



S I N G U L A R
G E N O M I C S

JP Morgan 40th Annual Healthcare Conference 2022

Drew Spaventa | Chairman and CEO

FORWARD-LOOKING STATEMENTS

All statements in this presentation and the associated discussion that are not statements of historical facts constitute forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include, but are not limited to, statements regarding: (i) our ability to successfully complete the development of our G4 and PX Integrated Solutions; (ii) our ability to meet our commercial launch and product delivery timelines and objectives; and (iii) our ability to achieve customer and scientific acceptance for our G4 and PX Integrated Solutions. Any such forward-looking statements are based on our management's current expectations and are subject to a number of risks and uncertainties that could cause our actual future results to differ materially from our management's current expectations or those implied by the forward-looking statements. These risks and uncertainties include, but are not limited to: (i) we have incurred significant losses since inception, we expect to incur significant losses in the future and we may not be able to generate sufficient revenue to achieve and maintain profitability; (ii) we have no history commercializing our products or technology; (iii) the life sciences technology market is highly competitive, and if we fail to compete effectively, our business and operating results will suffer; (iv) if we are sued for infringing, misappropriating or otherwise violating intellectual property rights of third parties, this litigation could be costly and time consuming and could prevent or delay us from developing or commercializing our product candidates; (v) if our products fail to achieve early customer and scientific acceptance, we may not be able to achieve broader market acceptance for our products, and our revenues and prospects may be harmed; and (vi) the COVID-19 pandemic and efforts to reduce its spread have adversely impacted, and may materially and adversely impact our business and operations in the future. These and other risk factors that may affect our future results of operations are identified and described in more detail in our filings with the SEC, including our Quarterly Report on Form 10-Q for period ended September 30, 2021, filed with the SEC on November 9, 2021. Accordingly, you should not rely upon forward-looking statements as predictions of future events or our future performance. We disclaim any intention or obligation to revise or update any forward-looking statements, whether as a result of new information, future events, or otherwise.

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.

