

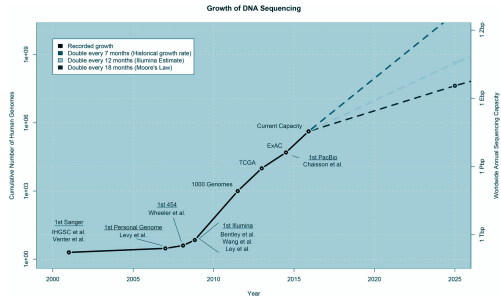
AIomiX

Artificial Intelligence Enabled Multi-Granular
Integrative
Omics

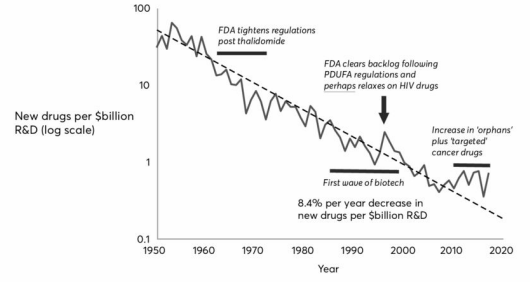
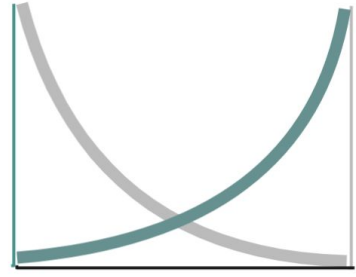
Drug Discovery Platform



