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At Codex DNA, our mission is to apply our breakthroughs in automation solutions for DNA, mRNA, and protein synthesis to enable customers to program and "write" synthetic biology that creates sustainable healthcare and technology solutions for some of humanity's biggest challenges.

CODEX DNA AT A GLANCE



End-to-end automation of synthetic biology powered by Gibson Assembly method



Strong commercial growth trajectory is anticipated for both commercialized products and products in development



Large IP portfolio of over 300 patents creates picket fence and first-mover advantage



Rapid revenue growth results from strong demand, increased use and new products



Opportunity to unlock large, multi-billion-dollar TAMs for mRNA therapeutics + vaccines, biologics, genome engineering, and digital DNA storage



Potential for significant gross margin expansion



Robust development pipeline creates potential for significant upside

CODEX DNA TEAM

TODD R. NELSON, PhD

Chief Executive Officer

Commercial

DECKY GOODRICHVP Global Sales

MADOO VARMA, PhD VP Corporate Development

Innovation

DANIEL GIBSON, PhDChief Technology Officer

VP Engineering

Operations

ANISSA AGADIR, PhD VP Manufacturing & Quality

JUSTIN EMORY
VP Information Technology

Enablement

JENNIFER McNEALEY
Chief Financial Officer

ROB CUTLERChief Legal Officer

LAURA PUGA VP People & Culture

















THE GENOMIC REVOLUTION ENABLED DECREASING COSTS + INCREASING SCALE FOR SEQUENCING, OR READING DNA

THE NEXT REVLOUTION WILL BE DRIVEN BY SYNTHETIC BIOLOGY APPLICATIONS THAT WRITE OR RE-CODE DNA TO ADDRESS LARGE OPPORTUNITIES IN HEALTHCARE + TECH

2001Sequencing of the human genome

Thousands and thousands of genomes sequenced for more than 3,500 species

XX CODEX DNA









BIOLOGICS

mRNA VACCINES + THERAPEUTICS*

GENOME ENGINEERING

DIGITAL DNA STORAGE*

*Future product offering

OUR PRODUCTS AND SERVICES ARE POSITIONED TO DISRUPT AN INDUSTRY AND DRIVE THE NEXT REVOLUTION

Codex DNA comprehensive synthetic biology solution



BioXp system

Push-button, walk-away, end-to-end automated synthetic biology workstation



BioXp portal

Online portal that offers an intuitive guided workflow + design tools for building new DNA + mRNA sequences



BioXp kits

All the necessary building blocks + reagents to allow BioXp systems to produce synthetic DNA + mRNA



Biofoundry services

Enabled with the BioXp system, our services are designed to tackle fast turn-around times and complex projects



Cloud-based scripts

Product-specific and prevalidated scripts that optimize + simplify the use of the BioXp kits on the BioXp system



Benchtop reagents

Gibson Assembly, Vmax cells, synthetic genomes

SYNTHETIC BIOLOGY DEFINED

The engineering of biological components such as genes, mRNA, proteins, viruses, and living cells starting from a digital DNA sequence, enabling the construction of those macromolecules and organisms with new and improved biological functions

