



J.P. Morgan Healthcare Conference

13 January 2025

Gordon Sanghera, CEO



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Our results could be affected by macroeconomic conditions, delays or challenges in manufacturing or delivering of products to our customers, suspensions of large projects and/or acceleration of large products or accelerated adoption of pathogen surveillance or applied uses of our products. These or other uncertainties may cause our actual future results to be materially different than those expressed in our forward-looking statements.

NOTES:

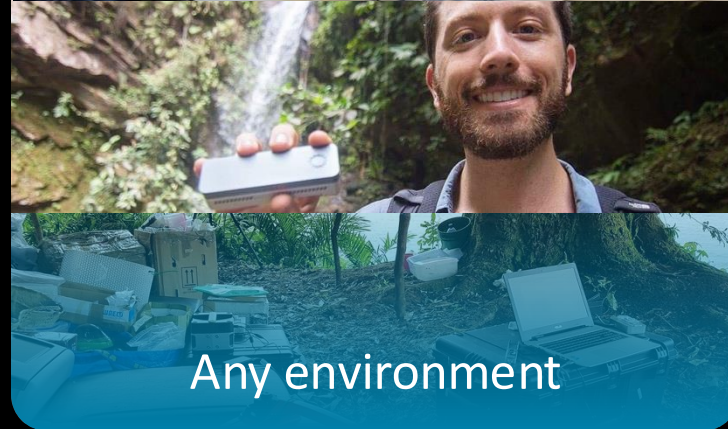
1. All revenue in this document is what has previously been referred to as ‘Life Sciences Research Tools’ revenue. Historically Group revenue was split into ‘LSRT’ revenue (i.e. the core business) and COVID testing, to split out short term revenue in FY20, FY21 and FY22 in relation to the COVID testing contract with the Department of Health and Social Care (DHSC), which came to an end in 2022. Following the conclusion of the contract with DHSC in FY22, Group (or total) revenue is the same as ‘LSRT revenue’, as such, for simplicity going forward the Company will just refer to this as revenue.
2. Underlying revenue excludes revenue from COVID sequencing and revenue from The Emirati Genome Program (EGP). All references to underlying growth in this document have been adjusted for COVID sequencing and EGP revenues. Underlying revenue includes currency fluctuations unless explicitly stated at constant currency (CC).
3. Constant currency (CC) applies the same rate to the FY24 and FY23 non-GBP results based on FY23 rates.
4. Certain numerical figures included herein have been rounded. Therefore, discrepancies between totals and the sums may occur due to such rounding.

Our vision is to enable the analysis of anything, by anyone, anywhere

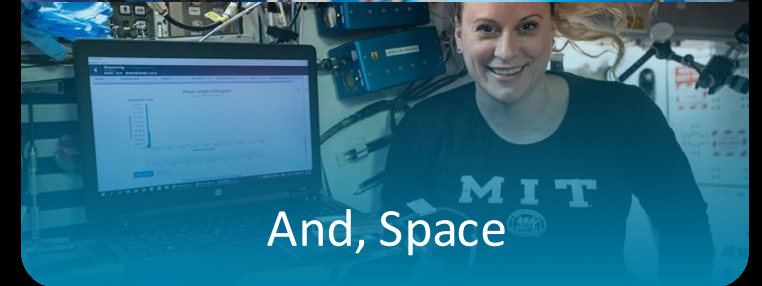
We empower people to explore and answer biological questions with our transformative technology platform



Any community



Any environment



And, Space

A new generation of single molecule sensing

Features address unmet needs: global reach for substantial global opportunity

Multi-Omics platform:

- Genomics
- Epigenetics
- Transcriptomics

Proteomics, metabolomics
in development

Validated technology:

>14,000

Customer
Publications

Sustainable growth company:

~31%

Underlying revenue 3YR
CAGR since FY21



Established global footprint

>125 countries served

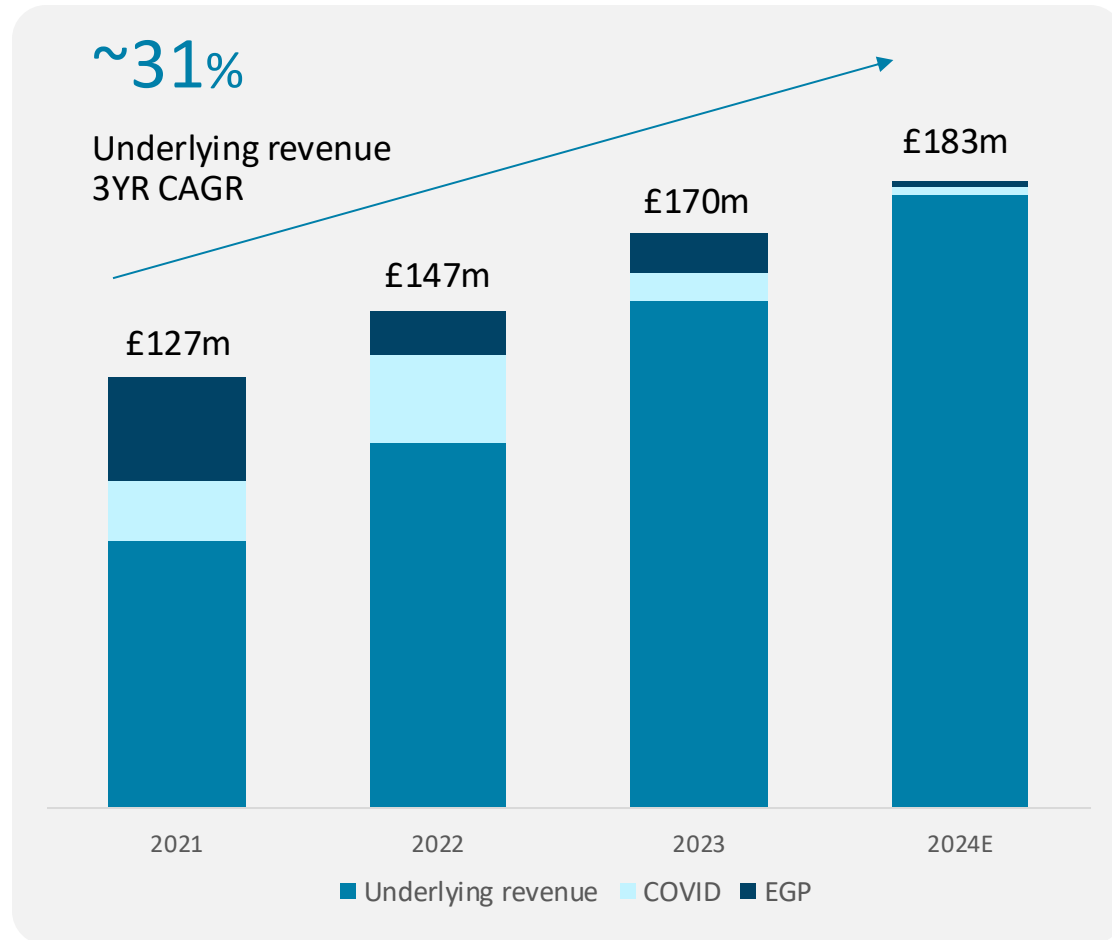
Strong, growing team

>1,300 Employees
(>400 commercial)