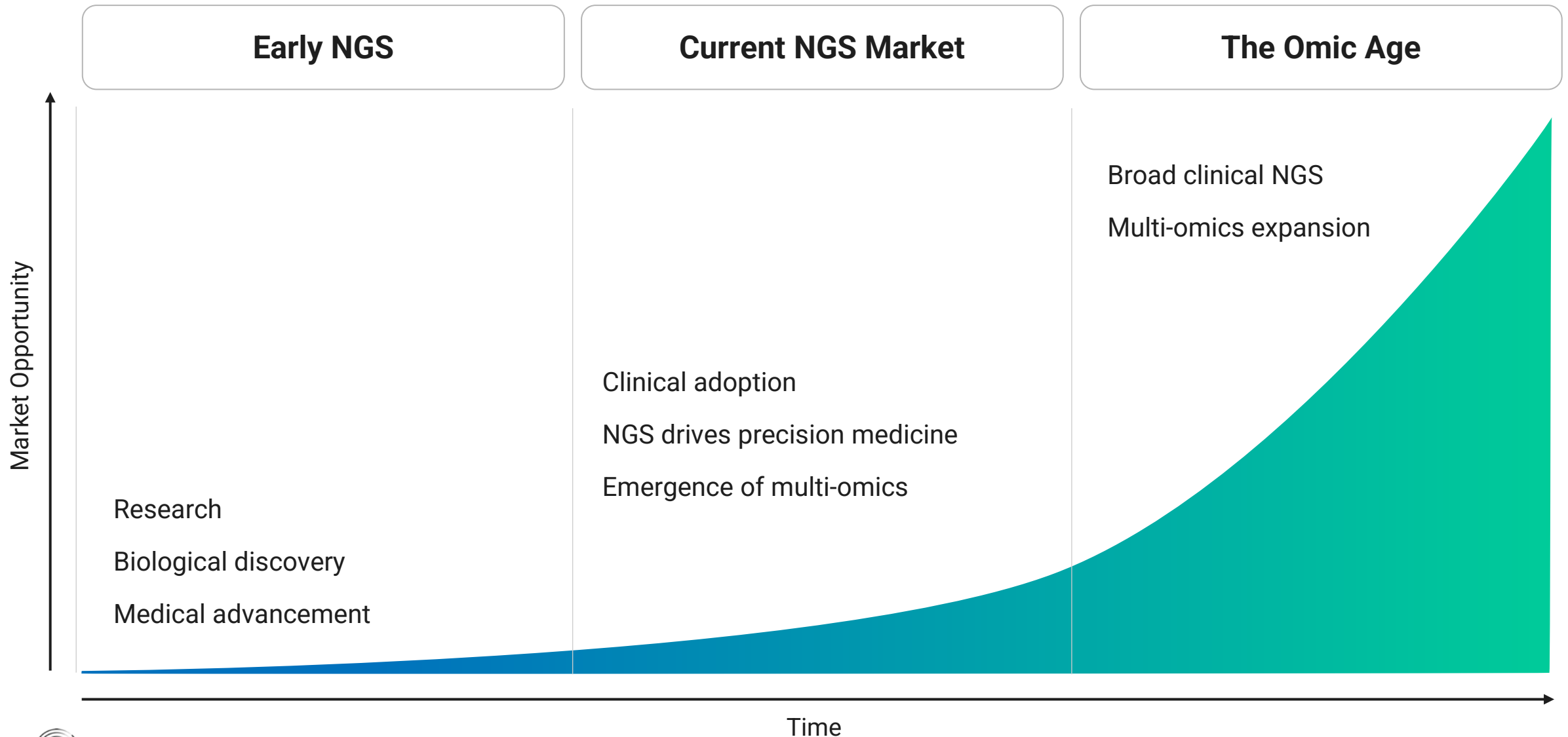
A NEW ERA OF NGS HAS ARRIVED

Setting a new benchmark in power,
speed, flexibility and accuracy

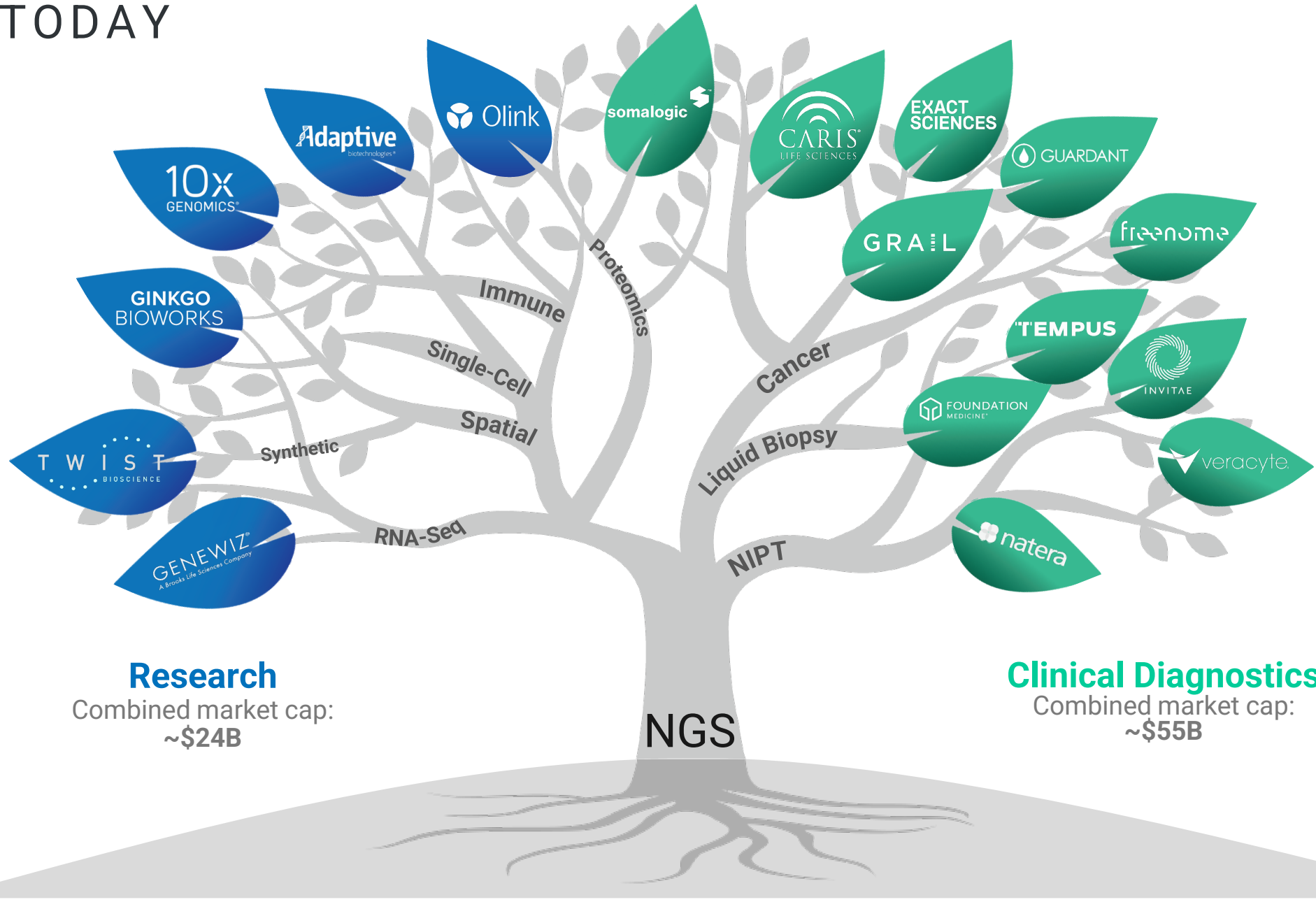


WE HAVE ENTERED THE OMIC AGE

VALUE CREATION ON THE BACK OF NGS

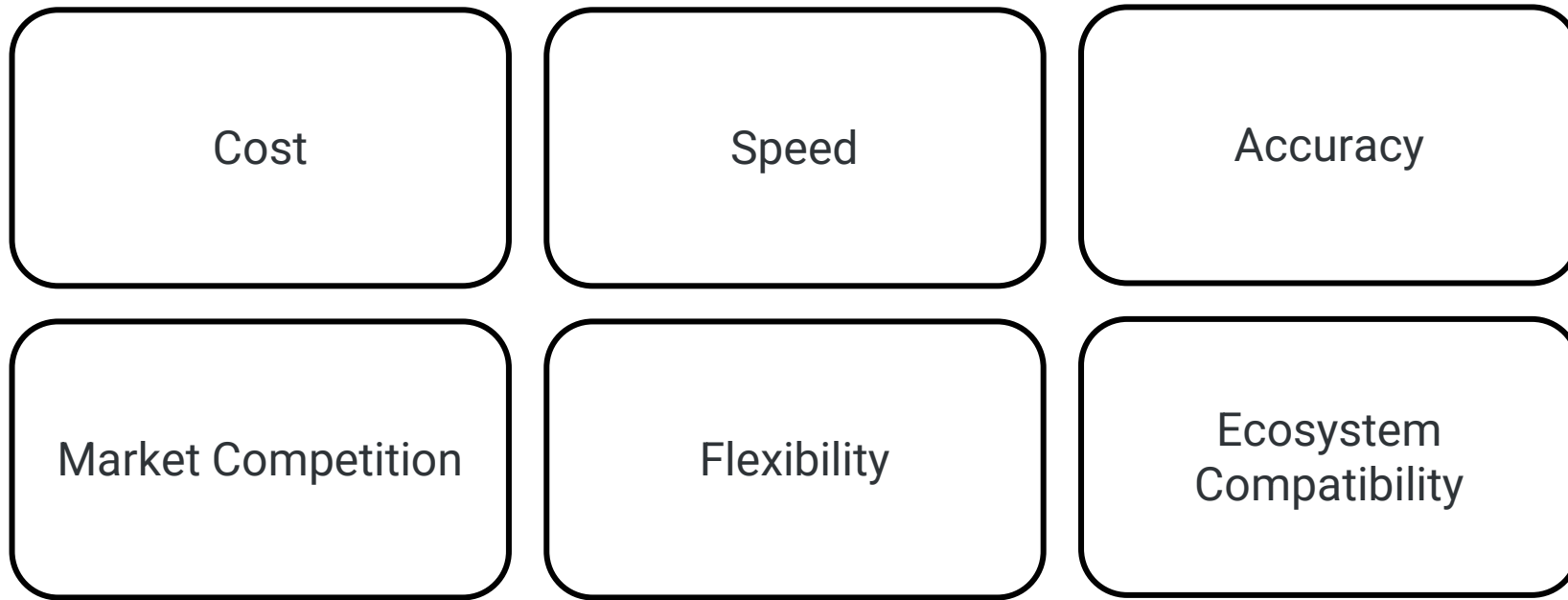


NGS TODAY



VOICE OF CUSTOMER

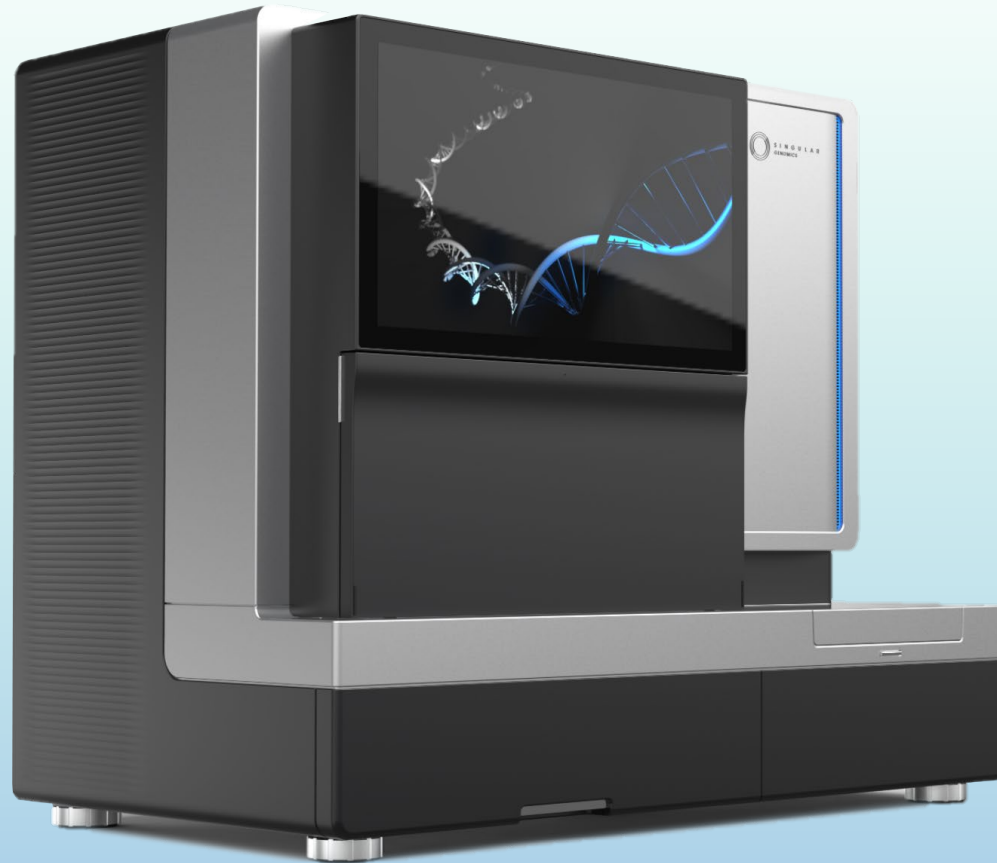
WE LISTENED TO WHAT THEY'RE ASKING FOR



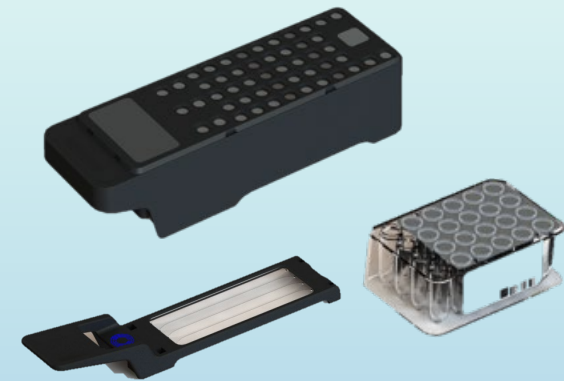
SINGULAR IS ADDRESSING ALL OF THESE