The Problem - More Biological Data but Fewer Novel Drugs

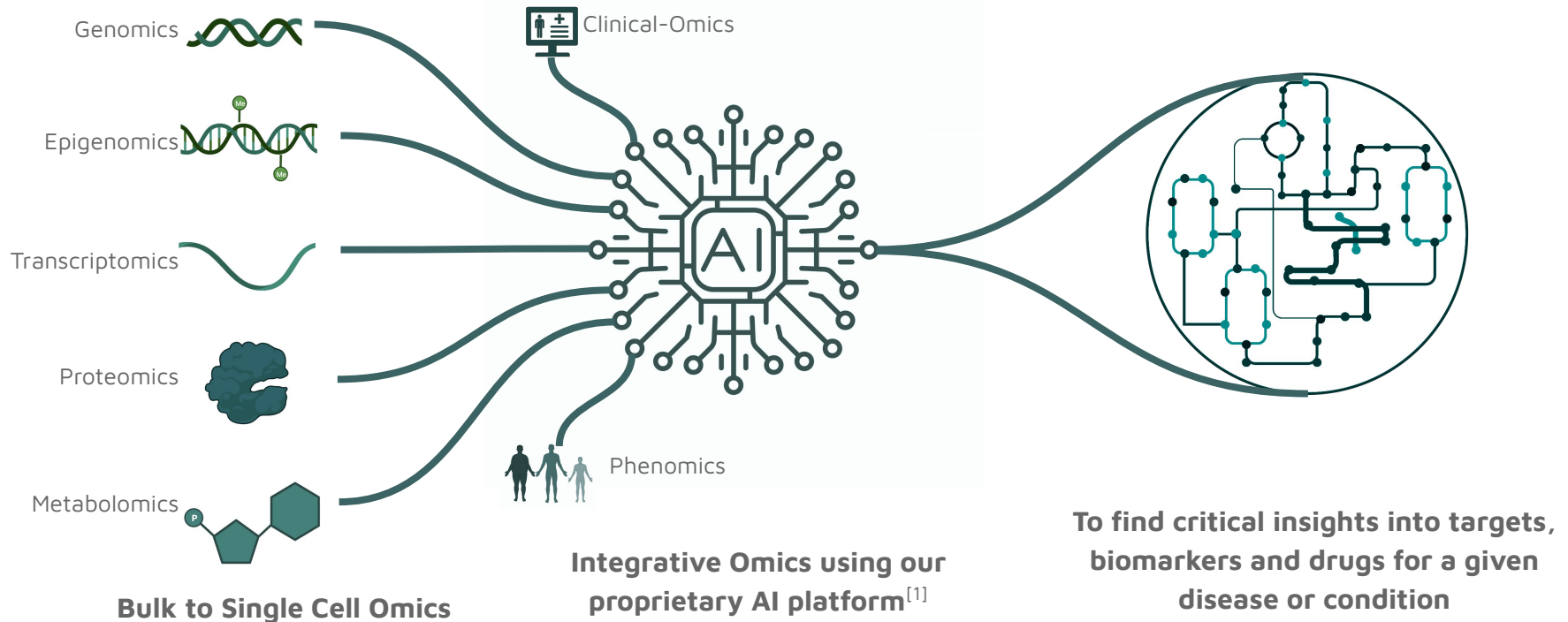


Omics data generated

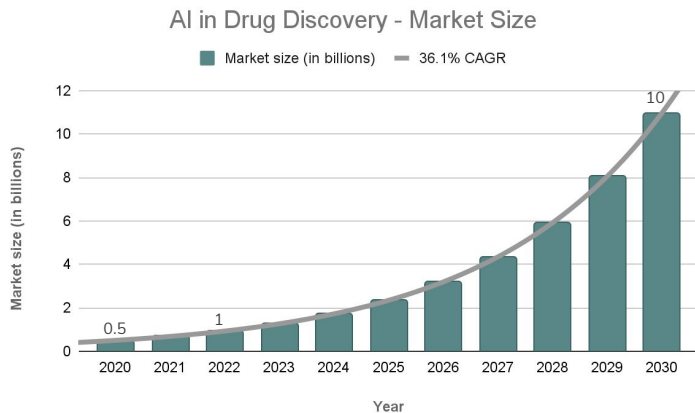


The bottleneck is not data generation any longer rather it is the lack of insightful analysis of multi-resolution and multi-omic data

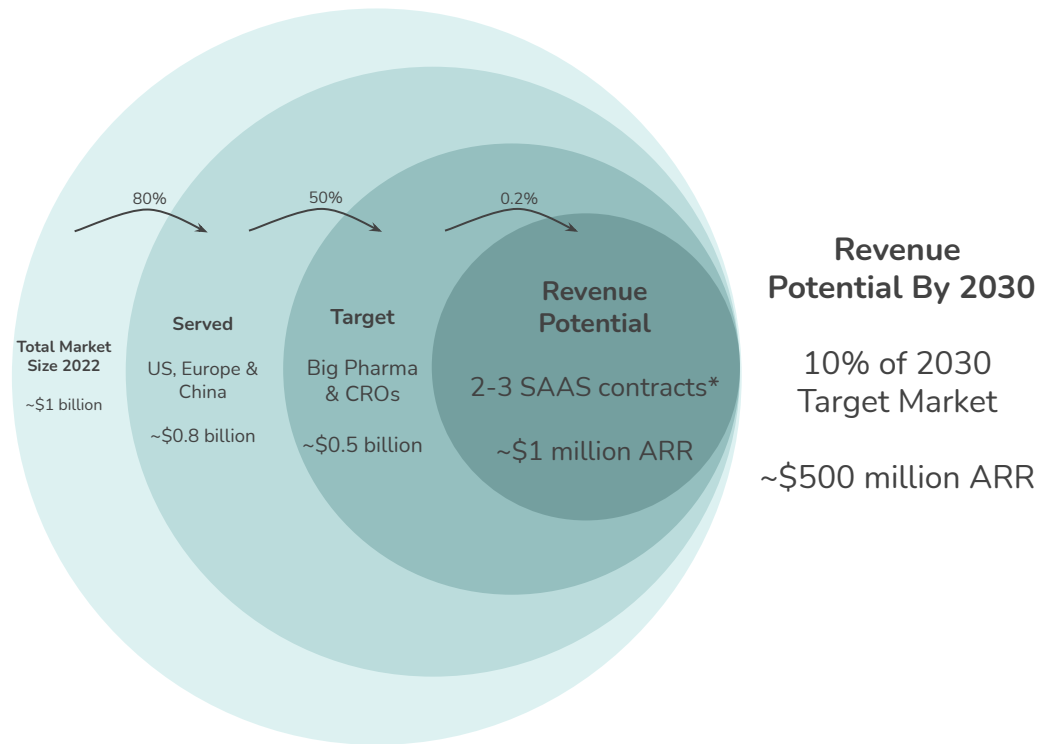
Solution AIOMiX: An AI Enabled Multi-Granular Integrative Omics Platform for Drug Discovery



