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Sustaining long term growth and value creation

Alan Hirzel
CEO



### Sustaining long term growth and value creation

- Twenty year track record creating value
- Addressing large attractive markets
- Innovation and business model leading to many opportunities
- Five year investment plan led by a global team that makes results possible

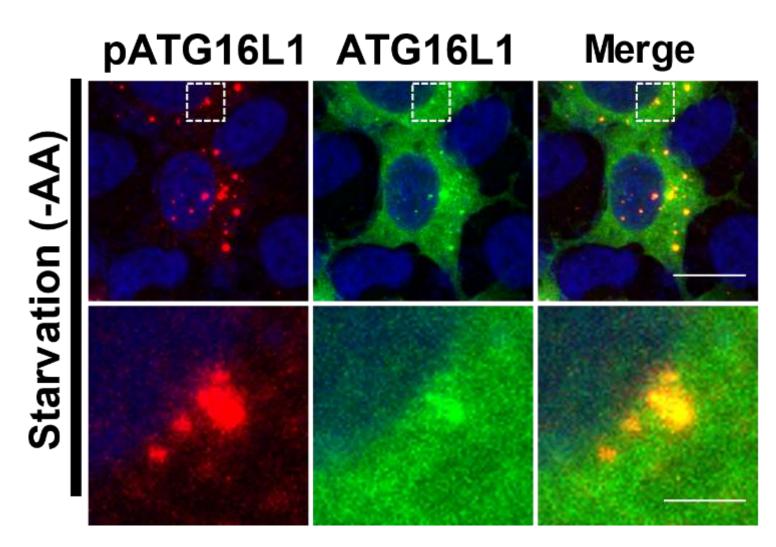




### Our customers trust us with their careers



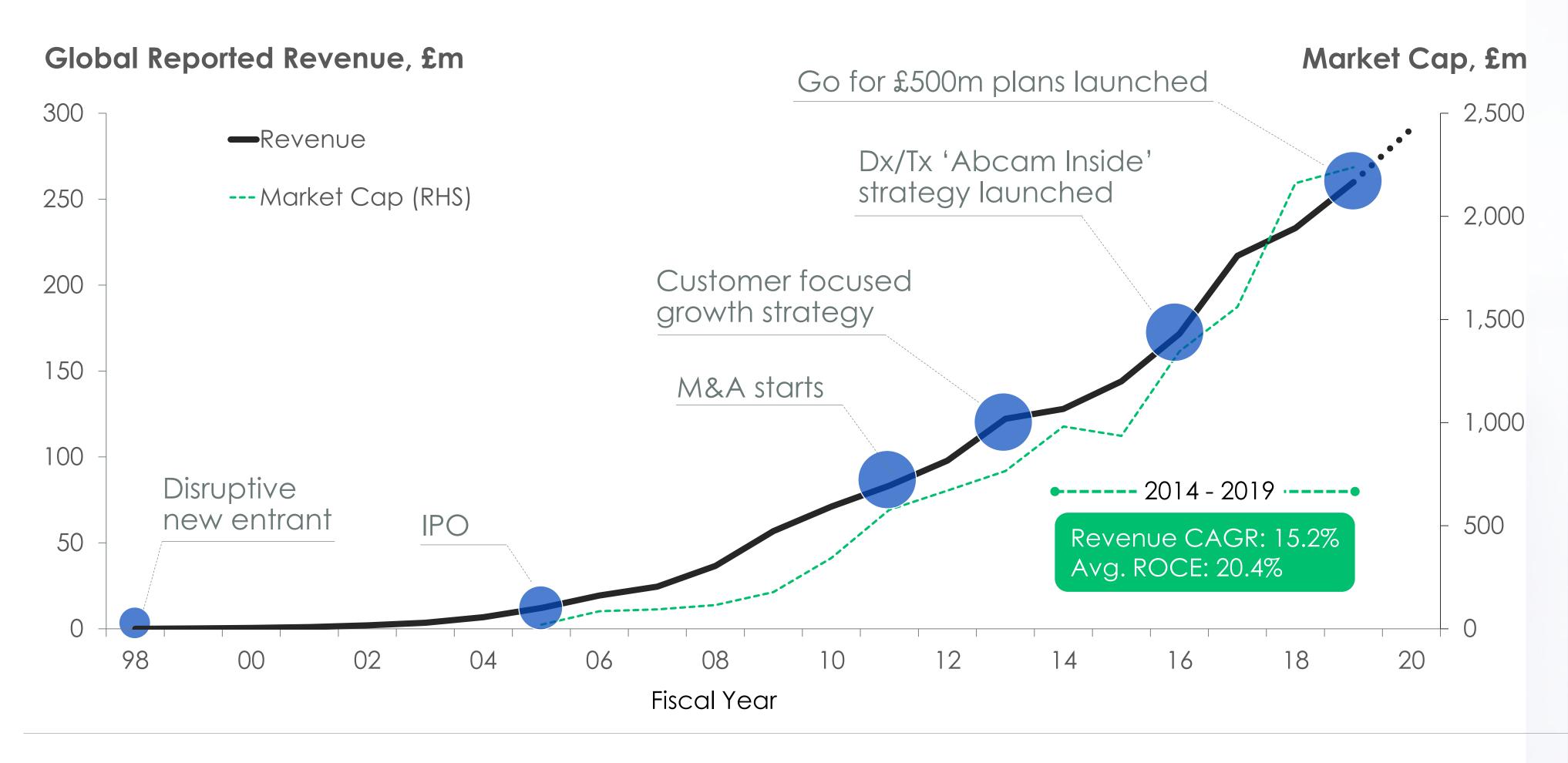
## Development collaborations drive first in world scientific impact