APPLICATIONS



THERAPEUTICS

Solutions to design, build and test biologic constructs against drug targets



VACCINES

Solutions to develop vaccines for emerging viruses and pathogens



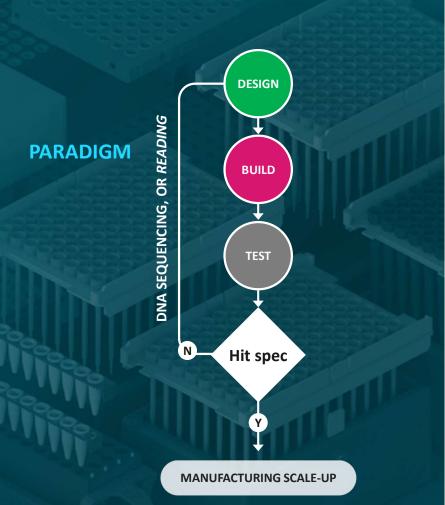
AGRICULTURE

Solutions to improve crop yield and create novel food sources

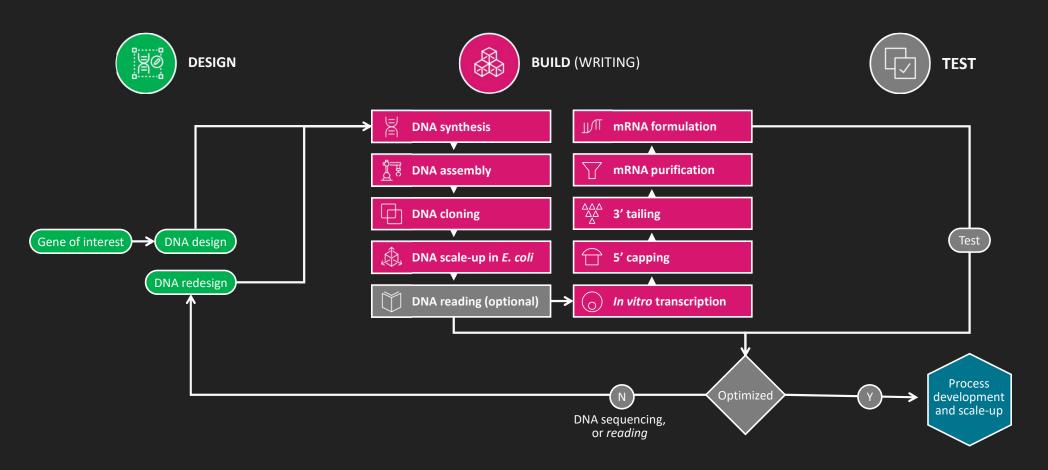


DATA STORAGE/CONSUMER MARKETS

Solutions to store digital files



BUILDING DNA & mRNA IS A DIFFICULT MANUAL PROCESS ...



...AND THE INDUSTRY IS HIGHLY FRAGMENTED, WITH NO CLEAR PATH TO BEING ABLE TO RAPIDLY ITERATE **CENTRAL DOGMA PRODUCT CYCLES**

Problem with building DNA or mRNA: highly fragmented industry with multiple providers using different approaches



synthesis



DNA

assembly





DNA cloning



DNA scale-up



mRNA (IVT)



Protein* (IVT/TX)





Days to weeks/months



Difficult to manage



Long lead times



Inconsistent



Lack of control



Limited solutions

* Future product offering

TO ADDRESS THE NEED FOR RAPID ITERATION OF PRODUCT CYCLES, WE AUTOMATED THE ENTIRE BUILD CYCLE FOR SYNTHETIC BIOLOGY APPLICATIONS



BUILD GENES
Custom highfidelity gene

fragment + mRNA templates



BUILD CLONES

Custom DNA fragments, up to 7.2 kb, cloned into any vector



BUILD LIBRARIES

Custom variant DNA libraries



SCALE-UP Cell-free DNA amplification



BUILD mRNACustom mRNA



BUILD PROTEIN*

Custom peptide + protein synthesis

* Future product offerin

AND WE ARE DISRUPTING THE SYNTHETIC BIOLOGY INDUSTRY BY DECENTRALIZING APPLICATIONS WITH CUTTING-EDGE TECHNOLOGY AND PRODUCTS



We believe we are the first pushbutton system for on-demand printing of functional grade synthetic DNA, mRNA + protein*



Accelerates processes from days, weeks, or months to days or hours



Industry-leading quality and performance in speed, fidelity, complexity (AI), build-size + scale



Productivity increase during design + build phases, resulting in accelerated product development cycles



Potential to enable global distributed manufacturing for mRNA therapeutics, vaccines + biologics