Cost effective ■ Alternate supplier ■ Fast chemistry ■ Run versatility ■ Industry standard accuracy ■ Ecosystem enabled

LAUNCHING THE G4



Fully Integrated
Consumable Kits



Shipping Q2 2022

DISCOVER G4

Power

15–400 Gb output
range

More data per day than any other
benchtop sequencer

Speed

6–19 hour
run time

Industry leading run times

Flexibility

1–4 flow cell
16 lanes

Unparalleled operational efficiency

Accuracy

75–90% bases \geq
Q30

State-of-the-art industry standard

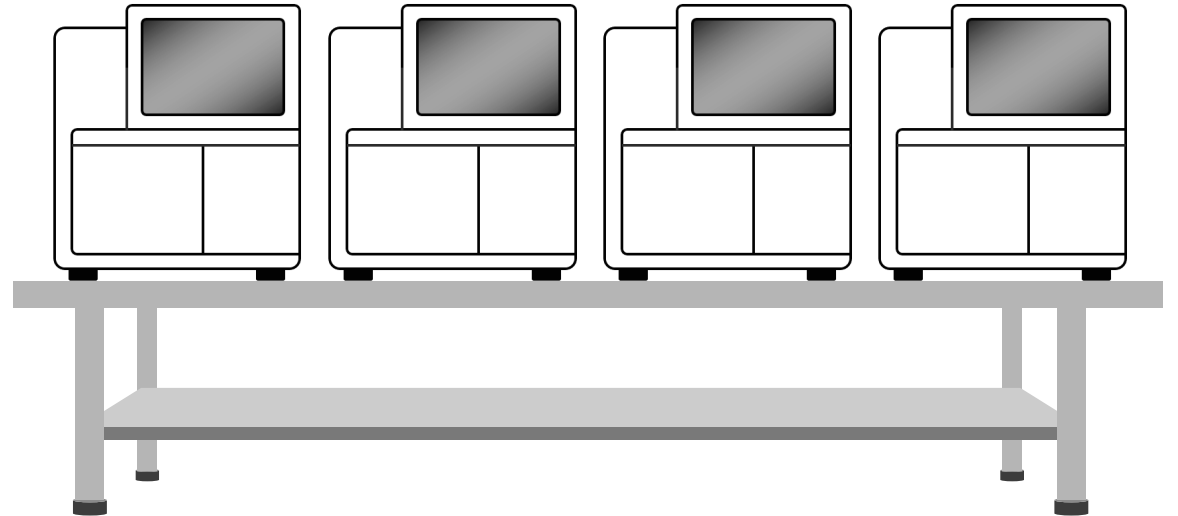


POWER

EQUIVALENT TO 3-4 LEADING BENCHTOP INSTRUMENTS



IV



15–400 Gb run modes

A single G4 will process 4 whole human genomes in 16 hours

SPEED

ENGINEERED FOR SUB 3-MINUTE CYCLE TIMES



Fast SBS chemistry built from the ground up

Advanced high-resolution optical system

Rapid fluidics

Run times 6 –19 hours

FLEXIBILITY

OPERATIONAL AND COST-EFFECTIVE



Scale experiments up or down

Daily runs

4 independent flow cells

16 independent lanes (16 individual samples)