Market - 10 Billion Dollar Industry By 2030



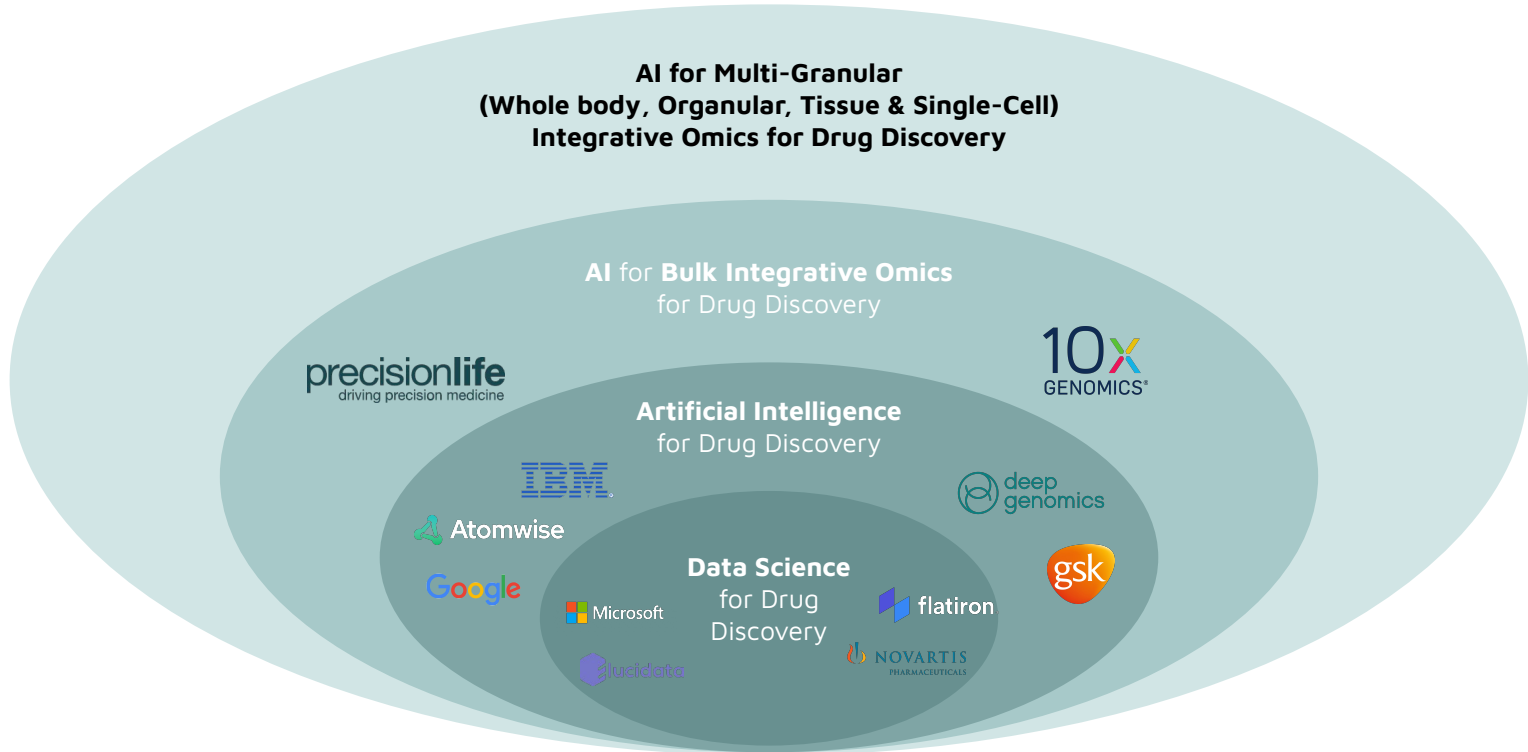
The total market is expected to grow at **36.1% CAGR** from **1 billion in 2022** and **10 billion by 2030**^[2]



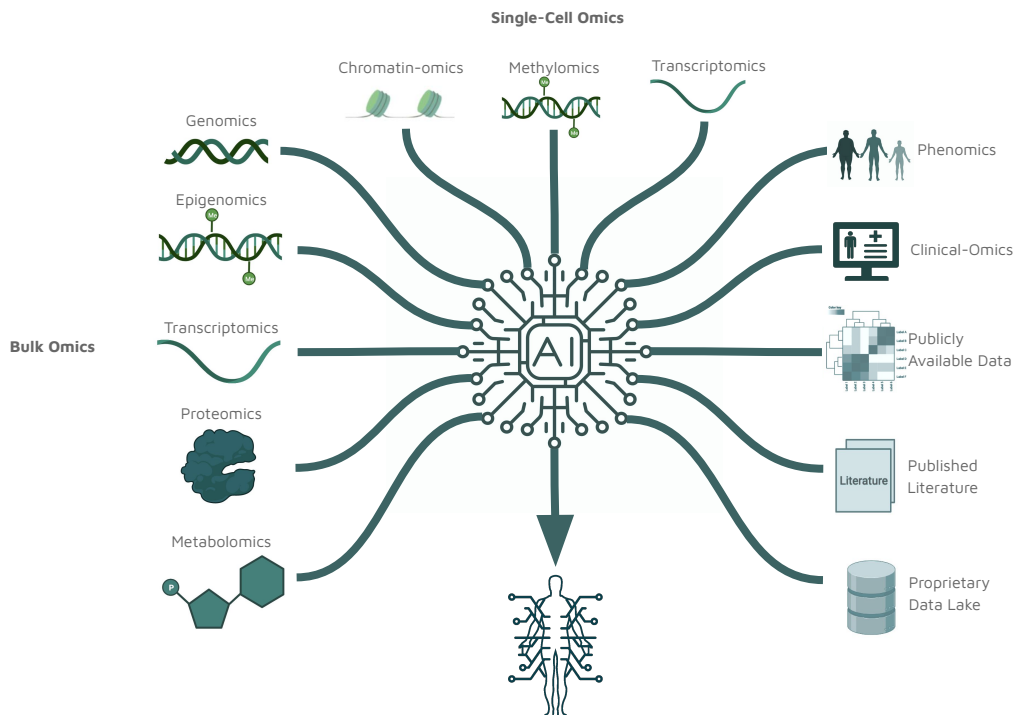
Based on total market size estimates for 2022 and 2030