Enables workflows for antibody + protein engineering, precision medicine, genome editing + engineering



Simple, powerful platform for every lab



2.74x better



SPEED 12–17x better



SCALE 32 genes overnight

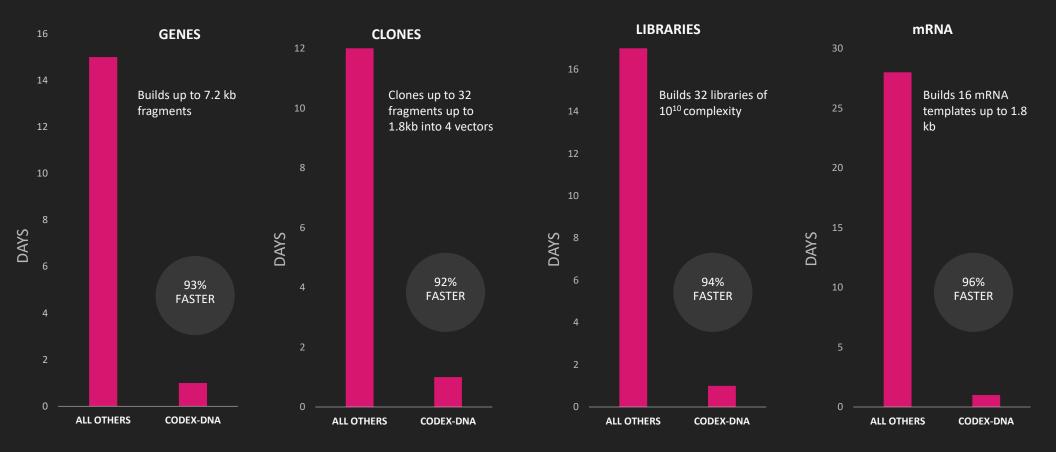


PRODUCTIVITY **20**x+

The metrics shown above were calculated using averages derived from publicly available information and quotes received for comparable product offerings by some of our competitors, some of which included shipping times, and averages from the Company's workflows.

* Future product offering

SPEED MATTERS: THE INDUSTRY'S FASTEST BUILD TIMES FOR SYNTHETIC DNA AND mRNA



Note: The table only represents the average timeline from certain of the Company's competitors determined by management to offer the most comparable service. The table does not represent all products offered by the Company or its competitors.