Established, scaled manufacturing

ready to meet demand for
next 5 years

Robust FY24 performance



H2'24 preliminary numbers

~£99m

H2 revenue

~34%

H2 underlying growth at CC

FY'24 preliminary numbers

~£183m

FY24 revenue

~23%

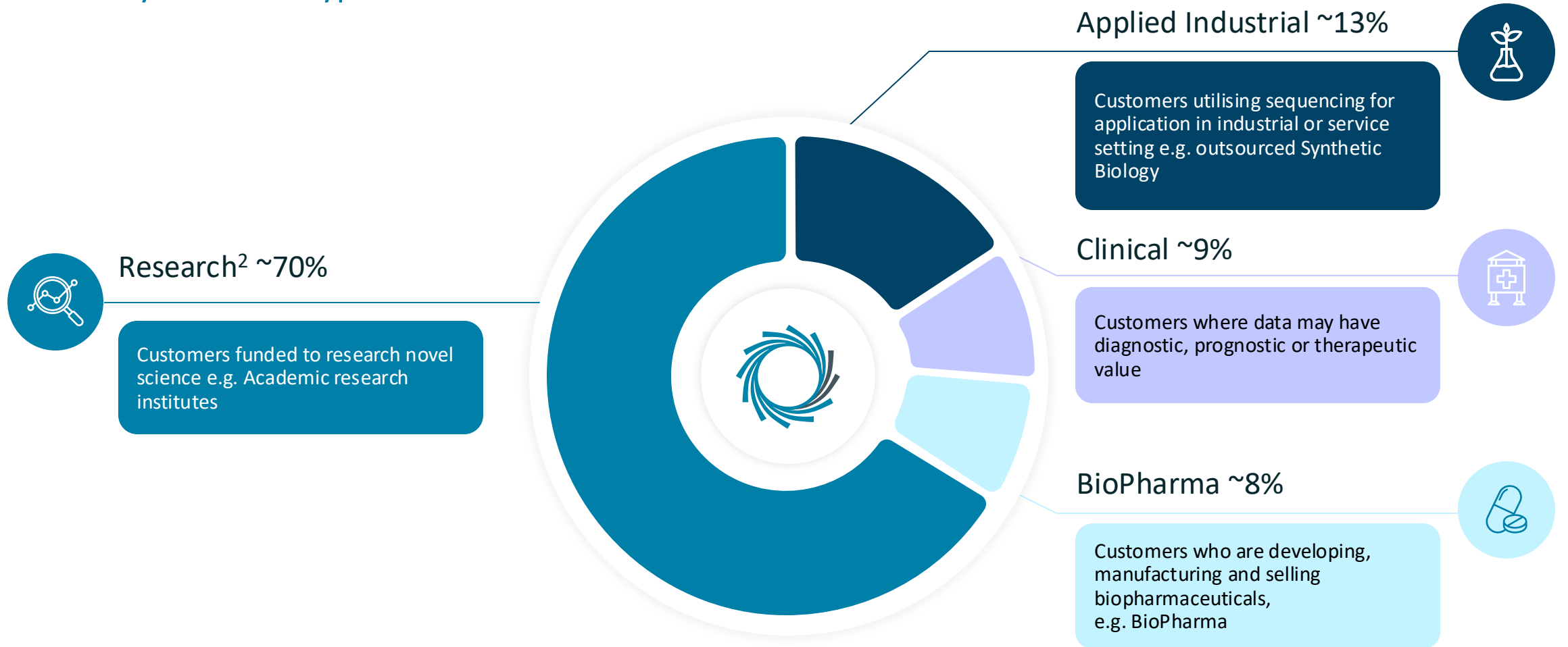
FY24 underlying growth at CC

~74% revenue from consumables sales

The graph above shows core revenue only and excludes COVID testing revenue in FY20, FY21, FY22 in relation to the short term COVID testing contract with the Department of Health and Social Care. Underlying revenue is LSRT revenue growth excluding revenue from the Emirati Genome Program and COVID sequencing. Underlying growth rates include currency fluctuations unless explicitly stated at constant currency (CC). 2024 numbers are unaudited, preliminary numbers and subject to change.

Growing of our four core end-markets

Revenue by customer type end-market¹



¹Revenue is split by customer end market categorisation – i.e. the end-market of the company buying Oxford Nanopore Technologies products

²Includes Government, public health, grant funding and all Distributors
2024 numbers are unaudited, preliminary numbers and subject to change

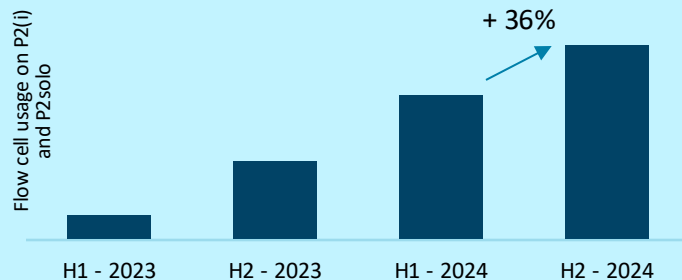
Key 2024 innovation milestones

Delivering growth in 2024 and beyond

Driving adoption and utilisation in research markets with new instrument launches



P2i launched, taking overall P2 install base >1,900 with increasing flow cell utilisation



MinION Mk 1D launched, delivering improved sequencing performance

Driving adoption and utilization by increasing platform capabilities and releasing end-to-end workflows

Accuracy

Platform improvements delivering Q50¹ human & Q60² bacterial genomes

Output

Beta testing of higher output PromethION flow cells for 2025 launch. Improvements deliver ~ 15% to 30% more data

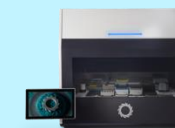
Workflows

Launched many workflows including Nanopore only T2T, NO-MISS for microbial sequencing, Single Cell workflow with 10X & Beta testing of PGx panel with Twist

Growing our applied markets product offering as we prepare to expand into these markets



GridION Q-Line v1.1 compatible for Clinical & BioPharma customers launched



ElysION for fully automated sample to answer with focus on Clinical & BioPharma applications in Early Access

1. Consensus accuracy achieved when running the Nanopore only T2T protocols
2. Consensus accuracy achieved when running the Nanopore NO-MISS protocol.

