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T W I S T BIOSCIENCE

Writing the Future

FEBRUARY 2022

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Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained herein are forwardlooking statements reflecting the current beliefs and expectations of management and include statements regarding, among other things, future financial performance, expectations and objectives of management, market opportunity and growth, anticipated growth of business lines and the timing for such growth, the development and commercialization of Twist Bioscience's data storage business. Such forwardlooking 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 of the duration, extent and impact of the COVID-19 pandemic, including any reductions in demand for our products (or deferred or canceled orders) globally or in certain regions; 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 could make the products Twist Bioscience is developing obsolete or non-competitive; the retention of employees of acquired companies and the ability of Twist Bioscience to successfully integrate acquired companies and to achieve expected benefits; supply chain and other disruptions caused by the COVID-19 pandemic or otherwise; 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 further 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 the risk factors and other risks set forth in Twist Bioscience's Annual Report on Form 10-K filed with the Securities and Exchange Commission (SEC) on November 23, 2021 and subsequent filings with the SEC. In addition, many of the foregoing risks and uncertainties are, and could be, exacerbated by the COVID-19 pandemic and any worsening of global or regional business and economic environment as a result. We cannot at this time predict the extent of the impact of the COVID-19 pandemic and any resulting business or economic impact, but it could have a material adverse effect on our business, financial condition, results of operations and cash flows. 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.

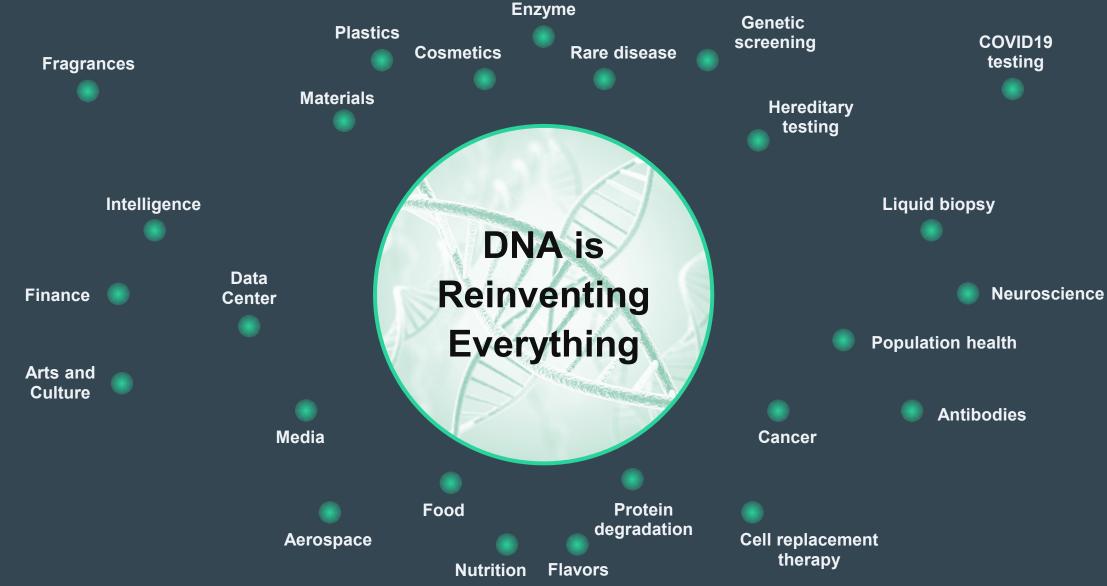
Writing the Future one DNA strand at a time