RECENT BIOXP PLACEMENTS SHOW ADOPTION ACROSS MULTIPLE HIGH GROWTH WORKFLOWS

Recent BioXp system placements mix

BIOLOGICS

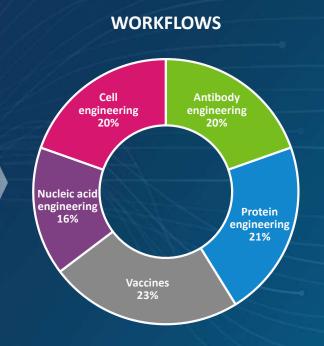
GENOME EDITING

CELL & GENE THERAPY

VACCINE DEVELOPMENT

AGRICULTURE

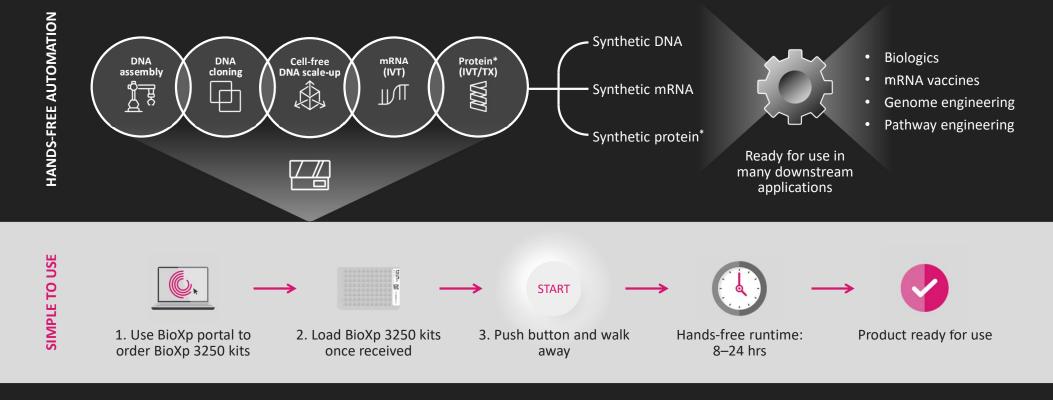
SUSTAINABLE FOODS



As of December 31, 2020

IT'S EASY TO USE: PUSH-BUTTON, FULLY- AUTOMATED, END-TO-END SOLUTION FOR ANY BIOLOGIST

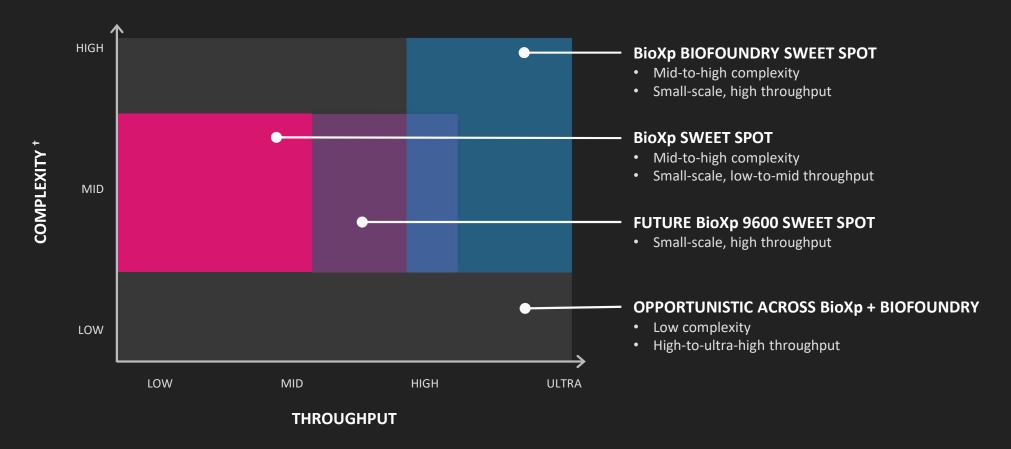
Cloud-based scripts, along with BioXp kits, provide scalable, fast, robust results



* Future product offering

XX CODEX DNA

COMPETITIVE LANDSCAPE: SECURING A PLACE IN AN UNDERSERVED MARKET*



^{*} Builds that require 5 kb+ synthetic DNA or mRNA templates and all mRNA build.

[†] RUO applications requiring small-scale synthesis of synthetic DNA or mRNA.

USE CASE: NUMEROUS PHARMA / BIOTECHNOLOGY ACCOUNTS

For antibody- and protein-based drug candidates





VARIANT LIBRARIES (BioXp™ kits)

Scanning | Combinatorial | Targeted

16 HOURS*



COMPETITOR[†]



VARIANT LIBRARIES

Various

AVERAGE OF 34 DAYS*



~35X FASTER ITERATION EQUATES TO A ~73% REDUCTION IN THE ANTIBODY, PROTEIN AND PATHWAY ENGINEERING WORKFLOWS

^{*} Assumes antibody or protein engineering workflow requires the synthesis of two synthetic DNA libraries during screening.

[†] Based on average product delivery times, not including ship days for similar products from IDT, Twist Biosciences, Genewiz, GenScript, and Thermo Fisher Scientific.