Medium term outlook: FY27 targets

>30% CAGR¹

Revenue

Medium term revenue growth underpinned by differentiated technology

>62%

Gross margin

Material scope for margin improvement over the medium term

2027

Adjusted EBITDA

Breakeven profitability in FY27 with operational leverage set to improve further in 2025

~£403m

Cash, cash equivalents and investments²

Strong balance sheet to support the business to and through EBITDA breakeven in FY27 and cash flow positive in FY28

¹ At constant currency

² At 31 December 2024

2024 numbers are unaudited preliminary numbers and subject to change

Key performance drivers

Highly differentiated
platform drives adoption

Richer insights
Faster time to result
Accessibility and affordability

Innovation
engine drives
growth

Releasing new platform
capabilities, products,
features
Creating robust end-to-end
workflows for core
applications

Commercial expansion
delivering on our growth
commitment

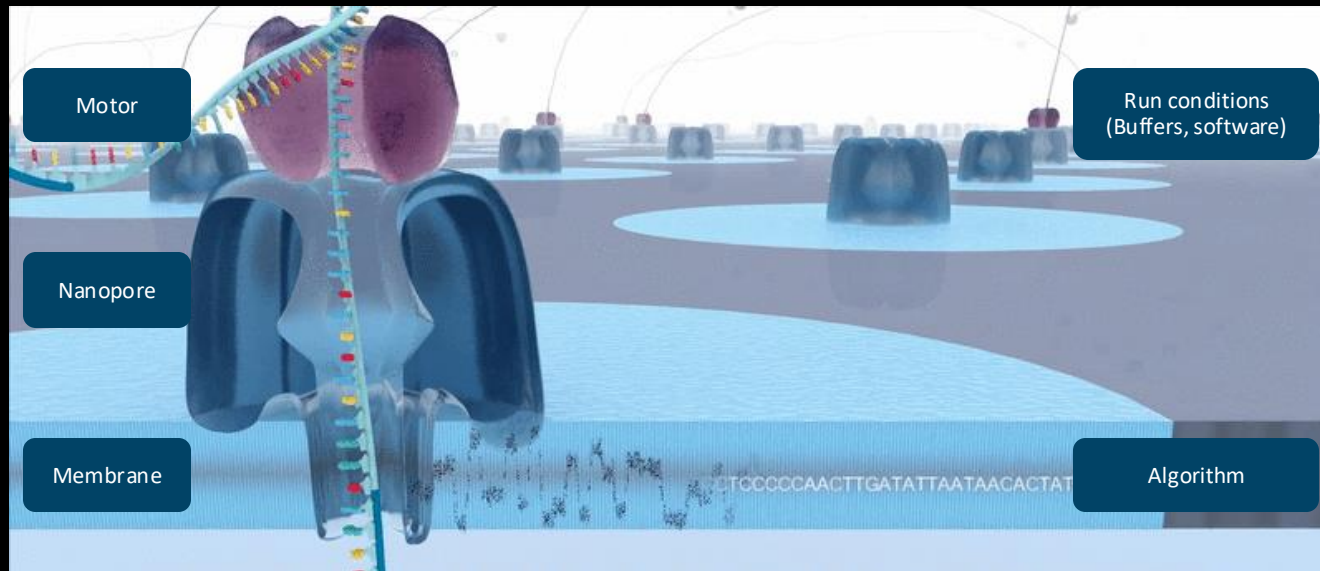
Increased sales, support team
and channel partners to work
with our growing customer
base

Operational
execution to meet growth
plans

Scaling manufacturing through
automation to meet demand,
enhance product quality and
margins

Our platform is designed to drive sustainable growth

Built on an evergreen IP portfolio of >2,500 Patents and patent applications



- Direct / Native sequencing of any DNA or RNA fragment
Protein, small molecule sensing in development



- ML based algorithms decode signal to sequence in real-time, including base modification



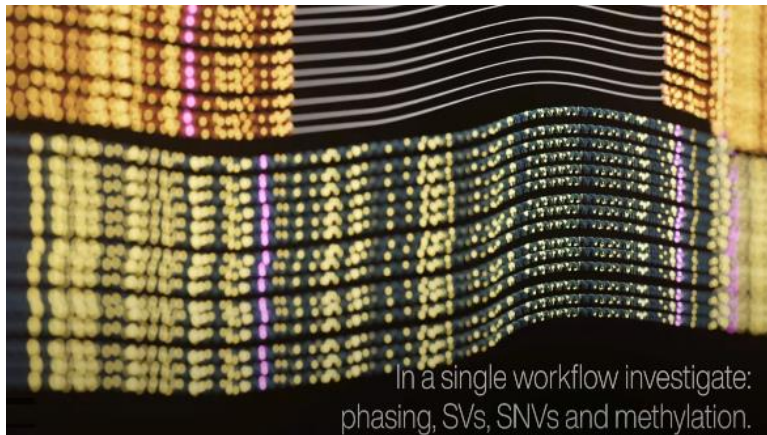
- Data streamed into EPI2ME and partner platforms for rapid data analysis



Three key benefits driving adoption

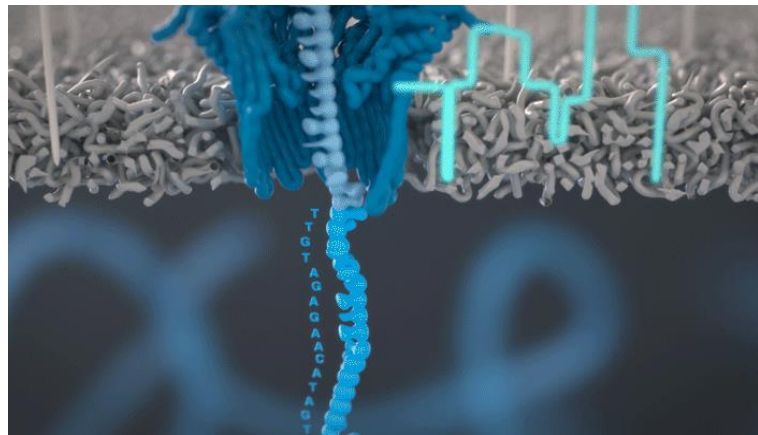
Richer insights

Highly accurate, Multi-omic data on a single tech captures more types of genetic variation