Abcam anti-pATG16L1 developed with Dr Ryan Russell; pre-publication in Nature Methods



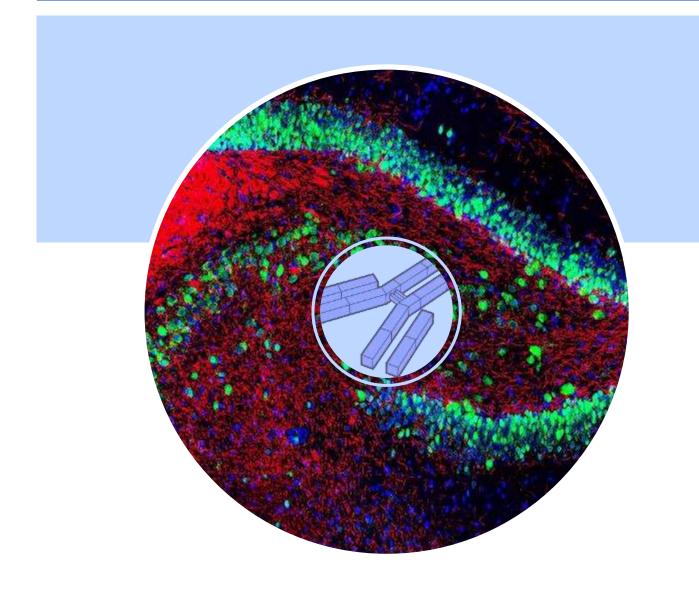
# Twenty years creating value as a disruptive growth company





## The next five years: A clear strategy to sustain growth and value creation

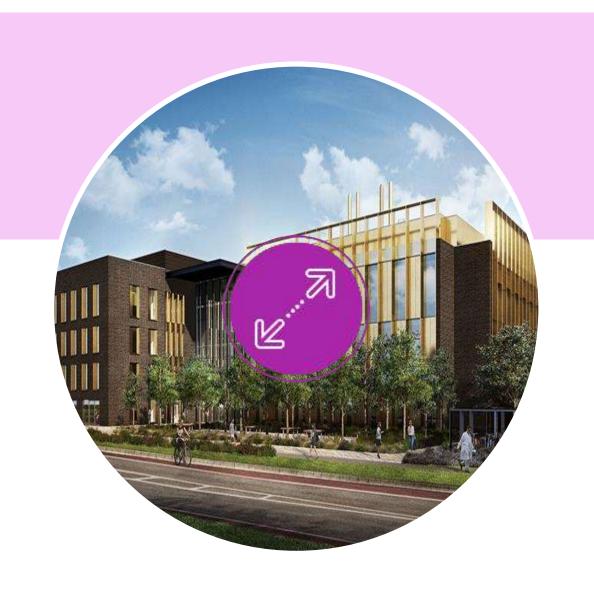
Sustain and extend antibody and digital leadership