Pfizer Collaboration

Pfizer to Utilize SOLA to Accelerate R&D of New mRNA-based Vaccines and Biotherapies

Deal Overview:

- Early access collaboration with Pfizer around our novel SOLA enzymatic DNA synthesis technology
- Pfizer intends to leverage SOLA to accelerate development of new mRNAbased vaccines and biotherapies
- Pfizer is a market leader in mRNA vaccines produced 3 billion vaccine doses in 2021 and expect to produce 4 billion doses in 2022

Deal Terms:

- Upfront and near-term potential milestones up to \$18M
- Option for exclusivity in two therapeutic areas
- For exclusive applications development milestones up to \$55M + commercial milestones up to \$180M plus royalties each application
- With success in both exclusive applications total deal value of \$500M+
- Non-exclusive applications also eligible for development milestones, commercial milestone and royalties



Deal is a validation of the impact of our cutting-edge SOLA enzymatic DNA synthesis technology

USE CASE: BIOFOUNDRY SERVICES

Codex DNA's solution applied to cellular agriculture

NEED

Rapid iteration using a highly targeted or enriched library — current outsourcing relationship takes too long and did not provide enriched library at desired specifications

SOLUTION

Codex DNA BioXp biofoundry services engaged to deliver a series of enriched libraries

RESULT

Customer developed entire workflow around Codex DNA enriched libraries — customer observed significant improvements in productivity



DIFFERENTIATED BIOFOUNDRY SERVICES

USE CASE: POSITIVE PROOF OF CONCEPT RESULTS FOR PRECISION MEDICINE WORKFLOWS

Codex DNA solution generates biologically active mRNA

NEED

Customer seeking rapid synthesis capabilities for KRAS G12V TCRs as a potential mRNA vaccine

SOLUTION

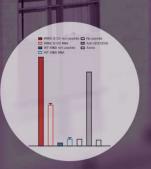
Used BioXp system to rapidly and accurately synthesize and clone TCRs for KRAS G12V and associated mRNA

RESULT

mRNA from synthetic TCRs elicited desired immune response



La Jolla Institute FOR IMMUNOLOGY



Graphics provided by Dr. Stephen Schoenberger of La Jolla Institute for Immunology

STRONG ADOPTION BY INDUSTRY LEADERS

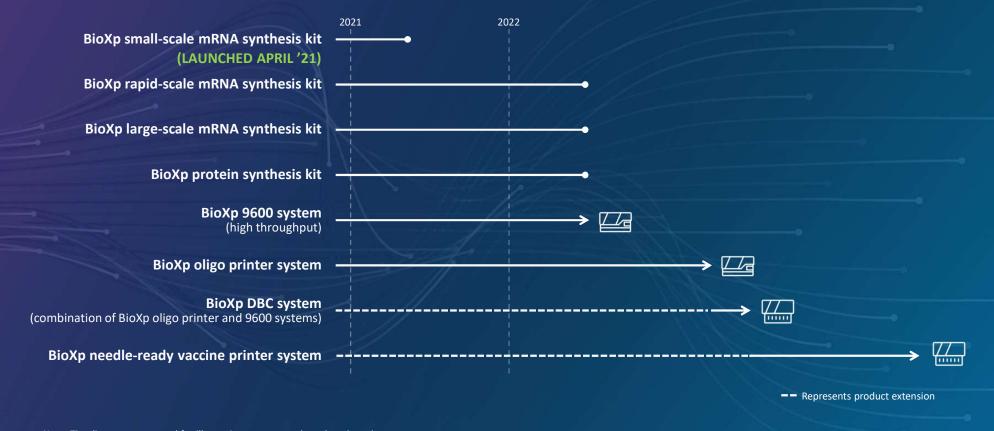


XX CODEX DNA

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ROBUST PIPELINE OF INNOVATIVE SYSTEMS AND KITS MAY UNLOCK ADDITIONAL OPPORTUNITIES

Provides strong foundation for future growth and lets customers scale with a single solution



Note: Timelines are presented for illustrative purposes only and are based on current management expectations; longer-term milestones are increasingly uncertain.

