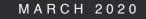


Writing the Future

EMILY LEPROUST, PH.D., CEO and CO-FOUNDER



Legal Disclaimers



This presentation contains forward-looking statements. In particular, statements regarding future economic performance, finances, and expectations and objectives of management constitute forward-looking statements. Forward-looking statements can be identified by the fact that they do not relate strictly to historical facts and generally contain words such as "believes," "expects," "may," "will," "should," "seeks," "approximately," "intends," "plans," "estimates," "anticipates," and other expressions that are predictions of or indicate future events and trends and that do not relate to historical matters. Although the forward-looking statements contained in this presentation are based upon information available at the time the statements are made and reflect management's good faith beliefs, forward-looking statements inherently involve known and unknown risks, uncertainties and other factors, which may cause the actual results, performance or achievements to differ materially from anticipated future results. Important factors that could cause actual results to differ materially from expectations include, among others: the risks and uncertainties of the ability to attract new customers and retain and grow sales from existing customers; risks and uncertainties of the retention of a significant customer. You should not place undue reliance on these forward-looking statements we make. Factors that may cause actual results to differ materially from any future results expressed or implied by any forward-looking statements include the risks described in the "Risk Factors" section of our Annual Report on Form 10-K for the year ended September 30, 2019, and our Quarterly Report on Form 10-Q for the three months ended December 31, 2019, as well as those set forth from time to time in our other SEC filings, available at <u>http://www.sec.gov</u>. The forward-looking statements in this presentation represent our views as of the date of this presentation. We do not undertake to update or revise any forward-looking statements afte

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Neither we nor any other person makes any representation as to the accuracy or completeness of such data or undertakes any obligation to update such data after the date of this presentation. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

By attending or receiving this presentation you acknowledge that you will be solely responsible for your own assessment of the market and our market position and that you will conduct your own analysis and be solely responsible for forming your own view of the potential future performance of our business.

DNA Is Changing the World

Synthetic DNA Is the Future of Everything



CHEMICALS Sustainability

FOOD Food Security THERAPEUTICS Health

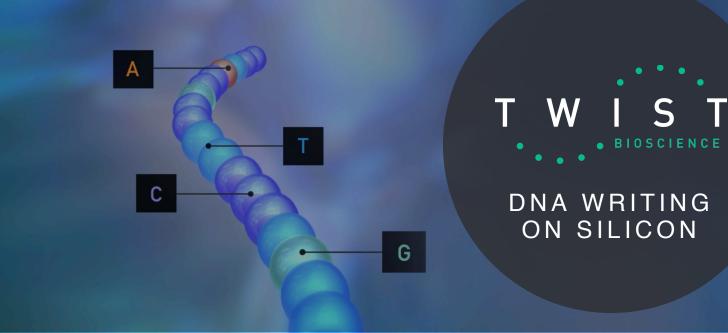
DIAGNOSTICS Precision Medicine DATA STORAGE Preserving Heritage







A A C G C G C A G A C T A B. A A C G C G C A G A C T A B. A T C C G A G C T A G C T A C G A G T A C G A T C G A C T A G C T A C G A G A T T A C T A G C A T C A T C A T C G C T T A C A G C A G C T A T C A T G C G A T C A G C A G C T A T G T C A G C A G T C T A C T A T A T A T A T C A

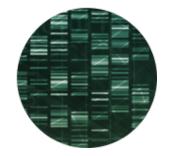


Writing the Future

Our silicon-based DNA synthesis platform is fueling a world of applications



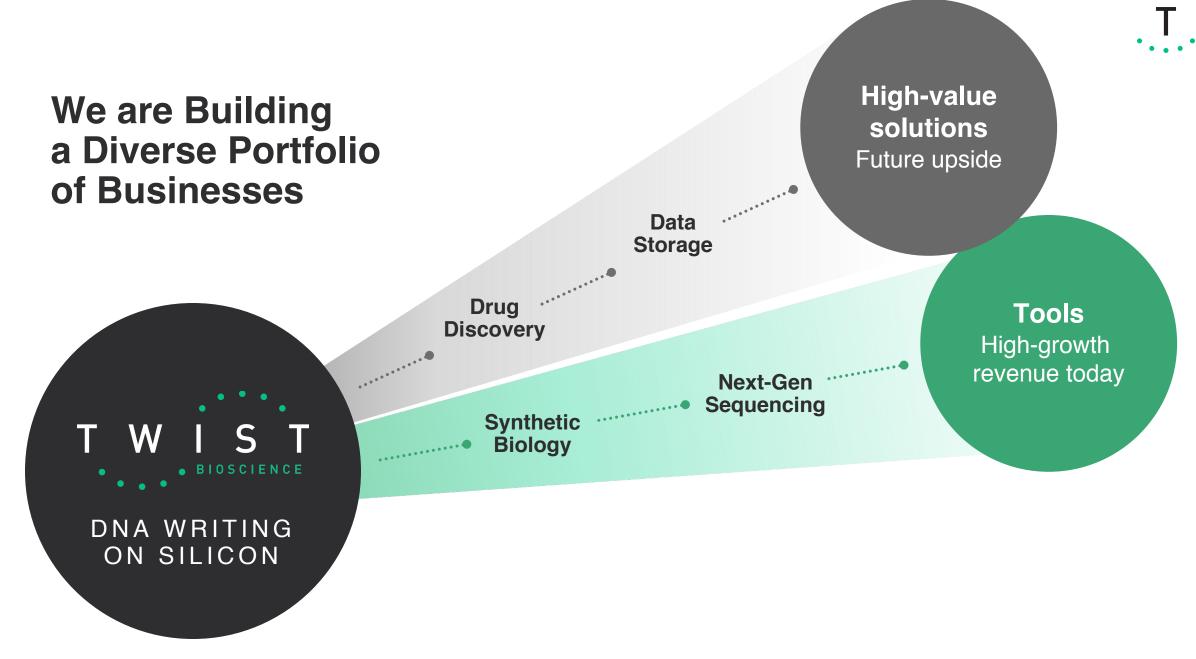
Miniaturization 10³⁻⁶ less volume of required reagents



