

Writing the Future

Legal Disclaimers

This presentation contains forward-looking statements. All statements other than statements of historical facts contained herein are forward-looking statements reflecting the current beliefs and expectations of management made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to, annual financial guidance for fiscal 2024, statements regarding Twist Bioscience's path to profitability, future growth, expansion, market share gains and Twist Bioscience's other expectations regarding its future operations plans and financial performance, timing of end to end workflow for DNA data storage, introduction of new products, and newly announced partnerships. Forward-looking statements involve known and unknown risks, uncertainties, and other important factors that may cause Twist Bioscience's actual results, performance, or achievements to be materially different from any future results, performance, or achievements expressed or implied by the forward-looking statements. Such risks and uncertainties include, among others, the risks and uncertainties relating to COVID-19; the ability to attract new customers and retain and grow sales from existing customers; risks and uncertainties of rapidly changing technologies and extensive competition in synthetic biology that could make the products Twist Bioscience is developing obsolete or non-competitive; uncertainties of the retention of significant customers; the ability of Twist Bioscience to successfully integrate acquired companies and to achieve expected benefits from acquisitions; supply chain and other disruptions; risks of third party claims alleging infringement of patents and proprietary rights or seeking to invalidate Twist Bioscience's patents or proprietary rights; and the risk that Twist Bioscience's proprietary rights may be insufficient to protect its technologies. For a description of the risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to Twist Bioscience's business in general, see Twist Bioscience's risk factors set forth in Twist Bioscience's Annual Report on Form 10-K filed with the SEC on November 21, 2023 and subsequent filings with the SEC. Any forward-looking statements contained in this presentation speak only as of the date hereof, and Twist Bioscience specifically disclaims any obligation to update any forward-looking statement, whether as a result of new information, future events or otherwise.

Scalable, Profitable Growth

Defined path to profitability

New products, growth for margin expansion

Consistent operational excellence

Strong commercial execution in growing markets

Continued revenue and market share growth

Twist Today



PROTEINS

DNA

RNA

One chip

Unprecedented scale, many opportunities for cost efficient expansion

MORE

MORE

Products

Applications

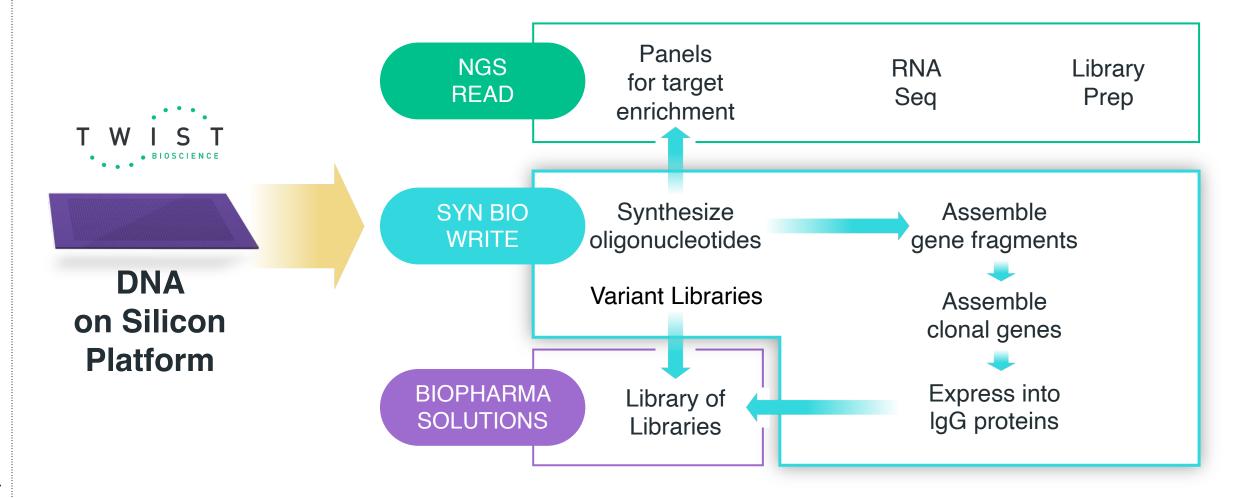
MORE

Customers

MORE

Markets

Interconnected Product Groups Leverage the Same Chip



A Differentiated and Innovative Business

Compelling BUSINESS MODEL

- Low variable costs enable rapid margins ramp
- High fixed costs deter new entrants into market