OUR mrna products are designed to serve the emerging market for mrna based vaccines and therapeutics



+



+



+



Strong emerging interest in RNA-based therapeutics

COVID-19 accelerated long-awaited therapeutic platform validation

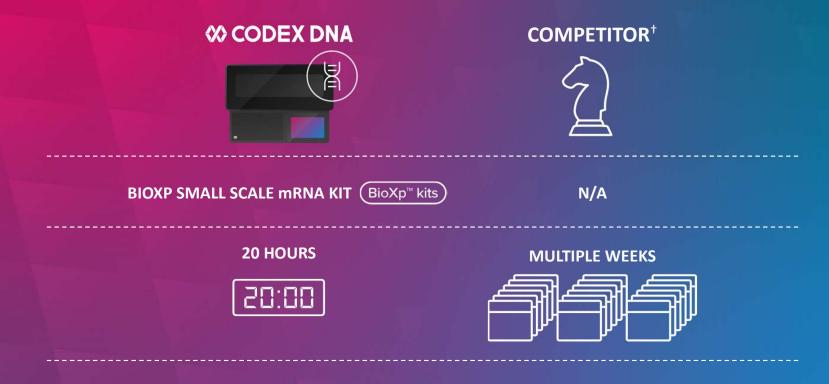
Innovations have opened the RNA therapeutics and vaccines market

Potentially leading to large-scale platform conversions from protein to mRNA

WE BELIEVE WE ARE THE IDEAL DISCOVERY SOLUTION FOR mRNA AUTOMATION OF VACCINES AND THERAPEUTICS

EXAMPLE: OUR SOLUTION CAN DELIVER AN AVERAGE OF 10 µg PER WELL OF BIOLOGICALLY ACTIVE mRNA

In a single, automated run



^{*} Optional runs of the BioXp™ system allow for pooling of up to 16 wells from a single kit each generating an average of 10 µg of mRNA per well.

[†] The turnaround time estimate for our competitors is based on the general turnaround time for Aldevron, LLC, Trilink Biotechnologies, Inc., Bio-Synthesis, Inc. and others who were selected by management because of their comparable product offerings.

ADVANCING OLIGO PRODUCTION WITH PROPRIETARY ENZYMATIC DNA SYNTHESIS TECHNOLOGIES

Improving our gross margins + empowering customers



When integrated into our manufacturing process, it may significantly reduce our COGS

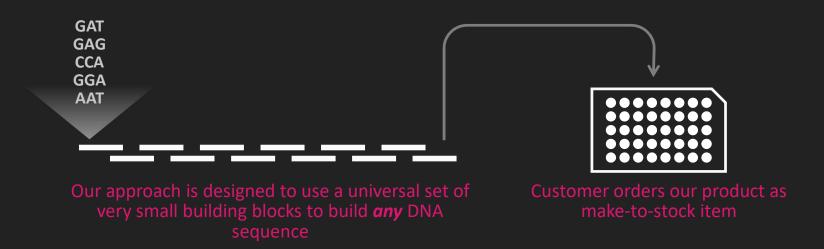


When launched on our BioXp systems, it may further entrench our products in large markets