Drive continued expansion into complementary market adjacencies



Build organisational scalability and sustain value creation



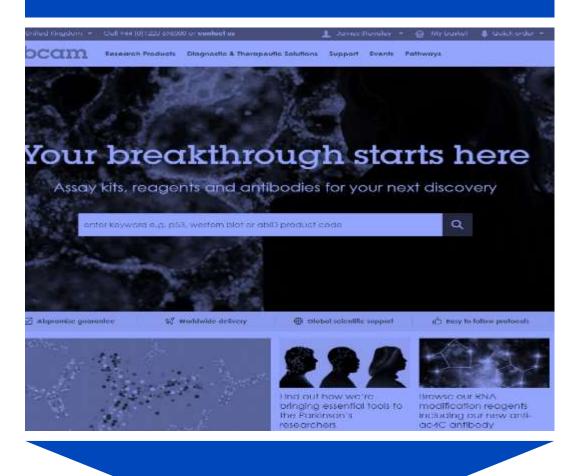


## The next five years: We are investing to remove constraints to growth

In-house capabilities for faster / broader innovation



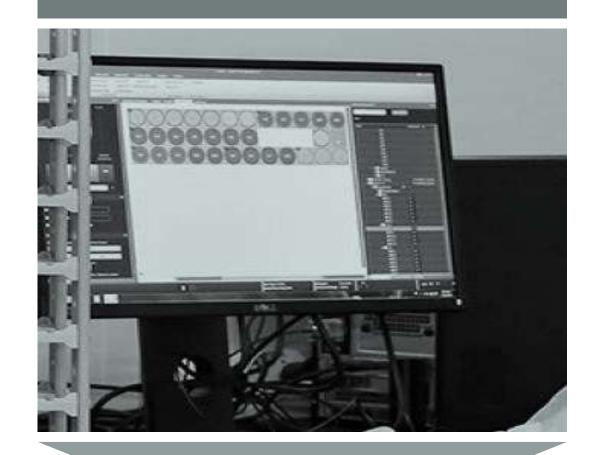
Customer experience and e-commerce



Operational capacity and efficiency



Other legacy IT



People: Organisation skills gap underpin all areas



## Strategy to drive incremental £200m+ in profitable revenue by 2024





### Our global team makes results possible Senior leadership team



John Baker SVP, Product Portfolio & Innovation



Yvonne Chien
SVP,
Customer Experience