Throughput 20M oligos/month capacity

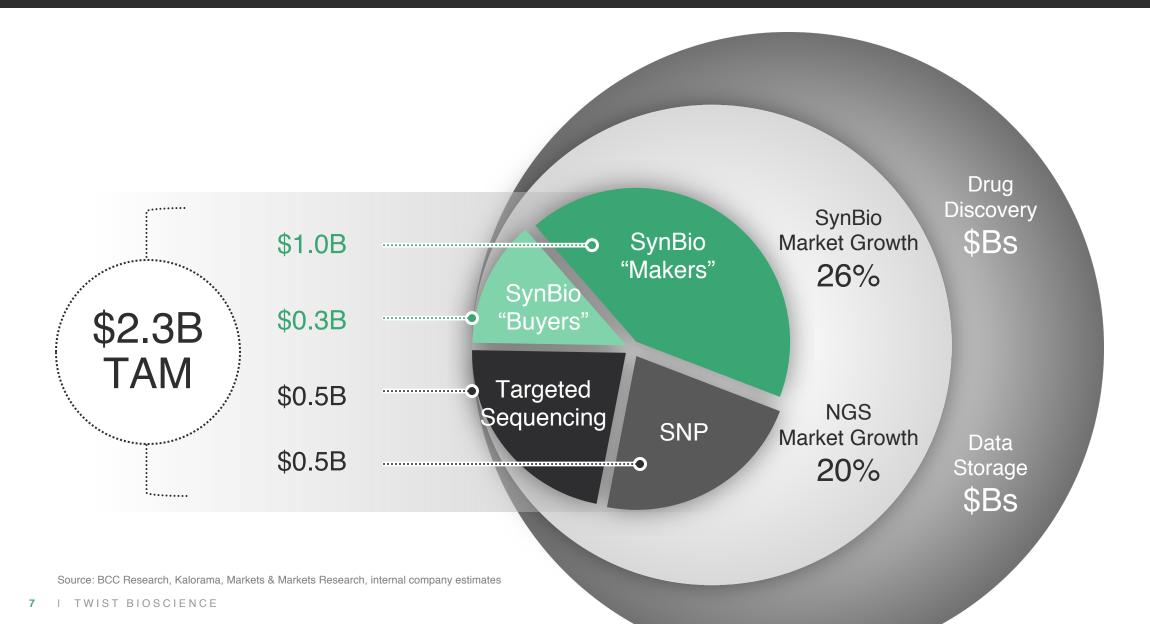


Low cost Driving adoption



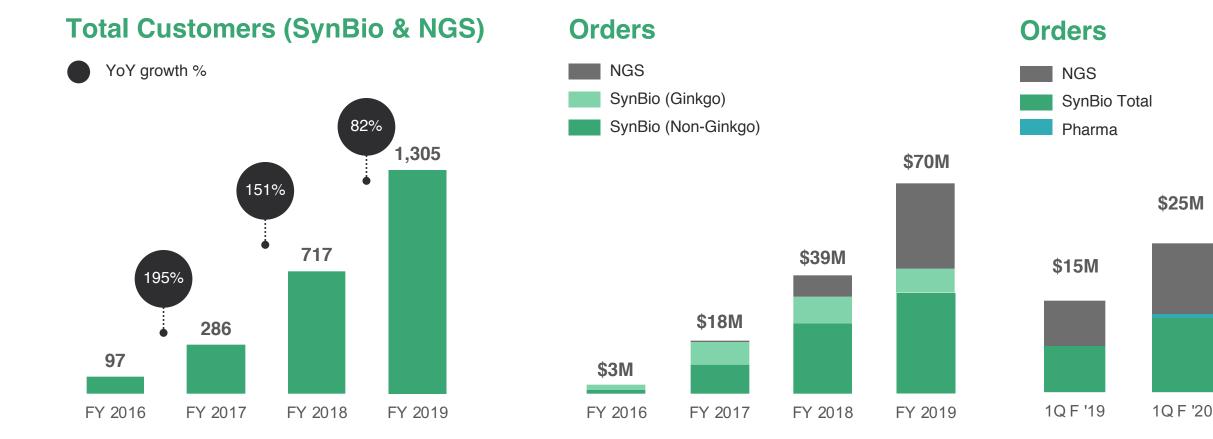
Large and Expanding Addressable Market





Strong Customer and Order Growth



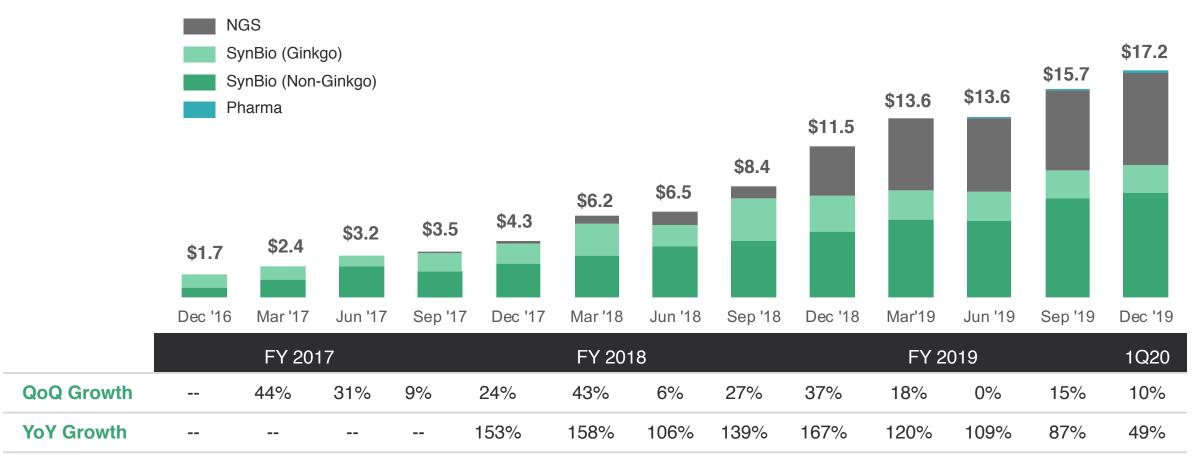


8 I TWIST BIOSCIENCE

Quarterly Revenue Growth

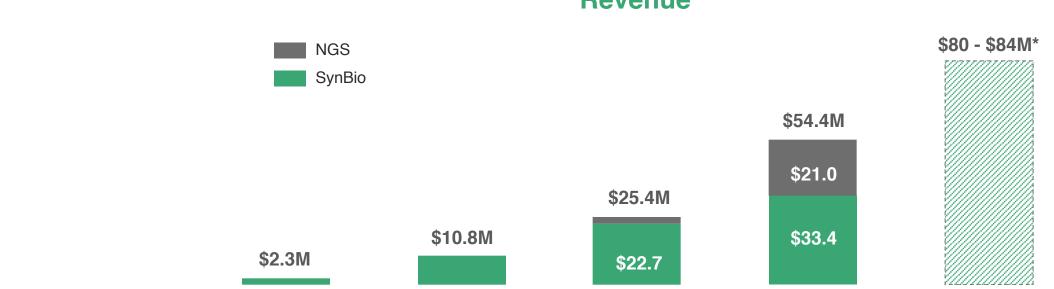


Revenue (\$M)



Strong Revenue Growth and Increasing Gross Margin





Revenue

	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020E*
Gross Profit (\$M)	(\$7.2)	(\$13.3)	(\$6.8)	\$7.0	—
Gross Margin %	(313%)	(123%)	(27%)	13%	32%
Net Operating Loss (\$M)	(\$43.7)	(\$58.5)	(\$70.6)	(\$108.9)	(\$107) - (\$110)