Exceptional USER EXPERIENCE

- Integrated eCommerce platform
- Fast and easy ordering, high NPS

Scalable INFRASTRUCTURE

- Delivering >280,000 genes per month + RNA, Protein
- Expanding through additional products

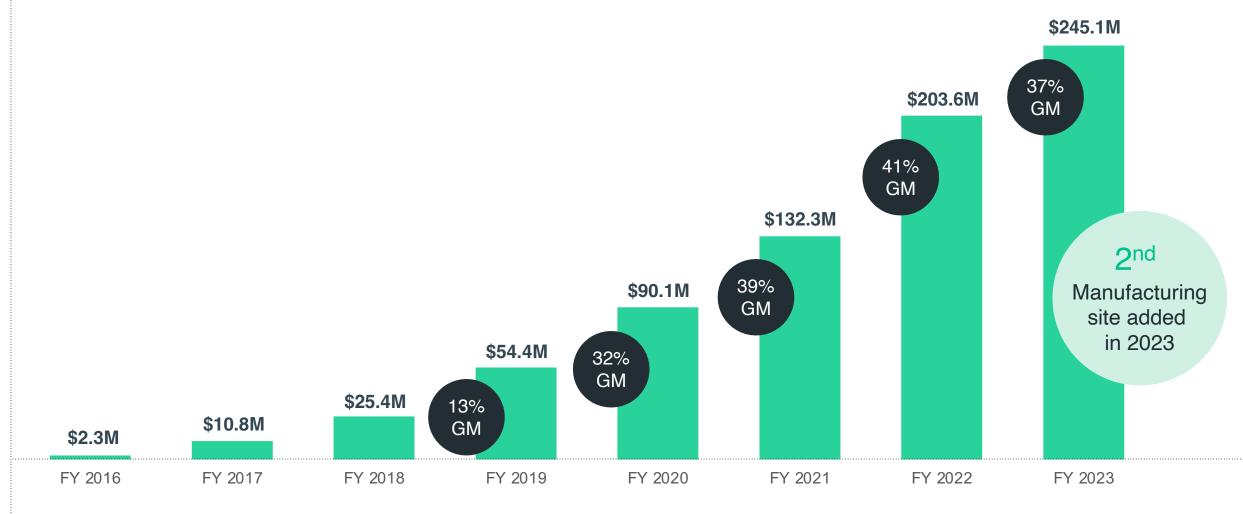
Powerful **PRODUCTION**

- 16 million+ oligo/day capacity
- Up to 10,000x greater scale and throughput than 96 well plate-based approach