Our Vision

How We Execute

Investing for the Future

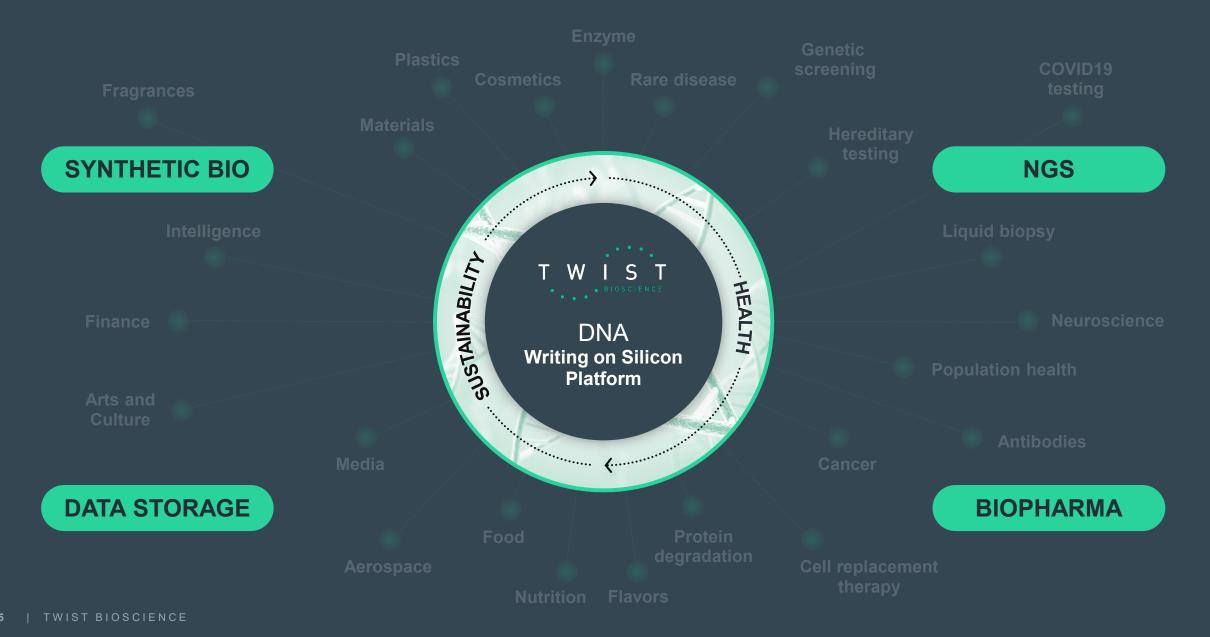
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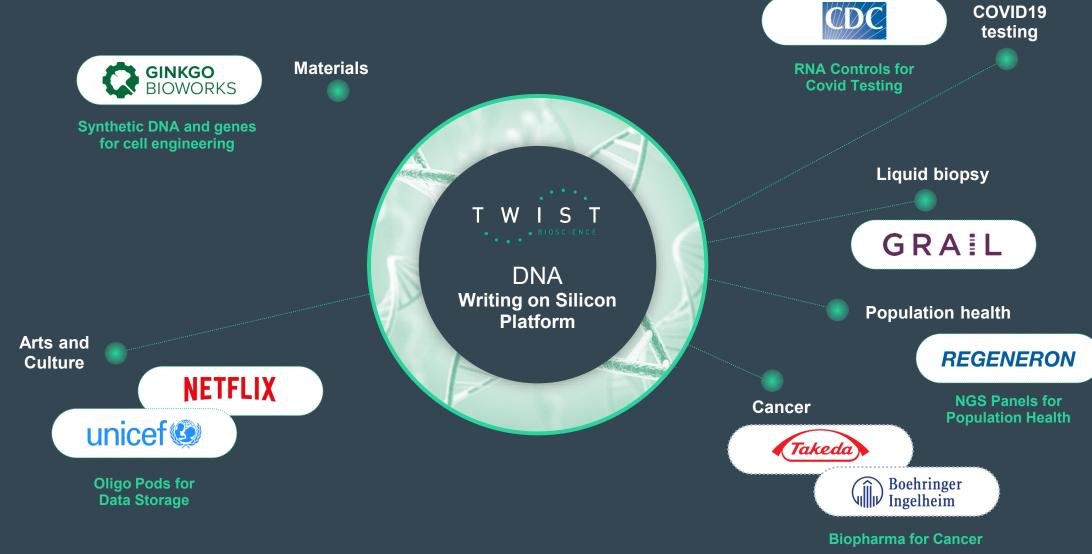
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We Are the Infrastructure Powering the Biodiscovery Ecosystem

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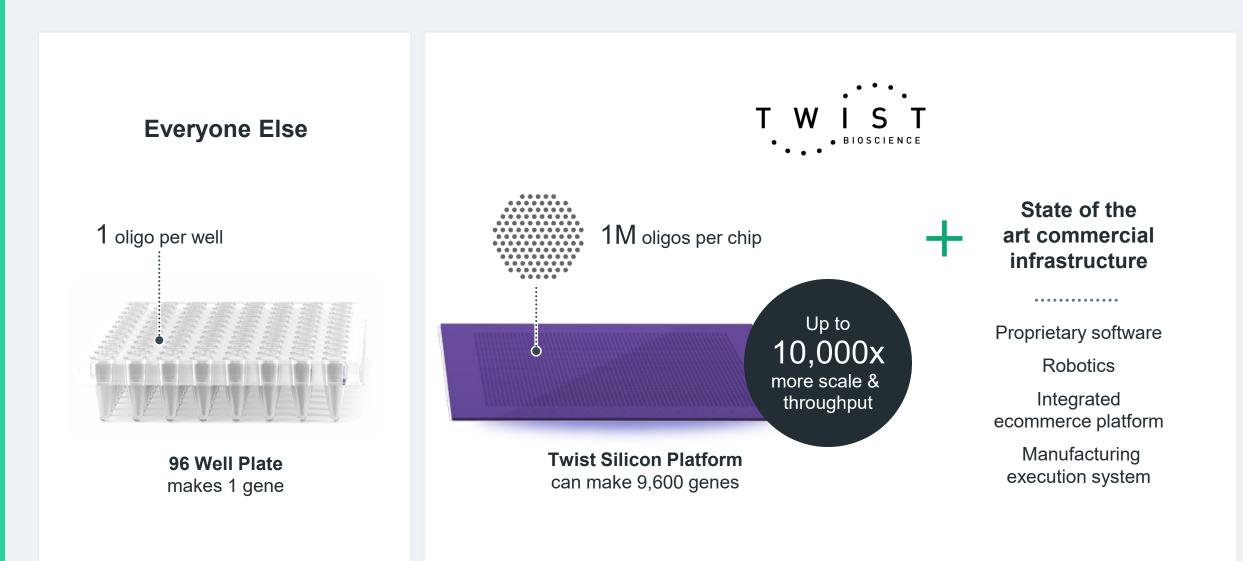