* Guidance provided on February 6, 2020. Net operating loss excludes the \$22.5mm litigation settlement. Net loss (including litigation settlement) expected in the range of \$129.5 to \$132.5 million.

Recent Developments



DRIVERS FOR SUCCESS IN 2020



Litigation Resolved

- · All claims and counterclaims resolved
- · No admission of liability or wrongdoing
- Removes uncertainty and legal fees associated with this prolonged trial



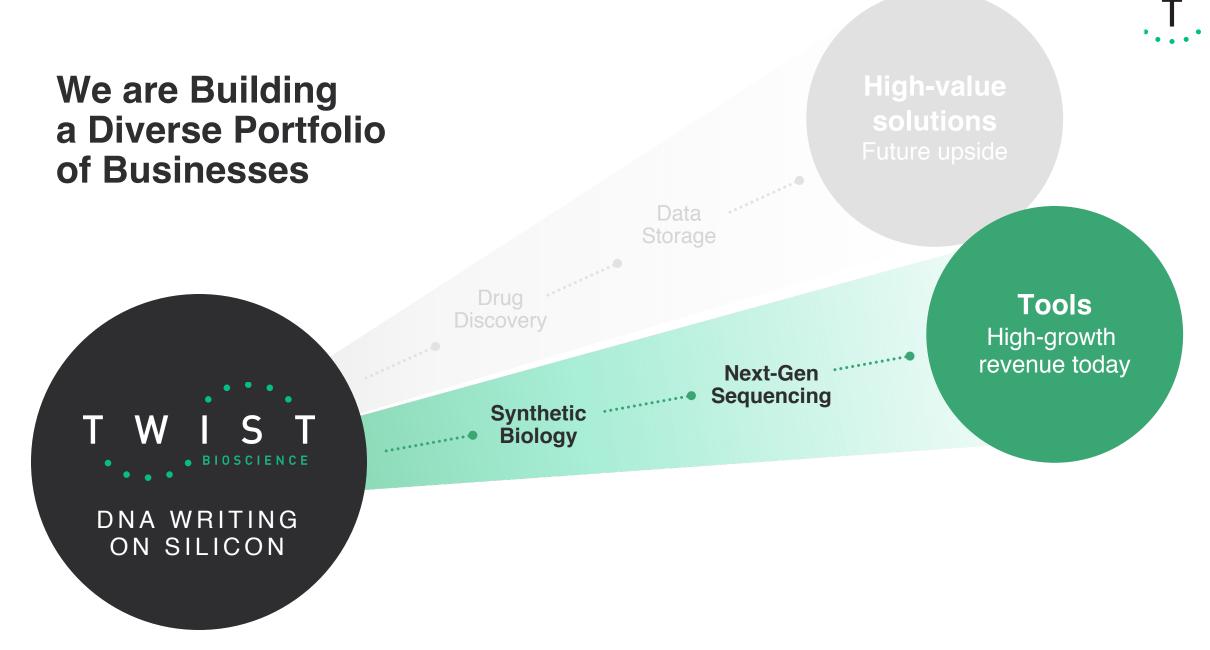
Strong Financial Results and SynBio and NGS drivers

- Revenues of \$17.2M in 1Q20
- Positive gross margin of \$3.4M
- Shipped products to ~1,000 customers
- Fiscal 2020 revenue: Expected \$80M to \$84M
- SynBio: Continued diversification, new products and enhanced ecommerce
- NGS: Continued pilot, SNP conversion, products for liquid biopsy and oncology