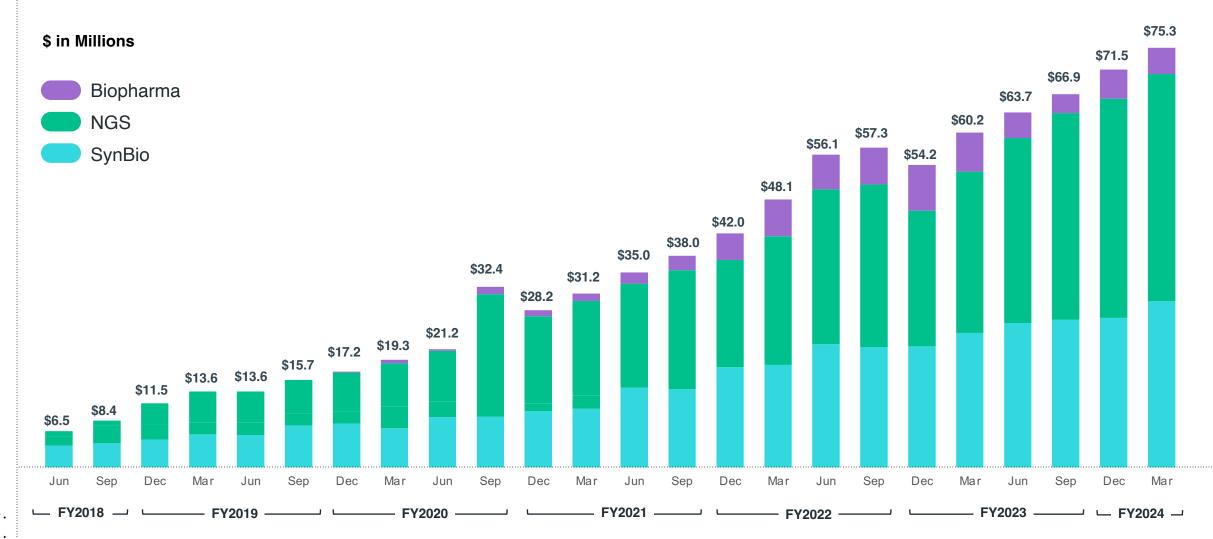
Proven Silicon PLATFORM

- 10+ years of development, increasingly complementary product lines
- Proprietary DNA writer, software

Strong Annual Revenue Growth and Gross Margin



Strong Quarterly Revenue Growth



Clear Path to Profitability Across Product Groups

Life Sciences Tools

Applied Markets





Large End Markets



Pharma



Agriculture



Biotech



Academic labs



Industrial chemicals

Diverse Applications

- Target discovery and validation
- Antigen production
- Antibody discovery, screening and production
- Enzyme, protein, and cellular engineering
- Protein expression
- CRISPR applications



DNA on Silicon Platform

Why We Win

SPEED

Cost

Scale

Quality

Customer experience

Innovative products and solutions

Frictionless ecommerce

Next Up

- ✓ Factory of the Future launch
- **✓** FoF-enabled new product introduction
- ✓ Express Genes
- √ 500bp oligo synthesis