Empowering Groundbreaking Science



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Twist DNA Writing on Silicon Platform



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Innovative Leadership

Industrialize synthetic DNA production **Deliver billions** of base pairs to date Reduce **environmental impact** by 99.8% Implement **biosecurity controls** and privacy Generate synthetic DNA for multiple markets Apply DNA at scale for **antibody discovery** Demonstrate DNA data storage proof of concept



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We Lead with Innovation

Our Vision

How we Execute

Investing for the Future

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Since IPO we have successfully

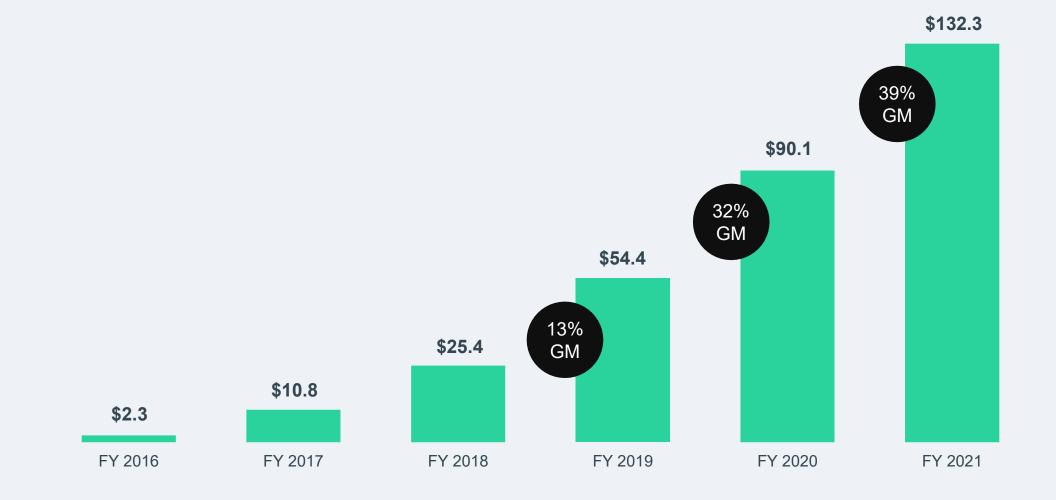
Ramped up NGS revenue

Expanded margins

Created a name in Biopharma

Achieved POC DNA Storage

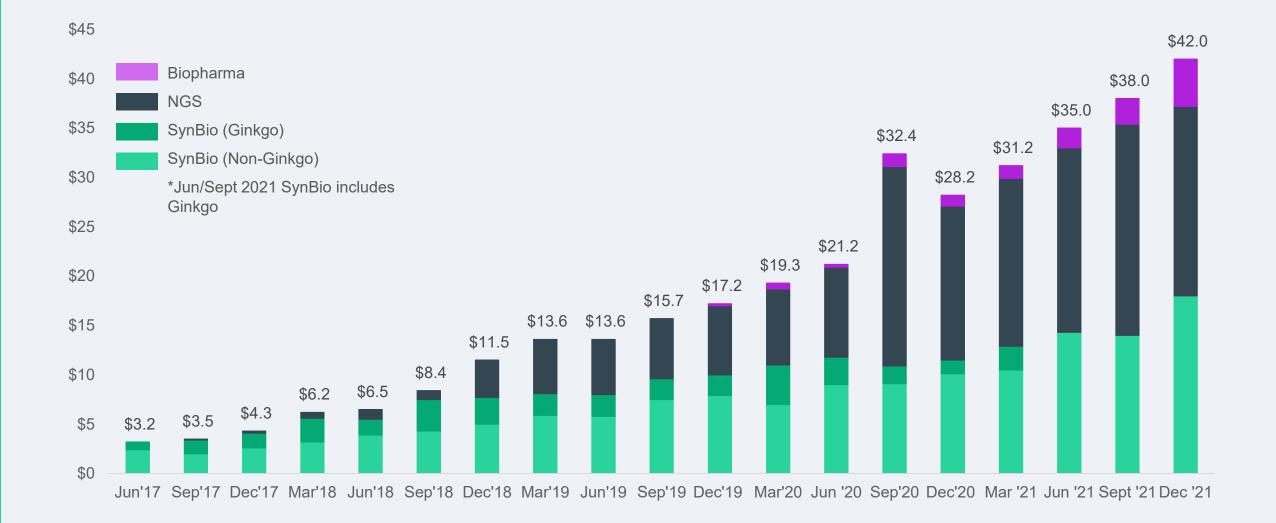
Strong Annual Revenue Growth and Increasing Gross Margin