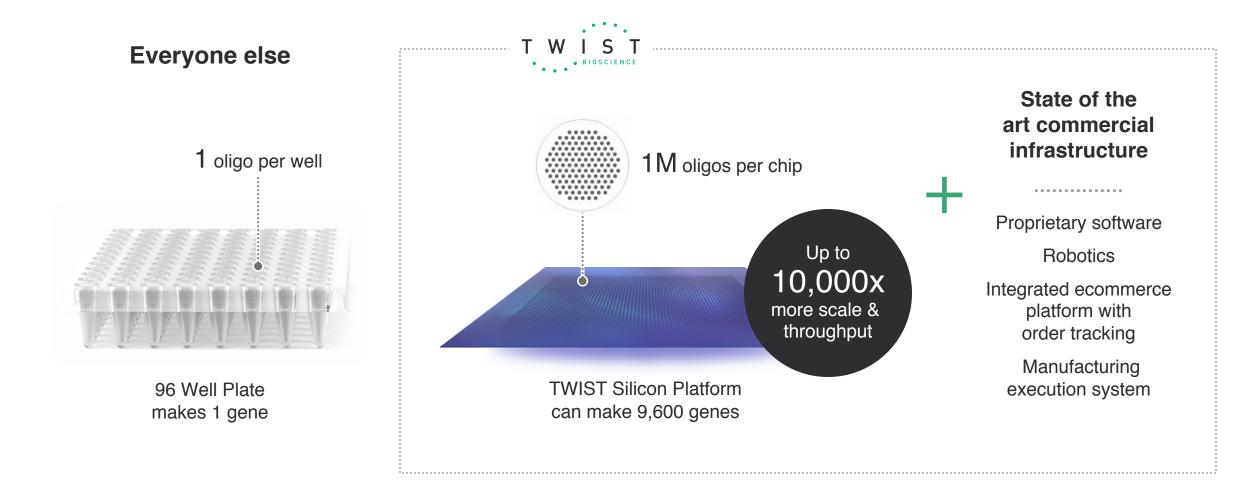
Progress in Data Storage & Pharma Verticals

- Selected as DNA synthesis provider under IARPA
 - > May receive up to \$9.5M in funding
 - Additional \$5.5M designated to bolster
 DNA synthesis through new chip design,
 commercial implementation at Twist
- Signed first biopharma collaboration of 2020 with Schrödinger, Inc.



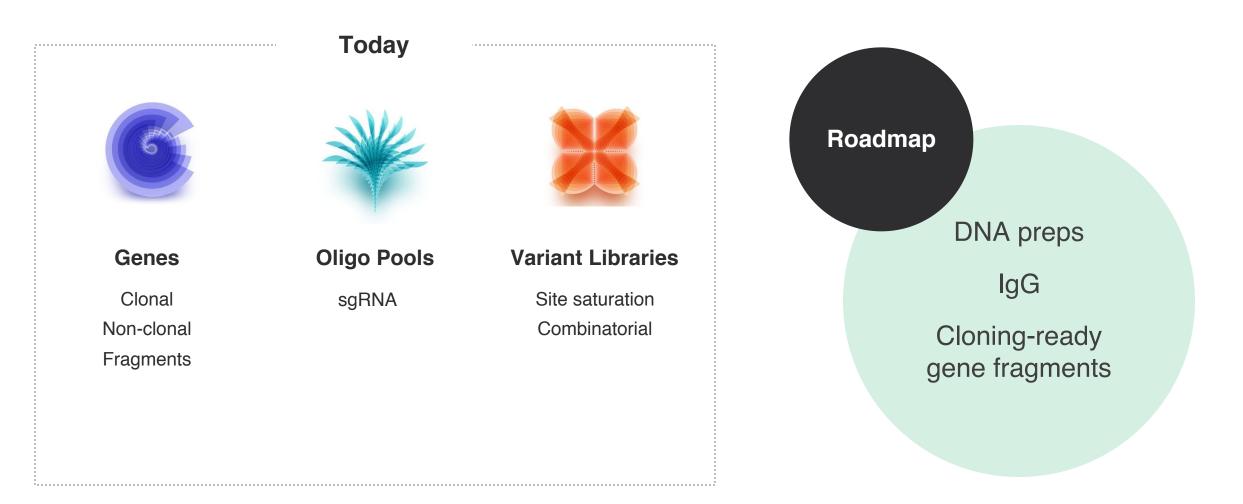
Twist Synthetic Biology





Synthetic Bio: Largest Selection of DNA Offered



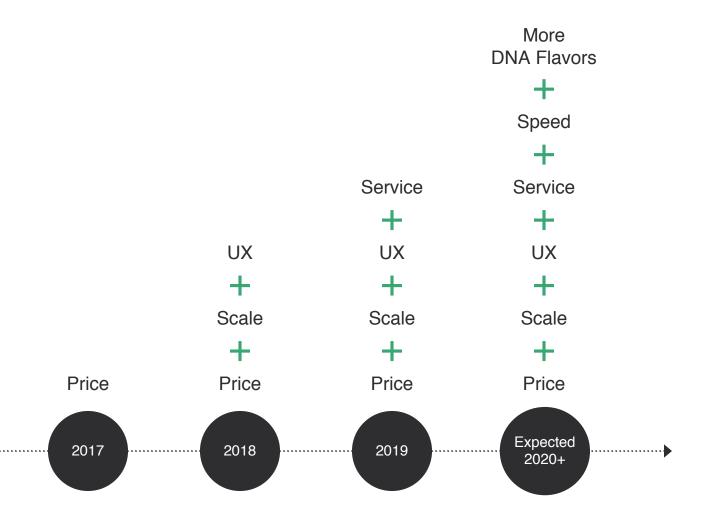


Innovative Online Ordering

	Cha	nge Vec	tor 🔻 🕇 Flanks	🔅 Optimize 🗎 🕂 Gene	+ Cust	om Vector		Q	PRICI	NG SUMMAR	?Y 🗊
_	#		NAME 🔸	SEQUENCE	BP	VECTOR	SCORE ()	PRICE	NAME	QTY	COST
	1		gene-001	ACTCGACTGACTAGC	1264	Select Vector 🔻	•	\$113.76	Easy Genes Cloning Fee	24 24	\$2,376.00 \$1,300.00
:	2		gene-002	ACTCGACTGACTAGC	1014	Select Vector 🔻	٠	\$91.26	DELIVERY FORMA	r	
	3		gene-003	ACTCGACTGACTAGC	978	Select Vector 🔻	•	\$88.02	Plate: 96 Wel		
	4		gene-004	ACTCGACTGACTAGC	848	Select Vector 🔻	•	<u>Fix it</u>	O Tube Edit		
	5		gene-005	ACTCGACTGACTAGC	1200	Select Vector 💌	•	\$108.00	Total		\$3,676
	6		gene-006	ACTCGACTGACTAGC	1124	Select Vector 🔻	•	\$101.16		Checkout	
-	7		gene-007	ACTCGACTGACTAGC	1200	Select Vector 💌	•	Fix it			
	8		gene-008	ACTCGACTGACTAGC	1087	Select Vector 💌	•	\$97.83			
_	9		gene-009	ACTCGACTGACTAGC	1200	Select Vector 🔻	•	\$108.00			

