

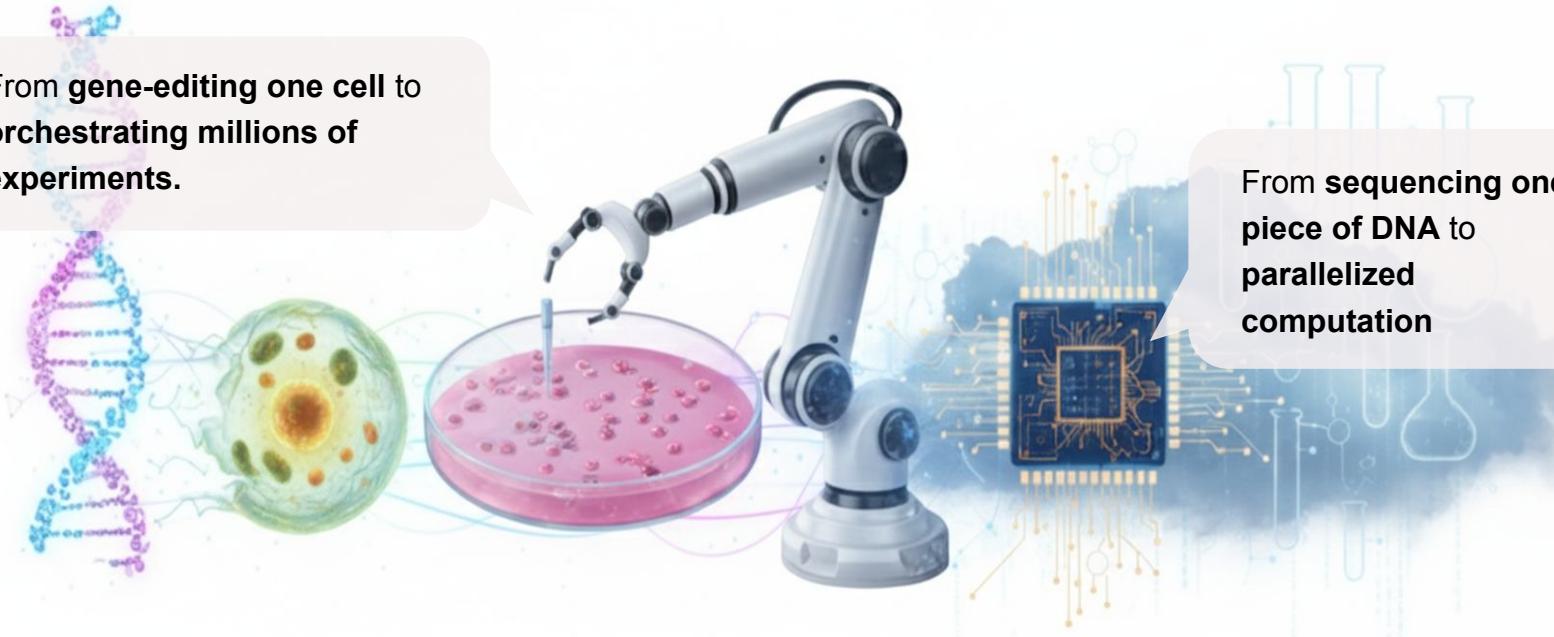
# — • THIS BECOMES TITLE SLIDE

## The Dream: Automating Biology and Medicine Across All Scales

**Innovation** happens when we **automate** what once seemed **un-automatable**.

From **gene-editing one cell** to  
orchestrating millions of  
experiments.

From **sequencing one**  
**piece of DNA** to  
**parallelized**  
**computation**





# Today's Gaps

Despite the Amazing Technologies Out There

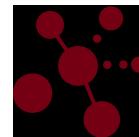
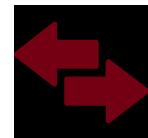
We are building **a unified human/robotics-AI collaborative intelligence platform** to conquer these challenges.

## Pain Points to Achieve Superintelligence in Labs



### Knowledge Incompleteness

- Without multimodal recordings of live experiments, models can't refine true lab workflows.
- Unstructured human expertise (techniques, improvisations) isn't digitized.