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Strong Quarterly Revenue Growth



Core Business Growth: SynBio and NGS

YoY Growth % 32% 69% 2900 2200 82% • 151% 1305 195% 717 286 97 2016 2017 2018 2019 2020 2021 **FISCAL YEAR**

Customers

Biopharma NGS SynBio 36% \$160M 67% \$117M 79% 117% \$70M 500% \$39M \$18M \$3M 2016 2017 2018 2019 2020 2021 **FISCAL YEAR**

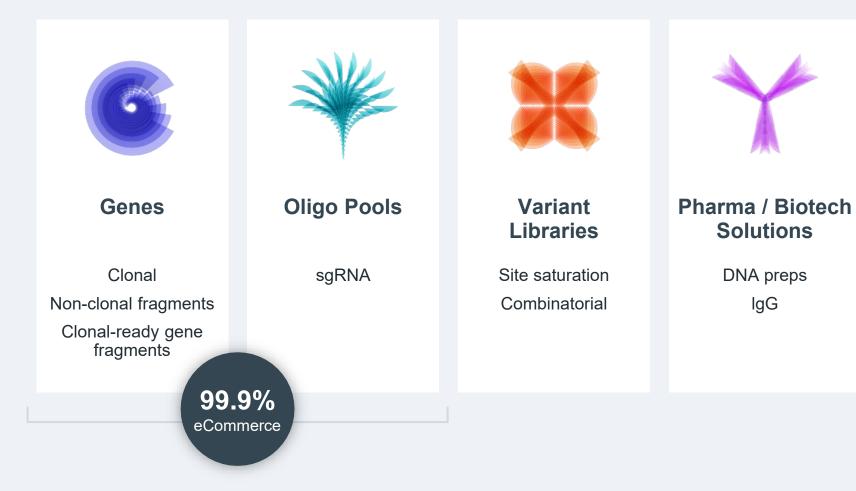
Orders

FY Ends September 30

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1. SynBio | Foundational and Differentiated

Twist offers a wide variety of synbio products



Why we win

- Cost
- Scale
- Quality
- Customer experience
- Innovative products and solutions

2. NGS | Accelerating Diagnostic Innovation

- Human Core Exome
- Fixed Panels
- Custom Panels
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Library Preparation



Reagents and Kits



Synthetic Viral Controls



Targeted Methylation



SARS-CoV-2 NGS Assay

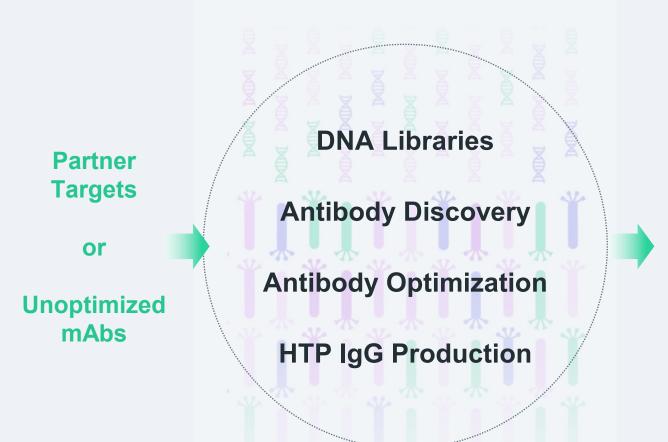
High Value Applications

- Liquid biopsy/MRD
- Rare disease
- Oncology
- Population genetics
- Infectious diseases

Why we win

- Quality
- Uniformity
- Lower sequencing cost
- Rapid customization
- Fast throughput

3. Biopharma | Disruptive Discovery Engine



Preclinical Ready, Optimized, Fully-Human, High-Affinity Antibodies

Why we win

- Broad "DNA" buffet
- Every sequence always explicitly synthesized
- Automation and miniaturization

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Biopharma Partnerships by the Numbers

Broad

Disease Indications

Cancer, Neurology, Immuno-oncology, Infectious Disease, Canine / Feline, Other

Varied

Modalities

mAbs, Bispecific Antibodies, VHH, ADC, Protein Engineering, More





Abveris Acquisition

Abveris IN VIVO ANTIBODY DISCOVERY SERVICES

Comprehensive antibody discovery using DiversimAb[™] hyperimmune mouse model family