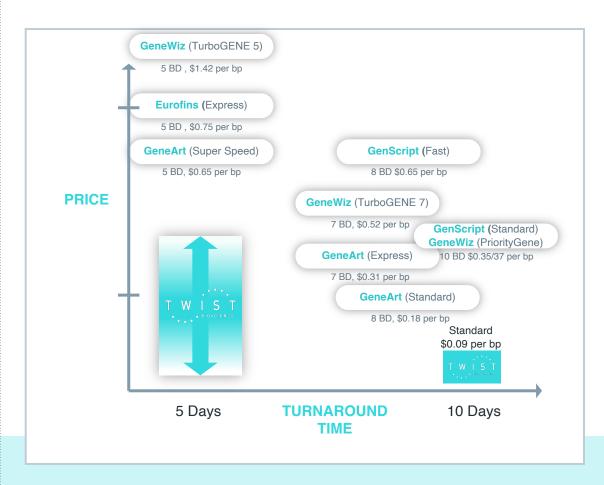
Additional Express products

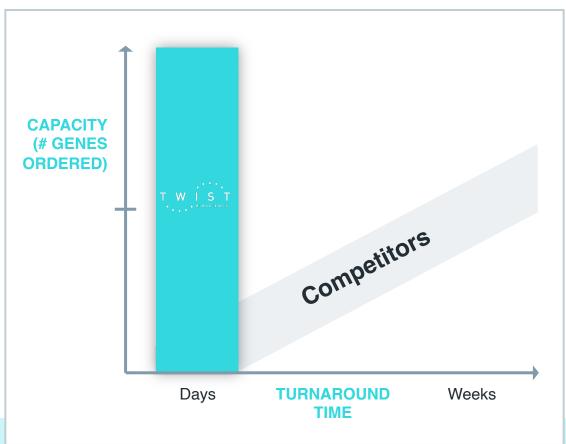
RNA

GMP



We Have Significant Speed, Price, and Scale Advantages





Express Genes: Fast Turnaround Time AT SCALE

Fast turnaround time at scale makes Fast the New Standard

Expanding Family of Products With Many Use Cases in Massive Markets

- FIITURE -

						/ FUTURE
	Fragments	Clonal	Express Clonal	Express MidiPrep	Express MaxiPrep	Express IgG
SPEED	3+ days	10-11 days	5-7 days	8-12 days	8-12 days	TBD
QUALITY	Highest			Perfect		
PRICING	\$0.07 per base pair	\$0.09 per base pair		Premiu	um Pricing	

Express Genes: Fast Genes at Scale

A higher margin, full-featured product that we expect to take market share

Limited launch November 2023, full launch early 2024

We're Able to Produce Genes Much More Efficiently

- 99.8% REDUCTION*
 in reagent volume
- LESS carbon emitted





I TWIST BIOSCIENCE | PROPRIETARY and CONFIDENTIAL

Large End Markets



Diagnostics



Basic and translational research



AgBio

Diverse Applications

- Liquid biopsy
- Clinical, population, and cognitive genomics
- Oncology research
- Minimal residual disease

- Rare disease
- HTP single cell analysis
- Variant detection
- Biomarker identification
- Trait selection

Innovative Products

Fixed panels
Custom panels
Alliance panels





Library prep kits

Reagents

Controls and standards



Why We Win

Quality

Uniformity

Lower sequencing cost

Rapid customization

Fast throughput

Sequencer agnostic

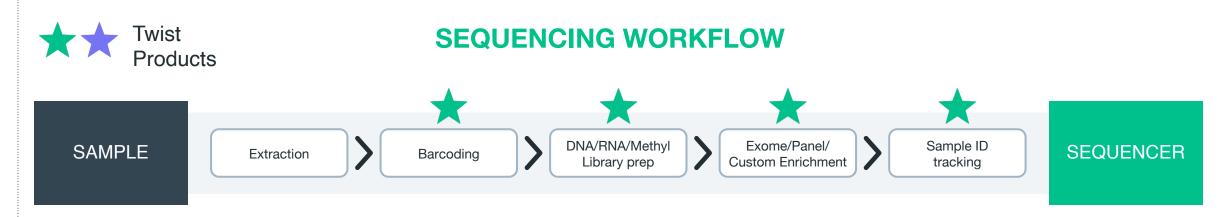
Next Up

- ✓ RNA sequencing workflow
- ✓ Liquid biopsy growth (ongoing)
- ✓ MRD growth (ongoing)
- ✓ Regulated products
- ✓ Advanced library prep

SNP microarray conversion



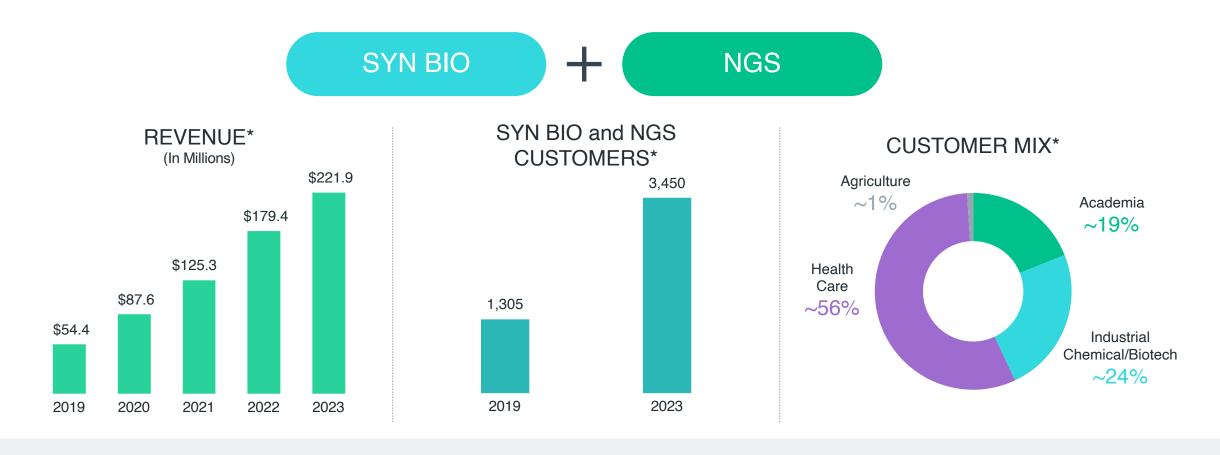
We Sell Products Across Multiple Spectrums