DRAMATIC GROSS MARGIN IMPROVEMENT

ENABLE ON-DEMAND SYNTHESIS
OF DNA, mRNA + PROTEIN

WHY OUR ENZYMATIC DNA SYNTHESIS PLATFORM MAY HAVE ADVANTAGES RELATIVE TO ALTERNATIVE APPROACHES

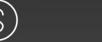


ADVANTAGES OVER ALTERNTIVE ENZYMATIC DNA SYNTHESIS CHEMISTRIES











FIDELITY BUI

BUILDABILITY

COST

SPEED + THROUGHPUT

QUALITY

OUR ENZYMATIC DNA SYNTHESIS PRODUCTS MAY ENABLE GLOBAL DISTRIBUTED MANUFACTURING

Make biological samples anywhere, anytime, further accelerating time-to-result







2



3

Submit digital gene sequence information using our online ordering portal



We send reagent cartridges containing pieces of the desired genes to be built



Load the reagents, push *Start* button, and walk away

CUSTOM OLIGOS FOR EVERY ORDER



1



2

Customer orders our product as make-to-stock item
1–2x per year



Load the reagents, push *Start* button, and walk away

ALL REAGENTS ARE MADE-TO-STOCK

ADDITION OF *ENZYMATIC DNA SYNTHESIS* TO FUTURE BIOXP SYSTEMS MAY CREATE NEW, DISRUPTIVE SOLUTIONS FOR NEW MARKETS, INCLUDING CLINICAL APPLICATIONS

COMPETITION

(days to weeks)



CODEX DNA

(on-demand)

IDEAL SOLUTION

- ✓ mRNA therapeutics
- ✓ Personalized medicine
- ✓ Future pandemics

BioXp oligo printer system*

BioXp DBC system*

BioXp needle-ready vaccine printer system*

* Launch anticipated after 2022

EXAMPLE: FUTURE PANDEMICS

Designed to synthesize and deliver vaccines globally



Send instructions over the internet to print a vaccine with the push of a button



Turn on 10,000+ printers at once



Deliver vaccines to emerging pandemic viruses in a matter of days instead of months —responding with unprecedented speed to new mutations



Potential to replace antiquated centralized manufacturing systems with modern distributed manufacturing technology



FINANCIAL STRATEGY HIGHLIGHTS



- STEADY HISTORICAL GROWTH
- Growing installed base
- Launch of core portfolio products
- Early channel development



- ACCELERATING FUTURE GROWTH
- Rapid adoption
- Recurring revenue
- Proven strategy
- Driven by channel + new products



