

Capital Markets Day **2023**



19 October 2023

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Vision and growth strategy

Dr Gordon Sanghera

Our vision

To enable the analysis of anything, by anyone, anywhere



Creating value through a new generation of sensing technology & unique commercial strategy

Single molecule sensingplatform

Starting with DNA/RNA and building towards tomorrows multi-omics world



Sustainable agile innovation

Delivering new products, continuous performance upgrades, and intellectual property creation



Substantial market opportunity

\$6.2¹ billion, growing existing opportunity for sequencing in 2022 with potential >\$150bn in future clinical and applied markets

¹ Source: DeciBio.

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Growing user community

Customers in >120 countries doing ground-breaking science

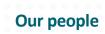
Scaled operations

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4474

In-house manufacturing and global distribution



Experienced, driven leadership enabled by a highly ambitious and talented global team expanded to >1,200



Oxford Nanopore today in numbers

£162.2m

Last 12-month LSRT revenue 4YR LSRT revenue CAGR¹

46%

Revenue accounted for by consumables¹

5

57.6%

LSRT gross margin +14.7pts since FY20 Patents and patent applications

> 2,500

Publications from ONT users

> 8,800



>7,300 active, direct customers

LTM= Last 12 months to 30 June 2023 1 2018 to 2022 All numbers at 30 June 2023 unless stated otherwis

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Medium to long-term targets





Medium term (FY26) Financial Guidance



10-20%

>65%

Underlying LSRT revenue growth

of LSRT revenue from clinical and applied industrial markets

> LSRT gross margin

Adjusted EBITDA breakeven by the end of 2026

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Disruptive innovation

Sample to answer products including TurBOT and TraxION

Key products moved to regulated and applied markets

Protein sensing and small molecule applications

Path to productise voltage sensing



Commercial operations

Expand geographical footprint directly or through channel partners

Establish regional centers of excellence to better engage with our broad user base

Upgrade all digital platforms to offer best in class customer experience

Scale our global operations to meet growing demand



Our journey



1 Channel

Axopatch

1 Nanopore channel ~1 experiment per person per week

> **Foundational years** 2005 - 2009

Foundational IP & licences

- Oxford
- HarvardUCSC
- Texas A&M
- Umass



512 Channels

MinION

512 channels per flow cell

Transformational years 2010 - 2014

Technology beginnings

- Strand sequencing
- PhiX
- E-coli
- AGBT 2012 unveiling
 ASHG Boston 2013 live demo

MinION Access Program (MAP)



128,400 Channels

PromethION P48

2675 channels per flow cell

Commercialisation years 2015 onwards

Platform evolution

- VIB licence for Csaa
- Move to neural network algorithms
- Output on MinION from 500 mb to 50 Gb
- Direct RNA launch

Product

- MinION commercial launch 2015
- GridION commercial launch 2017
- R9 launch 2017
- PromethION Beta 2018-2019
- Flongle Early Access 2019

Company milestones

- US expansion
- Japan establishment
- China establishment



Anyone | anywhere | range

Maturing and innovation

Performance. Low cost disposable flow cells

> **Public years** 2021 onwards

Platform evolution

- Q20+ Simplex Chemistry
 Q30+ Duplex
- Outputs over 100 Gb / PromethION flow cell
- Big ML steps on accuracy
- P24 and P48
- A series compute

Company milestones

- IPO
- Doubling of commercial team

Intellectual property 34 licence agreements



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Future

Future

Voltage chip

- 10.000 100.000 channels
- Potential for 1 hour genomes

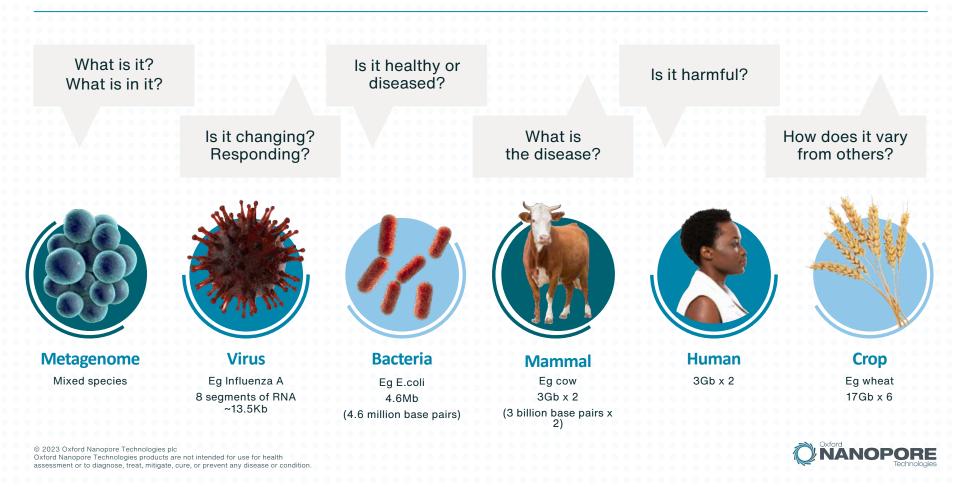
Other analytes

Potential for protein, metabolites

- Product

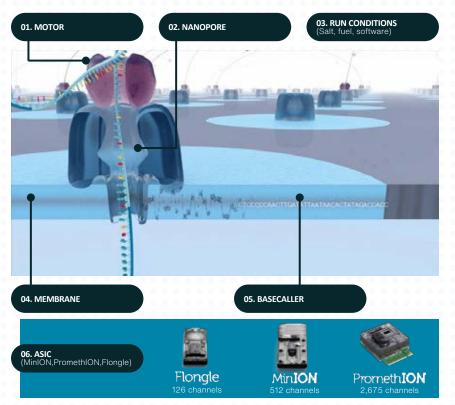
R10 nanopore

DNA and RNA: the source code of all living things



Nanopore sequencing: a highly differentiated platform

6 key components



Deliver 6 key features



Direct /native DNA/RNA sequencing



Sequence any length fragment from short to ultra-long



Real-time data generation



Scalable formats from small hand-held to ultra-high output devices



Cost effective. No capital requirements

Plug-and-play easy to use solutions



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Benefits of the platform create new standards and expectations



Richer Insights

"34% of all disease-causing variation is made up of variants that are larger than a single base-pair substitution"

Evan Eichler, New England Journal of Medicine, 2019



Faster time to result

"The entire workflow...can be performed in less than a working day. This is something unique to nanopore sequencing"

Martignano et al. 2020

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Accessible & affordable

"In the one test, we can search for every known disease-causing repeat expansion sequence... with Nanopore, the device is the size of a stapler, and costs around \$1000, compared with hundreds of thousands needed for other sequencing technologies"

Ira Deveson, et al. 2022



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Our fully scaled platform

From small handheld to flexible high-capacity systems all highly affordable



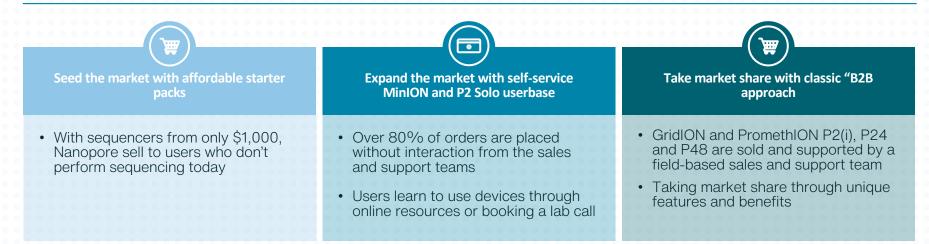


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Unique commercial model drives rapid uptake, supported by lean infrastructure



Our flow cells are our sequencers

Most of the "sequencing hardware" is in the consumable flow cell enabling:

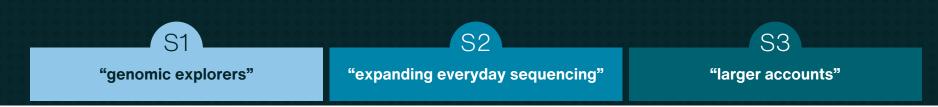
- Simple, affordable sequencing devices
- Rapid platform iterations deployed in consumable upgrades
- Higher margins with 75% of revenue generated by consumable sales





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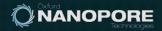
Our customers



Commercial resources to fit customer types

Under \$25,000	\$25,000 - \$250,000	Over \$250,000
4YR REVENUE CAGR: 25%	4YR REVENUE CAGR : 39%	4YR REVENUE CAGR : 62%

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Strong track record of value creation since IPO







32%

2YR LSRT revenue CAGR (H1 21-H1 23)

57.6%

>1,000

£485m

LSRT gross margin (+650bps HY21-HY23)

> New customers (since FY21)

Maintained strong balance sheet

Product launches including P2i and P2 Solo

Disruptive innovation

Q20+ chemistry launch

Dorado for accelerated basecalling

Short Fragment Mode



Commercial operations

Doubled global commercial team

Key, senior hires to drive growth in key markets and S3 customer group

Established trading in Singapore, Japan, Australia, Italy, and Canada

12 new strategic collaborations, including bioMerieux and Mayo



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Accelerating commercial execution for LSRT

AMERICAS

- Delivered 72% underlying growth in H1 23 reflecting increased demand for our technology
- New distribution hub improving product delivery times
- Investment in Canada resource and local entity to better support growing user base
- US customer excellence centre planned to support rapid growth

EMEA¹

- Delivered 57% underlying growth in H1 23 as we see increased demand for our technology
- New Customer excellence centre planned in Dubai to support rapid growth in the Middle East
- Investment in improved routes to India as technology adoption grows
- Increased support in African region with commercial team expansion

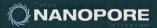
APAC

- Delivered 23% underlying growth in H1 23 as we see increased demand for our technology
- New distribution hub in Singapore to better serve the region
- New distribution hub in Australia to serve large local user base

INVESTMENT IN UNDERLYING SYSTEMS AND DIGITAL PLATFORM TO TRANSFORM CUSTOMER EXPERIENCE

¹Includes India

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Scaling our manufacturing operations

Meeting increasing demand whilst focusing on product robustness and reproducibility

EXCELLENCE IN CONSUMABLE FLOW CELL MANUFACTURING

SCALING LIBRARY PREPARATION MANUFACTURING

Innovation

Continue to innovate manufacturing methods

Coupled with continuous improvements to existing processes



Scale-up

New capabilities and automation established to scale library preparation production



Reproducibility

Focus on customer performance delivering in field improvements in output and robustness estation (

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Quality

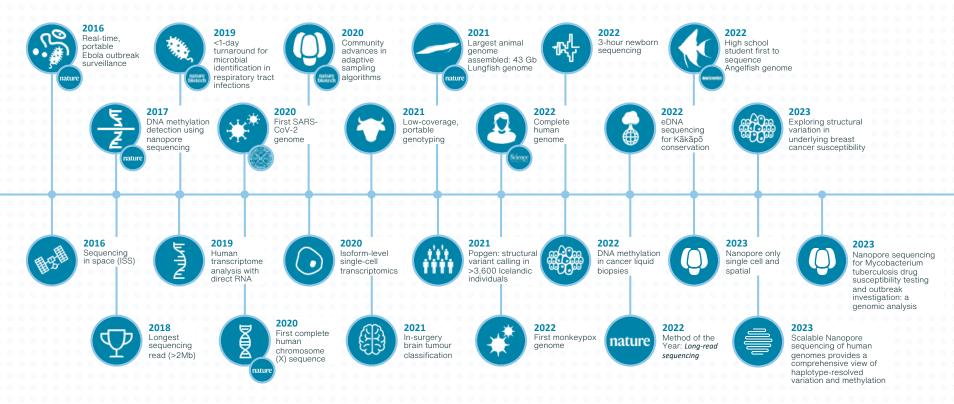
Expanding QC capabilities across flow cells, reagents and devices with path towards regulatory markets





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Key publications drive customer adoption



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Core focus areas to drive revenues

Priority research applications



Human

High Throughput WGS at Scale from High-N-to-PopGen



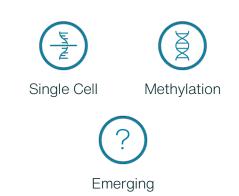
Cancer Cancer Research & Immuno-Oncology Applications



Infectious

Viral, Microbial, Infectious & Synthetic Genomes

Technology Applications



Industry Sectors



BioPharma

Clinical Labs



Commercial Channels





Distributors



CSPs

Direct

•

Core Labs

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Substantial and growing market opportunity: DNA/RNA sequencing

\$6.2 billion¹ in 2022, expected CAGR 2022-25 ~15%¹ Substantial opportunity to penetrate, reshape and expand

RESEARCH Biomedical research Non-human research





\$3.1bn	in 2022 ¹

Majority of customers today

CLINICAL & APPLIED Clinical research, Clinical labs, Industrial

Foundation for





\$3.1bn in 20221

Rapidly emerging: huge potential for growth

Oxford Nanopore is <u>uniquely</u> <u>positioned</u> to unlock long term future potential clinical and applied market opportunities >\$150 billion in 2032



Clinical opportunities Eg. Human genetics, cancer, infectious disease



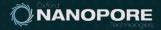
Applied Industrial Eg. Agriculture, food, bioprocessing, environment

Life Science Research Tools LSRT

Clinical Diagnostics and Applied —

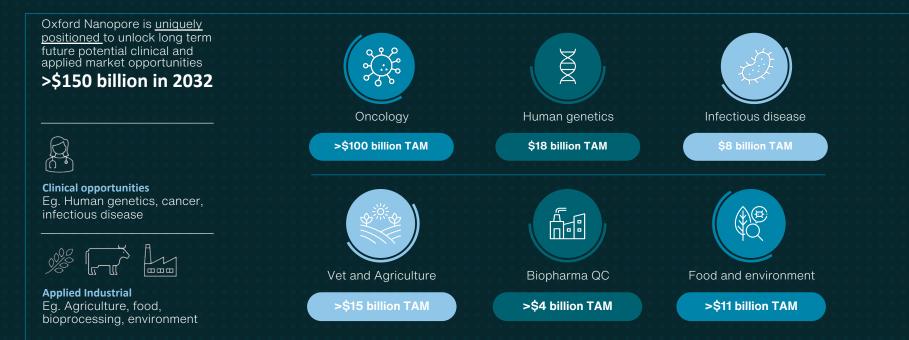
¹Source:DeciBio. Sequencing consumables and devices. Excludes services

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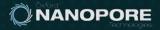
Substantial and growing market opportunity: DNA/RNA sequencing

Substantial opportunity to penetrate, reshape and expand



¹Source:DeciBio. Sequencing consumables and devices. Excludes services

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In the same way computing evolved...