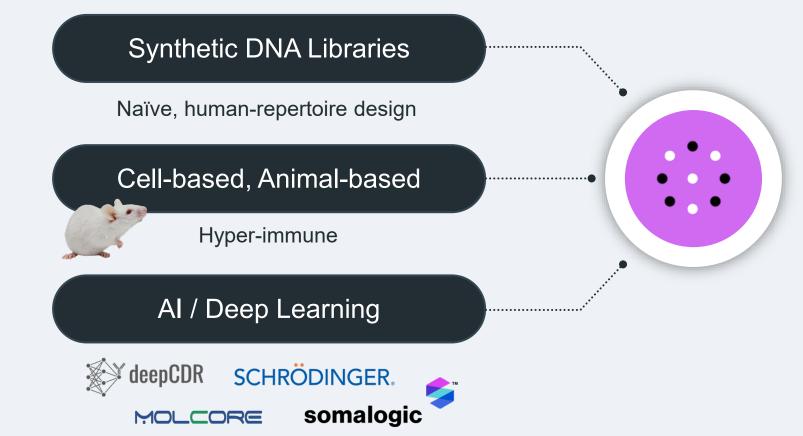
7 antibodies in clinic

90+ customers and experienced workforce

WIST • BIOPHARMA

Complementing our synthetic antibody discovery capabilities

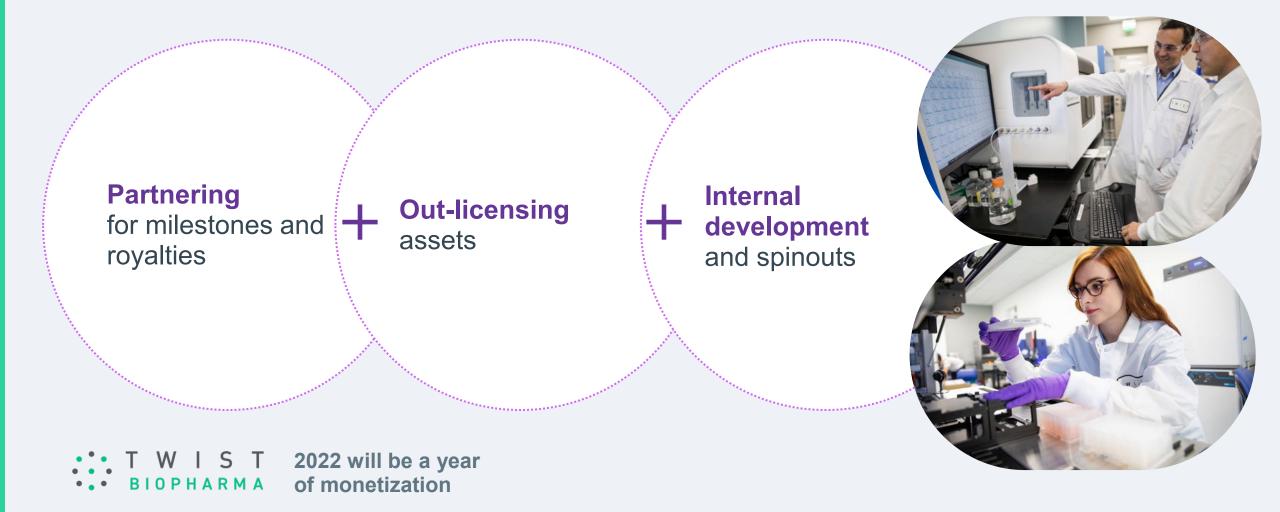
Building a Comprehensive Biopharma Platform



Better discovery Better screening Better candidates

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Biopharma | Becoming its Own Growth Platform





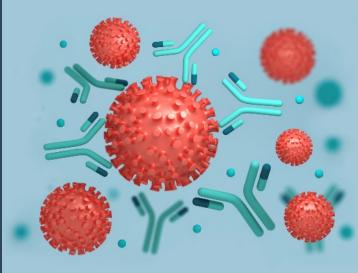
Exciting Biopharma Spinout



- Licensed lead bispecific antibody RBT-0813 to treat COVID-19 and Twist may provide up to \$10M in funding
- RBT-0813 neutralizes Omicron and Delta in live virus studies
- Milestones of up to \$100M and mid-single digit royalties on any commercial sales for COVID-19 program
- Up to 5 additional non-COVID programs with separate milestones, royalties
- First Twist antibody expected in the **clinic in 1HCY2022**

We launched an independent biopharmaceutical company initially focused on infectious diseases

> Spin-off fits our philosophy to minimize biology risk and syndicate development risk for select number of targets



Biopharma | Pipeline of Functional Monoclonal Antibodies

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ADORA2A	Immuno-oncology		
SARS-CoV-2	Infectious Disease		
GLP-1R	Obesity and Diabetes		
GLP-1R	Hypoglycemia and Rare Disease		
CD3	Immuno-oncology		
PD-1	Immuno-oncology		
TIGIT	Immuno-oncology		
CXCR4	Oncology		
Undisclosed	Oncology		
Undisclosed	Oncology		
Undisclosed	Inflammation		