Synthetic Bio: Why We Win







We Deliver

- High quality DNA
- Competitive turnaround
- Affordability
- Fast throughput
- Unique customer experience
- Innovation

Synthetic Bio: Proof Points FY19



"

1,000+ Customers 8B Bases shipped

288K Genes shipped

98% Orders via ecommerce

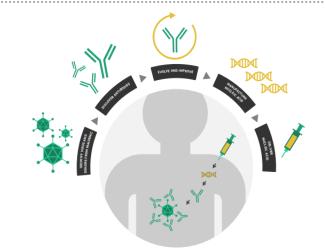


"

Case Study

P3 PANDEMIC PREVENTION PLATFORM

Rapid response to help medical workers fight viral diseases in the field



Twist delivered hundreds of genes in 9 business days for first DARPA sprint

Twist's very high-throughput platform allowed us to quickly and efficiently examine thousands of possible antibodies in order to select the best results faster than ever before. – Robert Carnahan

Synthetic Bio: Investing in Growth



Ecommerce-centric Velocity Sales GTM

- Growing sales team
- Expanding digital marketing
- Leveraging new product offerings

Strategy for Large Market \$1.3B / year Convert makers Large scale, commercial users to buyers "Make" Synthesis Supplies (Enzymes, Primers, "Buy" 10% of Cells, Plates) market Synthetic DNA today \$300M \$950M Long tail

Source: BCC Research, Markets and Markets Report, internal company estimates

Targeted Sequencing

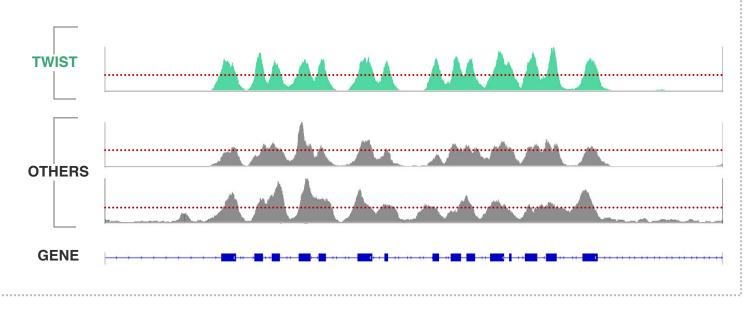
is powering new applications

- Liquid biopsy
- Rare disease
- Oncology
- Population genetics



Twist NGS Delivers Strong Uniformity in Double-Stranded DNA





NGS: Broad Offering with Expanding Capabilities



Today

Human Core Exome Kit

Human Comprehensive Exome Kit

Pan-Viral

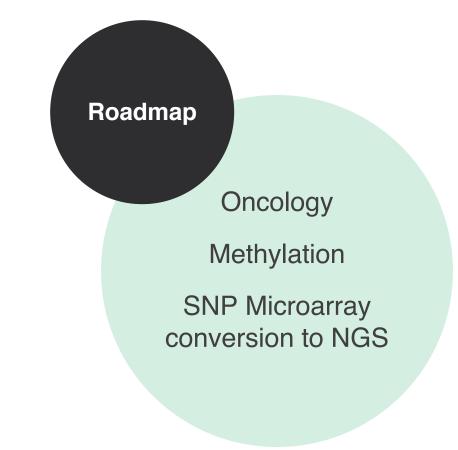
Mouse Exome

Custom Panels

Library Prep Kits

Fast Hyb & Wash Kit

Universal Adapters



NGS: Why We Win



Fast Throughput*

Low Cost per Sample

Rapid Customization

High DNA to Significantly uniformity 8-10 sequencer 20 hours drives lower faster R&D weeks in 1 day costs Test Sequencing Cost **Hybridization** ~4 weeks 50% less Build 5 hours Enrichment Kit Design Others** Others** TWIST TWIST Others** TWIST

*Includes pooling 1 & 2, pre-hybridization, hybridization, binding, wash steps, amplification, purification, target environment QC, and NGS prep **Illustrative models based on company knowledge of competing technologies.

NGS: Proof Points FY19



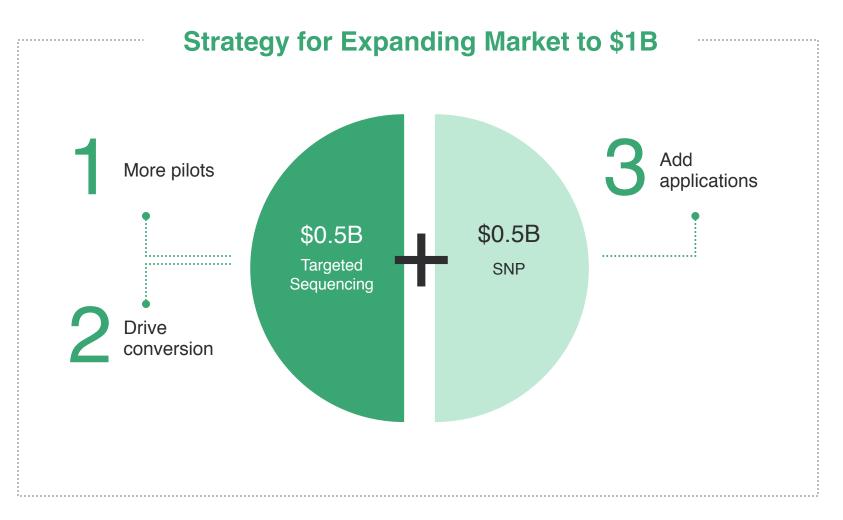
Exciting Use Cases 265 **Customers shipped** BROAD 36 in production Liquid biopsy **Degraded DNA** 2 Blueprint **OEM** partners -> ancestry **Genetics** SNP Rare disease SNP microarray conversion

NGS: Investing in Growth



Solution Selling GTM

- Growing sales team
- Adding OEM partners



New NGS Partnerships



MIROCULUS

Collaboration brings target enrichment and sample library preparation kits to Miro Canvas, a novel automation platform developed by Miroculus