*Typical SaaS contracts in this domain go from anywhere between \$100K to \$1 million

Competitive Landscape



Differentiators



Insights into potential targets, compounds for targets, repurposed drugs, biomarkers and clinical outcomes using our proprietary AI enabled platform

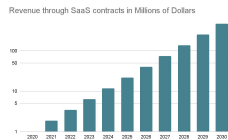
- 1. Holistic Drug Discovery**
Integrating knowledge from traditional medicine to omics datasets to smarter clinical trials with the goal to discover novel, first-class therapeutics cheaper and faster
- 2. Multi-Granular Integration**
Integrating data all the way from Whole Body down to Single Cells in one platform
- 3. Proprietary AI Algorithms**
Built by experts, tested by drug discovery stalwarts
- 4. Proprietary Data**
Agglomerated data from 1000s of experiments and studies to find novel insights

Revenue Plan - Three Pronged Approach



For profit SaaS contracts with Big Pharma and CROs

- Annual contracts worth \$100K-1M
- High security platform with options of local deployment at an extra charge
- Expect doubling of revenue year on year through this source
- Expected to hit ARR of \$450M by 2030



Free offering for academia and start-ups up to 3 analysis per year

- Pay per analysis after first 3 analyses in a year priced at \$1000 per analysis
- No local deployment available. Data uploaded will be used for improving tools and building proprietary data lake
- Small source of revenue but huge source for generating buzz and testing as well as improving the platform



Contracts for using Proprietary Data Lake

- Expected launch by 2024
- Will be offered to pharma and academia at a premium cost to integrate into their current platform or use independently
- Pricing around this is yet to be determined based on value created

Team- 50 years of combined biomedical expertise



Aarthi Venkat
PhD Student
Computational Biology

Dennis Shung
MD-PhD
Department of Medicine

Manik Kuchroo
MD-PhD Student in
Neuroscience & Comp. Bio.

Raghav Sehgal
PhD Student
Computational Biology

Smita Krishnaswamy
Associate Professor
Comp. Sci. Department

Comp. Bio. & Software Expert

Clinical Informatics Expert

Omics Informatics Expert

Product and Business Expert

ML and AI Expert

Experience working at
Google Brain

Director of Digital Health,
Yale School of Medicine

Past experience working in
Big Pharma Omics analysis

Led product development at
biomedical data science start-up

15 years of exp. building AI
tools for biomedical data

Status - Prototyping and Testing

Drug Discovery



Target Discovery

Discovered CCK as a potential target in pancreatic cancer using single-cell RNAseq.

Published in



Target Validation

Validated metabolic target as well as regulatory relationships in Triple Negative Breast Cancer

Sponsored by



Biomarker Discovery

Discovered and built novel epigenetic biomarker for aging in 9 different biological systems

To be licensed by

ELYSIUM



Drug Repurposing

Built Drug Metabolism Database to find undiscovered and on and off target effects in 500 drugs for the purpose of drug repurposing

Sponsored by



Precision Medicine

Discovered T cell types associated with extended recovery for patients hospitalized for COVID-19 infection

To be published in





What Are We Asking Funding For?

Proof of concept exists, we now want to build a Minimum Viable Product for Academicians to test

Asking \$100K to setup Software Dev team

- 1 Senior Software engineer - 1 x \$25K
- 3 Junior Software engineers - 3 x \$15K
- 1 Designer - 1 x \$15K
- Equipment, computing resources and miscellaneous - 15K

We plan on building the product out of South Asia given our Asian connections as well as abundance of economical tech workforce

At this point we wish to test and sell the product through our own network