Distributed, real time networks have enabled **a profound shift in information and insights**







... acquiring biological information is also shifting from mainframe to distributed

DNA sequencing technology can now be real-time, accessible and high performance, in small formats



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We draw on a broad universe of potential partners and collaborators





Key takeaways

01

Large market opportunity; early in penetration of \$150bn market opportunity

02

Disruptive technology platform underpinned by robust innovation pipeline

03

Proven track record of value creation and outperformance

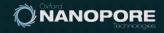
04

Experienced, global team and operational infrastructure built to scale

05

Financial targets reflect focus on sustaining highgrowth while driving margins and returns

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Innovation fuels growth

Rosemary Sinclair Dokos



Rosemary Sinclair Dokos

© 2023 Oxford Nanopore Technologies plc Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condition. 10 years' experience at Oxford Nanopore in the senior leadership team, connecting innovation with operations and commercialisation.

>>

>>

Previous experience in Product Management, Sales, Marketing, and Business Development for large global life science distribution leader serving all industry segments.

Passion for combining science and technology with customers' needs, commercialisation strategies and shaping the company for its next phases of growth.

Rosemary currently leads the Product Management, Marketing, Regulated Product Development, and Digital Microfluidics development groups



Tenacious and tenured innovation team



Clive Brown CTIPO



James Clarke Head of Genome Foundry



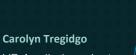
Ant Jones VP Platform & Engineering



Graham Hall VP Sequencing



development



VP Applied product development



SVP Product Management & Marketing



VP Development



Roger Pettett VP Informatics













Martyn Andrews **VP** Intellectual Property



445 employees

Platform, Engineering, Pore, Enzyme, Chemistry, Software, Machine Learning/AI, Product Integration, Sample Technologies, Automation, Product Management



Work in close collaboration with:

- Academic partners driving novel breakthroughs in nanopore science
- Industry leaders in electronics, compute and novel algorithms
- Developer community as new products are launched
- Customers as we deploy their feedback into product roadmap



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Creating our highly differentiated platform

(Salt, fuel, software) 01. MOTOR 02. NANOPORE 03. RUN CONDITIONS ALLER 05. BASECALLER 04. MEMBRANE 06. ASIC 2.675 channels 126 channels 512 channels

Building a strong licence & IP position



- ONT-assigned & in-licensed published pending applications: 754
- ONT-assigned & in-licensed granted patents currently in force: 2,079
- ONT-assigned & in-licensed published pending apps & granted patents with initial filing date between 2016-2022: 1,081
- ONT-assigned & in-licensed patents granted between 2016-2022: 1,655



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Innovating on 6 key components

If you think adventure is dangerous, try routine; <u>it is lethal"</u>

Paulo Coelho

Innovation fuels growth

Platform deployed in new applications such as protein and small molecule sensing

> Existing Technology entering new markets e.g. Applied, Clinical, Consumer

> > Existing Technology expanding and taking share in current market



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We're at the cusp of the genomics revolution



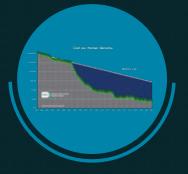
1869 - 1975 DNA discovery to sequencing

From Friedrich Miescher, Crick, Watson, Franklin to Sanger Sequencing.



1990 – 2003 First <u>draft</u> human genome assembly

A multicounty and \$ multibillion collaboration to sequence the first human genome.



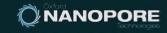
2007 – 2017 Scaling genomics

The journey from \$1billion to under \$1,000 for a human genome.



2023 The era of true whole genomes begins

With nanopore scaling these complete genomes to between \$345 - \$690.



We can finally uncover all areas of the genome

Small variants

SNPs and INDELs well characterised by existing technology. E.g. Sickle cell disease and cystic fibrosis

➤ Larger, more complex variants

Structural variants including Copy Number Variants, Repeats, Expansions only fully visible with the advent of long reads. E.g. alzheimer's, parkinsons

Epigenetics

Methylation, highly involved in complex disease e.g. cancer, is only partially visible through modified chemistries or algorithmic interpretations is now unlocked with native nanopore sensing

Dark genome

Medically important areas of the genome that have only recently been uncovered and only visible through native DNA or RNA sequencing



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And what we're missing matters



34% of all disease-causing variation is made up of variants that are larger than a single base-pair substitution"

> Evan E. Eichler, July 2019, N Engl J Med 2019;381:64-74., DOI: 10.1056/NEJMra1809315



Today's paradigm: Sequencing has a high barrier to entry

ord Na



*Novaseq: \$985K | NovaSeq x: \$1.25M



Costly annual services contracts covering support and necessary routine device servicing



Large consumable commitments to achieve competitive prices per



High-end lab and advanced expertise to run devices

High throughput sequencing centres operating large programmes to deliver low-cost genomes at scale

Medium size users operate sequencing routinely by batching samples to achieve cost efficiencies

Other biologists send their samples to cores or service provider and wait for their results





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How does Oxford Nanopore deploy Disruptive Innovation?



Enabling Technology

An invention or innovation that makes a product more affordable and accessible to a wider population.



Innovative Business Model

A business model that targets non consumers (new customers who previously did not buy products or services in a given market).



Coherent Value Network

A network in which suppliers, partners, distributors, and customers are each better off when the disruptive technology prospers.



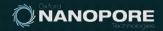
Structure of the session





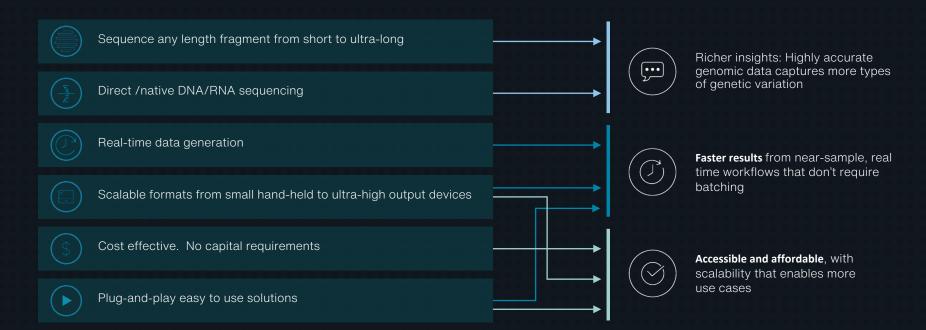
Why are customers choosing Oxford Nanopore today?

Our platform

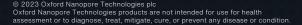


Key features and benefits

Features of nanopore sequencing



Benefits





Richer insights: Sequence any fragment length

From cell free to ultra-long DNA



Cell free DNA



Amplicon material



on ial



Viral genomes

Biology comes in all shapes and sizes.

Our platform can sequence any fragment length, from 20 bases to over 4 million bases.

This was enabled by a software setting users select at the start of a run



DNA







Genes & Chromosomes

Plasmid /

BAC / AAV

Animal genomes



Plant genomes

Richer insights: Sequence any fragment length

From cell free to ultra-long DNA



Cell free DNA



Amplicon material



Plasmid / BAC / AAV



Viral genomes



Bacterial genomes



Genes & Chromosomes



Animal genomes



Plant genomes

Run until 🙂		Options
Run limit:	72 hours duration	
Flow cell data target:	None set	
Minimum read length 💿		
20 tu	200 tp	1900 to
0		C
Adaptive sampling 🕥		
Enrich or depiete set	puences	
Barcode balancing		Beta
 Advanced options 		





₹. SNVs and INDELs Structural Variation Copy Number Variants **Repeat Expansions** Large Insertions and deletions Inversions Duplications **Full Methylation & modifications** ММ (5mC, 5hmC, 6mA, 4mC*, all context) ----Phasing

More Biology from every read

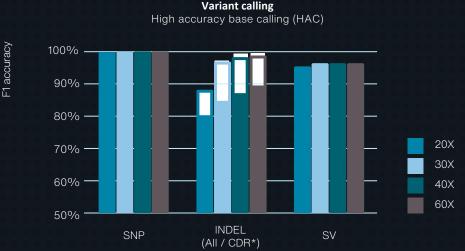
* Coming soon

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Assembly

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With high performance variant detection

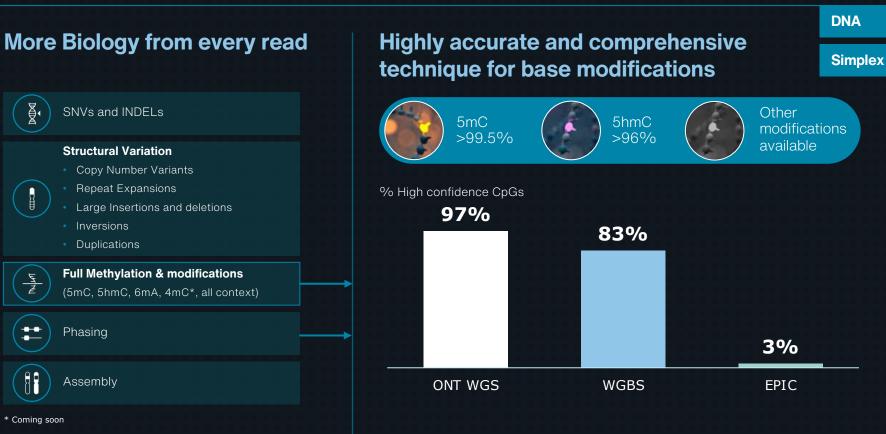


'Using a single PromethION Flow Cell, we can detect SNPs with F1-score better than...short-read sequencing'



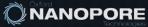
DNA

Simplex



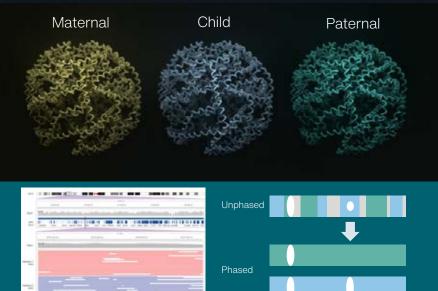
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Phasing variants to better understand gene origin and function.



Homozygous Heterozygous

DNA

Simplex

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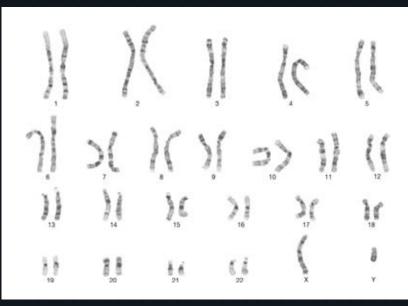


More Biology from every read

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What is a "T2T" Assembly? Chromosomes under a microscope:



DNA

Duplex

More Biology from every read



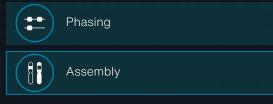
МИ

SNVs and INDELs

Structural Variation

- Copy Number Variants
- Repeat Expansions
- Large Insertions and deletions
- Inversions
- Duplications

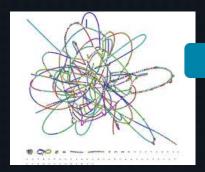
Full Methylation & modifications (5mC, 5hmC, 6mA, 4mC*, all context)



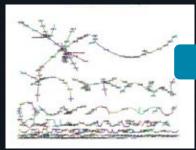
* Coming soon

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What technology has been able to deliver







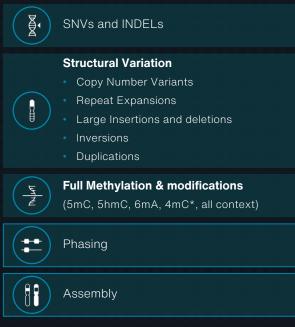
Medium length, "high accuracy "reads



DNA

Duplex

More Biology from every read

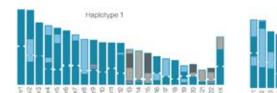


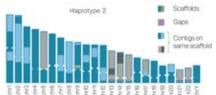
* Coming soon

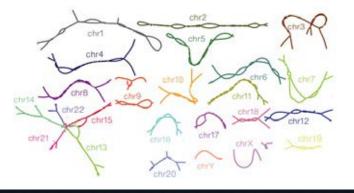
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The T2T era: Fully phased, Chromosome level assemblies on nanopore only





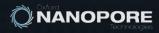


Q42 Assembly accuracy

>135 Mb

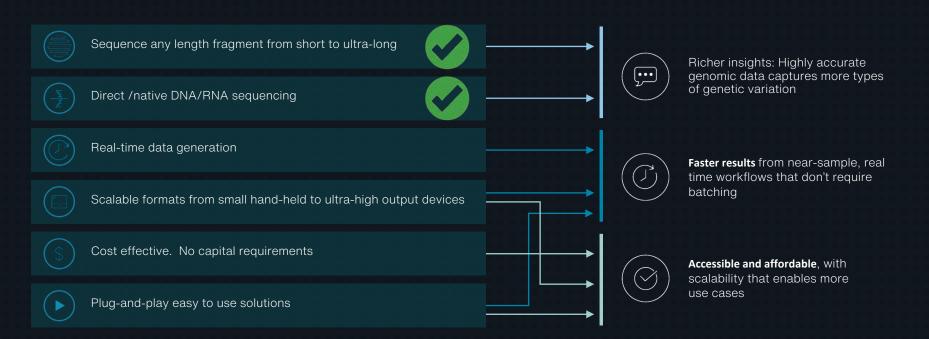
DNA

Duplex



Key features and benefits

Features of nanopore sequencing



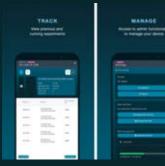
Benefits



Real-time data generation: Faster Results

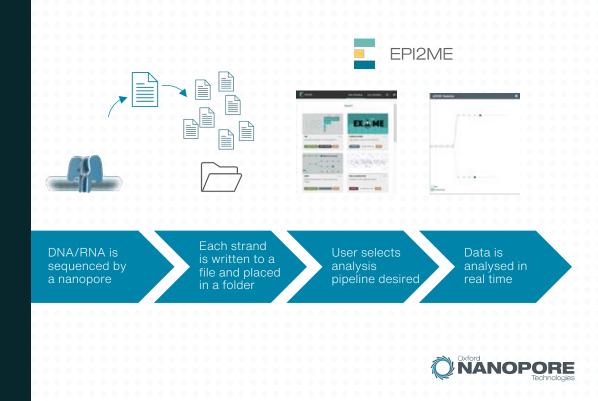
Track your run live





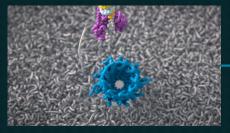
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Analyse reads as they're generated



Real-time data generation: Enabling Adaptive Sampling

Upload reference file to MinKNOW[™]