Jac Price
SVP,
Supply Chain &
Manufacturing



Mark Dermody
Interim SVP,
Technology



Nick Skinner SVP, Human Resources



Gavin Wood
Chief Financial Officer



Cheri Walker SVP, Corporate Development



Innovating to enable scientific breakthroughs and expansion in research markets

John Baker SVP, Product Portfolio & Innovation

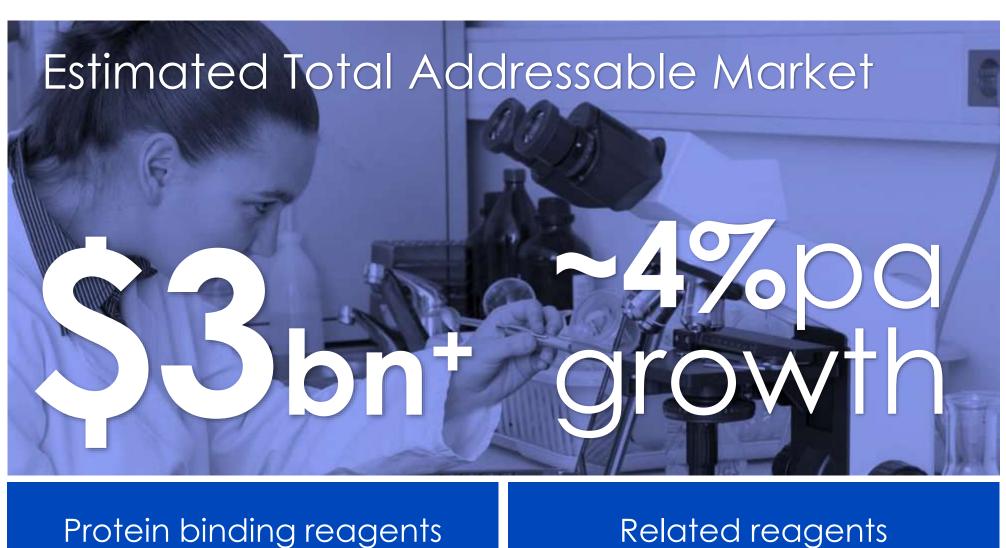


## Innovating to enable scientific breakthroughs and expansion in research markets



### Addressable market for research antibodies and related reagents \$3bn+

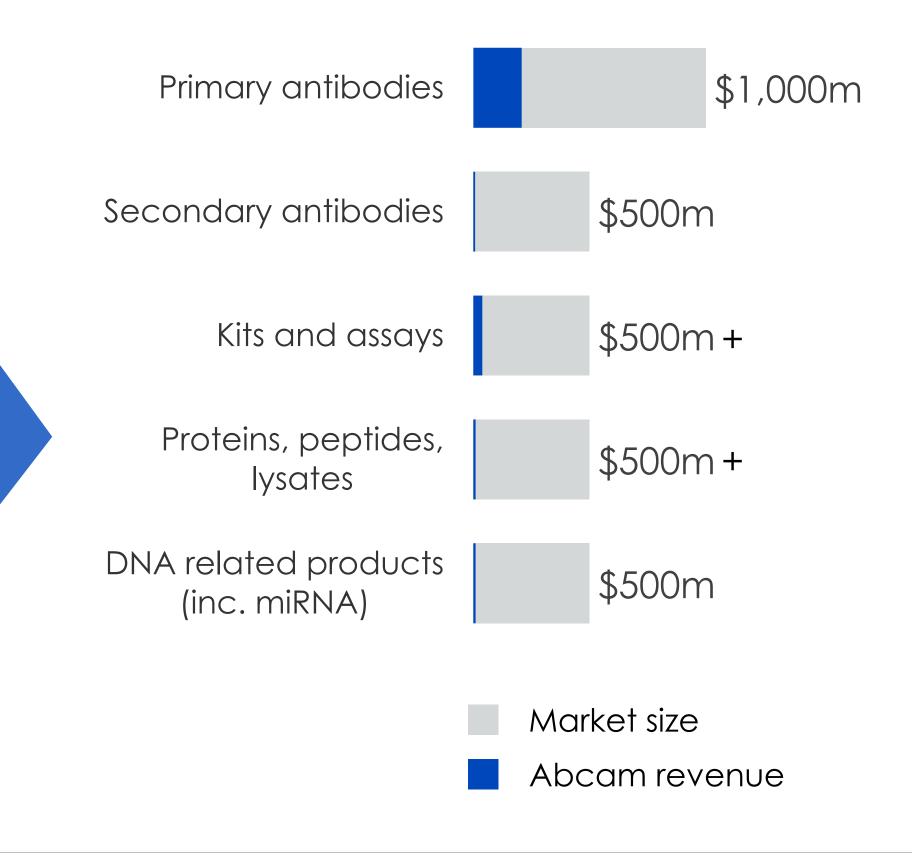
RESEARCH USE ONLY (RUO) PROTEOMIC TOOLS MARKET



Primary antibodies Secondary antibodies Singleplex immunoassays Multiplex immunoassays

