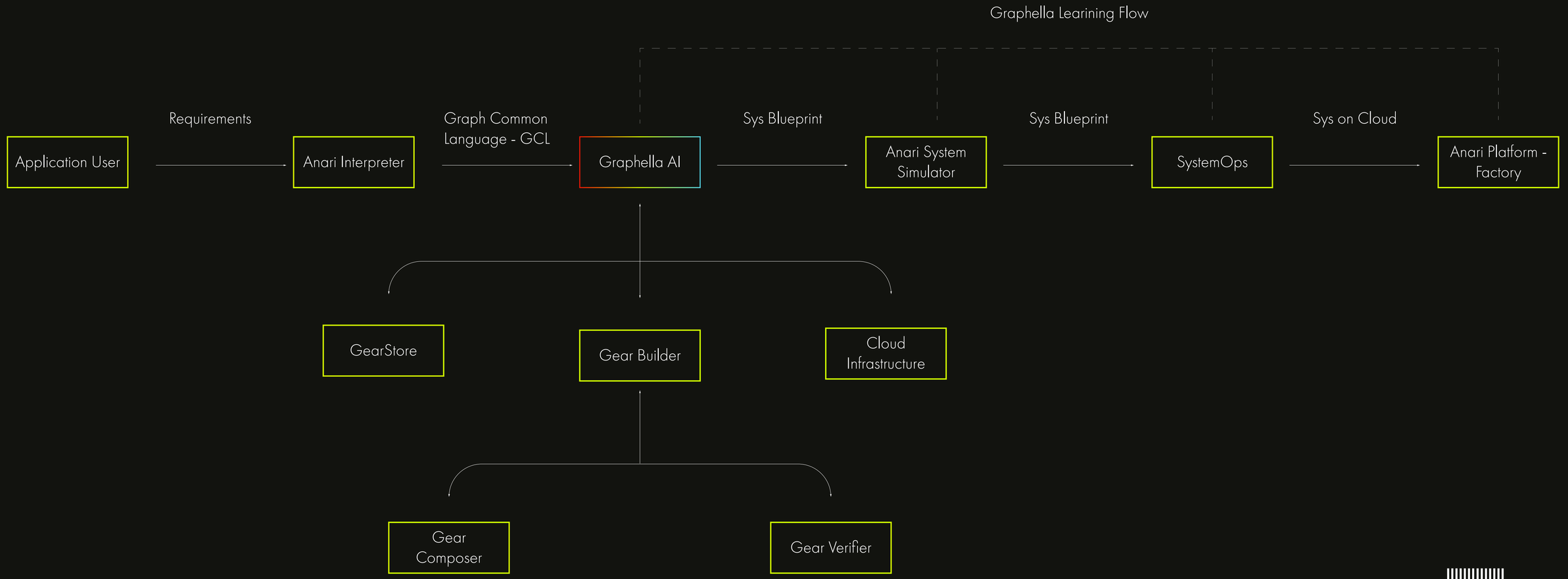
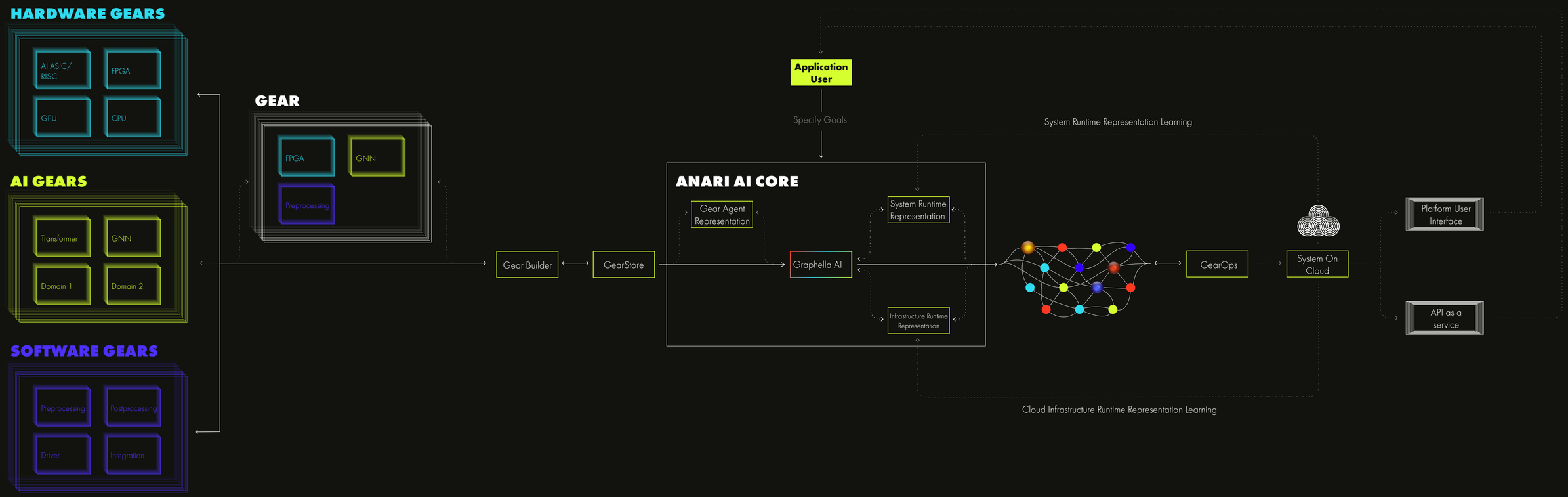
ADDITIONAL SLIDES