- Streamlines the experimental process
- Provides more efficient solutions for a wide range of clinical applications
- Maximum flexibility and reproducibility

GenapSys

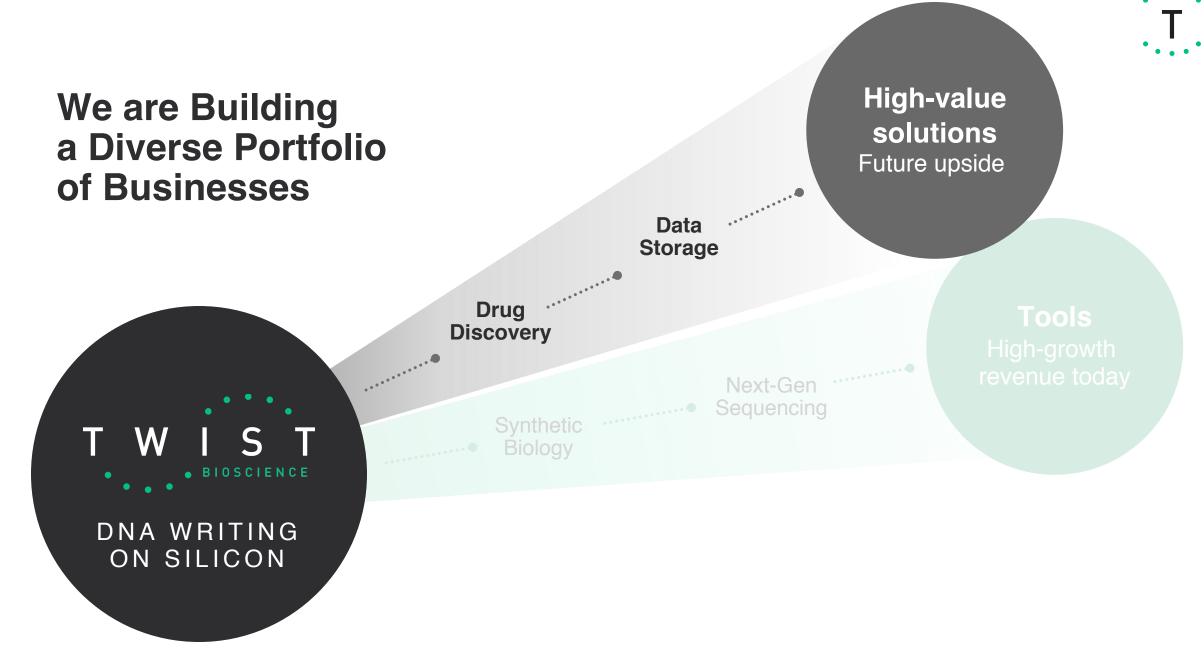
GenapSys customers to receive Twist's best-in-class target enrichment workflows

- Provides researchers with optimized assays spanning cancer test panels to whole human exome sequencing
- GenapSys to integrate new products
 into workflow in Q2 2020
- Working with a single vendor provides benefit of "one-stop shopping"



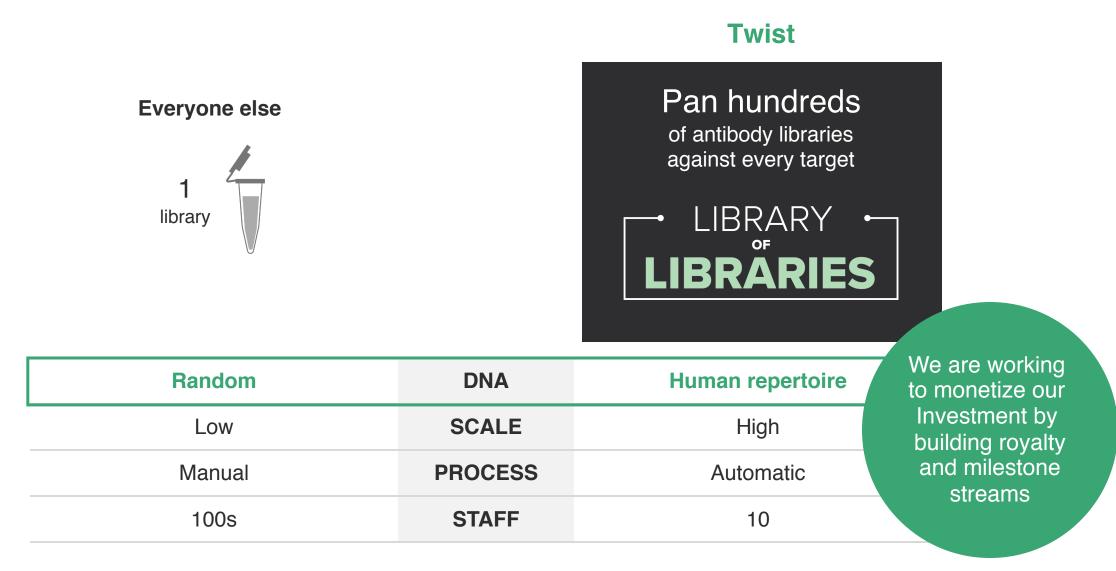
Collaboration brings access to universal SOPHiA Platform for advanced genomic analysis to Twist's customers

- Providing the interpretation and analysis of sequencing information
- Platforms will allow customers to go from sample to interpretation of the results quickly and efficiently
- Target enrichment enables genomic sequencing efforts to be focused in specific regions of interest, reducing cost and analysis time