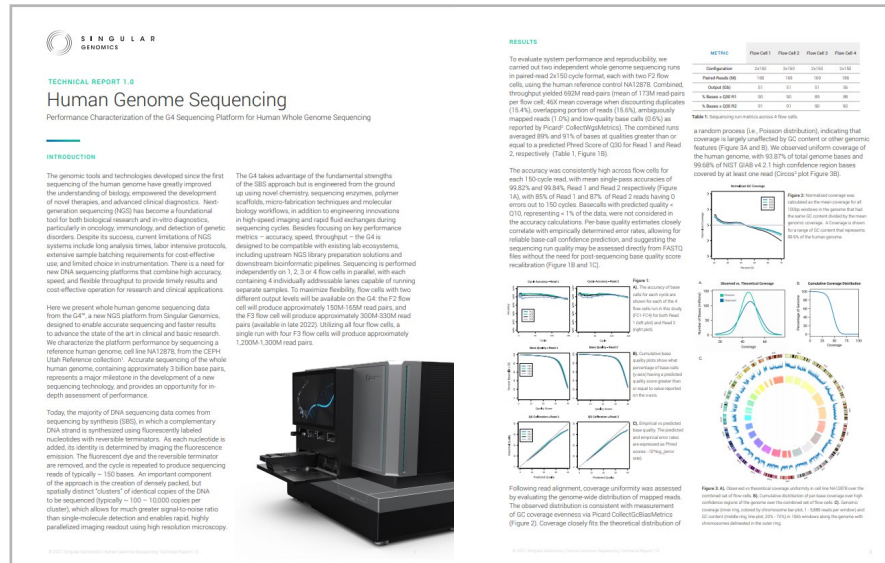


ACCURACY MATCHING INDUSTRY LEADING SPECIFICATIONS

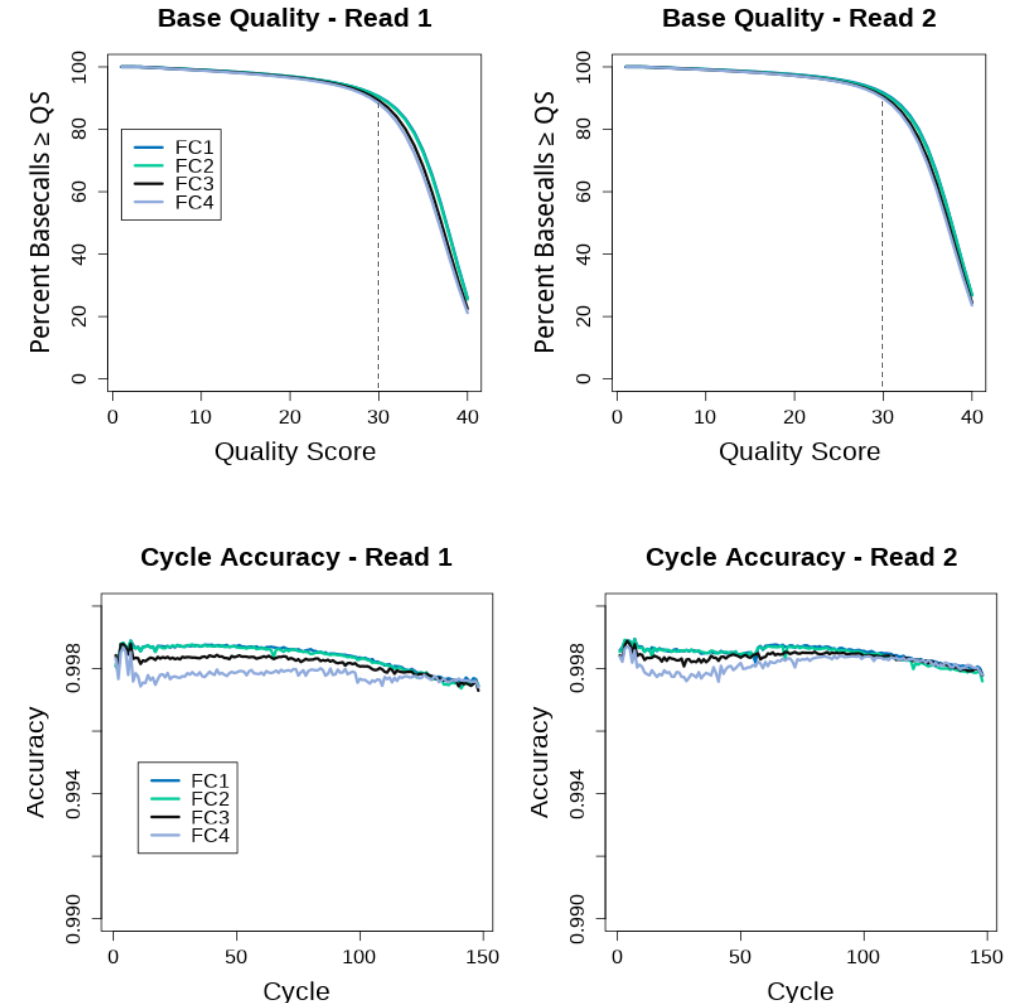
Proprietary 4-color SBS chemistry

Novel method of paired read sequencing

75–90% bases \geq Q30 across all kits



Enlarged images from technical report



SEAMLESS INTEGRATION INTO EXISTING WORKFLOWS

PARTNERING WITH LEADING PROVIDERS

Prepare

Simple run planning and library loading



Sequence

Integrated clustering and sequencing



Analyze

Rapid and accurate analysis



Other Commercial
Informatic Platforms

G4 KIT PERFORMANCE SPECIFICATIONS

READS AND OUTPUT PER FLOW CELL

		F2 FLOW CELL	F3 FLOW CELL
	Number of Reads (clusters)	150–165M	300–330M
Sequencing Output (Base Calls)	1 x 50 bp (50 cycles)	--	15–17 Gb
	2 x 50 bp (100 cycles)	15–17 Gb	30–33 Gb
	2 x 100 bp (200 cycles)	30–33 Gb	60–66 Gb
	2 x 150 bp (300 cycles)	45–50 Gb	90–100 Gb
Run Time	1 x 50 bp (50 cycles)	--	6–8 hrs
	2 x 50 bp (100 cycles)	8–10 hrs	8–10 hrs
	2 x 100 bp (200 cycles)	12–15 hrs	12–15 hrs
	2 x 150 bp (300 cycles)	16–19 hrs	16–19 hrs
Quality	75–90% bases ≥ Q30 across all kits		
Accuracy	99.6–99.9% across all kits		