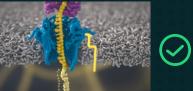


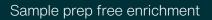
Strand approaches nanopore and sequencing starts

Not region of interest? Strand rejected

Real-time basecalling and alignment

Region of interest? Strand allowed to continue sequencing

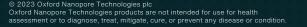


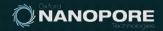


Simply upload a target region reference into MinKNOW and start sequencing

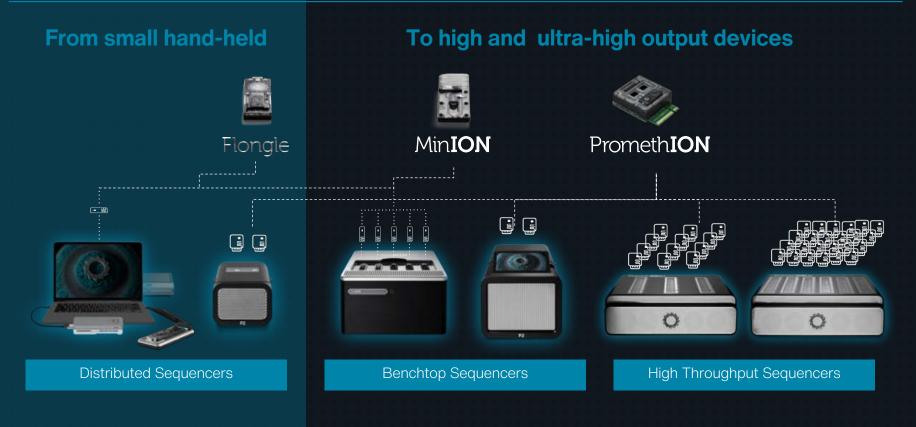
Retain SV and methylation

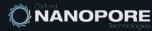
Apply multiplexing to reduce price per sample yet retain high value information



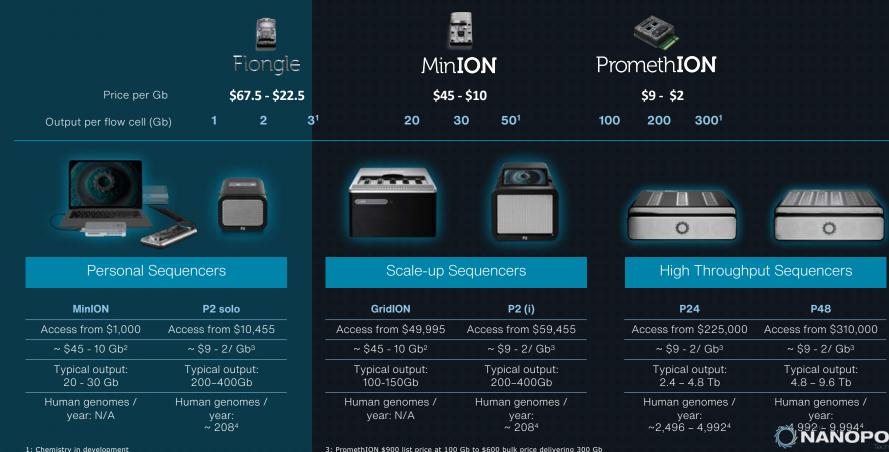


Scalable formats





Cost effective. No capital requirements



2: MinION \$900 list price at 20 Gb to \$500 bulk price delivering 50 Gb

3: PromethION \$900 list price at 100 Gb to \$600 bulk price delivering 300 Gb 4: 2 runs per week, 52 weeks per year

Cost effective. No capital requirements

Computing on laptop or onboard



PromethION A100



Highly accelerated ML/AI algorithms with latest software release

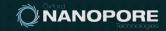


0

MinION: Apple M1 max or M2 max Real-time Q20 basecalling of 1 MinION flow cell

GridION: GV100 Real-time Q20 basecalling of 5 MinION flow cells

PromethION : A Series Real-time Q20 basecalling of 36 PromethION flow cells... and more coming soon



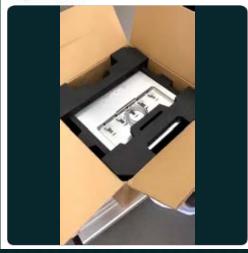
Plug and play, easy to use solutions

....

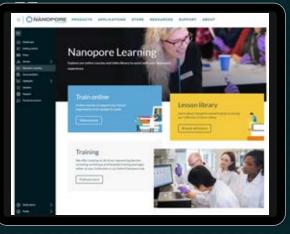
Easy, quick device set up

Ramaciotti Centre for Genomics

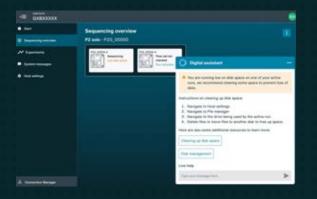
Our dnanopore GridION arrived today, Installation was a breezel First samples to be sequenced will be some microbes from a chilly continent, #longeead #nanopore

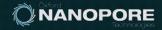


Assisted online or in person training



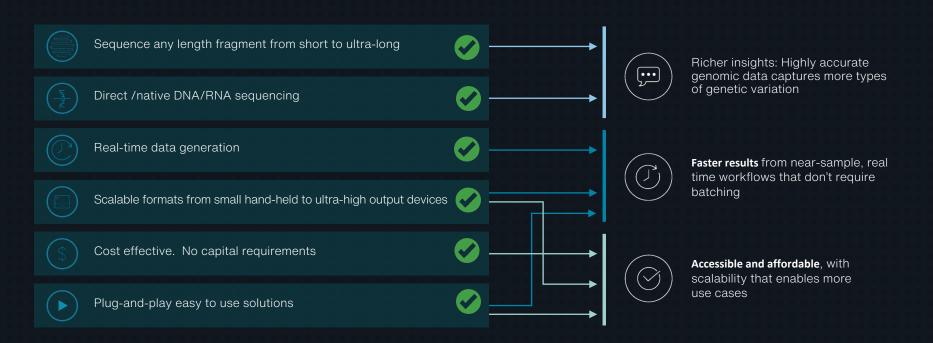
Next-gen on board troubleshooting in development





Key features and benefits

Features of nanopore sequencing

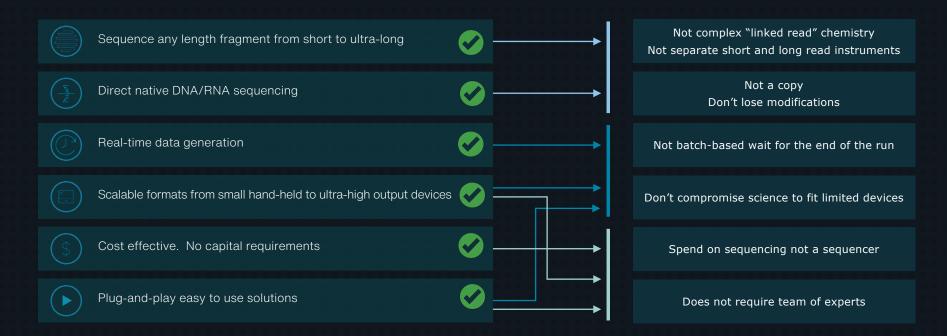


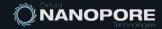
Benefits



Key features and benefits

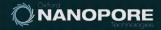
Features of nanopore sequencing vs other technologies



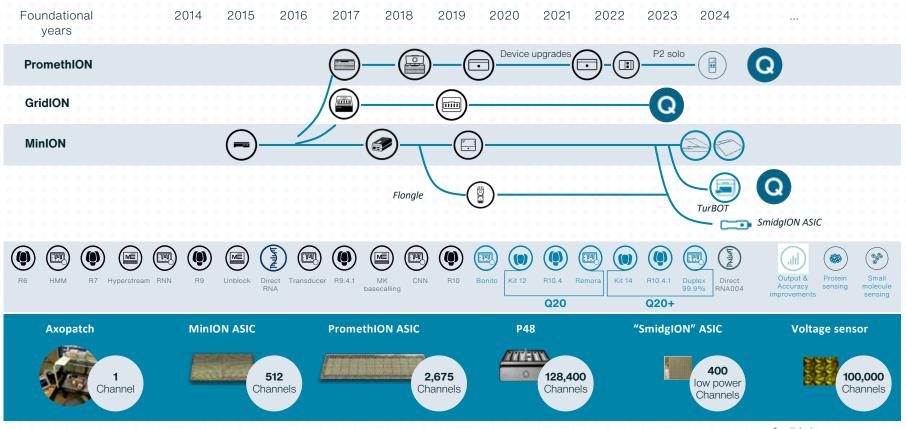


Why are customers choosing Oxford Nanopore today?

Our performance



Track record of delivering new and improved products





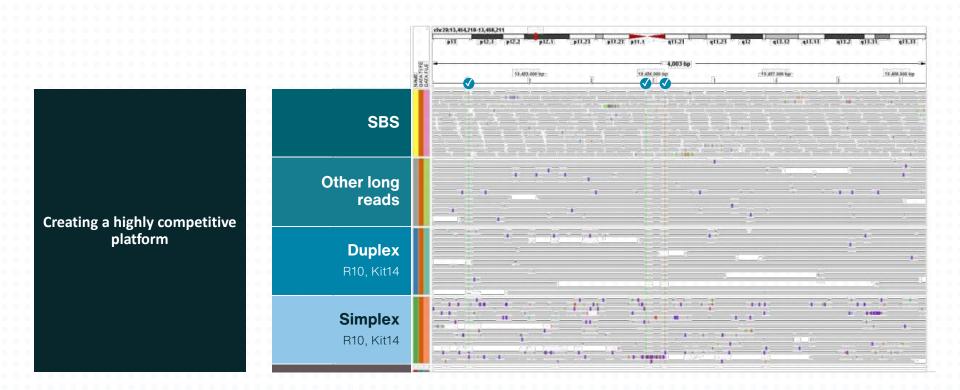
Track record of driving accuracy enhancements



SIMPLEX: 99%+

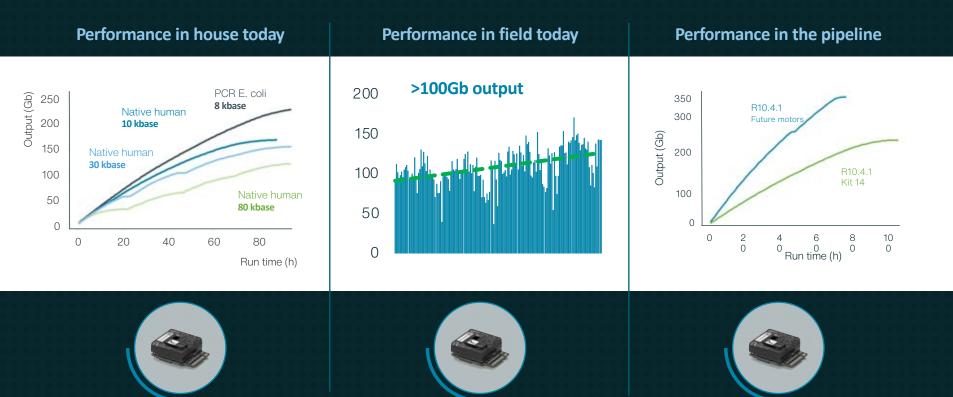


Track record of driving accuracy enhancements





Track record of driving *output* enhancements: Simplex





Driving down cost per genome with every step change

Prometh**ION**





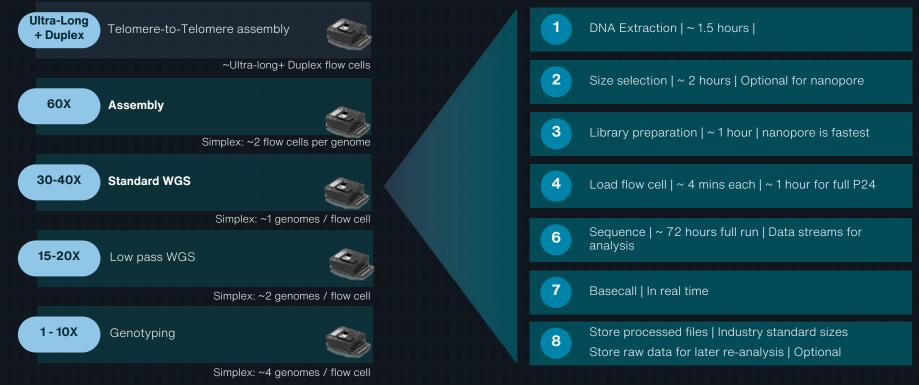
Gigabase / flowcell

*Assumes 30x WHG **Future chemistries (assume 30x WHG) Enzyme speed and blocking are two key drivers of output, both highly active R&D programmes



The approach to human genomes

Value at every depth of coverage

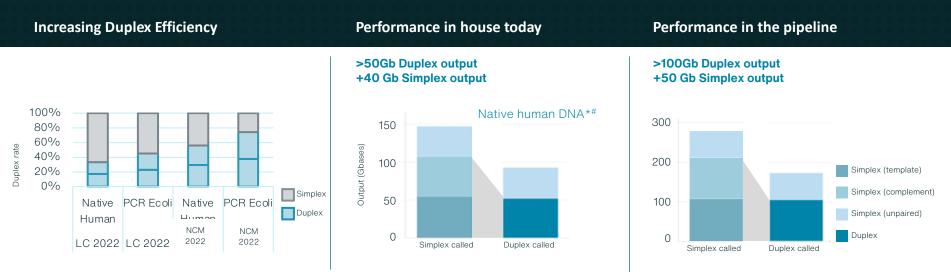


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Human WGS protocol with Kit 14 on nanopore community here



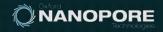
Track record of driving performance enhancements: Duplex Output





Why are customers choosing Oxford Nanopore today?