ANARI AIDA ARCHITECTURE



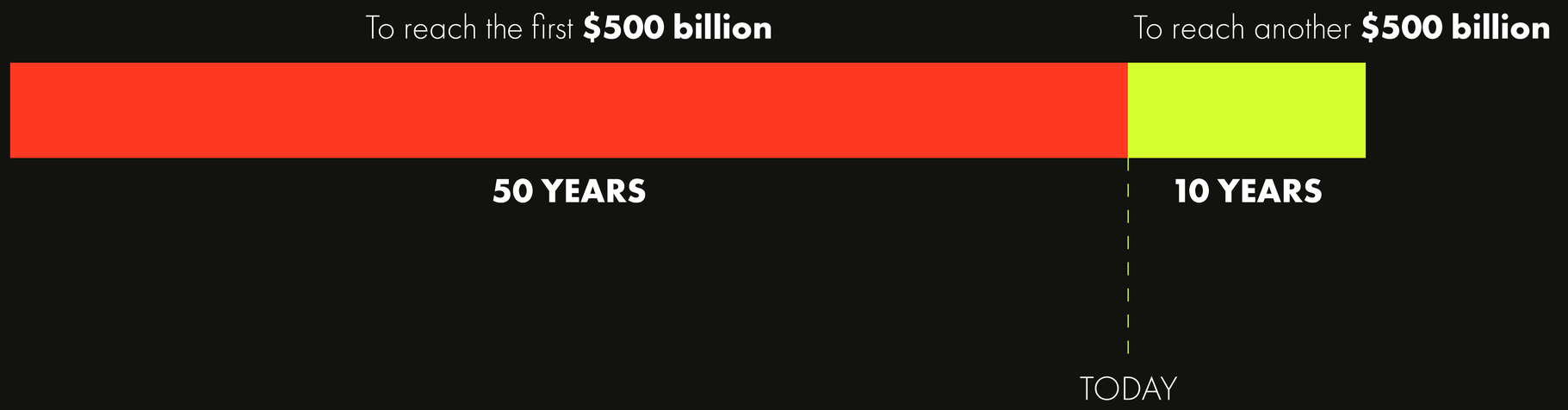
ANARI

ANARI AI

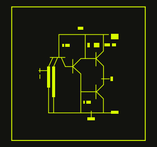
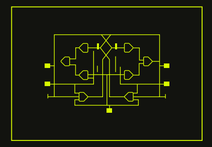
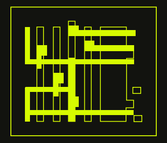
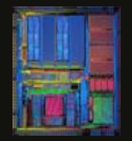
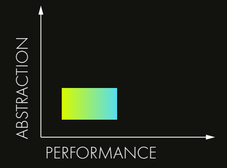
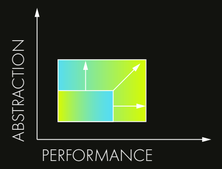
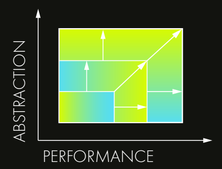


ANARI

According to a recent study conducted by Korn Ferry, the labor deficit is costing companies more than **$2.1 trillion** combined in unrealized output each year. By **2030**, that number is expected to reach an astonishing **$8.5 trillion**.



PAST vs FUTURE

	1970	1980	1990	2000	2020
LOGIC DESIGN	 Schematic Drafting	 Schematic Design Entry	Language-Based Entry	HDL, C/C++, System C	
PHYSICAL DESIGN	 Custom Layout	Automatic Place & Route (APR)	 APR & Core-Based Reuse	Design & Manufacturing Aware Layout	
VERIFICATION	Test & Measurement Prototyping	 Gate-Level Simulation	 Language-Based Simulation	 System-Level Simulation	

System On Cloud Design

- AI agents for various tasks are trained for each module
- AI powered code completion system
- Semi-Automated IP composition via AIDA
- AI powered automatic code generation
- Goal Driven Reconfigurability
- Automatic AI accelerator inference based on high level description

System On Cloud Simulation

- AI modelling of cloud infrastructure
- Performance simulation of various deployment scenarios for systems on cloud
- Goal driven Automated cloud Scaling across heterogeneous workers

System On Cloud Simulation

- AI powered test plan generation (domain specific NLP): specification -> (constraints, cover groups)
- Python driven verification
- Gear as verified Black-box functions