Related reagents

Kits<sup>1</sup>, proteins, peptides, lysates, cell lines, biochemicals



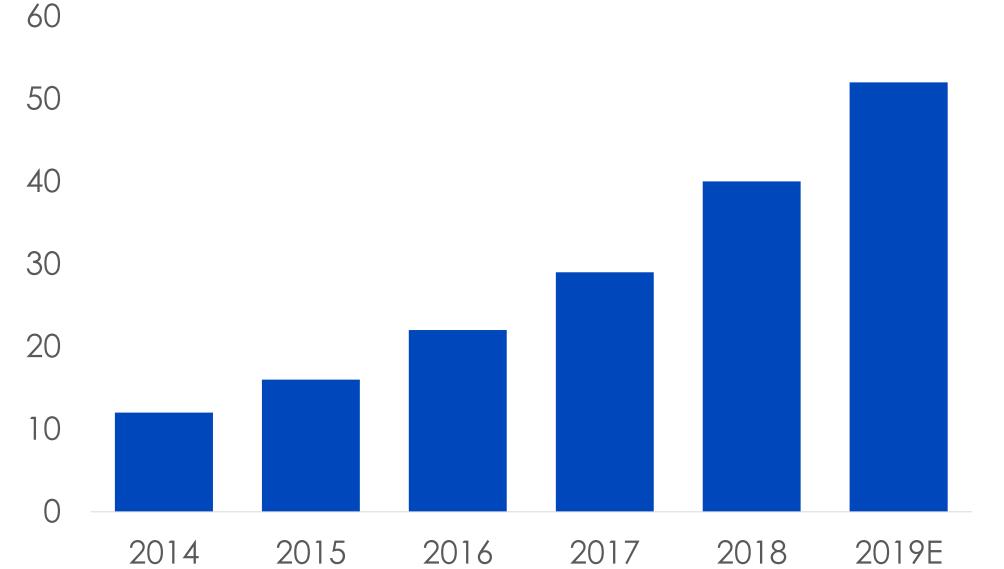




### Our focus is on sustaining market share gains and becoming more influential to life scientists

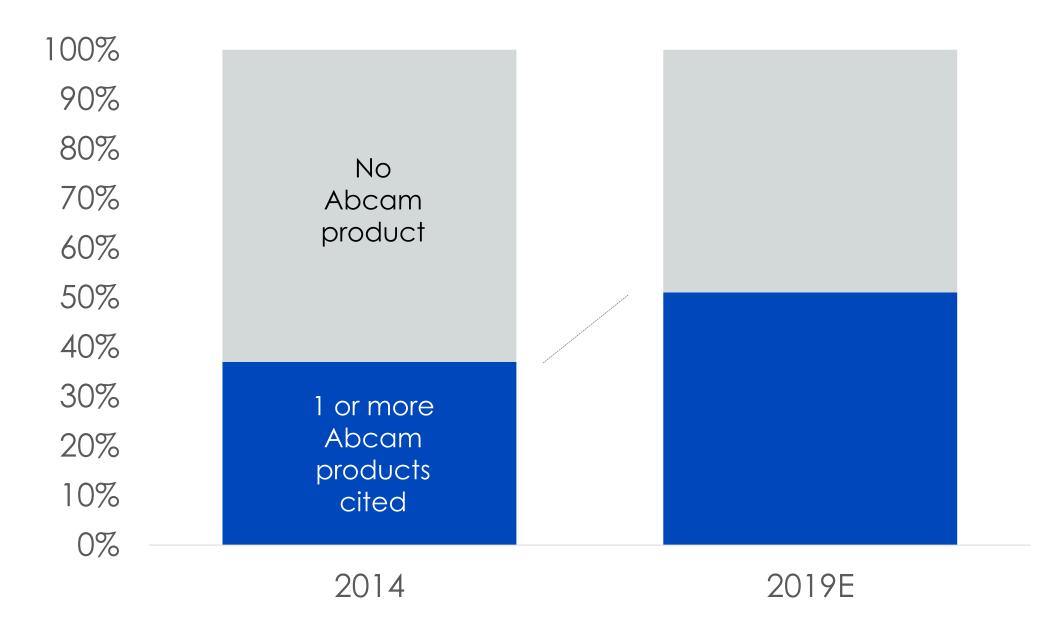
#### Abcam citations have been growing at >18% CAGR since 2014

Number of citations of Abcam products (K)



### In 2019, over half of all life sciences publications cite at least one Abcam product

Penetration of Abcam products in research

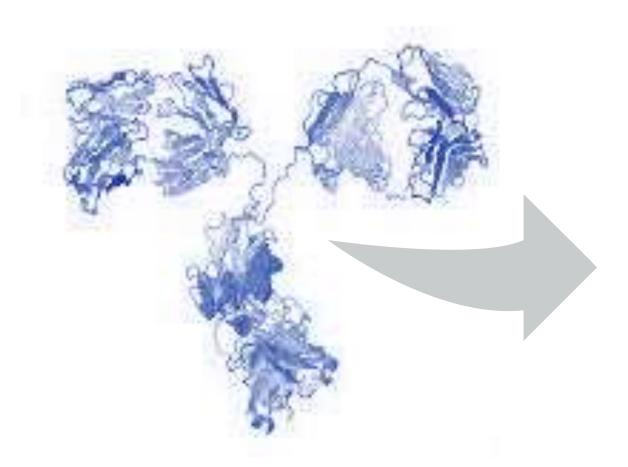




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## Antibodies are the fundamental active ingredients of proteomic research