### System Silos

- Instruments, LIMS, robotics, and analysis tools don't interoperate

Now:

# We Believe the Cambrian Moment for Biomedical Superintelligence Is Coming

## Human-AI Co-Evolution Towards End-to-End Solution

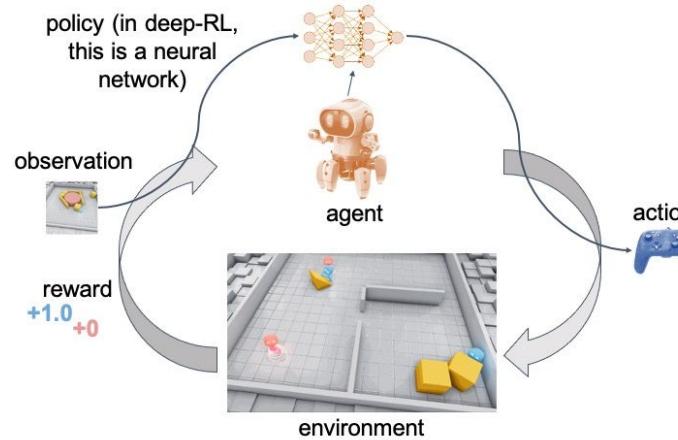
It's for both scientists and clinicians — capturing human expertise (routines and surprises), standardizing execution, and enabling scaling across teams, sites, and institutions!

"Vision didn't just add a feature—it changed everything."

Andrew Parker's "Light Switch Theory": 550M years ago, the evolution of eyes triggered the Cambrian explosion—the most dramatic flourishing of life in Earth's history.

Parallel: Self-evolving AI + XR vision could trigger a similar explosion in scientific discovery. Not incremental improvement—revolutionary capability.

Turn open-ended biomedical labs/procedures to  
a quantifiable, engineerable setting with feedback loop



- Close the gap between **agent evaluation** and **real lab discovery/operation**, make true lab-proven, clinical-proven AI
- Turn every biomedical physical setting to an **AI/RL environment**



# Team

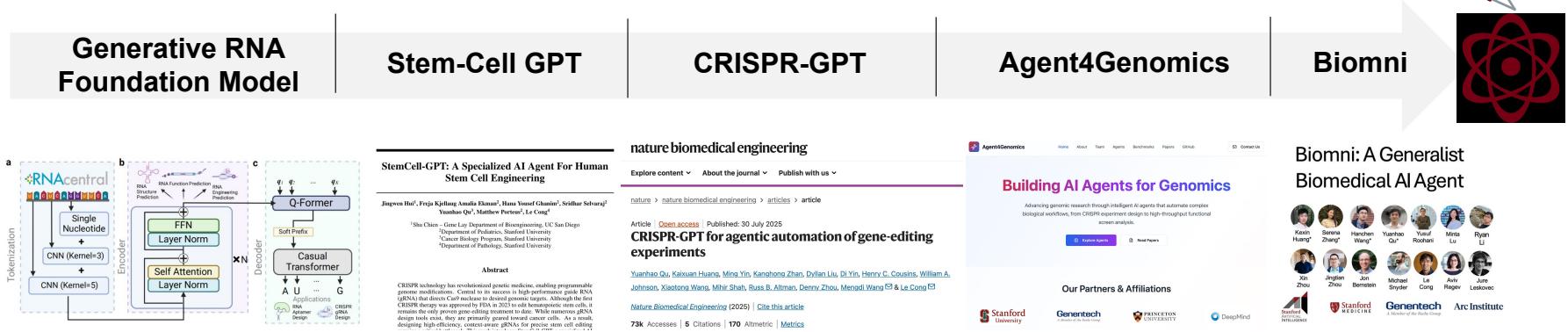


# We Have Laid a Solid Foundation for Our Vision

**From Micro-Scale of Perception/  
Engineering/ Tracking**  
e.g. *crispr*, *single cell omics*, *RNAgenesis*  
*foundation model*

**To Macro-Scale for  
Perception and  
Operation**

— Our 1st Product —  
**LabOS**



# ZOOM IN: LAB-OS v.0

AI now equipped with new ‘EYES’ and ‘HANDS,’ LabOS takes human-lab collaboration to the next level