Faster time to result

Near-sample, real-time workflows that don't require batching



Accessible & affordable

Scalability that enables every application by broad communities



Contributing features include

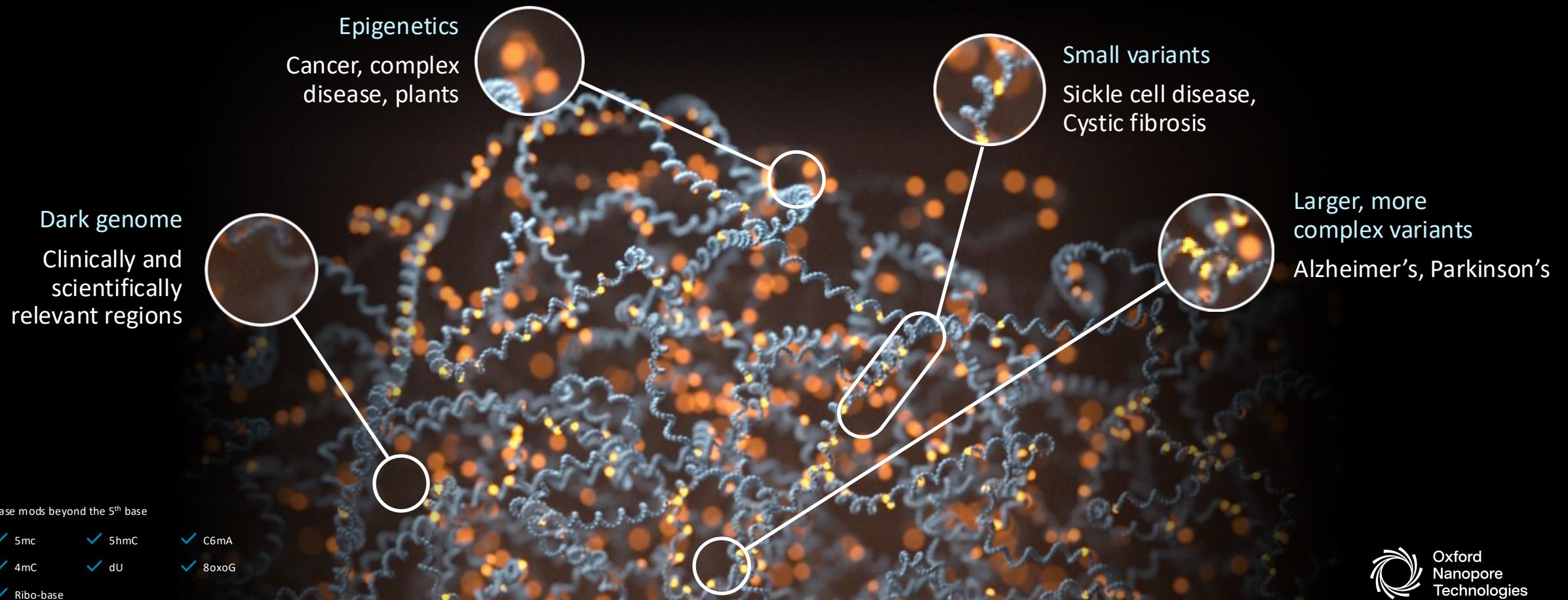
- Sequence any fragment length from short to ultra-long
- Sequence directly - native DNA/RNA:
- Capture epigenetic data

- Real-time data streaming for immediate analysis
- Scalable formats for near-sample location

- Low barrier to entry
- Scalable formats for any location
- Easy workflows
- Cost competitive whether high output or portable

Richer biological data: full genomic insights in one analysis

Multi-omic view of DNA



Paving the way for new standards in human genetics

Legacy technologies can miss:

- ~8% of human genome
- As much as half Structural Variation (SV). Oxford Nanopore resolves ~ 167K SVs in 1000 Genomes¹
- Oxford Nanopore can resolve 97% of methylome and expanded modification calling²

Oxford Nanopore delivers:

- True reference genomes with a single tech - T2T
- Comprehensive variant discovery
- All base modifications including RNA

Creating a new standard:

- 13% increase in Dx yield vs negative short read genomes³
- Better biomarker discovery with Somatic mutation phasing, SVs and methylation in tumours⁴
- Detecting all repeat expansion disorders across populations⁵

“The use of a reference genome that is more representative of the population of a given patient will be more likely to accurately link genomic variants to disease”

Michael Attwaters (Nature, 2023)

1. Gustafson et al. Genome Research. DOI: 10.1101/gr.279273.124 (2024)

2. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10653831/#B44>

Ahmad Abou Tayoun, et al (2024). Long read sequencing enhances pathogenic and novel variation discovery in patients with rare diseases

3. Steve Jones et al (2024) Long-read sequencing of an advanced cancer cohort resolves rearrangements, unravels haplotypes, and reveals methylation landscapes

4. Ibañez, K., Jadhav, B., Zanovello, M. et al. Increased frequency of repeat expansion mutations across different populations. Nat Med (2024)

We are on our translational journey

Human & Infectious Disease



The following logos are displayed in a grid format, organized by research area:

- Human Genetics Research:** uk biobank, PRECISE Precision Health Research Singapore, الجينوم البشري (The Human Genome), NIHR | BioResource, 1KGPONT Sequencing Consortium, NIH CARD, galatea.bio powering the bio2bio revolution, and a stylized DNA helix logo.
- Oncology:** Genomics england, MAYO CLINIC, WBL RESEARCH BIOLAB, UMC Utrecht Center for Molecular Medicine, prinses maxima centrum, and THE FRANCIS CRICK INSTITUTE.
- Rare and Undiagnosed Disease:** NHS Royal Devon University Healthcare, Asuragen a biotechne brand, Seattle Children's HOSPITAL • RESEARCH • FOUNDATION, Al Jalila Children's Speciality Hospital مستشفى الجليلية التخصصي, and a tree logo.
- Infectious Disease:** NHS Guy's and St Thomas' NHS Foundation Trust, BIOMÉRIEUX, PulseNet USA The National Multicenter Outbreak Response Network for Foodborne Enteric Transmission, Ellison Institute, and Oxford Nanopore Technologies.

2024 Breakthrough research programmes

Human Genetics, Cancer, Rare Disease



PRECISE, Singapore

- 10,000 Oxford Nanopore genomes
- To improve understanding of genetic diversity in Malay, Indian and Chinese groups

UMC Utrecht

- Leading academic medical centre collaboration
- To explore the genetic underpinnings of rare genetic disorders and certain cancers

Genomics England

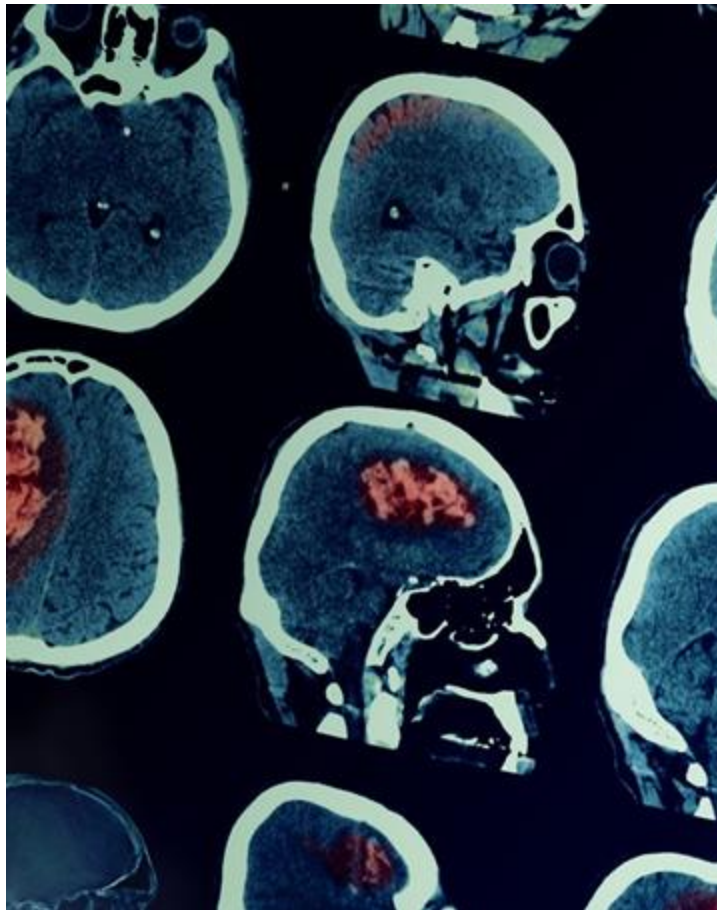
- ~ 7,500 samples
- To improve diagnostic outcomes rare disease unresolved by short reads