Our Products



LSRT core commercial values



0000

Accessible technology & low capital



Pricing is transparent



Upgrades included



Community feedback into product development



Delivering a complete product portfolio





Sample preparation kits



Broad range enabling a broad application space

Ligation kits dedicated to best performance. Prep time ~ 60 mins | Input ~ 1ug

Rapid kits dedicated to speed and ease of use. Prep time ~ 10 mins | Input ~ 100ng

PCR range dedicated to low input samples Prep time ~ 15 mins + PCR | Input ~ 1-5ng

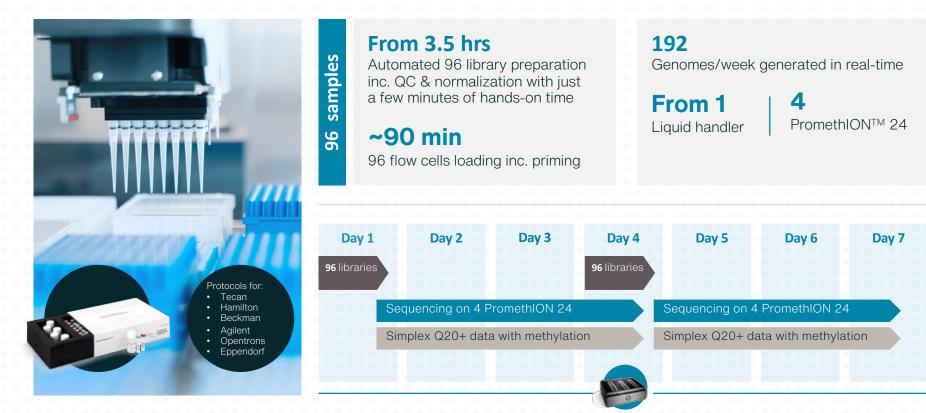
cDNA range dedicated to "classic RNASeq" methods Prep time ~ 3.5 Hrs + PCR | Input ~ 200ng total RNA

Direct RNA range dedicated to novel RNA methods Prep time ~ 1.5 Hrs | Input ~ 50 ng poly(A)+ RNA

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Automation ready





Devices available through starter pack models



Personal Sequencers

MinION	P2 solo	
Access from \$1,000	Access from \$10,455	
~ \$45 - 10 Gb¹	~ \$9 - 2/ Gb²	
Typical output: 20 - 30 Gb	Typical output: 200-400Gb	
Human genomes / year: N/A	Human genomes / year: ~ 2083	



Scale-up Sequencers

GridION	P2 (i)	
Access from \$49,995	Access from \$59,455	
~ \$45 - 10 Gb¹	~ \$9 - 2/ Gb²	
Typical output: 100-150Gb	Typical output: 200–400Gb	
Human genomes / year: N/A	Human genomes / year: ~ 208³	





High Throughput Sequencers

P24	P48	
Access from \$225,000	Access from \$310,000	
~ \$9 - 2/ Gb ²	~ \$9 - 2/ Gb ²	
Typical output: 2.4 – 4.8 Tb	Typical output: 4.8 – 9.6 Tb	
Human genomes / year: ~2,496 - 4,992 ³	Human genomes / year: ~ 4,992 - 9,994 ³	



1: MinION \$900 list price at 20 Gb to \$500 bulk price delivering 50 Gb 2: PromethION \$900 list price at 100 Gb to \$600 bulk price delivering 300 Gb 3: 2 runs per week, 52 weeks per year

Flow cells

gle	Price per flow cell	Pack Size	Pack price
Flongle	\$67.5	12	\$810
z	\$900	1	\$900
Min ION	\$790	12	\$9,480
Mi	\$500	48	\$24,000
48	\$900	4	\$3,600 {NEW}
	\$820	32	26,240 {NEW}
NO	\$785	96	\$75,360 {NEW}
Prometh ION 48	\$745	192	\$143,040
	\$680	512	\$348,160
	\$630	1,024	\$645,120
	\$600	2,880	\$1,728,000

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Priced to enable science at any scale



Run small experiments for under \$100 with Flongle

Power through small genomes or targeted applications with MinION

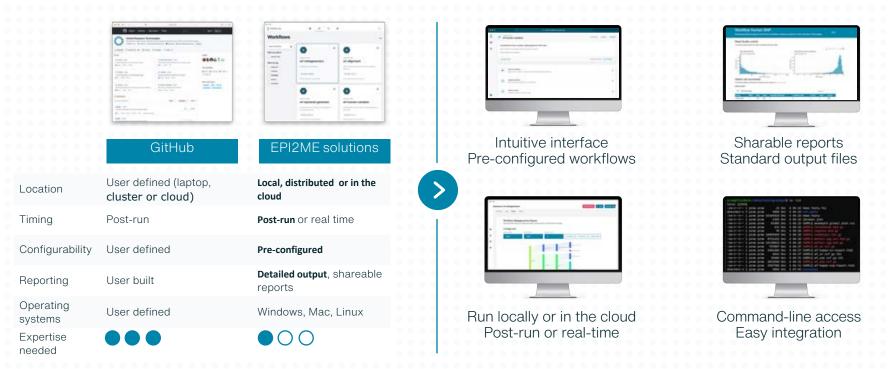


Human genomes for under \$1,000 on a P2 Solo

Higher output chemistries in development ** \$785 plus \$99.83 for library preparation is \$884.93

Secondary data analysis

"Open-source" analysis pipelines become packaged for ease of use

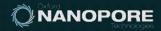


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What's next for our approach to product offering?

Sample to answer



Delivering a complete product portfolio



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Sample to answer

End-to-end workflows

Combining sample with informatics to deliver complete workflows

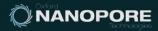




Protocol Library over 86 step-by-step protocols Analysis pipelines over 15 data analysis pipelines supported and growing



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Sample to answer

TurBOT

Benchtop device capable of sample extraction, library prep, sequencing, and data analysis





Register your interest register.nanoporetech.com/TurBOT

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Fully hands off nanopore sequencing Extract, prepare, sequence, analyse all-in-one benchtop device



Scalable and intuitive

Multiplex up to 48 samples with pre-programmed, sample-to-answer workflows



Flexibility to meet your needs MinION[™] or PromethION[™] 2 Solo on board



Simple data analysis Onboard compute and EPI2ME[™] analysis workflows







Sample to answer

TraxION

Hand-held device capable of sample extraction, library prep, sequencing, and data analysis





Register your interest register.nanoporetech.com/TurBOT

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Fully hands off nanopore sequencing Extract, prepare, sequence, analyse all-in-one small device



Integrated with "SmidgION" ASIC For low power, rapid sequencing insights



Affordable and accessible

Bring AMR detection and other complex applications to where it's most needed



Plug-and-play

Plug in and drive with a compute that includes EPI2ME[™] analysis workflows



Photo credits: SACIDS Foundation for One Health



Assay bundles

Model well tested with Midnight sequencing during pandemic



Sold as price per "tests" in store

⊘ Kit 1 with primers and polymerase

- ⊘ Kit 2 with library preparation reagents
- ⊘ Correct number of flow cells for supplied reactions

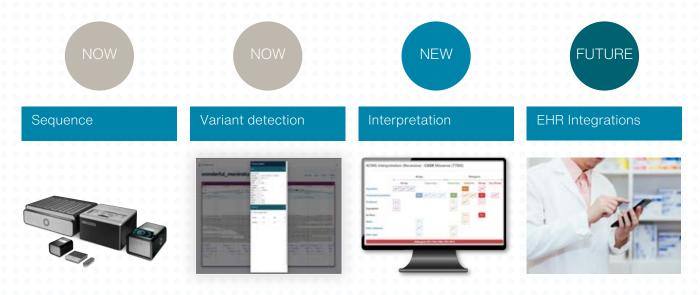
NANOPÓ

⊘ Onboard COVID analysis pipeline

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Towards 3rd party integrations

Going from variant detection to interpretation



Third party integrations are being constructed ready for imminent beta testing programme

EPI2ME

Will initiate Oxford Nanopores Analysis software subscription for applied markets (research continues to be served as part of product bundles)

Subscription models being trialed initially



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Preparing our products to enter new markets



The benefits of Oxford Nanopore are clear

Richer insights

Highly accurate genomic data captures all types of genetic variation [for truly whole genomes]

Faster results from near-sample, real time workflows that don't require batching

Accessible and affordable, with scalability that enables more use cases

-

NANOPORE Technologies

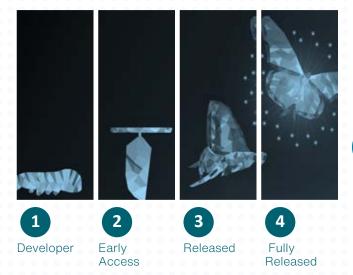
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We continue to innovate in LSRT, and lock down in applied

>

From rapid innovation to rapid, applied insights

Life Science Research Products



 Clearly defined, visible product update pathway and implementation support

ISO9001 with clear pathway to increase to 13485 by no later than 2026

PromethION Q currently in development

Q

Applied market and partner products



Locked for specific application

Software & consumable version support for 24 months +

Heavily developed with partner assays in mind

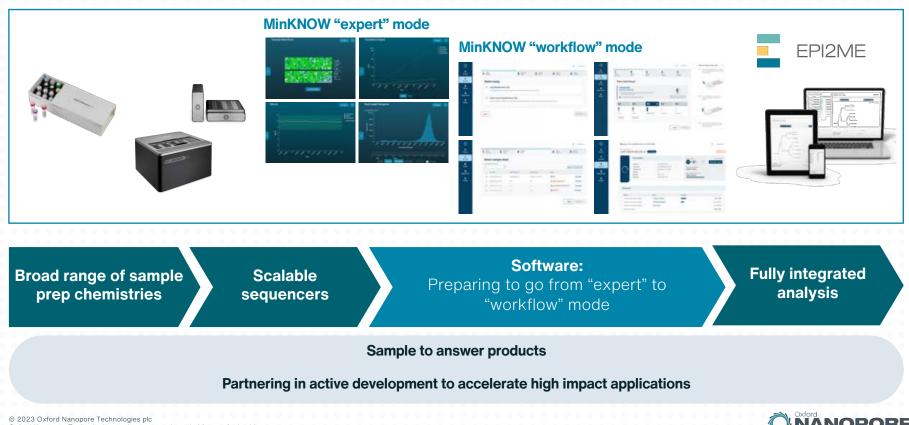


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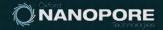
Our building blocks are in place



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Expanding the application of our platform for future revenue

Beyond DNA and RNA Sequencing



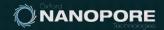
...We continue to innovate

In development





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Clear demonstration that our platform has a lot more to give



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Enzyme-less nanopore detection of post-translational modifications within long polypeptides

Nata Marte Basiandres Wei Impar Lat. Stochasia Road. Marcelet, Romert, Roll. Senai Garcia Marten. tails firms ¹⁰⁰ & bisson Ravins ¹⁰⁰

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· Data Availability Distances

Abstract

Detection of Single Peptide with Only One Amino Acid Modification via Electronic

Long Zharys, * Mitanda L, Gaestine, * Lakined Jenerember, ¹ Michael Jonden, * Julian Juliana, * Michael, Burry, *

Fingerprinting Using Reengineered Durable Channel of Phi29 DNA Packaging Motor

Protoin post-translational modification (PTN) is reacial to modulate protein interactions and activity in various biological processes. Enserting evidence has revealed PTM patterns participate in the pathology onset and progression of various diseases. Current PTM identification relies mainly on many spectrometry-based approaches that limit the assessments to the entire protein population in question. Here we report a label-free method for the detection of the single peptide with only one mains and modification via electronic fingerprinting using reengineered durable channel of ph/24 INA packaging motor, which bears the deletion of 25-amina acids (AA) at the C-terminois or 17-AA at the internal loop of the channel. The mutant channels were used to detect propionylation modification via single-molecule fingerprinting in either the traditional parch-clamp or the modern portable MinIOS¹⁰ Flow Cell system. Up to 2000 channels are available in the MinION¹⁰ Flow Cells. The current signatures and deall time of individual channels were identified. Peptides with only one propiosylation were differentiated. Caritingly, identification of single or multiple anddications on the MisJON" pottom was achieved. The reconstil application of PTM differentiation on the MinION** system represents a significant advance towards developing a label-free and highthroughput detection platform utilizing nanoperev for clinical diagnosis based on PTM.

Revwords, Engineered channels, Protein port-translational modifications, Lyning preprint/lation, DNA-Parkaging Nammonie, Nanopore assaing, MinION¹⁴ Flow Cell

nature + pature methods + research highlights + wride Meses to analyse cellular proteins and Number of October 2021 would uncover substantial informatio technology, which underpins long ou length protectorie identification. We Nanopore-detectable reporter proteins

nanopore for the non-enzymatic capt America South 111 polycerptides of more than \$200 yeak transport drough the easespore, with Tatlet Instein. No. 1149 (2021) | On the while by unit from either the C or N termina 1987 Assessmill & Alasanti Menter

concentrations accelerate the analysis manupore, we locate post translations

Abstract

turing the groundwork for compiling i sensor arrays. NanoporeTERs, engineered reporter proteins, can be detected on MinION nanopore

> Traditional reporter proteits such as fluorescent proteits and their variants have been very popular for tracking genetic regulation in biological systems. However, the number of unique reporters that can be used simultaneously is still small, and yet investigating many targets is often desirable for more committeewive and efficient analysis of biological systems. Jeff Nivala, with other researchers at the University of Mashington in Seattle, has developed a new class of reporter proteins, nanopore-addressable protein tags engineered as reporters thanoporeTDRs (NTERc), that allow greater multiplexing,

nature methods

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intent + names methods + comment + article

Committee | Published 10 March 2010

Not if but when nanopore protein sequencing meets single-cell proteomics

Anisolat Matterna & Lord Minute Fill

Names Person 28 130-318 (2015) | Circuits article

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The nanopore community is stepping toward a new frontier of si sequencing. Here, we offer our opinions on the unique potential technology, with a focus on single-cell protoconics, and some ch. Nanopore sequencing of DNA-barcoded probes for expression to read as it.