High-value targets in a **broad range** of therapeutic areas

Pre-clinical stage antibodies that bind hard-to-drug targets, like GPCRs

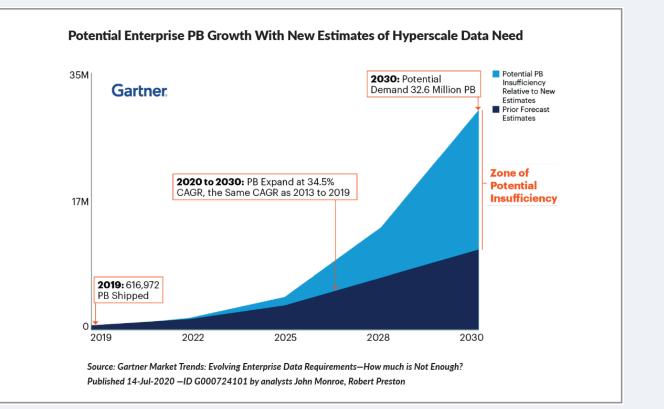
Antibody assets available for **outlicensing**, **partnering**, **or spin out**

... Opportunity to advance compounds in many ways

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4. DNA Data Storage | The Ultimate Answer for Scaling

- Data creation and storage demand continues to grow exponentially; supply won't keep up with demand
- The industry is seeking to discover new storage technologies enabling >100x storage density capability
- DNA Data Storage is the ultimate answer for scaling to address the growing data storage demand



DNA Data Storage is the ideal candidate technology to enable high-density, cost-effective, sustainable, and energy-efficient long-term data storage solutions

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DNA Data Storage | Re-Inventing Archive Storage

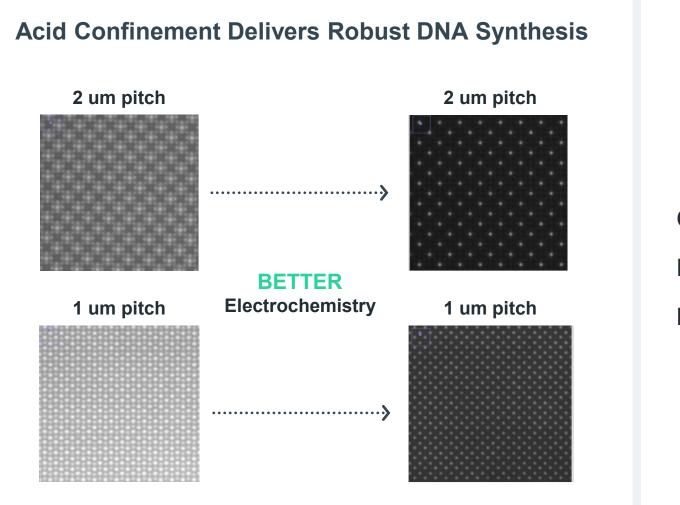


DNA Data Storage is delivering a unique value proposition, initially addressing deep archive to accessible archive use cases to 'Computational Cold Storage'

- <u>Density</u> Solutions scaling from Data Lakes to *Data Oceans*
- <u>Longevity</u> Enabling *century* and *millennium* scale archive storage
- <u>Immutability</u> Stable format *data is medium* – always able to read DNA
- <u>Sustainability</u> Lowest energy storage *carbon footprint* amongst all media
- <u>Store & Compute</u> Biotechnology tools enabling computing on 'Cold Storage'

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Demonstrated High Density Synthesis Enabling GB-class Storage





Optimized geometry of micro wells Reduced error rate Increased capacity

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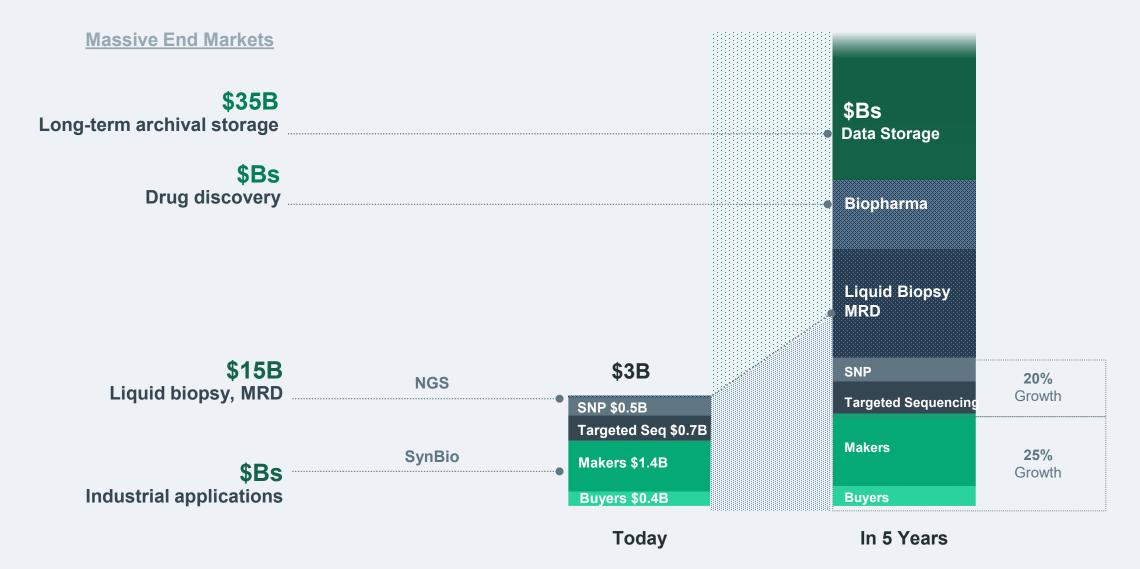
We are preparing in the next wave of growth **Our Vision**