UK Biobank: methylation

- Map epigenetic modifications across 50,000 samples for globally accessible dataset
- To advance understanding of epigenetics in cancer, neurological disease and other common complex diseases

2024 Breakthrough translational studies

Human Genetics, Oncology, Rare Disease



Al Jalila Children's Hospital

- Identified rare diseases in a further 13% of cases unresolved with short reads
- Found novel methylation markers to spinal muscular atrophy, facilitating the diagnosis of the disease

Rapid Newborn Sequencing

- Services running in the US and UK
- Will transform how rare genetic conditions are diagnosed. It is a new national test being offered with results delivered inside seven days as compared to a much longer turnaround time

Rapid tumour methylation profiling

- Multiple centres incl. UK, Europe, USA
- CNS tumours rapidly profiled – including <2 hours during surgery
- Expanding to other cancers: sarcoma, and Dana Farber Cancer Institute's AML Methylation Classifier

St Jude Global Alliance

- World-leading US-based paediatric hospital has created a network in LMICs
- Deploying transcriptomics assay for Dx of childhood leukaemia
- Introducing in 2025

2024 Breakthrough studies moving into practice

Infectious disease examples

NHS expansion
to as many as 30
sites from 2024



Global biosecurity
and clinical potential



A new test, which has been demonstrated at St Thomas' Hospital in London, can spot why a person is suffering with an infection.

HEALTH
NHS expands use of world-first test to detect serious illness in hours

New technology boosts survival chances by quickly working out how best to treat infections.

Kat Lutz, Health Editor
Monday January 29 2024, 2:20pm GMT, The Times



The DNA-testing device used made by the British company Oxford Nanopore.

Black box to be game-changer for diagnosis of mystery illness

Tom Whipple, Science Editor
Saturday April 23 2022, 12:47pm BST, The Times

Respiratory Metagenomics

Expanding to 30

NHS UK sites from 2024

Global potential

- UK expansion follows pilots showing improved outcomes
- Global potential for workflow that addresses biosecurity and clinical needs
- 45% informed antimicrobial prescribing changes. 5% results informed infection control interventions or identified novel emerging hypervirulent organisms

AmPORE TB

Launching in 2025

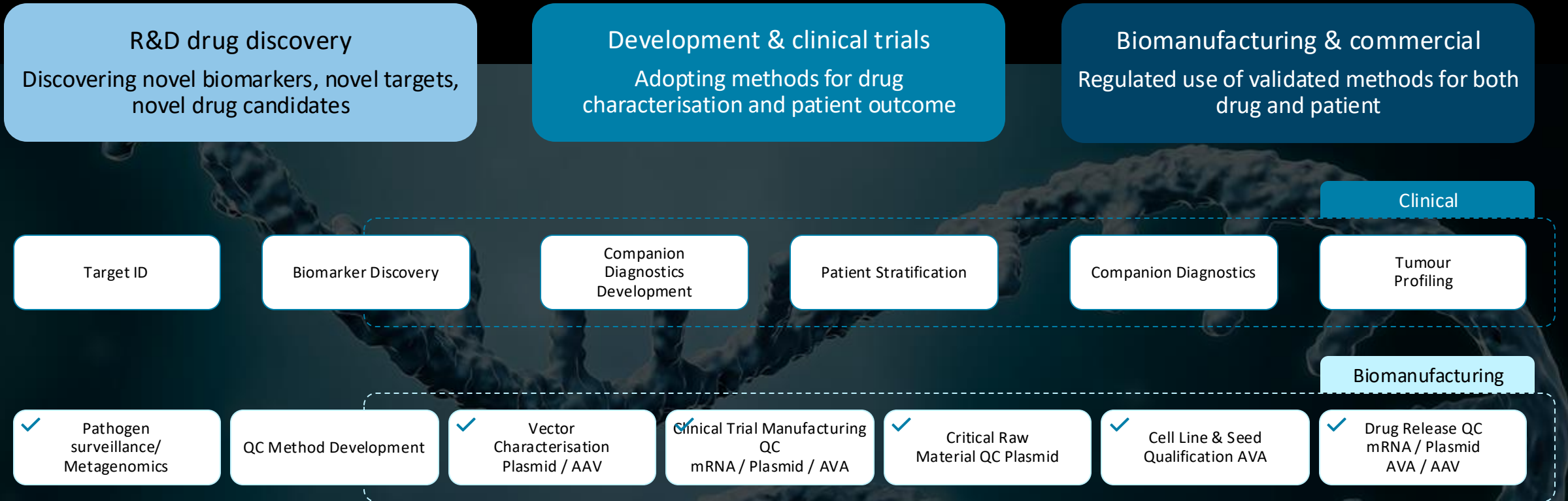
with BioMerieux



- AmporeTB added to global WHO recommendation
- High diagnostic accuracy to support decision making
- Fills crucial gap for detecting resistance to precious new and repurposed drugs
- Reduces time vs culture-based approaches (hours vs weeks)

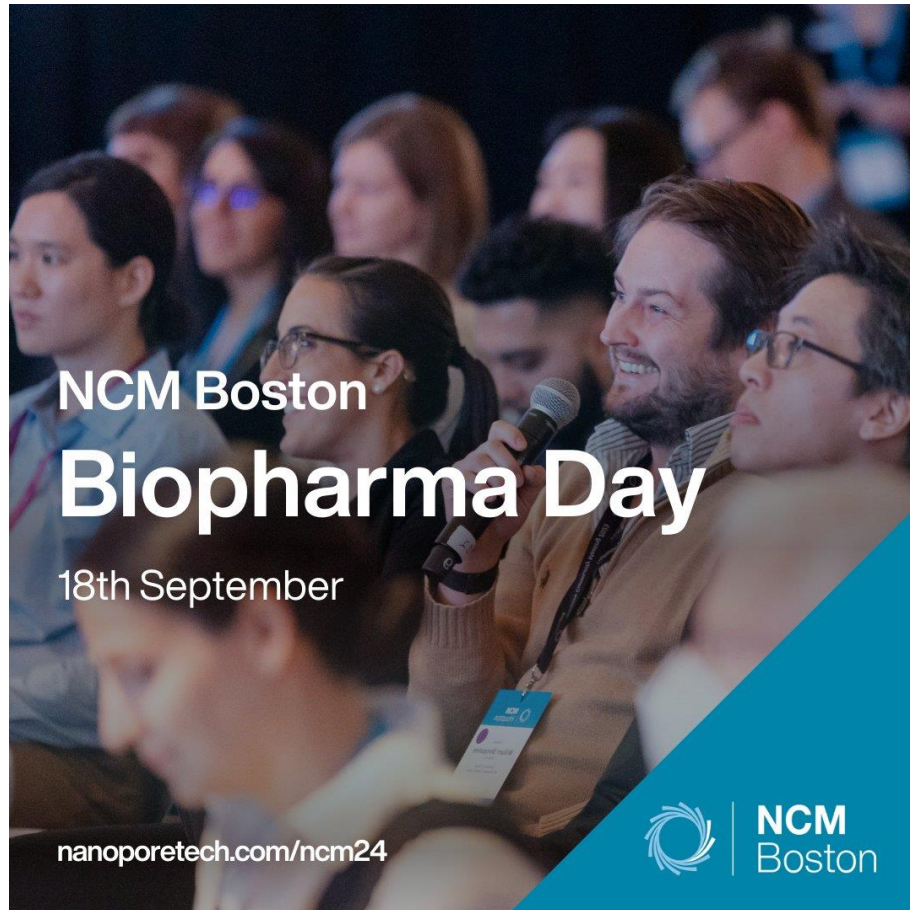
Providing solutions across the BioPharma pipeline