Compared to sequencing by synthesis sectorologies, the benefits of Appaired Sach, Invation Sells (2) Dennet Robert Datemas Calculation is fairing top July Commit sequencing include long for full-length) reads of single molecules. I Advantation to state a Automatic A state sequence epigenetic marks and RNA, and the delivery of stal-time-d inexpensive, portable devices¹. These features have contributed to 1. Distant Nationschool age (2000). [Cite, this active ultra-right/whole-genome diagnostics in the clinic² and genomic ep. pt12. Accesses | 107. Advance. | Meeting the first complete, telement-to-telement sequence of the human ga exampling into single-call biology. For instance, full-length RNA non Abstract isoform level tharacterization of transcripts within individual only

nature nanotechnology

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Article | Comparised | Published, 25 September 2023

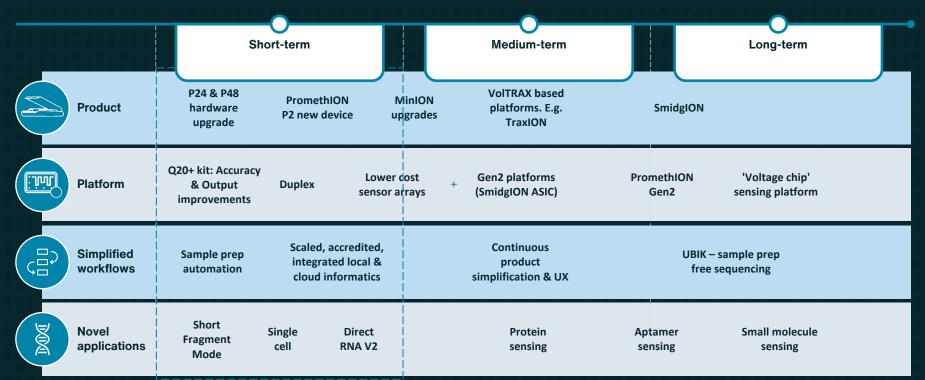
highly multiplexed detection of microRNA, proteins and small biomarkers

here is an unmet need to develop low-cost, rapid and highly multiplesed diagnostic technology platforms for quantitatively detecting blood biomarkers to advance clinical diagnostics beyond the single biomarker model. Here we perform tanopore sequencing of DNA-barcoded molecular probes engineered to recognize a panel of analytes. This allows for highls multiplexed and simultaneous quantitative detection of at least 40 targets, such as microRNAs, proteins and neurotranumitters, on the basis of the translocation dynamics of each probe as it passes through a ranopore. Our workflow is built around a commercially available MinION sequencing device, offering a one-hour turnaround time from sample preparation to results. We also demonstrate that the strategy can directly detect. cardiocascular disease associated microRNA from human serum without extraction or

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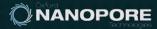
Innovation does not stop

...path to anything, anyone, anywhere



This chart pipeline targets and is subject to

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Commercial Strategy and Operations

PINCIPIONES

Richard Compton



Richard Compton

Senior Vice President of Sales & Commercial Operations

Sales and Commercial leader with a track record of scaling up in genomics

BSc. in Biochemistry from the University of Birmingham

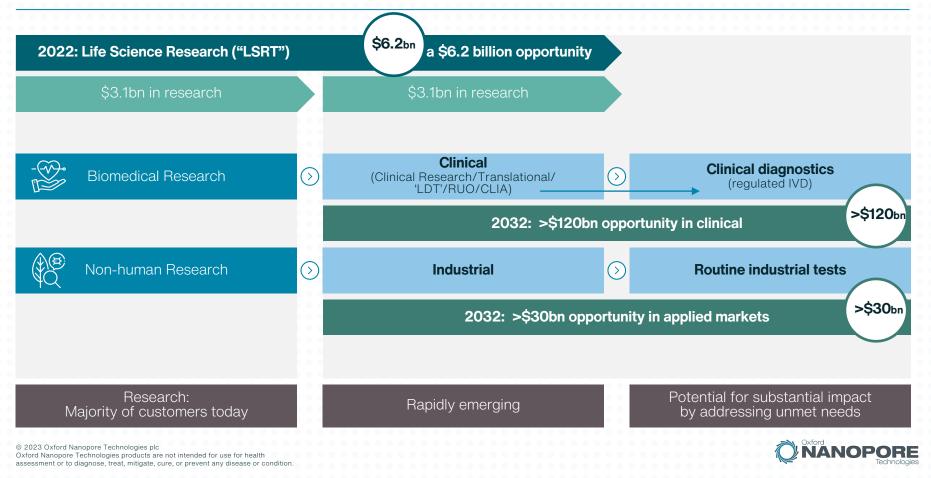
BIOVIA Dassault Systèmes - VP & GM EMEA (2000 to 2012)

Illumina – VP & GM EMEA (2012 to 2016)

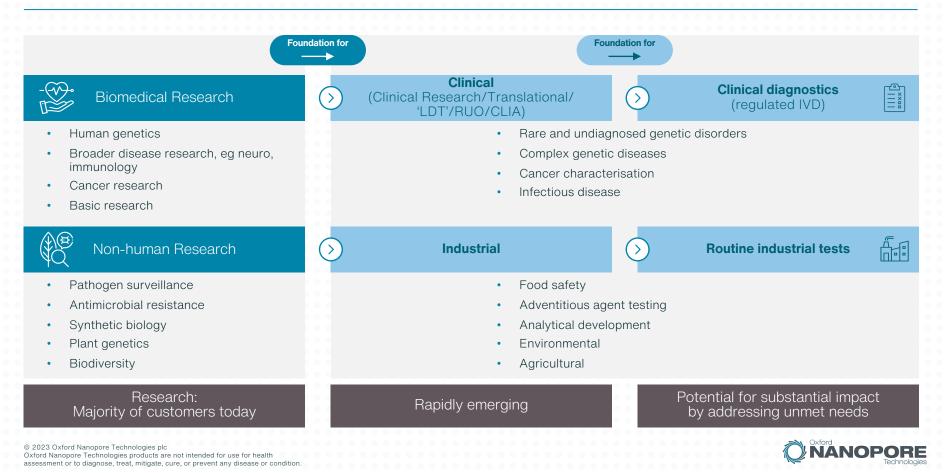
Oxford Nanopore - (2016 - Present)



Substantial market opportunity



Building sequencing use cases from research to clinical and applied



Range of scientific customers apply to each part of the market

>

>

These customers are linked within a broader community of genomics research

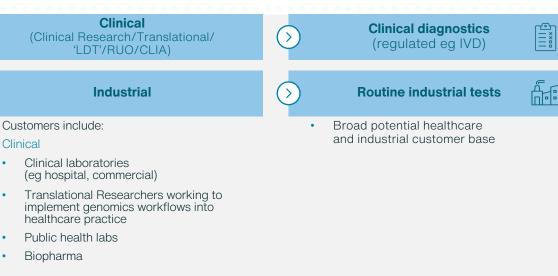
Biomedical Research



Non-human Research

Research customers include:

- University/academic research labs
- Non-profit institutes and charity
- Biopharma/life science companies
- Government labs
- Industrial researchers
- Public health research labs



Industrial

- Method development labs
- Life science, biopharma, food, ag

Research: Majority of customers today

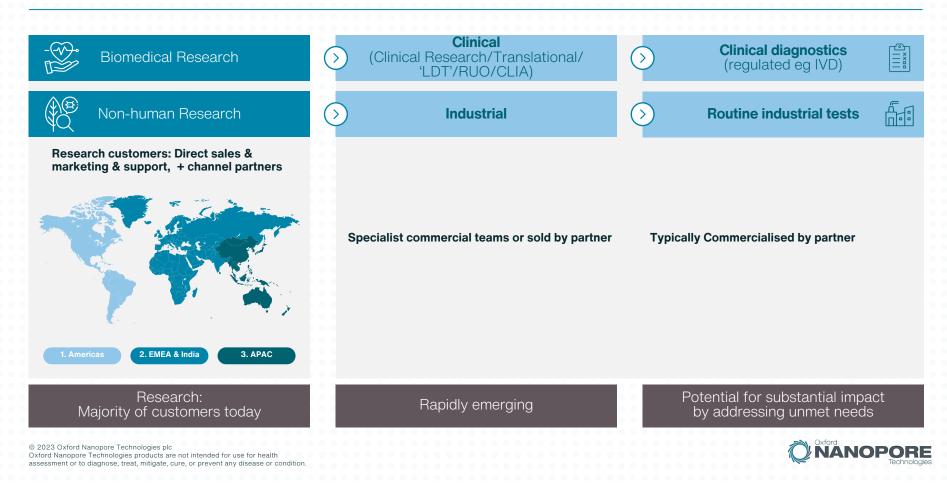
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Rapidly emerging

Potential for substantial impact by addressing unmet needs

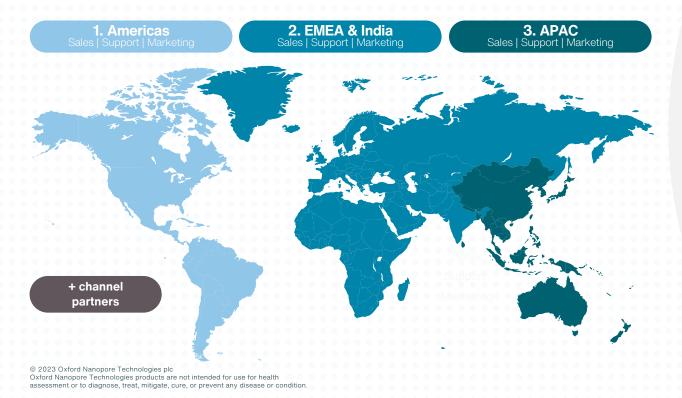


Oxford Nanopore has developed specific go-to-market strategies



Global LSRT commercial team has been developed and regionalised

Maximise regional opportunities with coherent, locally adapted strategies



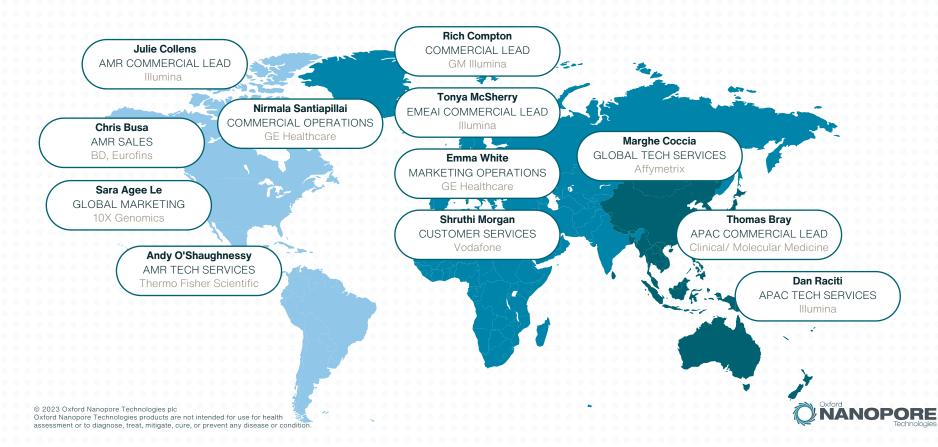
Commercial team has doubled since IPO

> End 2020: 147 → HY 2023: 346

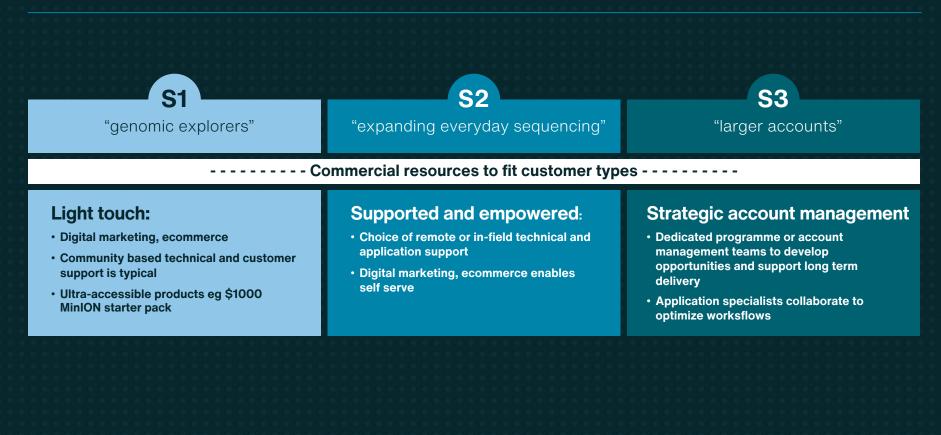
Includes commercial functions such as:

Sales and Marketing Support (application, customer support, technical) logistics

LSRT Commercial leadership team includes senior experience from across life science tools and diagnostics



Commercial operations: Highly differentiated commercial model drives broad usage

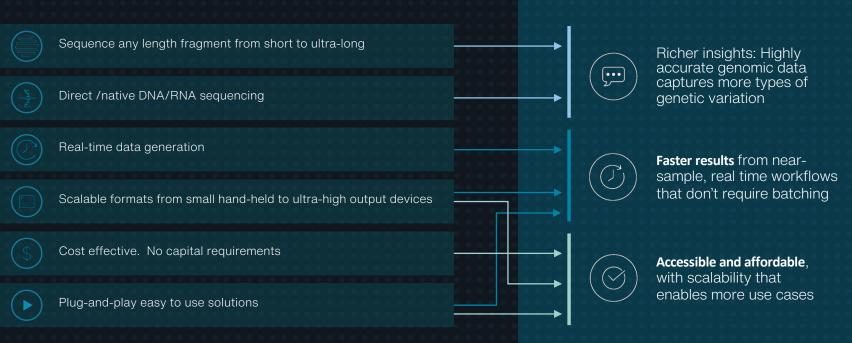




Setting a higher standard and expectations in genomics Unique combination of benefits meets unmet customer needs in genomics

Features of nanopore sequencing

Benefits

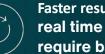


S1 Example: from garage to industry, a tale of plasmid sequencing

......

Rapid turnaround becomes market expectations for plasmid sequencing

- · Rapid turnaround becomes market expectation for plasmid sequencing, a common need particularly for gene therapy.
- Oxford Nanopore offers rapid turnaround, high performance technology, making plasmids a potentially substantial market opportunity



Faster results from near-sample, real time workflows that don't require batching

Accessible and affordable, with scalability that enables more use cases

Go to market model

- Accessible: MinION starter pack \$1,000
- · Buy online, community support
- Entry point, tool to explore broad applications



S2 Example: Ophthalmic infections and cancer at West Coast USA Hospital

Opthalmic cancer West Coast hospital switches to Nanopore sequencing

- Following eye surgery, 1 in every 1,000 procedures results in Endophthalmitis- an infection inside the eyeball.
- This effects approximately 20,000 people per year, with 4,000 cases in the USA.
- The current method to determine the cause of infection is Bacterial Culture, taking 2-5 days, costing \$200, and missing important information
- This hospital switched to nanopore from traditional sequencing, and is also now exploring eye cancer applications



Richer insights: Highly accurate genomic data captures more types of genetic variation

Faster results from near-sample, real time workflows that don't require batching – for best value

 \bigcirc

GridION

COLUMN N

Accessible and affordable, with scalability that enables more use cases

Go to market model

- Accessible: easy to start exploring with nanopore
- Some commercial/support interaction supported update and the switch



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S3: Spanning fundamental research to national programmes

- NIH Center for Alzheimer's and Related Dementias (CARD)
- Generating a new genetic resource for Alzheimer's and related dementias from thousands of human brain samples – already delivering results

Using a single flow cell with the latest version of Oxford Nanopore's 'Q20+ chemistry', the NIH team stated, "we can detect SNPs with F1score better than ...short read sequencing...further, we can discover structural variants with F1scores comparable to state-of-the-art methods involving [alternative long read sequencing] and trio information (but at lower cost and greater throughput)"



Richer insights: Highly accurate genomic data captures more types of genetic variation

More variant characterisation, including methylation, for complete telomere-to-telomere genomes or larger sample number projects



Accessible and affordable, with scalability that enables more use cases

Whole human genomes from \$345, with pathway to lower cost.