How we Execute

Investing for the Future



Large Growing Market Opportunities





Factory of the Future

Next evolution on platform, launching in 2022

Expect doubling of current capacity

Additional differentiation, including **faster turnaround time for all products**

Opportunity to build Green Factory of the Future



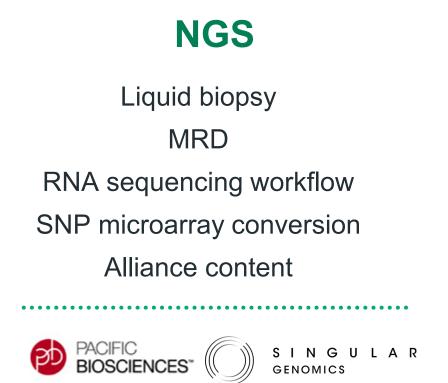




SynBio and NGS | What's Next

SynBio

Factory of the Future IgG proteins GMP Fast DNA RNA FoF-enabled new product introduction



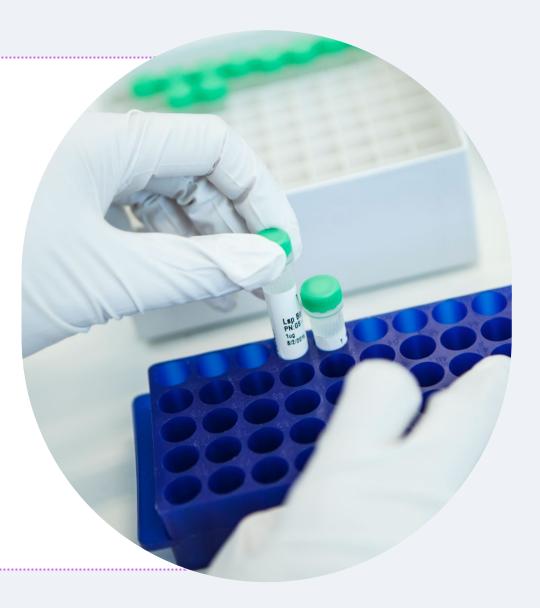
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Bases loaded for future core business growth

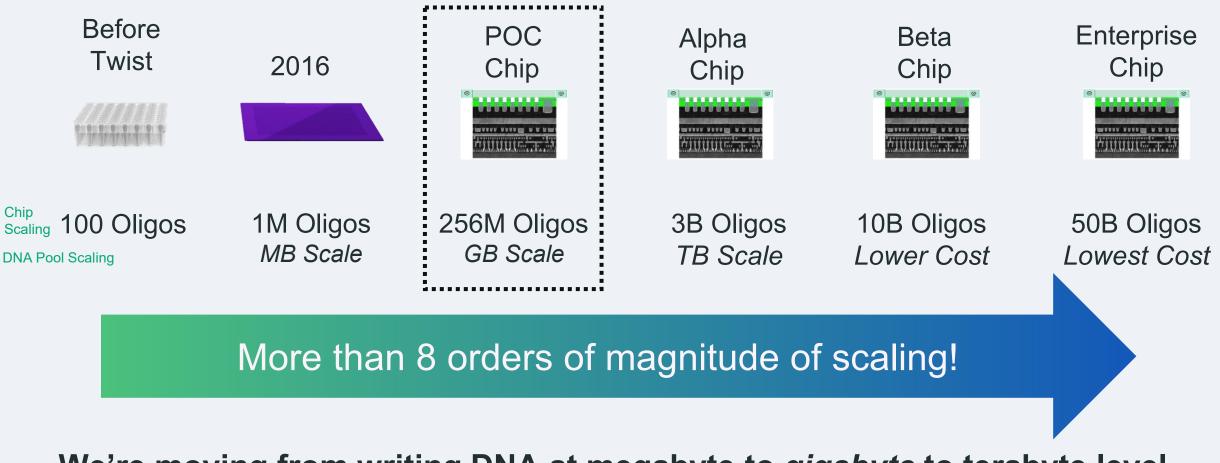


Biopharma | What's Next

- 1st Twist-discovered antibody in clinical trials
- **Abveris** integration
- More partnerships
- More programs
- Increasing milestones, royalties
- Out-license Twist-discovered antibodies
- Internal pipeline advancement