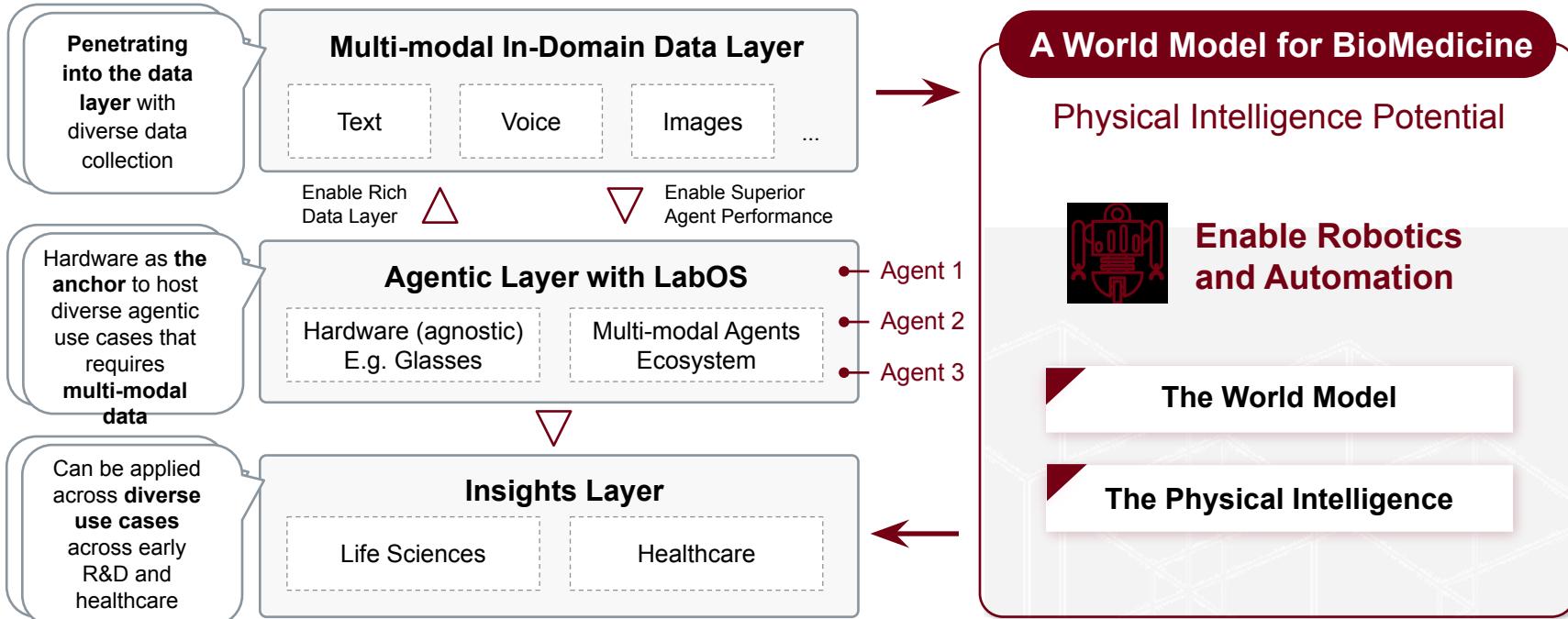
# LabOS Smart Glasses Concept Demo



The AI agent can understand human action and control robotics to collaborate with human. This enable human to go to a different room for parallel task, while robot complete the bench task.

▲ This video is a demo of how scientists **work with XR glass** to interact with **AI agent**.

# Our NorthStar: A world Model For Biotechnology and Clinical Use Cases





# First Set of Use Cases in Discussion with Partners

## *CONDENSE 31+ 32 and make it beautiful*

### Pharma / Biotech

- 01** **High-Value Workflows** that is low reproducibility  
e.g. Organoids / Stem cell
  
- 02** **Data Capture** of experimental process

#### From Top Pharma Research Informatics Head:

“The use case like Organoids culture can great benefit from this. It's complex procedure, error-prone and something like LabOS would be extremely helpful.”