Go to market model

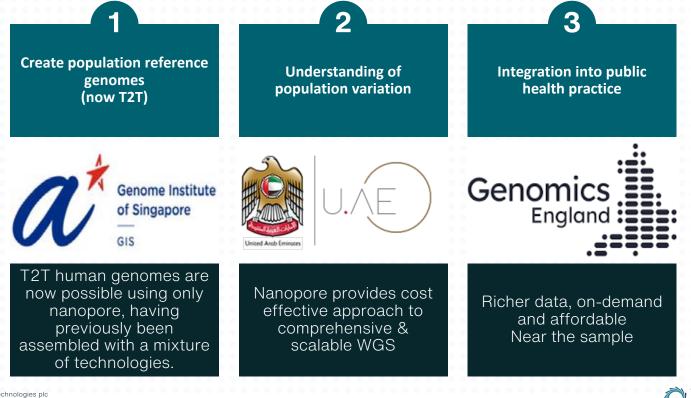
- Accessible: easy to start exploring with nanopore
- More commercial and support resources to optimise customer use



NIH Center for Alzheimer's and Related Dementias https://www.biorxiv.org/content/10.1101/2023.01.12.523790v2

S3: "PopGen" is evolving into national genomics strategies

Oxford Nanopore suited to all stages of evolving large-scale strategies. S3 includes a variety of larger programmes



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The evolution of larger programmes into national genomics strategies: UK as an example

Oxford Nanopore is uniquely positioned for translational programmes that prepare for national genomics strategies: **The UK as an example but applications translate to all markets**

NIHR Bioresource: 22,000 WGS cohort

Research study to further explore human health and mechanism of disease in both rare & precision psychiatry

Genomics England: Rare Disease 2.0

Sequencing up to 7,500 participants previously undiagnosed & diagnosed to improve health outcomes & pipelines

Genomics England: Cancer 2.0

Aimed to return improved cancer outcomes in rapid turnaround time, starting at Royal Marsden Hospital & Leeds

© 2023 Oxford Nanopore Technologies pic Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condit **Exeter NHS Genomics Laboratory: Rapid WGS** Aimed to deliver rapid whole genome sequencing within 24 hours for national rare disease service

Guys & St Thomas Hospital: ICU Pathogen ID

Aimed to improve infectious disease outcomes & act as a pathogen 'early warning' surveillance system, expanding across UK network





A cutting-edge global marketing engine to engage customers worldwide



Pioneering and high impact community events showcase customer breakthroughs



Bold new campaign to turn on curiosity and bring new life to brand

What You're Missing Matters!

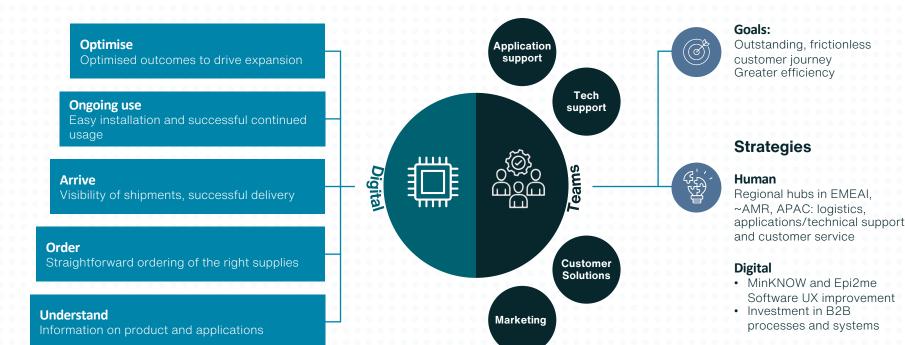
Best in class social media share of voice and strong digital marketing (shown: Twitter engagement '22-23)

CONTRACTOR NANOPORE

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Evolving/transforming our customer experience: intent to be best in class

Foundation of continuous improvement of product and applications



NANOPORE Technologies

© 2023 Oxford Nanopore Technologies plc Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condit Our commercial strategy: reshape, access and expand the LSRT market by enabling new or improved uses of genomic data

Innovation:Community drives:New featuresImage: Community drives:High performanceImage: Changing customer
expectations: reshape
marketProvide new, better
scientific insightsImage: Changing customer
expectations: reshape
market

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Clinical & Diagnostics

Dr Emma Stanton





Dr Emma Stanton BM MBA MRCPsych NHS Clinician (2000-2014)

MBA (Imperial, 2009)

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Roles in British government (DHSC Test & Trace 2020, Clinical Adviser to Chief Medical Officer for England 2008-2010)

P & L experience (CEO Four Eyes Insight 2018-2020, Chief Partnership Officer North East USA, Beacon 2017-2018)

US Payer experience (Beacon Health Options, Boston USA 2011-2018)

Commonwealth Fund Harkness Fellow in Healthcare Policy & Practice, Harvard University (2010-2011)



Clinical and diagnostics markets represent a substantial market opportunity for Oxford Nanopore to increase revenue and achieve global impact

DECORD

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Substantial market opportunity: clinical and diagnostic markets >\$120 billion in 2032





Human genetics

>\$100 billion TAM

\$18 billion TAM

- Pre-natal diagnostics
- HLA non-transplant & transplant
- Thalassaemia
- Newborn screening
- Critical care
- Pre-implantation genetic diagnosis

Infectious disease

\$8 billion TAM

- Respiratory
- Sepsis
- Tuberculosis
- HIV
- Hepatitis C
- Prosthetic joint infections
- Hospital acquired infections



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Screening (inc MCED)

Therapy selection

Staging

Diagnosis

Monitoring

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TAM model captures all testing requiring or likely to require a molecular measurement irrespective of dominant method today

Customer Drivers:

addressing unmet customer needs in clinical applications



Oncology

Cancer is identified too late; rapid, information-rich, near-patient insights promise improvement in care whether tumour sequencing or liquid biopsy.

Early detection is key feature of many national cancer strategies



Richer insights: Highly accurate genomic data captures more types of genetic variation

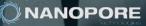


Faster results from nearsample, real-time workflows that don't require batching



Accessible and affordable, to deploy in centralized and decentralized networks

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Customer Drivers:

addressing unmet customer needs in clinical applications



Patients with genetic disease typically experience a long diagnostic odyssey. Richer insights than traditional short reads, delivered rapidly and near the patient, promise improved care for more people

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Richer insights: Highly accurate genomic data captures more types of genetic variation



Faster results from nearsample, real-time workflows that don't require batching







Customer Drivers:

addressing unmet customer needs in clinical applications



Infectious disease

Antimicrobial resistance is rising and emerging infections threaten public health.

Rapid, distributed insights offer new standards of care and pandemic preparedness at national and international levels

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Richer insights: Highly accurate genomic data captures more types of genetic variation



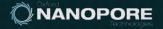
Faster results from nearsample, real-time workflows that don't require batching



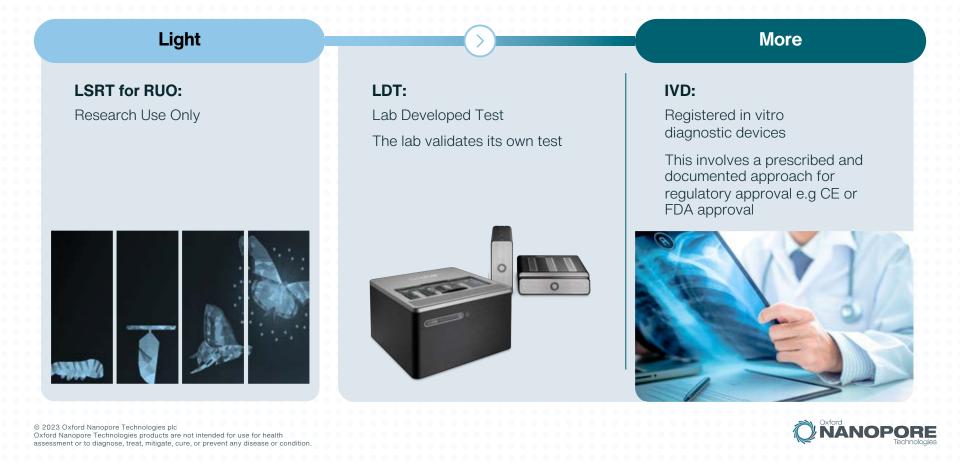


Clinical & Diagnostics

Products to enable future clinical and diagnostic markets



Diagnostic testing requires regulation



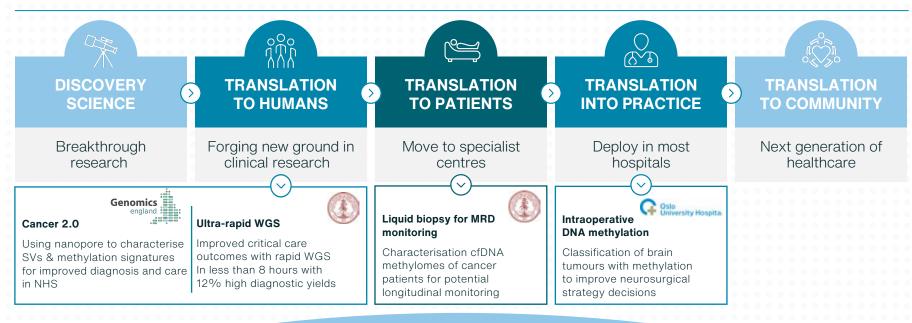
Oxford Nanopore

Go to market clinical strategy

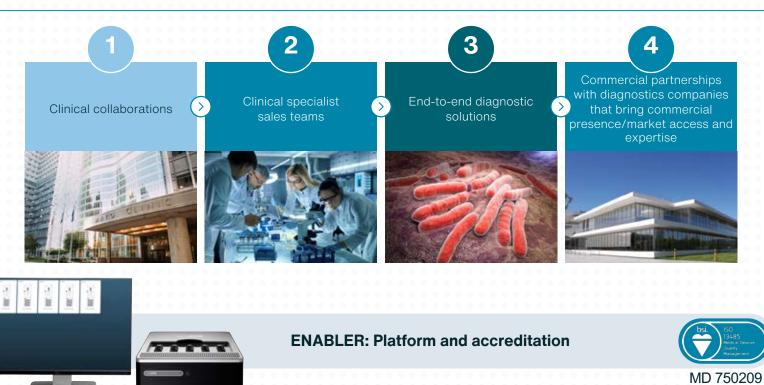
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We are at the beginning of our transformational journey



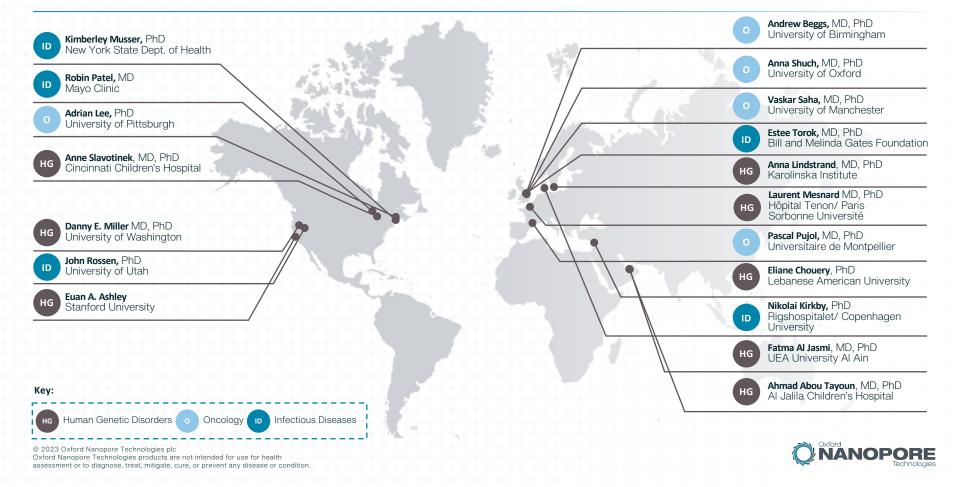
Go to market: Clinical strategy



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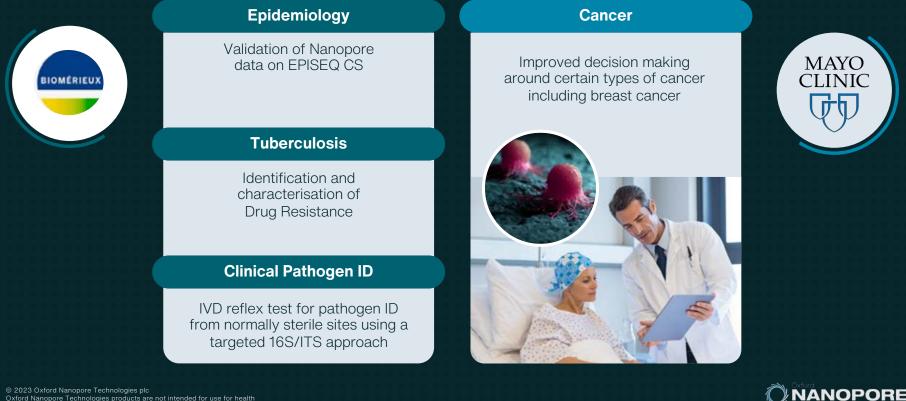


We have engaged with clinical academics globally on our clinical applications



Collaborating with world-leading clinical organisations

Programmes aiming to deliver:



assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condition



NEWS

TB-DR will be OND's 1st IVD providing drug resistance profiling direct from sputum in < 5hours Drug-resistant TB accounts for about

deaths from antimicrobial resistance



The World Health Organization supports the use of targeted sequencing, including a test under development from Oxford Nanopore, to detect drug resistance in tuberculosis

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Tuberculosis – Drug Resistance (TB-DR)



(>>

1.6 million people died from TB in 2022 (this is a treatable disease).

The incidence of drug resistance worldwide has increased at least 10fold in the past decade.

Presently, there are no WHO-recommended rapid diagnostics (WRDs) that can detect resistance to all TB drugs in a single test.

WHO rapid communication (July 2023) supports the use of tNGS to detect drug resistant TB and acknowledges OND as one of the solutions.

TB-DR will expand global access to drug resistance testing and evolve to identify new resistance-conferring mutations to the latest drug regimens.