APPLICATIONS

COVERING A WIDE RANGE OF CUSTOMER NEEDS

	F2 KITS (150M READS)				F3 KITS (300M READS)			
	Run Hours	Samples / Lane	Samples / FC	Samples / Run	Run Hours	Samples / Lane	Samples / FC	Samples / Run
RNA Gene Expression ¹ (2x50 bp, 10M reads)	8–10	3.75	15	60	6–8	7.5	30	120
Single Cell RNA-Seq (130 cycles, 7,500 cells/sample and 20,000 reads/cell)	8–10	0.25	1	4	8–10	0.50	2	8
Total RNA-Seq (2x100 bp, 50M reads)	12–15	0.75	3	12	12–15	1.5	6	24
Exome (2x100 bp, 35Mb at 100x coverage)	12–15	1.25	5	20	12–15	2.75	11	44
Target Enrichment (2x150 bp, 800Kb at 4,000x coverage)	16–19	1.5	6	24	16–19	3	12	48
Human Whole Genome ² (2x150bp, 3Gb at 30x coverage)	–	–	–	–	16–19	0.25	1	4

(1) F2 uses 100 cycle kit; 50 cycle available only on F3 and shows run hours for a 1x50 bp run

(2) F3 kits only for Human Whole Genome

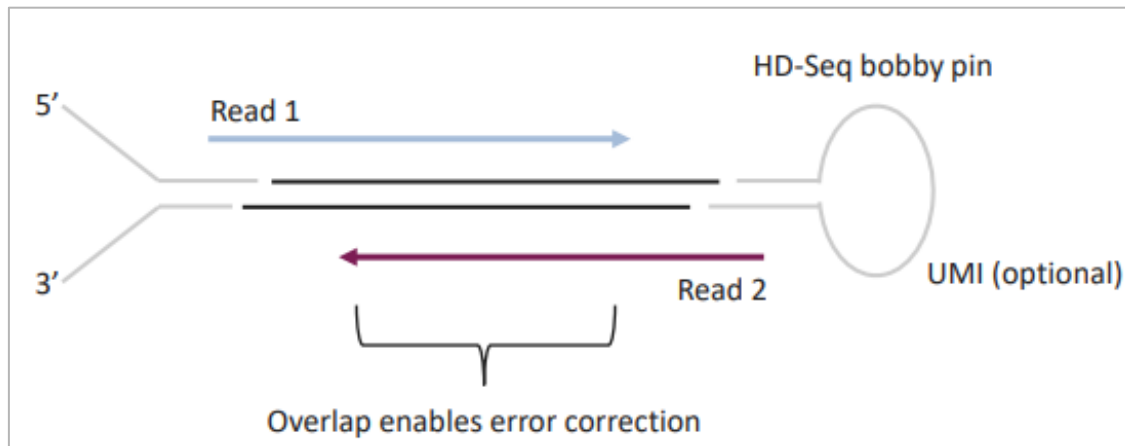
SPECIALIZED APPLICATIONS

NOVEL KITS ENGINEERED TO DRIVE DISCOVERY; EXPECTED LATE 2022

HD-Seq

Q50 accuracy for rare variant detection

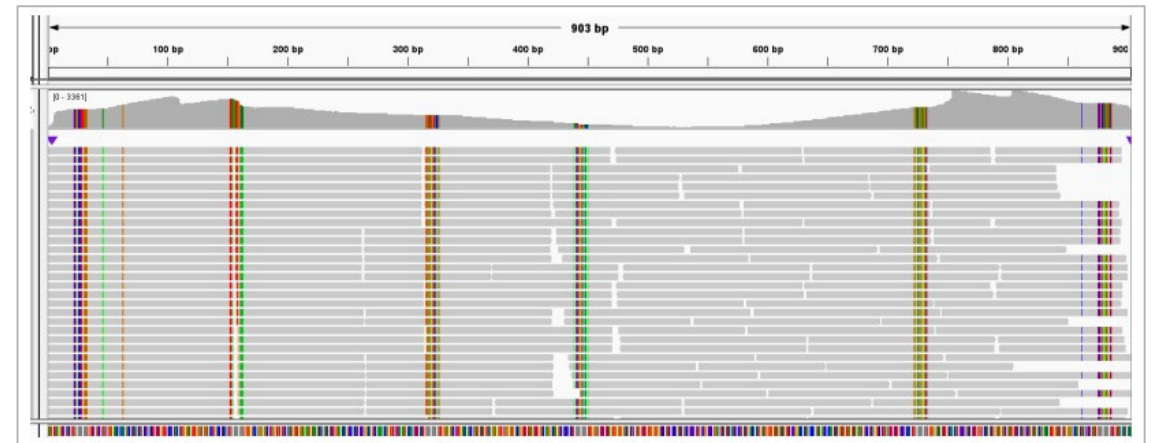
Applications in oncology



XR-Seq

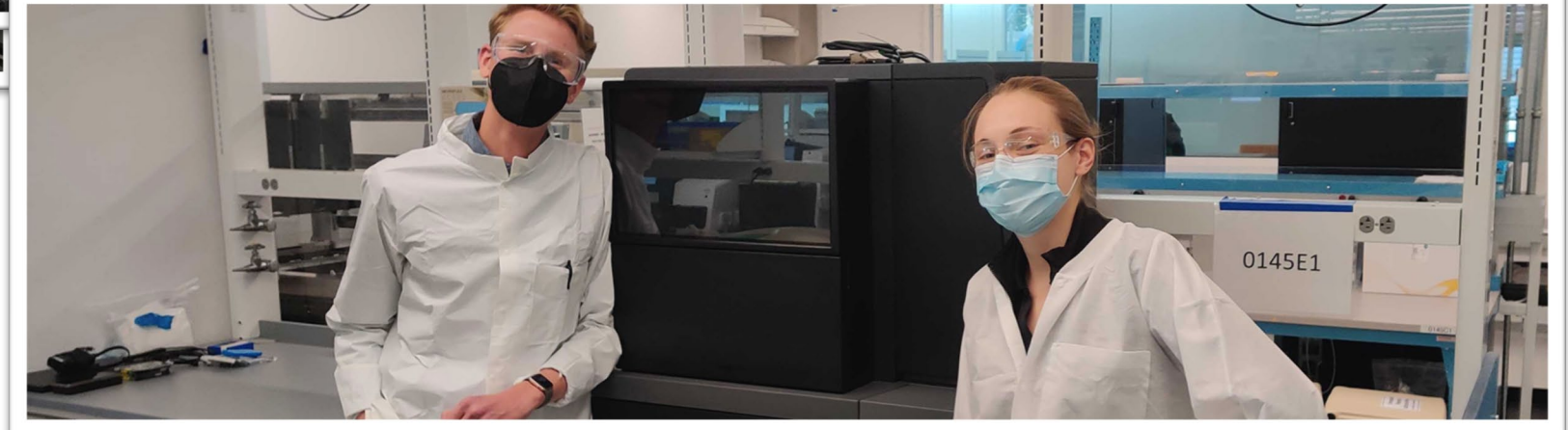
Targeted extended-range sequencing 500–3,000 bp

Applications in immunology and bacterial genomics



EARLY ACCESS PARTNERS

SUCCESSFUL EXECUTION OF FIRST PLACEMENTS



EARLY ACCESS PARTNERS

ACHIEVING TARGET PERFORMANCE