PROGRESSION OF DISEASE



Diversified and Resilient Life Sciences Product Portfolio





Seamless eCommerce portal and express gene offering position us to efficiently pursue long tail customers

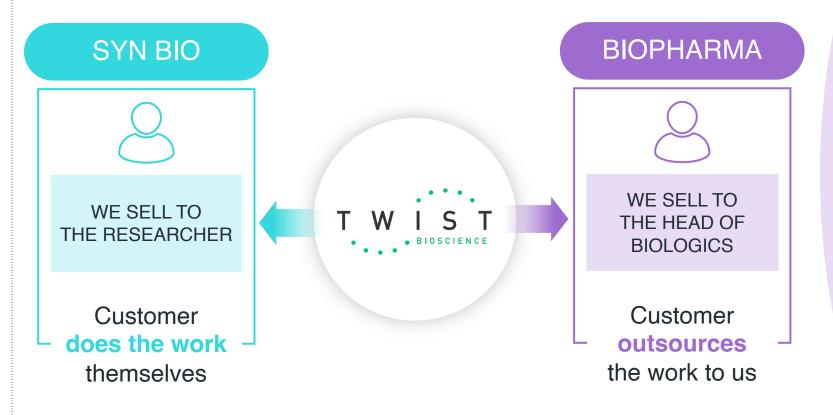
Only One-Stop-Shop with Multiple Antibody Discovery Platforms

Al Discovery Significant Al and DEEP **LEARNING CAPABILITIES** Small CRO Large CRO Limited **Animal Discovery &** Old School Single Cell Analysis In Vitro in vitro or in vivo in vitro and in vivo **OFFERING**

Why We Win

- ✓ Integrated offering
- ✓ In vitro discovery and optimization
- ✓ In vivo discovery and screening
- ✓ In silico lead optimization, humanization, lead picking
- ✓ Advancement with AI and ML

Biopharma Solutions Expands Our Strategic Reach



Synergies with SYN BIO

Shared Customer Base

Vast majority of our largest SYN BIO customers are in drug discovery

Sticky Relationships

Partner with pharma at different stages of their discovery journey

Scale Customization

More capacity for making mutants; drives the make-test cycle



Our Products and Services Accelerate Progress in Human Health

	Target Identification	Target Validation	Drug Discovery	Drug Development	Disease Monitoring
GENES					
OLIGO POOLS					
LIBRARIES					
NGS					
BIOPHARMA					

Broad opportunities also exist in industrial chemical, ag bio, and academia



We're Reinventing Archive Storage















GOVERNMENT

MEDIA / ENTERTAINMENT PRESERVATION (CULTURAL HERITAGE)

OO O1 10 11

DNA 816293

OO O1 10 11

A CAGCTATAGGC

DNA

DNA

DNA

DNA

DNA

DATA STORAGE

A C G T

Many Use Cases in Massive Markets

Deep archive



Enterprise archive



"Computational cold storage"