TAM (by 2032) ~ \$1.2bn



nanoporetech.com/news

3

"Each day costs about £2,500, depending on the complexity of the patient. For my sickest patients, it could be £10,000,"

Professor Ian Abbs CEO, Guys & St Thomas NHS Foundation Trust



Respiratory metagenomics

O DIAGNOSTICS

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NHS

Guy's and St Thomas'

NHS Foundation Trust

Evaluation performed on >500 samples with 250 samples as part of a pilot service at Guys & St Thomas NHS Foundation Trust over 3 winters

- Average laboratory time to first sequence report: 6.7hrs
- Sensitivity: 93%
- Specificity: 95%
- 45% informed antimicrobial prescribing changes

20% escalation: mostly SAME day / 25% de-escalation: mostly NEXT day

5% results informed infection control interventions or identified novel emerging hypervirulent organisms

TAM (by 2032) ~ \$2.8bn



4bases - BRCA Panel partnership

Coases



Assay identifies mutations in BRCA1 and BRCA2 genes

Used for screening patients who have predisposition to breast and ovarian cancer and for treatment eligibility for PARP inhibitors

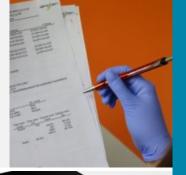
4bases BRCA panel combined with ONT sequencer can produce sample to answer in ${\rm <1~day}$

Assay can be decentralized, cost effective and highly flexible with the ability to debatch samples. Preliminary data shows concordance with existing ILMN based approach.

4bases have started to commercialize the BRCA panel with ONT consumables in Italy and Switzerland
 Hereditary testing TAM (by 2030) \$12.7 bn

② 2023 Oxford Nanopore Technologies plc Oxford Nanopore Technologies products are not intended for use for health assessment or to diagnose, treat, mitigate, cure, or prevent any disease or condition Unique, market ready solution for decentralized, same day BRCA1/2 testing.

NanoTYPE is the first method enabling highresolution HLA typing in under six hours





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Omixon — NanoTYPE for HLA Typing



Omixon is a global transplantation diagnostics company that we have partnered with

They have developed a new product called NanoTYPE[™] that uses nanopore sequencing to match donor organs to recipients

NanoTYPE[™] targets the HLA locus; one of the most complex regions in the human genome where recent improvements in our technology have enabled accurate results

) Omixon HLA solution has now been purchased from Omixon and used in 53 sites (~90% new customers) as a RUO product

TAM (by 2032) ~ \$680m



Key takeaways

01

Oxford Nanopore has a substantial opportunity in clinical and diagnostic markets

02

With a target addressable market of >\$100 billion (by 2032), oncology is the biggest clinical market opportunity for nanopore sequencing

03

We will deliver on this opportunity through commercial partnerships and clinical collaborations

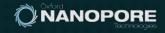
04

We are on a regulatory path to be successful in clinical and applied markets including RUO, CLIA and CE-IVD

05

We already have a dedicated clinical commercial sales team in place to take advantage of clinical research opportunities now

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Applied Industrial Markets

Dr Louisa Ludbrook



Louisa Ludbrook PhD, MBA

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Roche Diagnostics Australia 454, NimbleGen, RT-QPCR

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»)

Source BioScience, Horizon Discovery (now Revvity) *NGS, arrays, gene edited cell line products*

7 years at Oxford Nanopore in commercial leadership, having led both Global Sales and Market Development teams.

Present: heads the Applied Industrial Markets team



\$1 TRILLION

in economic impact

Direct economic impact from non-healthcare markets such as Agricultural, Food, and consumer products and services 2030-2040¹.

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Substantial market opportunity: Applied industrial markets >\$30 billion in 2032



Vet and Agriculture

>\$15 billion TAM

Livestock Veterinary

Crop pathogen protection

Companion Animal

Breeding

Biopharma QC

>\$4 billion TAM

- Cell Line Authentication & Characterization
- Vector and construct characterization and QC
- Biomanufacturing Safety Testing



Food and environment

>\$11 billion TAM

- Food Safety Testing
- Food Authenticity Testing
- Food Spoilage
- Wastewater testing
- eDNA biodiversity assessment



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TAM model captures all testing requiring or likely to require a molecular measurement irrespective of dominant method today.

Oxford Nanopore offers one accessible, data-rich platform that can suit the lifecycle of industrial development

The world is changing

Industry will transform to meet the challenges. Accessible biological data will enable transformation not possible previously



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Is it safe to eat?

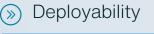
Was it sourced from where I expected? Does it contain what it says on the label? Are there any impurities that could impact safety? How fast can my new drug be brought to market?





A combination of factors will open larger TAM in Applied Industry

now



- Test Method Simplification
- Regulatory climate

Market Dynamics





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Drivers: addressing unmet customer needs

Veterinary and Agriculture

Example test: PRRS virus detection in distributed veterinary diagnostic labs



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Richer insights: Highly accurate genomic data captures more types of genetic variation



Faster results from nearsample, real time workflows that don't require batching



Drivers: addressing unmet customer needs

Food and Environment

Example test: Quickest time to result *Salmonella* serotyping test



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Richer insights: Highly accurate genomic data captures more types of genetic variation



Faster results from nearsample, real time workflows that don't require batching



Drivers: addressing unmet customer needs

Biopharma testing

Example test: unambiguous viral Adventitious Agent safety testing for use in GMP environments



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Richer insights: Highly accurate genomic data captures more types of genetic variation



Faster results from nearsample, real time workflows that don't require batching



Developing the capabilities to support partners in the Applied Industrial setting



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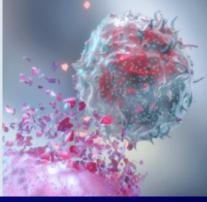


Biopharma QC testing

Deep Dive



The ISA test, available from October 2023, is the first nanopore sequencing-based commercial test service launched by PathoQuest.



Biologics quality testing. Faster, safer.



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Example 1: PathoQuest – Integration Site Analysis (ISA)

PathoQuest

PathoQuest is a leading CRO offering sequencing based GMP and non-GMP testing services to the biopharma industry.

PathoQuest has launched an Integration Site Analysis (ISA) test using nanopore sequencing offering a better alternative to existing methods.

The ISA test offers improved characterization of gene integration into cell lines relevant for mAb or cell therapy production, reducing downstream risk.

Non-GMP ISA test is now available and GMP validated ISA test expected to be launched in early 2024.



A *direct* RNA Identity and Integrity test is in development, first in class for mRNA vaccine QC





Example 2: BASE - mRNA Vaccine QC Identity and Integrity test



mRNA vaccines or the rapeutics undergo rigorous safety and quality testing using multiple methods which take up to 50% of the production time²

Oxford Nanopore's direct RNA sequencing technology is unique

WHO recommends direct RNA sequencing for mRNA vaccine identity test

BASE are an industry partnered mRNA Facility with expertise in preclinical vaccine manufacture

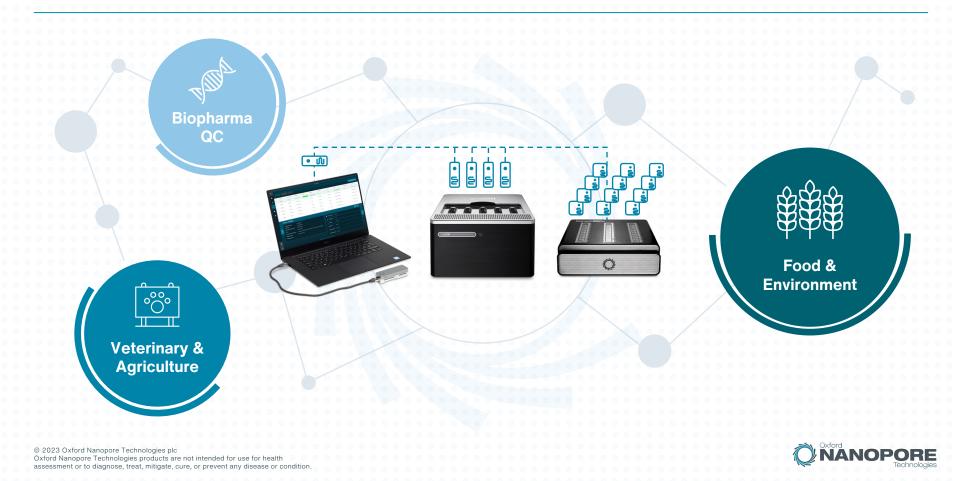
Oxford nanopore and BASE will develop a first in class direct RNA Identity and Integrity test for industry use, reducing test complexity and TATs

We have a select pipeline of industry evaluators of the mRNA Identity and Integrity test



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One accessible, data-rich platform that suits the lifecycle of industrial development



Key takeaways

01

>\$30Bn TAM for Applied Industrial testing in 2032

02

Platforms offering sequencing in a centralized **and** decentralized setting will provide partner's c ompetitive advantage

03

We have a regulatory Roadmap to support the requirements of regulated testing settings

04

We have first partnerships and a structured pipeline prioritising value capture

05

Oxford Nanopore offer one accessible, datarich platform that can suit a business' lifecycle of industrial development.



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Partnership Strategy

John Schoellerman



John Schoellerman

SVP Corporate & Business Development Hambrecht & Quist Tech & Healthcare Banking (1996 – 1998 & 1999 – 2000)

Tech & Diagnostics Startups (2000 – 2004)

J.P. Morgan Healthcare Investment Banking (2005 – 2014)

Lazard

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Healthcare Investment Banking – Head of Medtech (2014 – 2019)

Clinical & applied industrial markets require new capabilities

Academic Research

Modular products

Project-driven

Fewer stakeholders

Less regulated

Clinical & Applied Industrial

End-to-end solutions

Business-driven

More stakeholders

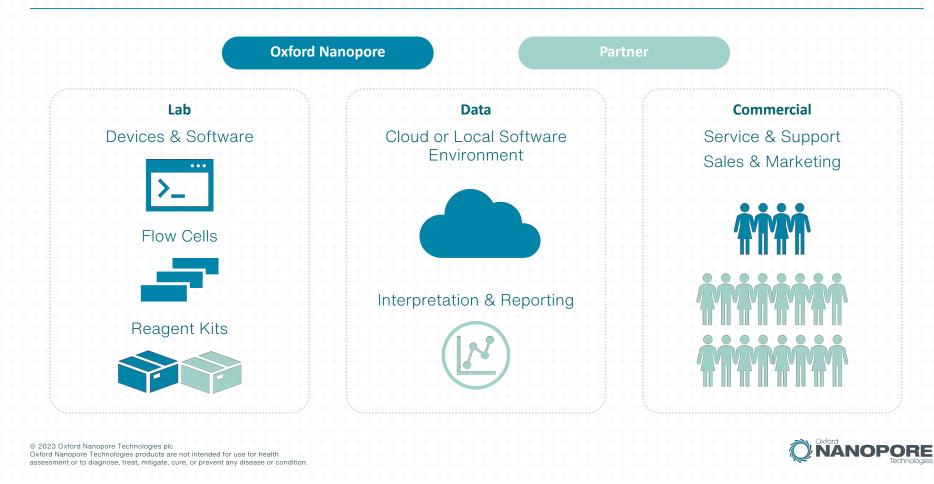
More regulated

Partnership model

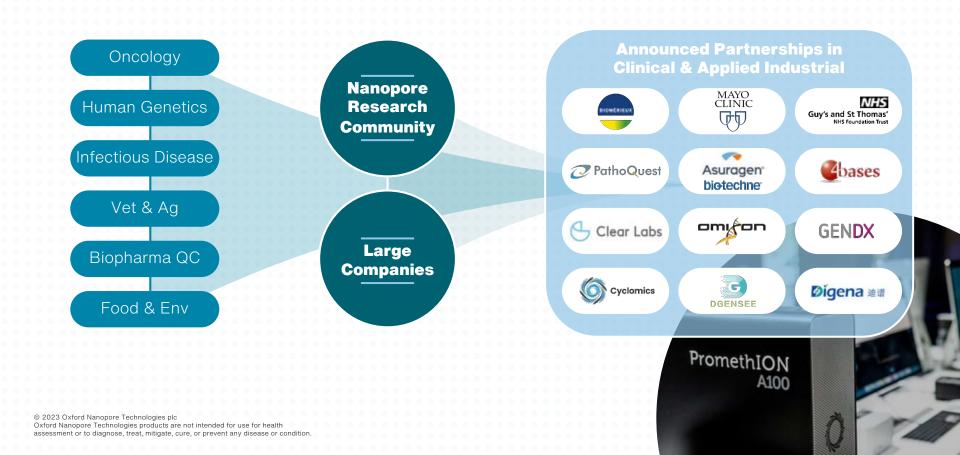
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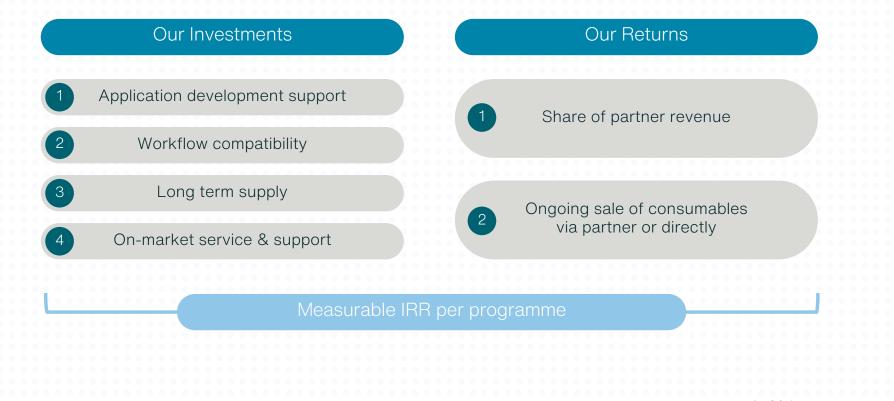
Partnering to deliver end-to-end solutions



We draw on a broad universe of potential partners and collaborators



Our partnering business model is geared to scalability & value sharing



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Manufacturing and operations

PINCIPIONES

Tim Cowper, CFO



Tim Cowper

10 years' experience at Oxford Nanopore in leadership roles, having led both Commercial Operations and Finance teams

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Responsible for setting up operations and finance infrastructure across the company, including leading on operations for our first product launch – the MinION Access Programme – in 2015.

Previous roles include Senior Finance roles at Celltech Group, Vernalis plc and, in addition has led a number of start-ups.