#### From top 10 pharma VP of IT :

“If you can help scientists collect data without manually writing/inputting it, it's very useful bc scientists will only need to care science and less burdened by recording of data. “



# CONDENSE WITH PREVIOUS

## Clinical / Hospital

01

### Pathology Labs

High-repetitive and error-prone workflows

02

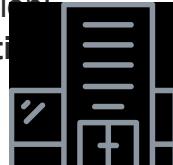
### General Clinical Lab Documentation

(Lot/Inventory/Record management),  
AI-guided Training, enhanced  
Productivity & Reproducibility, tracking  
all errors/outcomes

03

Future use case in discussion

**Surgical, Hospital Operations**  
(for nurses)



### Pathology Lab head (Chandler Ho):

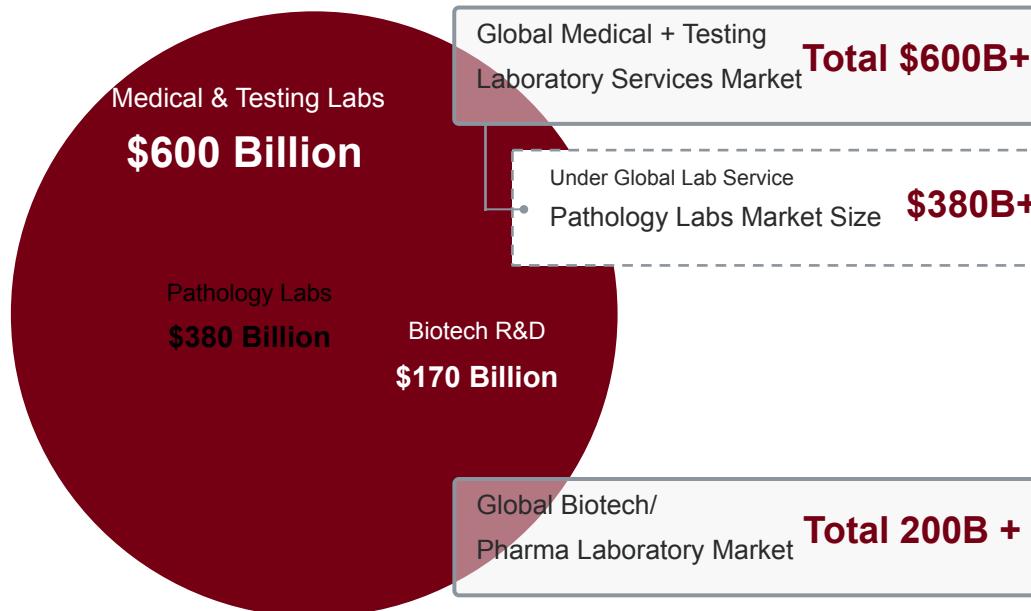
“We are excited to use LabOS for inventory/lot-tracking, operation doc and smart training of new operators”

### Pathology Genomics Unit Head (Stuart Scott, Fei Dong)

“We are working with Le Cong lab on agent-design clinical sequencing workflows, facilitate assay selection and decision-making, and data analysis for variant interpretations.

On operation lab side, we are working on XR guided documentation, error detection/correction, and XR-guidance for fine procedure in biopsy and slide management, on training scientists when we onboarding new assays and instruments”

# Huge Market for Biomedical Superintelligence Starting with **Pharma & Pathology Labs**, Then Expanding



## LabOS Short-Term TAM

Operating costs  
(assume ~80% of total): **\$480 B**

Assuming 5% cost reduction: **\$24 B+**

Operating costs  
(assume ~80% of total): **\$160 B**

Assuming 5% cost reduction: **\$8 B+**

## Physical Intelligence Longer-Term TAM

Labor share (assume ~45% of operating costs):  $\$480 B \times 45\% = \$216 B$

Assume 30% labor changed to automation  $\rightarrow 216 B \times 30\% = \$64.8 B+$

Labor share (assume ~45% of operating costs):  $\$160 B \times 45\% = \$72 B$

Assume 30% labor changed to automation  $\rightarrow 72 B \times 30\% = \$21.6 B +$



# Business Model (Short-Term)



**LabOS**

**Low-Hanging Fruit**



**Data**



**Physical  
Intelligence**

## LabOS Subscription



Platform deployment,  
**Subscription &**  
**Usage-based** model

## LabOS Co-Dev

Platform **Co-Dev** and  
**Milestone Payments**

## Agent Ecosystem

Platform to enable other  
agents in workflows, be the  
**“Agent Store”**



— Targeting Customers —  
Biotech / Pharma / Hospital

— Targeting Customers —  
Pharma / Hospital

— Targeting Partners —

Other agent companies in ecosystem,  
scientists/doctors that want to build and  
deploy their own agents