DNA Data Storage - Synthesis Scaling Innovation Roadmap

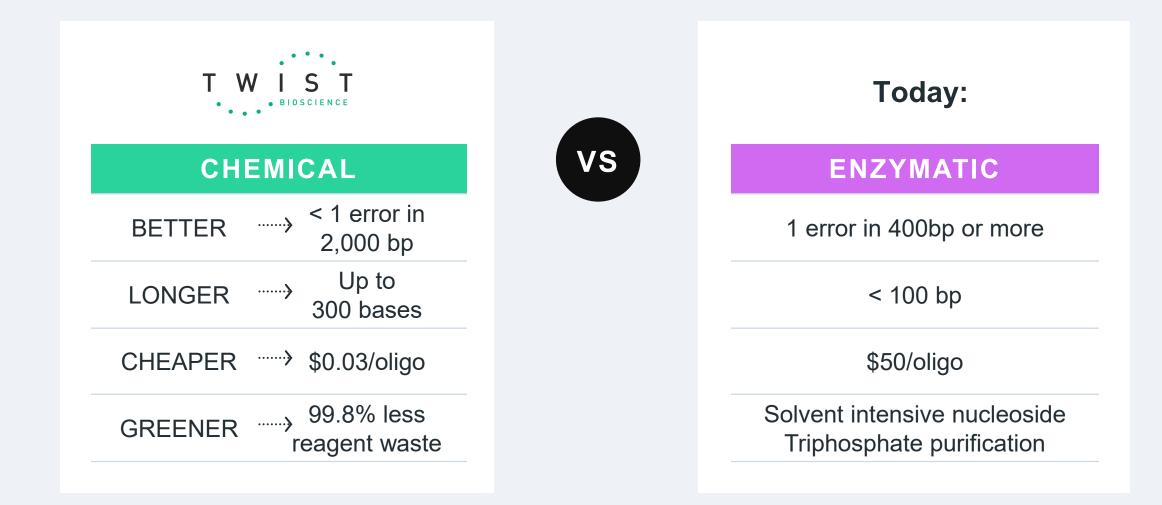


We're moving from writing DNA at megabyte to gigabyte to terabyte level

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Innovation Continues: Writing the Future



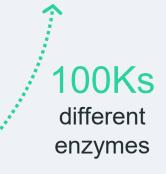
Twist Enzymatic Chemistry 3.0: Superior to Existing Approaches

Low Cost **OTHERS** (1.0) TWIST Nucleoside Triphosphate \mathbf{O} (NTP) \bigcirc 0 C 0 Enzyme Enzyme \bigcirc 0 0 \bigcirc

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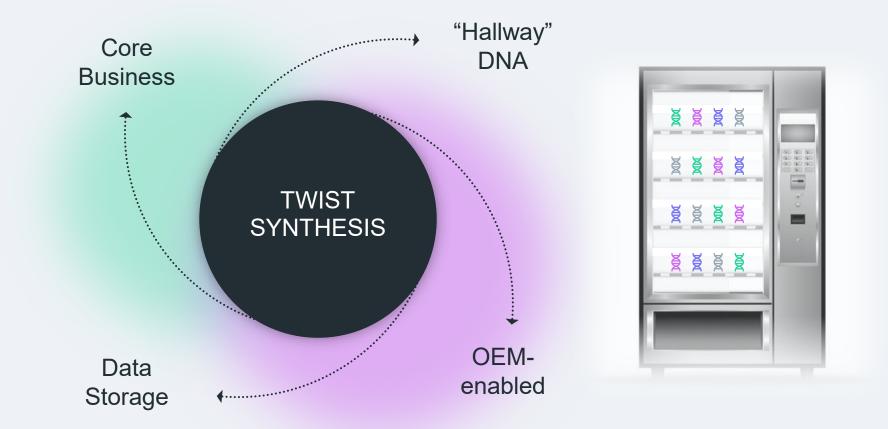


We require significantly less concentration of expensive NTP to synthesize our DNA While other enzyme-NTP linkage techniques leave a scar on the added base, our chemistry leaves our DNA uncompromised **Faster Enzyme Optimization**



Our NGS-based enzyme engineering screening platform increases scale and speed to explore the sequence space

Twist Bioscience Synthesis Creates Growth Optionality



Leading the Industry in all DNA Writing

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Continued Growth Potential



*FY 2022 Guidance



- Track record of execution delivering revenues growth in multiple markets
- Core business has bases loaded for growth
- Biopharma growth in 2022 leveraging integration
- Data storage roadmap to commercial offering
- Continued innovation in capital efficient manner baked into guidance:
 - Enzymatic synthesis that is low cost and scarless



Platform for writing DNA on silicon Large, growing markets **Differentiated** value proposition **Portfolio** of high growth businesses Validated business models High revenue growth

Track record of execution and innovation

Now is the time for Twist C T T C T A A F C A T G A G A T C T A G G A T T C A G C T G C T G G A T C G A T T A T C G T A G G I

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