Accelerating the personalised medicine revolution




2024 Key steps forward in BioPharma

Building the network



NCM Boston
Biopharma Day
18th September

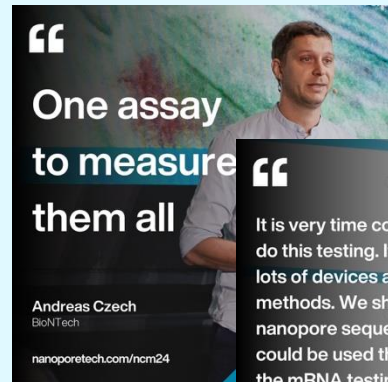
nanoporetech.com/ncm24

 **NCM Boston**

Network Building


BioPharma days

Bringing the industry together as they
Conduct their evaluations of nanopore




“
One assay
to measure
them all”

Andreas Czech
BioNTech
nanoporetech.com/ncm24



“
It is very time consuming to
do this testing. It requires
lots of devices and many
methods. We showed that
nanopore sequencing
could be used throughout
the mRNA testing process.”

Helen Gunter
The BASE Facility, The University of Queensland
nanoporetech.com/ncm24

 **NCM Boston**

Launched in 2024

GMP QC Identity test

Viruses – viral vectors –
bacteria – other haploid organisms



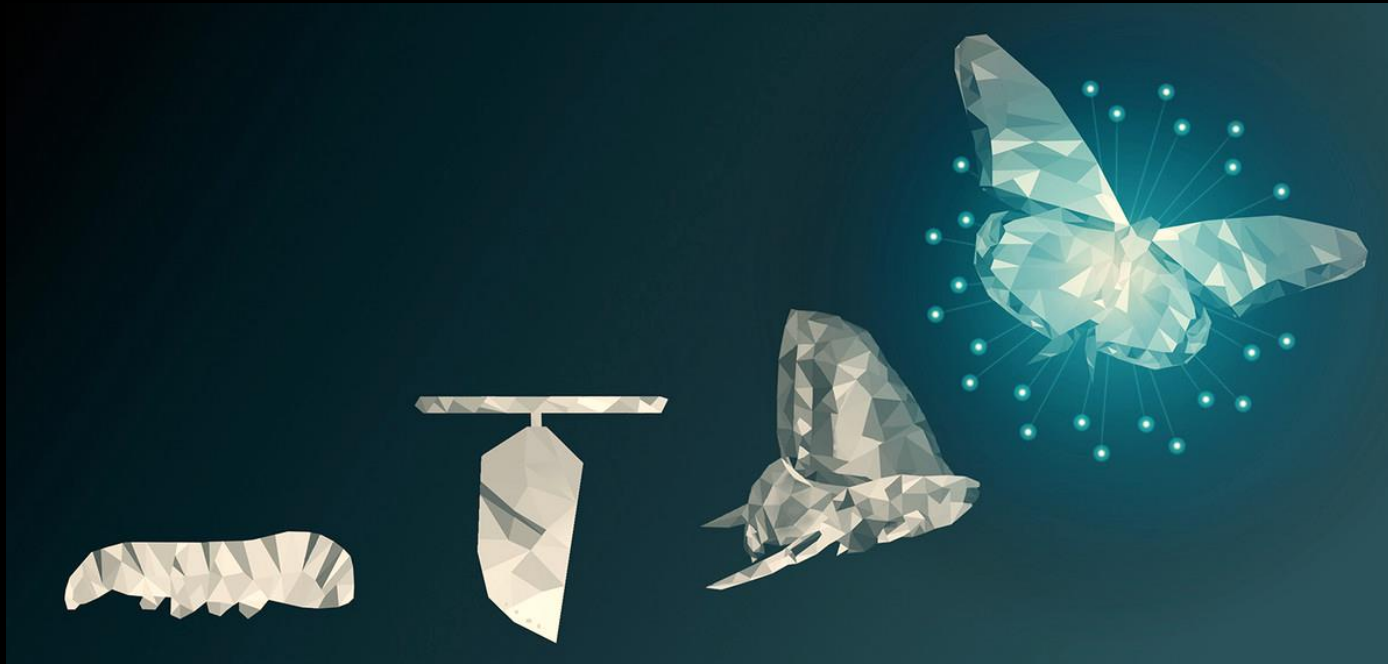
We continue to innovate for research – and lock down for applied

01.

02.

03.

04.