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Lab Type	Academic core	Commercial clinical	Commercial clinical	Government core	Commercial CRO	Commercial clinical
Application	Spatial transcriptomics	Targeted sequencing	Liquid biopsy	Microbial genome sequencing	Liquid biopsy	TBD
On site status	Complete <input checked="" type="checkbox"/>	Complete <input checked="" type="checkbox"/>	Complete <input checked="" type="checkbox"/>	Complete <input checked="" type="checkbox"/>	In process	Pending
Reads per flowcell	136M	>150M	167M	169M	TBD	TBD
Accuracy	99.6%–99.7% (>75% of bases ≥Q30)	99.6%–99.8% (>75% of bases ≥Q30)	99.7%–99.8% (>80% of bases ≥Q30)	99.7%–99.9% (>80% of bases ≥Q30)	TBD	TBD

TARGET CUSTOMER PROFILES

DELIVERING ON A BROAD AND DIVERSE OPPORTUNITY

Strong value proposition for customer segments



Academic
Core

RNA, single cell, targeted
panels, exomes, WGS

Clinical *

Targeted panels, RNA, exomes,
rapid WGS

Emerging
Growth

RNA, single cell, targeted
panels, spatial

POISED FOR STRONG COMMERCIAL ADOPTION

FOCUSED ROLLOUT AND GROWTH STRATEGY



US-focused direct sales force

Strong sales pipeline

Active customer engagement

Deliver value

Global Expansion Strategy:

1

North America

2

EU / UK

3

Rest of World

MULTI-OMICS REIMAGINED

*Harnessing the power of sequencing in
single cell analysis and spatial profiling*

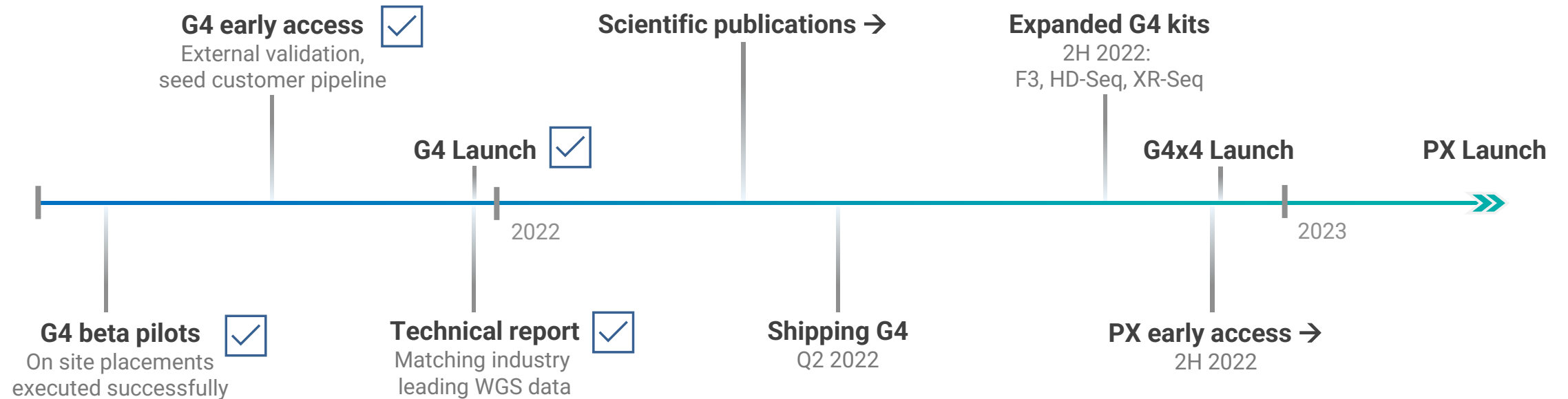
We are busy in the lab...