Century Archive Solution

Valuable Optionality at Multiple Time Points

Internal Development

External Investment

Strategic Partner

A Powerful and Unique Value Proposition

DENSITY

Solutions scaling from data lakes to data oceans

LONGEVITY

Enabling century and millennium scale archive storage

IMMUTABILITY

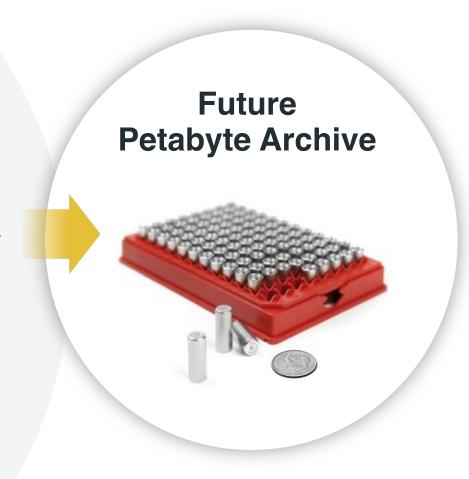
Stable format – storage medium is pool of DNA molecules – always able to read DNA

SUSTAINABILITY

Lowest carbon footprint amongst all storage media

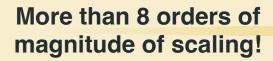
STORE and COMPUTE

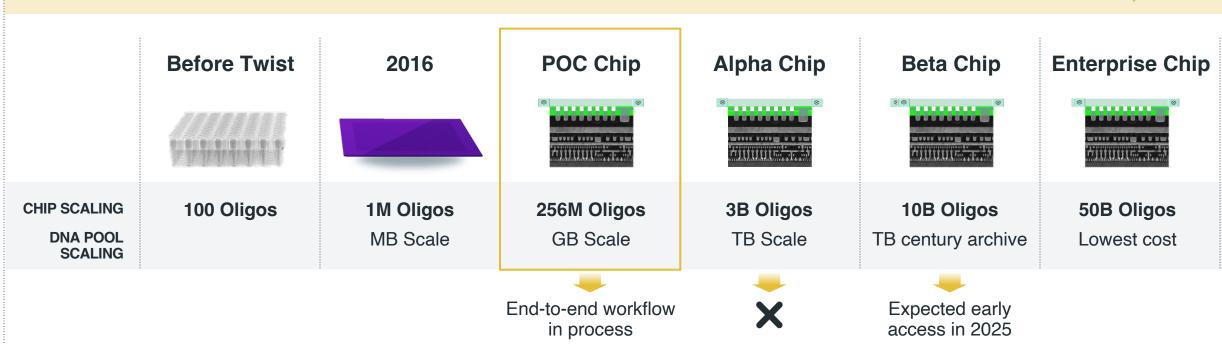
Biotechnology tools enabling computing on massive data sets



On Track to Advance Our Commercial Solution

We're moving from writing DNA at megabyte to gigabyte to terabyte level





Laying Groundwork for Revenue and Gross Margin Expansion in FY2024

SYN BIO WRITE

- New opportunities in Maker's Market with Express Genes
- Grow market share
- New product introductions building on Express Genes

NGS READ

- Sequencer agnostic
- Large and growing market opportunities
- Continued expansion of customers and revenue in MRD and liquid biopsy, RNASeq
- Launch new products to gain market share

3 BIOPHARMA SOLUTIONS

- Continue to enter into discovery and optimization projects
- Enter into discussions for antibody out licensing

DATA STORAGE

- Demonstrate end-to-end Gb Century Archive workflow
- Early access of Terabyte Century Archive solution in 2025

Managing Cash Burn

	Q3 FY2024 Guidance*	Q4 FY2024 Guidance*	FY2024 Guidance*
Revenue	~\$77M ~\$31M SynBio ~\$41M NGS ~\$5M Biopharma	\$77-80M	\$300-304M \$118-120M SynBio \$162-164M NGS ~\$20M Biopharma
GM	41-42%	43-44%	~41.5-42%
Operating Loss Before Taxes			\$183-188M
СарЕх			~\$15M
YE Cash Balance**			>\$245M



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Defined path to profitability

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Large, Growing Markets



Scalable Infrastructure



Differentiated Products



Sustainable Production





Writing the Future