Beta

Registration based
Early Access

Open Early
Access

Released



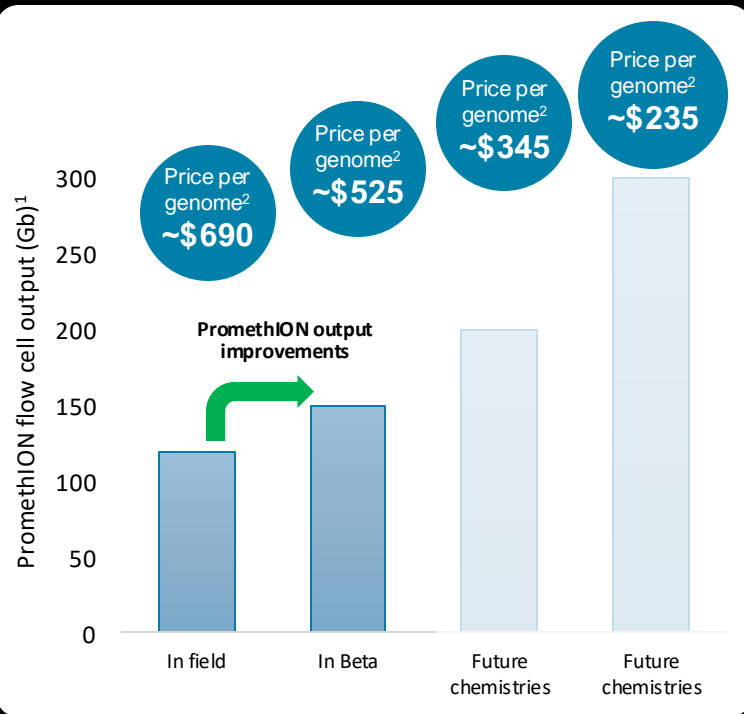
Q-Line

Locked down software & chemistry
Robust platforms

2025: An exciting year ahead

Innovation roadmap

Building on our strengths PromethION output improvements



Upgrading and expanding our menu of end-to-end workflows

High Throughput Barcoding for large programmes

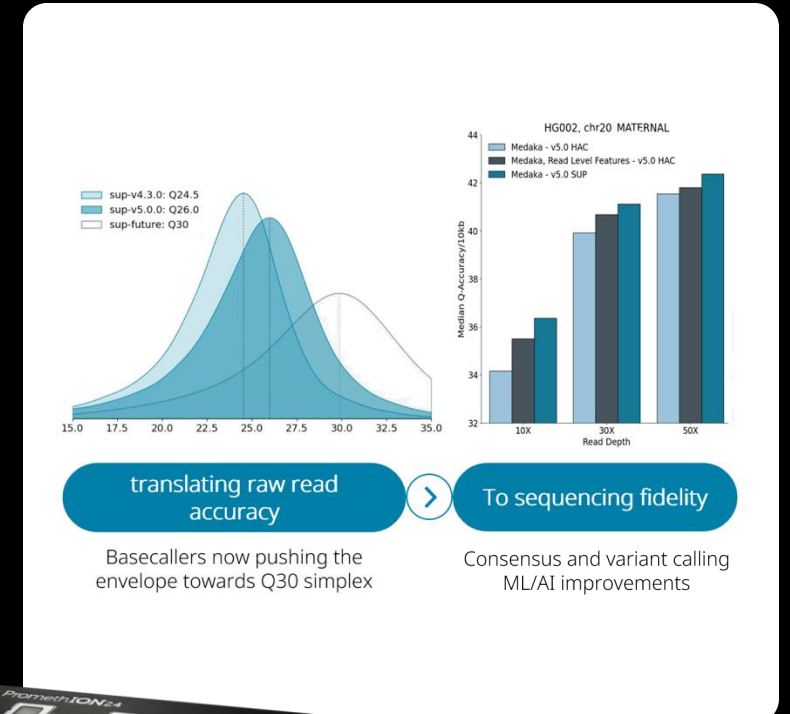
Obtaining full-length isoforms from single cells with nanopore sequencing

Rapid WGS for NICU settings

Rapid, distributed PGx sequencing for a "one and done" solution

Respiratory metagenomics surveillance

Enriching the accuracy conversation from metrics to outcomes



Expanding Q-Line range with PromethION Q



1. PromethION output running human end-to-end workflow at production scale customer sites
 2. Price per 30X genome includes flow cell and sequencing kit

Things I'm excited about 2025

From innovation to transformation: Direct RNA

Our innovation team create world leading products

nature methods

"RNA sequencing long involved a proxy: analysis of cDNA...This changed with the advent of direct RNA sequencing using nanopore..."

The New York Times

"DNA has received an immense amount of attention.... one that I believe will play an even bigger role in furthering our understanding of human life: RNA."

Direct RNA Sequencing | Oxford Nanopore Technologies

Our customers explore applications today

Nanopore direct RNA sequencing finds cancer's 'fingerprint' to improve early detection

by Center for Genomic Regulation



UC SANTA CRUZ

NEWSCENTER

Home / 2023 / August / New blood test for noncoding RNA significantly improves cancer detection

New blood test for noncoding RNA significantly improves cancer detection

A novel liquid biopsy technology developed by Assistant Professor of Biomolecular Engineering Daniel Kim's lab leverages RNA "dark matter" to enhance cancer diagnosis

August 31, 2023
By Emily Cerf

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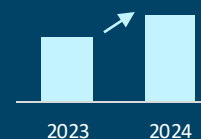
REVIEW | [Open Access](#) | [CC BY](#)

Applications of Nanopore sequencing in precision cancer medicine

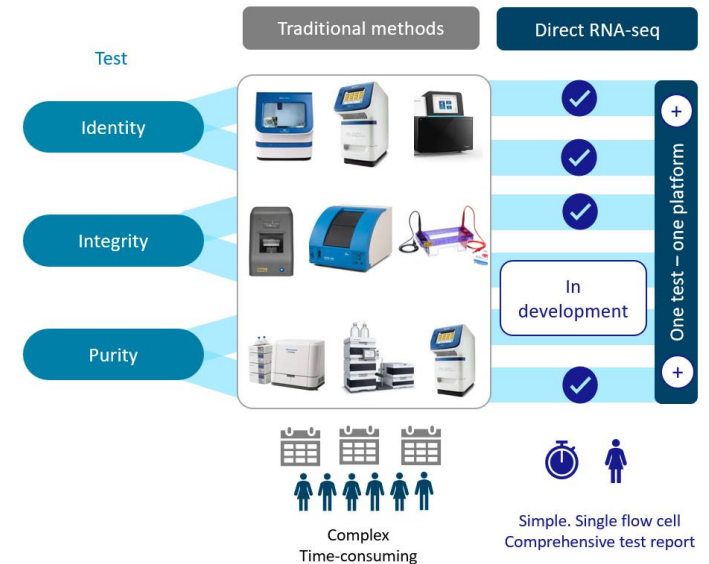
Sergey A. Dyshlovoy, Stefanie Paigin, Ann-Kristin Afflerbach, Annabelle Lobermeyer, Stefan Werner

RNA004 increased utilisation by 35%

Direct RNA experiments run on MinION & PromethION



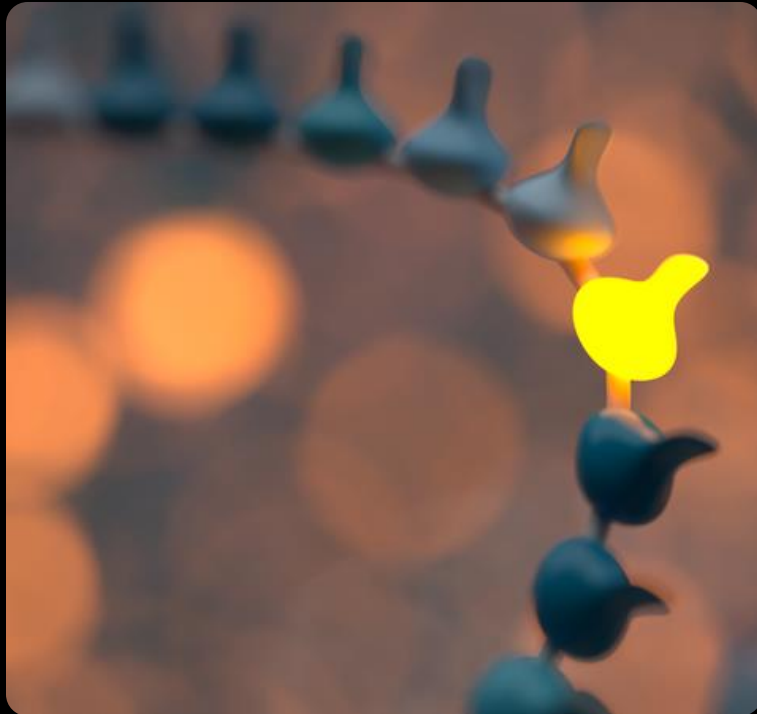
Our team work with industry partners to create applied products for tomorrow