- 3 EXPANDING MARGINS
- Increasing ASP
- Favorable mix

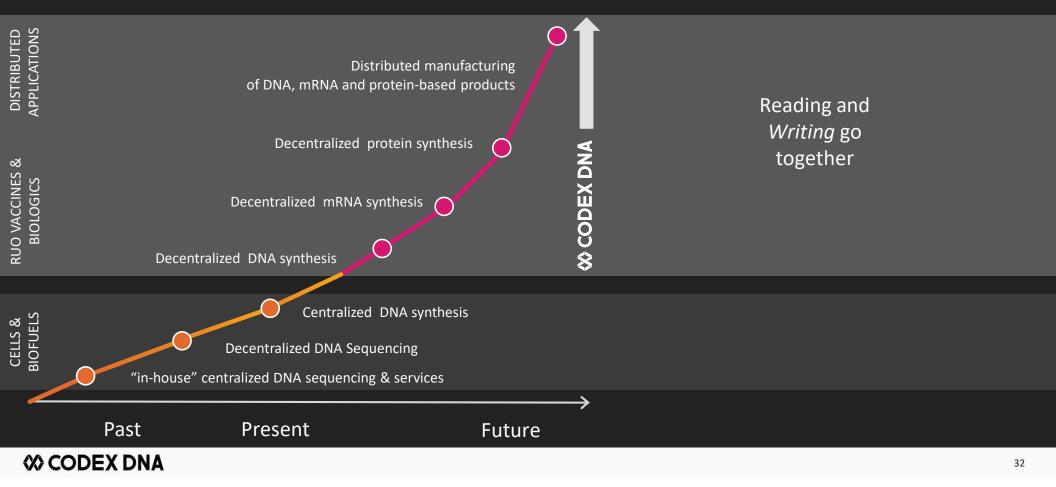


- NEAR-TERM PROFITABILITY
- Operating leverage strategy to profitability in 2024

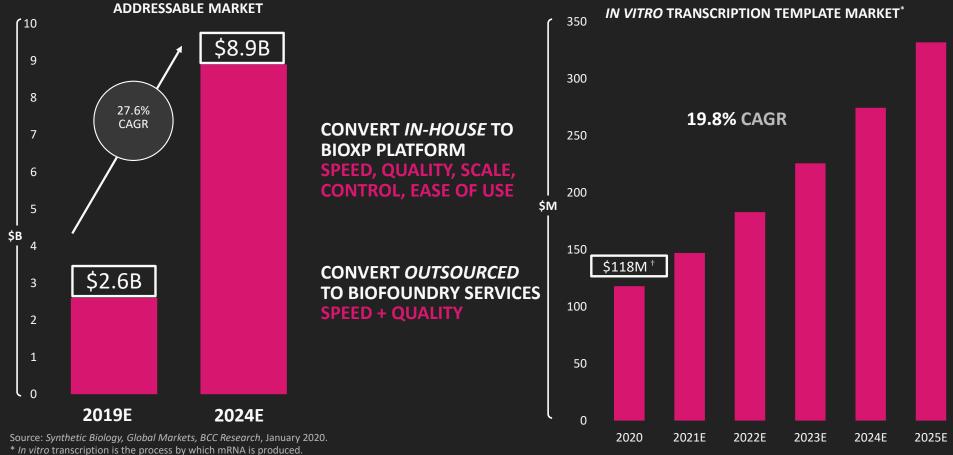
DIVERSIFIED REVENUE STREAM OF BIOXP SYSTEMS, BIOXP KITS, BENCHTOP REAGENTS, BIOFOUNDRY SERVICES, ROYALTIES + COLLABORATIONS

OUR GTM STRATEGY FOLLOWS A SOUND LOGIC OF FOCUSING ON SERVING LARGE TAMS IN NEED OF AUTOMATION

Synthetic biology "writers" or "printers" are the 2nd half of the equation reading + writing



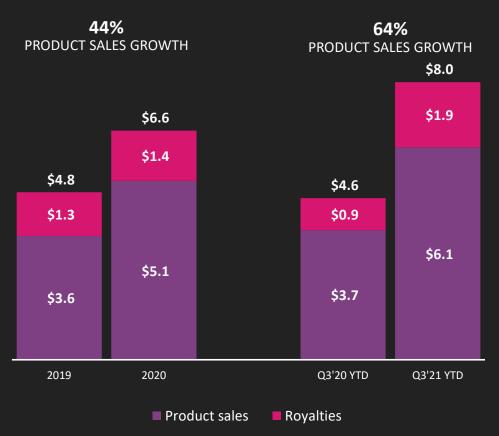
STRATEGY TO CAPTURE LARGE MARKET POTENTIAL



^{† 2020} market size according to in vitro transcription template market 2017–2031, Transparency Market Research, Inc.

SIGNIFICANT REVENUE GROWTH

TOTAL REVENUE (\$ MILLIONS)



KEY DRIVERS OF FUTURE GROWTH

MARKET TAILWINDS

Continued market and application growth

CHANNEL EXPANSION

- Direct revenue channels
- Channel partners for outside US

DISRUPTIVE PRODUCT LAUNCHES DRIVE UTILIZATION

BIOXP KITS

- BioXp small-scale mRNA synthesis kit
- BioXp rapid-scale mRNA synthesis kit 1H2022E
- BioXp large-scale mRNA synthesis kit 1H2022E
- BioXp protein synthesis kit 1H2022E

BIOXP SYSTEMS

- BioXp 9600 system Q3 2022E
- BioXp oligo printer system (after 2022)
- BioXp DBC system (after 2022)
- BioXp needle-ready vaccine printer system (after 2022)

SUMMARY INVESTMENT HIGHLIGHTS



End-to-end automation system for synthetic biology



Strong commercial growth trajectory



Opportunity to unlock large, multi-billion-dollar TAMs



Rapid revenue growth



Large IP portfolio



Potential for significant gross margin expansion



Robust development pipeline



Writing next to reading