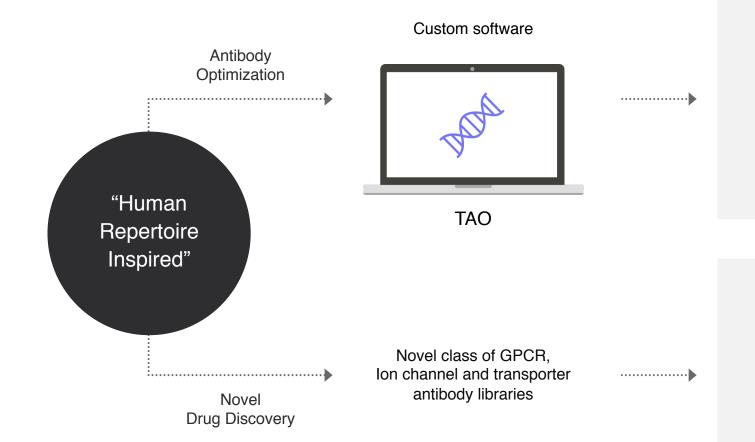


Twist Antibody Drug Discovery





Discovering Bio-Betters and Hard-to-Drug Targets



Bio-Betters

High Diversity, High Quality Molecules

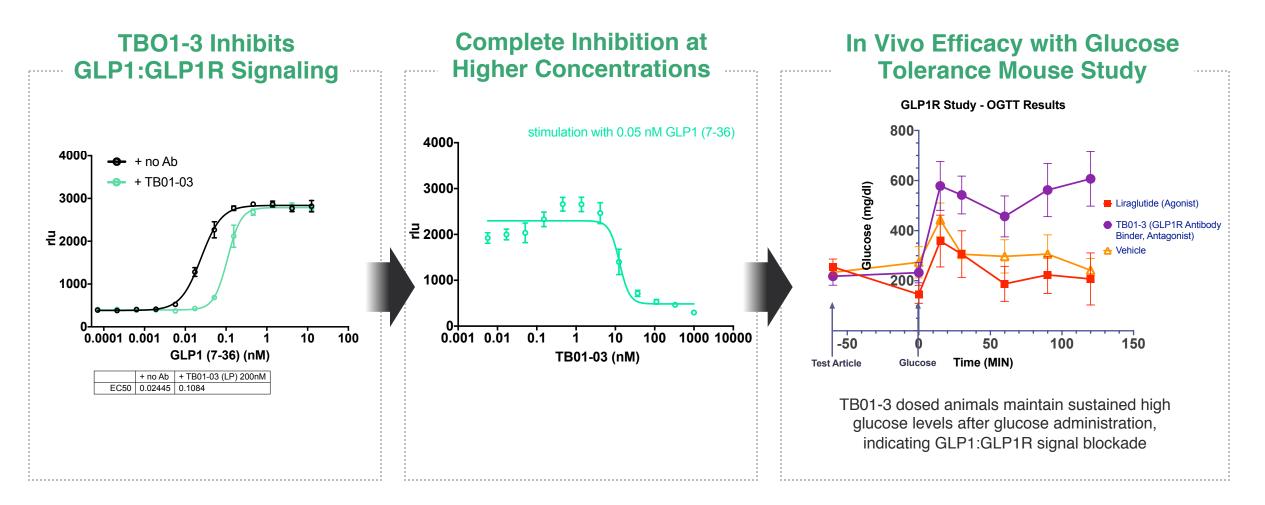
- Affinity (pM)
- ImmunogenicitySolubility
- Half-life
- Expression •
- Druggability

Hard-to-Drug Targets

Leveraging technology to develop novel therapeutics for promising targets

GPCR Development Candidate: TBO1-3 is Potent GLP1R Antagonist





Potential application for rare diseases such as severe hypoglycemia

Pipeline of Functional Monoclonal Antibodies





GPCR TARGET	INDICATION
ADORA2A	Cancer
CRTH2	Asthma / inflammation
CXCR4	Cancer
CXCR5	Asthma / inflammation
FSHR	Infertility
GLP1R	Diabetes / rare metabolic diseases
V2R	Cancer

We are working to optimize these leads and leverage our platform for partnering discussions

Biopharma Collaborations



	LakePharma The Biologics Company	PANDION THERAPEUTICS	SCHRÖDINGER.	Undisclosed
Focus	Co-marketing Twist services to their customers	Optimization of bispecific antibodies for autoimmune and inflammatory disease	Technology collaboration	Optimization of therapeutics
Economics	Shared economics	Per project	Collaboration on commercial opportunities	Per project