Chartered Accountant, Ernst and Young



Built for scale: infrastructure in place to support long term growth

	NANOPORE		
Oxford Science Park Oxfordshire, UK ~100,000 sq ft	Harwell Campus Oxfordshire, UK ~61,000 sq ft	Abingdon Business Park Oxfordshire, UK ~57,000 sq ft	Strategic manufacturing partners USA, East Asia, UK, Europe
R&D, Engineering and Technology Transfer - Corp HQ - Wet and dry labs	Manufacturing consumables (flow cells and kits) - ISO 4 & ISO 7	 Distribution and Logistics Warehousing Temperature controlled storage 	Devices - Electronics and metal work
 Wet and dry labs Technical workshops and labs ISO7 cleanroom 	 ISO 4 & ISO 7 cleanrooms Wet and dry labs Technical labs Packing 	 Scope for expansion of technical labs 	 Consumables Electronics: ASIC Kits: biologics and chemicals

ISO 9001, 22301, 27001, 13485 certified

Robust manufacturing and supplier network built to support growth and business continuity



Experienced operations and manufacturing team



Rhod Davies VP OPERATIONS 25 years' experience



Howard Orman VP, QUALITY & REGULATORY 30+ years' experience



Alison Forrow SENIOR DIRECTOR OF QUALITY ASSURANCE

35+ years' experience



Simon Hedditch SENIOR DIRECTOR OF REGULATORY AFFAIRS

30+ years' experience





Cameron Knight VP TECHNOLOGY TRANSFER 12+ years' experience

Alvaro Correia

VP GLOBAL SUPPLY CHAIN

25+ years' experience

Jerry Bryar VP MANUFACTURING

40+ years' experience









Will Craddock SENIOR DIRECTOR OF PRODUCTION ENGINEERING

20+ years' experience

280 employees

Technology Transfer, Production Engineering, Manufacturing, Quality & Supply Chain

Work in close collaboration with:

- R&D team on new product development
- Finance team to drive efficiency and margins
- Commercial teams to enhance customer experience

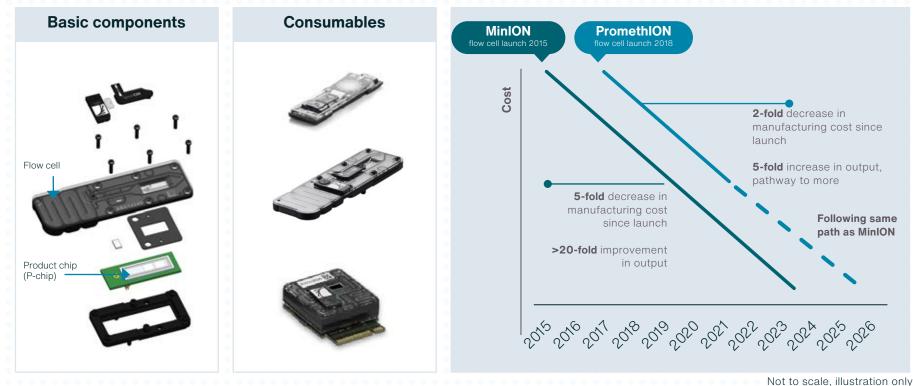


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Efficiency: Proven track record of optimising production to reduce cost of goods





Automation example: flow cell assembly before and after



Double throughput

50% less manual operation

50% less footprint

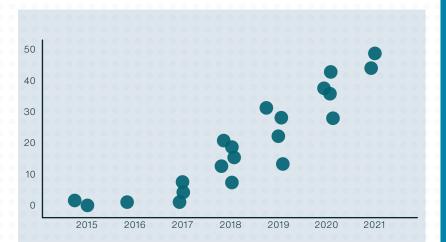


Driving quality and productivity through continuous improvement

Example: output per flow cell

Significant improvement At the same time in output in flow cell, reducing cost per Gb to our customers

reducing cost to manufacture 5-fold



Commitment to improving environmental performance of products

13.7

Reduction in plastic use in 2022

79%

of packaging from recycled materials in 2022 **59**%

of flow cells returned after use in 2022, a 19% increase YoY



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Delivering strong, consistent results

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Tim Cowper, CFO

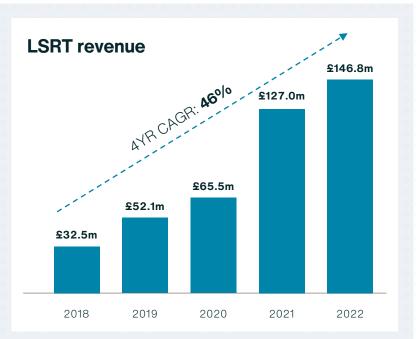
Financial snapshot

£162.2m LSRT revenue LTM	>7,300 Active customers LTM ¹	>640 New customers LTM
>8,000 devices run LTM	~75% LSRT revenue from consumables	£485m Cash, cash equivalents and liquid investments

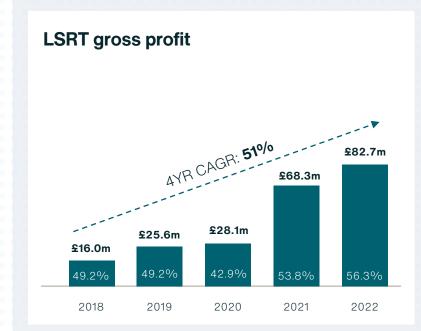
All numbers at 30 June 2023 unless stated otherwise LTM = Last twelve months, as at 30 June 2023. 1 Net increase in active, direct customers between 30 June 2022 and 30 June 2023. Active customers are defined as customers that have been active over a 12-month period.



Proven track record of strong revenue and margin growth



Strong LSRT revenue growth driven by innovation, including new product launches and platform upgrades, resulting in expansion of the customer base and increased utilisation

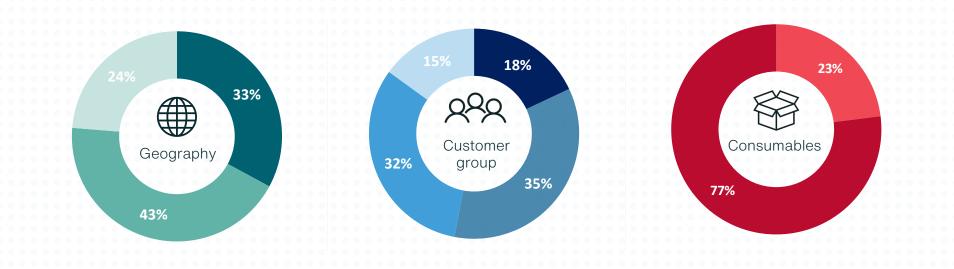


Strong LSRT gross margin expansion driven by manufacturing innovations and efficiency, while lowering the cost of sequencing for customers

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Delivering strong growth across the business



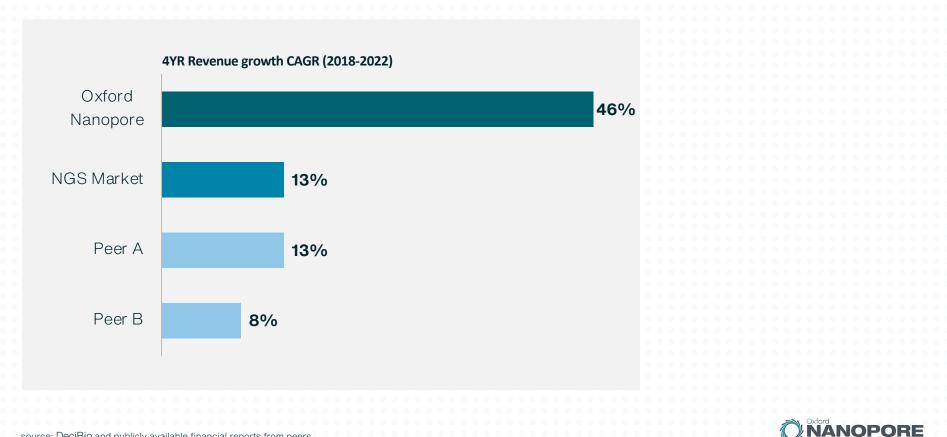
4YR CAGR	4YR CAGR (2018-2022)		
	+43%		
	+51%		
	+41%		

	4YR CAGR (2018-2022)		
\bigcirc	S1	+25%	
\bigcirc	S2	+39%	
	S3	+62%	
	Indirect	+110%	





Proven track record of outperformance



source: DeciBio and publicly available financial reports from peers

Pathway to adjusted EBITDA breakeven by the end of 2026



Sustaining high-growth whilst driving margins and returns

Revenue growth

- Maintain >30% underlying constant currency revenue growth rates to FY26
- Drive utilisation and new customer acquisition fuelled by innovation
- Drive revenue from clinical and industrial applied markets to 10-20% of LSRT revenue by 2026



Margin Expansion

- Broad margin expansion opportunities
 driven by manufacturing innovation
- On track to reach >65% gross margin by FY26



Disciplined OpEx

- Disciplined operating expenses inline with adjusted EBITDA breakeven target
- Reduce OpEx to <15% CAGR
 between FY23 and FY26
- Investing in growth to drive sustainable value creation



Underlying LSRT revenue excludes revenue from the Emirati Genome Program and COVID sequencing

Key medium-term revenue drivers



Expanding, underpenetrated market opportunity coupled with unique features and benefits of Oxford Nanopore technology underpin growth



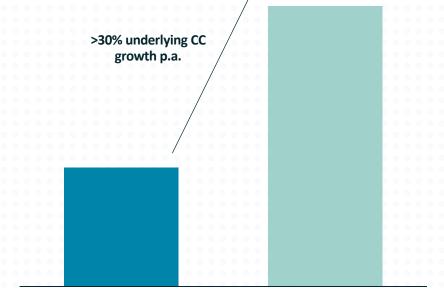
Robust innovation pipeline with frequent platform upgrades and product launches



Increased penetration of LSRT clinical and applied industrial markets; expected to contribute 10-20% of LSRT revenue by FY26



New customer acquisition and increased utilisation in S2 and S3 customer groups will be a key driver of growth



FY23



FY26

Underlying LSRT revenue excludes revenue from the Emirati Genome Program and COVID sequencing CC = constant currency

Sustaining high-growth whilst driving margins and returns

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Revenue Growth

- Maintain >30% underlying constant currency revenue growth rates to FY26
- Drive consumables utilisation and new customer acquisition fuelled by innovation
- Drive revenue from clinical and industrial applied markets to 10-20% of revenue by 2026



Margin Expansion

 Broad margin expansion opportunities driven by manufacturing innovation

02

 On track to reach >65% gross margin by FY26



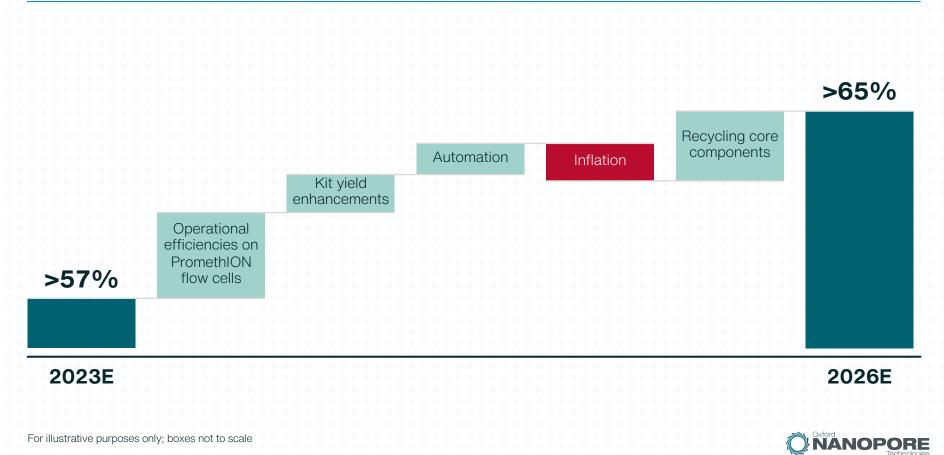
Disciplined OpEx

- Disciplined operating expenses inline with adjusted EBITDA breakeven target
- Reduce OpEx to <15% CAGR
 between FY23 and FY26
- Investing in growth to drive sustainable value creation



Underlying LSRT revenue excludes revenue from the Emirati Genome Program and COVID sequencing

Broad margin expansion opportunities



Sustaining high-growth whilst driving margins and returns



Revenue Growth

- Maintain >30% underlying constant currency revenue growth rates to FY26
- Drive consumables usage among existing customers and new customer acquisition fuelled by innovation
- Drive revenue from clinical and industrial applied markets to 10-20% of LSRT revenue by 2026

Margin Expansion

- Broad margin expansion opportunities
 driven by manufacturing innovation
- On track to >65% by FY 2026



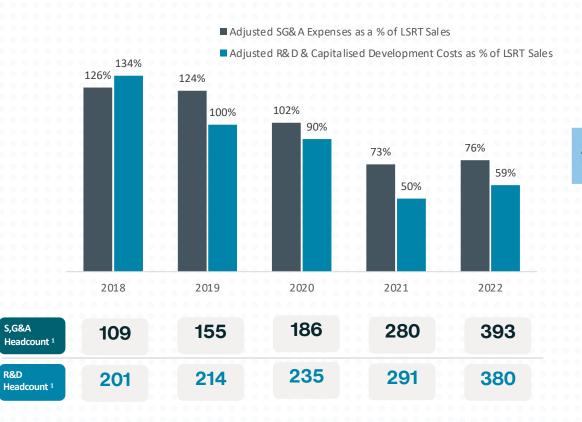
Disciplined OpEx

- Disciplined operating expenses in-line with adjusted EBITDA breakeven target
- Reduce OpEx to <15% CAGR between FY23 and FY26
- Investing in high-growth markets to drive sustainable value creation



Underlying LSRT revenue excludes revenue from the Emirati Genome Program and COVID sequencing

Invested in scaling the business to drive long-term, sustainable growth



Annual Adjusted Operating Expenses as a % of LSRT sales will reduce from 2024

NANOPORE Technologies

1 Average FTE

Disciplined expense management; focus on high-growth segments



Research & Development

- Advance innovation roadmap and maintain sustainable IP protection
- Late-stage platform development for clinical and applied industrial markets
- Infrastructure largely in place; disciplined growth in headcount



Sales and Marketing

- Focus on adding resource in high-growth markets
- Leveraging channel partners to access smaller markets
- Infrastructure largely in place; disciplined growth in headcount



On track to medium term IPO targets



Grow underlying LSRT revenue by >30% per annum 10-20% from LSRT clinical and applied industrial in 2026



Improve LSRT gross margin to > 65% by FY26

Achieve adjusted EBITDA breakeven by end of 2026



Key takeaways

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02

Proven track record of delivery high revenue growth, driven by investment in innovation and commercial resource Significant opportunities in large, growing, and underpenetrated markets and unique technology underpin medium term targets Manufacturing innovation and efficiency driving margin expansion and support >65% medium term target

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Disciplined operating expenses; investments focused on growing market share and unlocking new sequencing applications in clinical and applied industrial markets



Thank you

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