# Business Potential (Medium/Long-Term)



LabOS

Low-Hanging Fruit

LabOS Subscription

LabOS Co-dev

Agent Ecosystem

— Short-term —



Data

Medium-Term

In-domain Data Engine

■ Biomedical Reasoning data  
& Embodied data for co-dev

■ — Targeting Customers —  
Frontier AI Labs



Physical  
Intelligence

Medium/Long-Term

Physical Intelligence

■ Lease or sell In-domain  
physical intelligence  
capability, in-domain robotics

■ — Targeting Customers —  
Biotech / Pharma / Hospital

# We are raising \$30M to launch our 1st product LabOS and enable **gnyte** Biomedical Super Intelligence

AI4BioMed

**50%** Product Development:  
Hardware, agent, software

↑ **6 months**

- **1** major hospital customer deal
- **1st** product into customer field, targeting **1-3** high-value workflow

**40%** Next-gen Technology R&D:  
Lab Setup and Robotics Setup

↑ **12 months**

- Launch **10+** co-dev partnerships centered product ecosystem

**10%** Prove Commercialization Model: Partnerships

↑ **18 months**

- **1** other major hospital customer deal

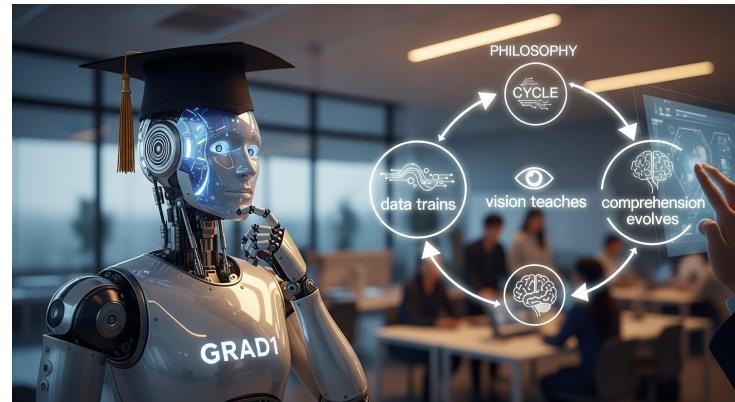
↑ **24 months**

- **2nd** generation of product, covering **3+** high-value workflow



## Our philosophy: Data trains, vision teaches.

Visual learning is treated like a second class citizen in biology and clinical by our competitors, but we believe that is an accident of history, and the future lies in multimodal collaboration to create higher-efficiency learning with a higher ceiling on performance.



We are a human centric technology company accelerating the next generation of collaborative tools.

Data trains  
Vision teaches

Outline of Ben & Sandy 1: 1  
Goals for Wed 2PM PT  
Needs for the deck  
What is missing?  
Settle on the list of  
slides, actual topic sentences  
[ Create deck outline ]

Goals for Wed:

1. Get reaction to the [A] vision and [B] storyline.
2. Get feedback on the business model

Needs for the deck:

Clearly explain in order:

- a. The vision

Outline of the deck (topic sentences)

1. Our vision is to automate biology and medicine across all scales [PROBE/TITLE SLIDE]
2. Today it's not possible to do X because there are a lot of silos of data.
3. We believe that the cambrian moment is coming through human-ai co-evolution.
4. Here is the team that can make this happen.
5. This team has laid a solid foundation for our vision, and we are now at an inflection point with our first product to benefit scientists.
6. For LabOS, v0 equips AI with its eyes and hands, kicking off co-evolution in the domain of biotech. (Demo has AI with eyes and hands)
7. [Continues slide 6]
8. What you see is not purely human-AI collaboration, in the process, we are building a world model for biotechnology and clinical *use cases*.
9. We have already gotten a lot of interest from pharma about how Lab-OS can create value and we are in active partnership discussions. [Key slide]
10. This solution can also be used in a clinical setting and we are engaged setting up a pilot with Stanford teaching hospital. [Key slide]
11. There is a huge market potential in creating operational efficiency and reducing errors in pharma and pathology, that is our starting point and low hanging fruit
12. In the near term, we are creating a subscription and partnership model to gain customers and to create a dataset.
13. In the long-term, our objective is to leverage our vision datasets of high-value tasks and world model which facilitates humans and robots to execute and train a wide variety of high-value tasks.
14. We are fundraising for \$30m and this will enable the key milestone of commercialization.
15. Our philosophy: "data trains, vision teaches"; visual learning is treated like a second class citizen in biology and clinical by our competitors, but we