Twist Data Storage

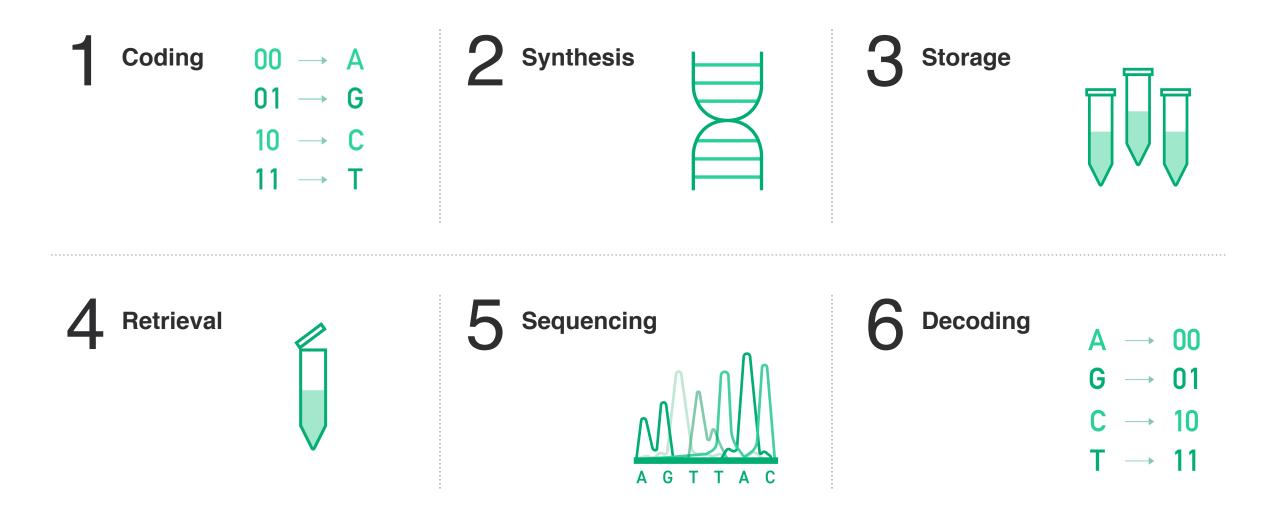


Recovered from Lunar Orbiter 1 Tapes

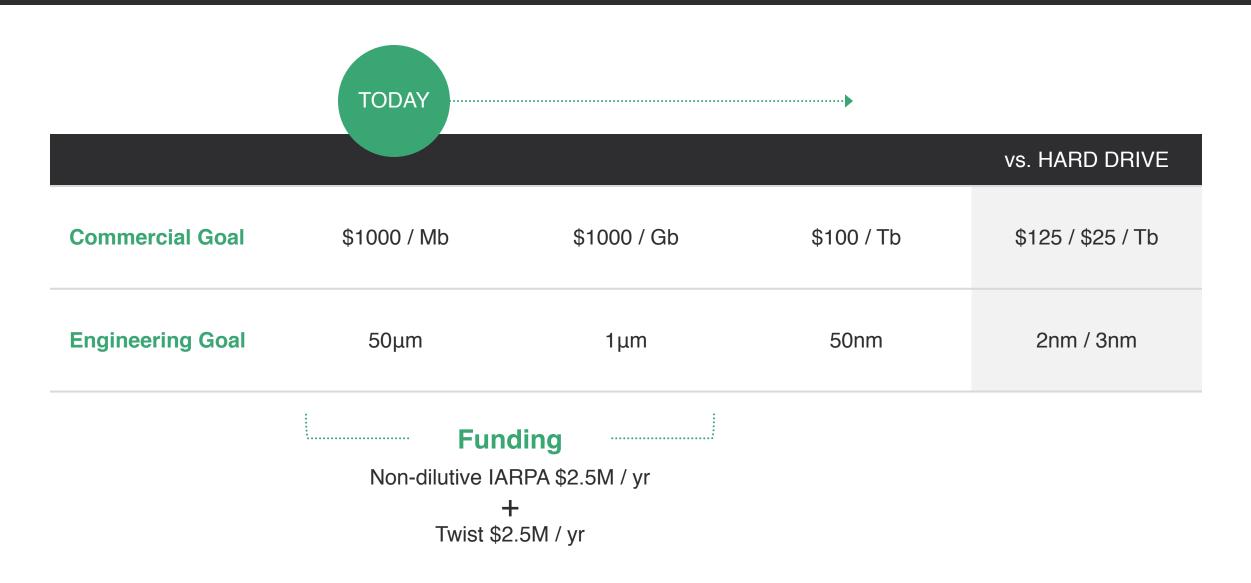


GA **DNA** for **Archival Storage of Digital Information** ТАСЛАСВАТСВАЕТАСТ GACGGAPermanenceCATCAG TAGCAGCGC Density GCACGATCAT CGAGGGRandom access(AGCTA ATCCCCUniversal format CTAC АААСТА

Data Storage in DNA: How It Works



DNA Data Storage Estimated Roadmap



Twist Selected as DNA Synthesis Provider Under The Intelligence Advanced Research Project Agency (IARPA)

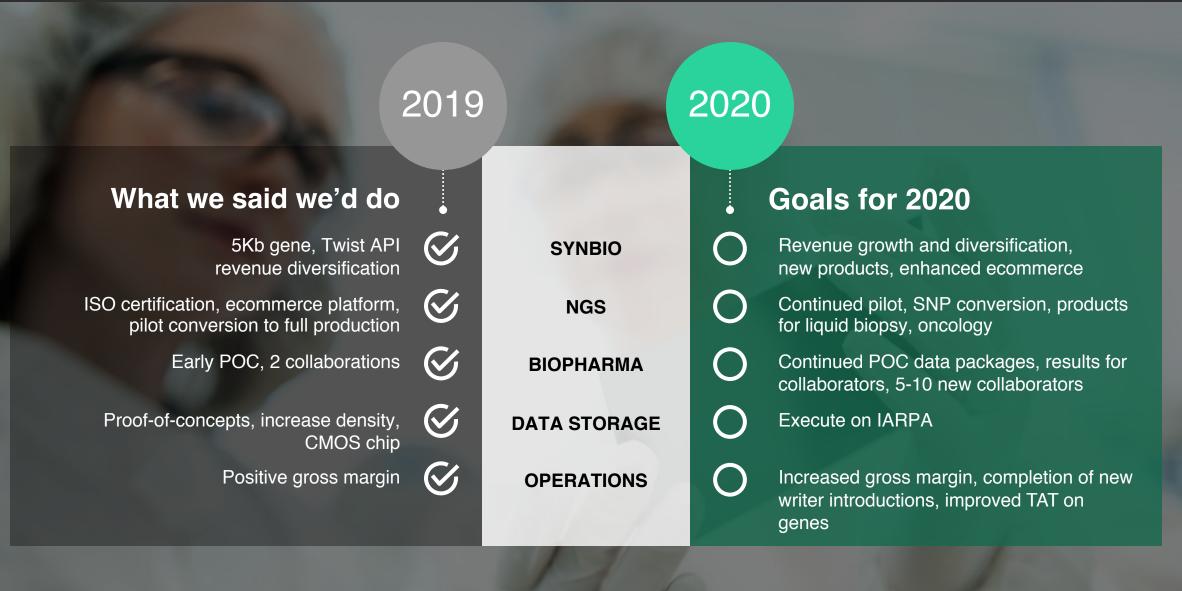
	Collaborators	
Georgia Research Tech Institute	UNIVERSITY of WASHINGTON	

- Twist may receive up to \$9.15M
- Additional \$5.5 million designated to bolster DNA synthesis through new chip design, commercial implementation at Twist
- Significantly reduce the size, weight and power required for archival data storage
- Synthesize enough DNA per day to allow the cost of storing digital data to be as low as \$1/gigabyte
 - Ultimate Twist goal: Drive cost down to \$100/terabyte
- Bolster DNA synthesis through new chip design

I A R P A NON-DILUTIVE FINANCING

Delivering on Our Plan





T W I S T BIOSCIENCE

Writing the Future

Platform for writing DNA on silicon Large, growing markets **Differentiated** value proposition Portfolio of high growth businesses High year-over-year revenue growth Track record of execution and innovation