PX launching 2023



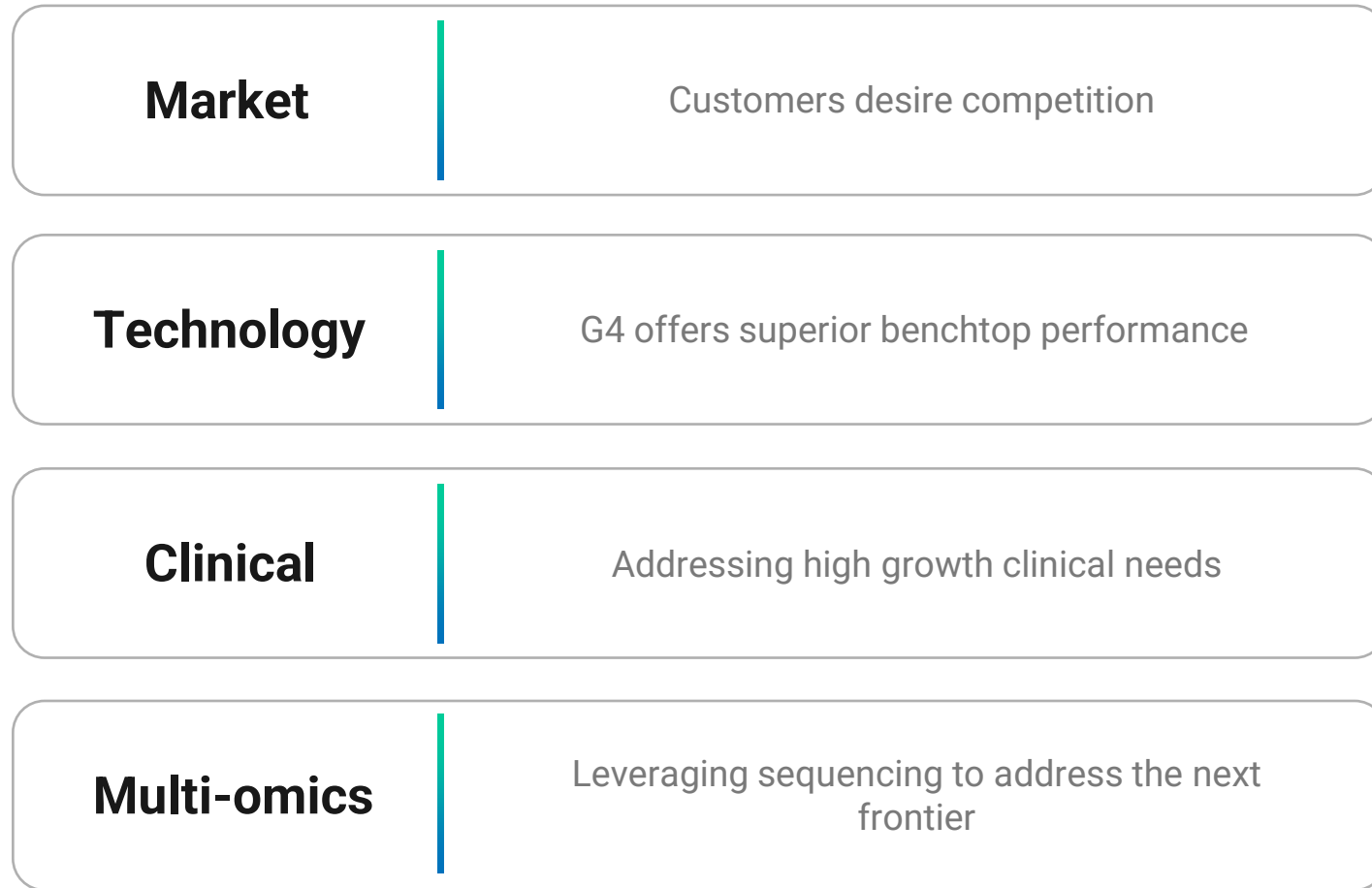
TIMELINE

PATTERN OF EXECUTION, AND KEY UPCOMING MILESTONES



SINGULAR IS UNIQUELY POSITIONED FOR GROWTH

STRONG TAIL WINDS



S I N G U L A R
G E N O M I C S

SINGULAR GENOMICS