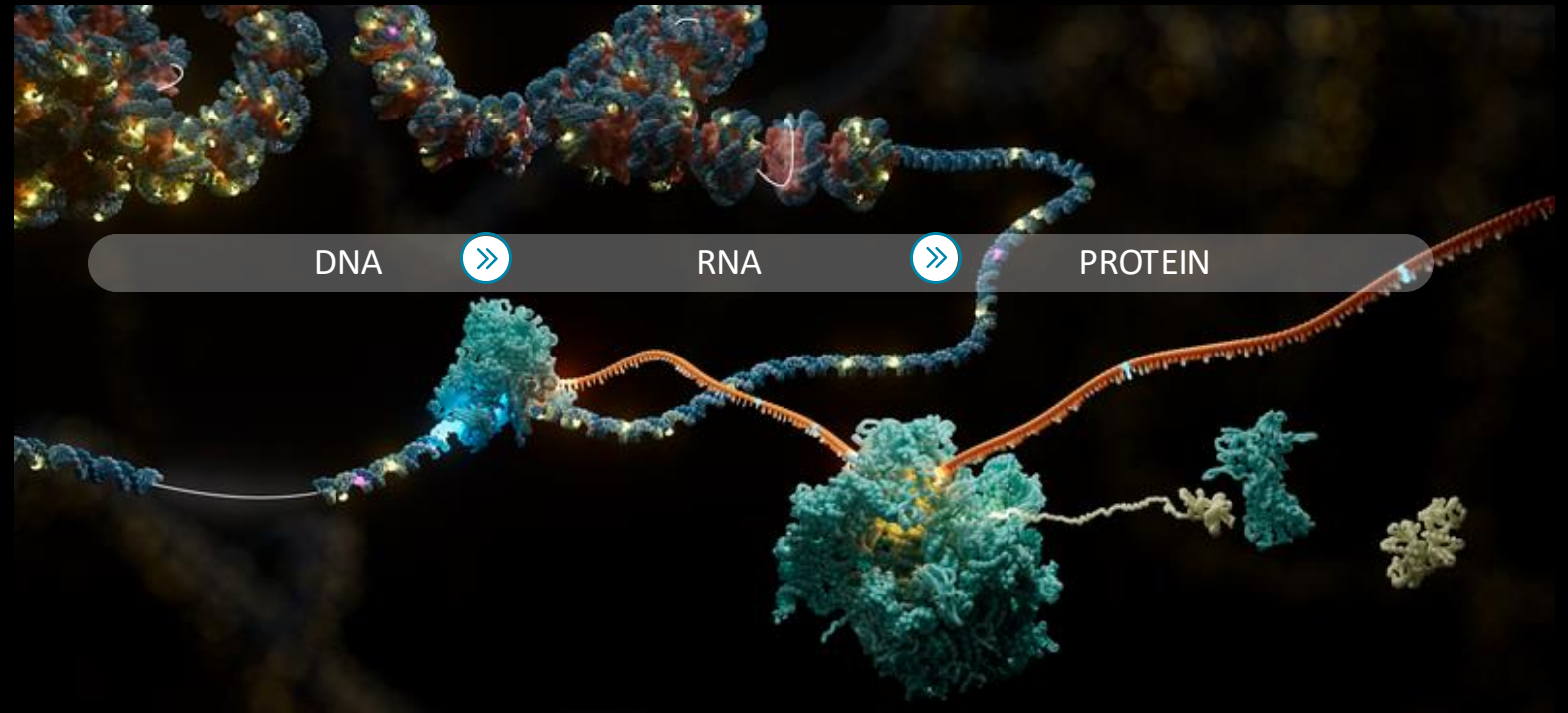
Things I'm excited about 2025

From innovation to transformation: Our multi-omic journey

Creating a new methylation standard

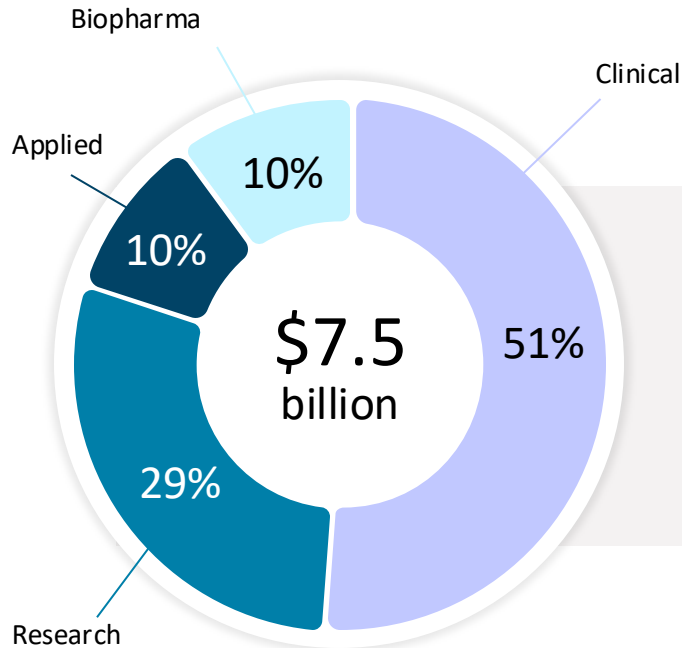


Exploring the central dogma



Market Opportunity reflects Oxford Nanopore differentiated platform

Current Opportunity:



Broader opportunities unlocked by:

- Richer multiomic data
- Faster insights
- Accessibility and affordability

Includes existing spend across:

- DNA/RNA sequencing in 2025 (\$6.8bn)
- + Sanger sequencing market in 2025 (\$667m)

Beyond today's market

Richer molecular insights to enable decisions at the point of need, from health to industry

- Current overall molecular analysis market ~\$24bn

Long term vision

Towards anything, anyone, anywhere.
Broad opportunities for distributed analyses

- Current overall life science tools market ~\$75bn (DeciBio, includes sequencing plus broad life science tool technologies)
- Models show >\$100bn opportunities for broad unmet needs met by molecular analyses

Medium term outlook: FY27 targets

>30% CAGR¹

Revenue

Medium term revenue growth underpinned by differentiated technology

>62%

Gross margin

Material scope for margin improvement over the medium term

2027

Adjusted EBITDA

Breakeven profitability in FY27 with operational leverage set to improve further in 2025

~£403m

Cash, cash equivalents and investments²

Strong balance sheet to support the business to and through EBITDA breakeven in FY27 and cash flow positive in FY28

¹ At constant currency

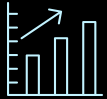
² At 31 December 2024

2024 numbers are unaudited preliminary numbers and subject to change

Key takeaways



FY24 results in-line with expectations; strong H2 growth underpins confidence in 2025+



Unique features and benefits driving platform adoption and utilisation; underpinning strong revenue performance



Focus on core end markets, products and applications that can deliver growth in tough market conditions



Substantial market opportunity beyond the current sequencing market that we can address



Financially well positioned to execute strategic priorities and achieve our medium-term targets



Thank you

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