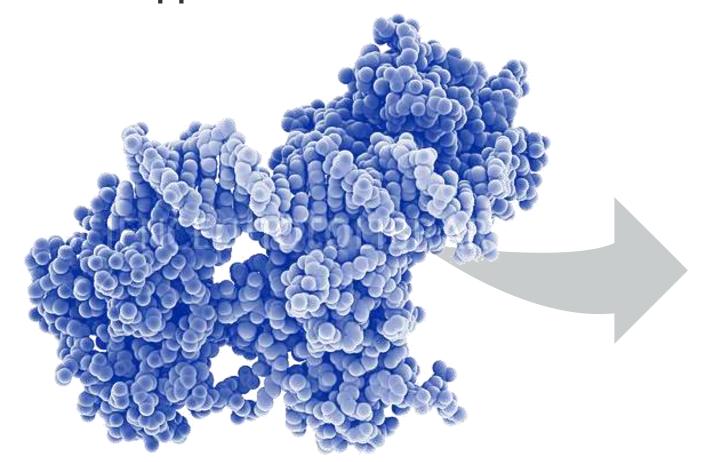
#### **Antibodies**



 Requirement for tools that are specific, sensitive and consistent

#### Proteins (target of interest)

millions of possible binding sites and applications



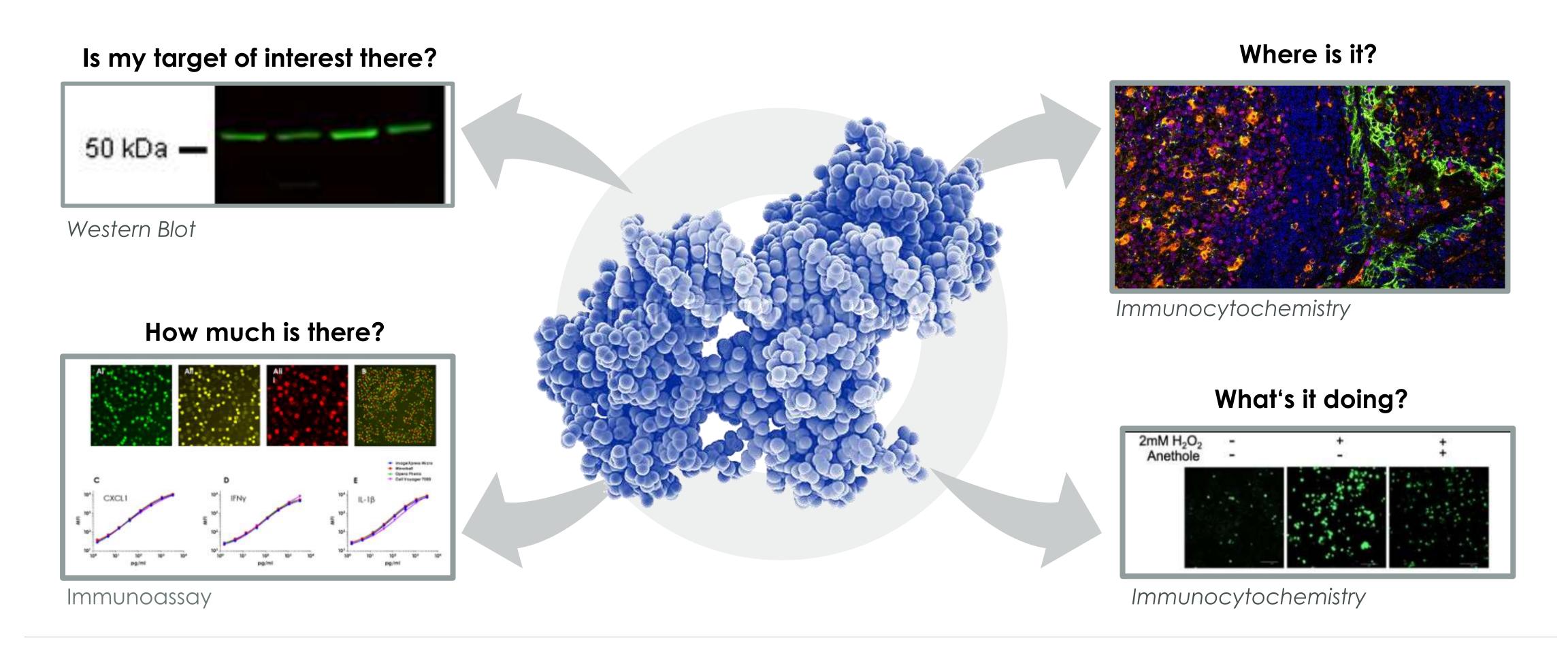
- Identification and location
- Quantification
- Protein expression profiling
- Structural and functional proteomics
- Detection of post translational modifications

#### Major research / disease areas

- Cancer
- Cardiovascular
- Cell biology
- Epigenetics
- Metabolism
- Developmental biology
- Immunology
- Microbiology
- Neuroscience
- Signal Transduction
- Stem Cells

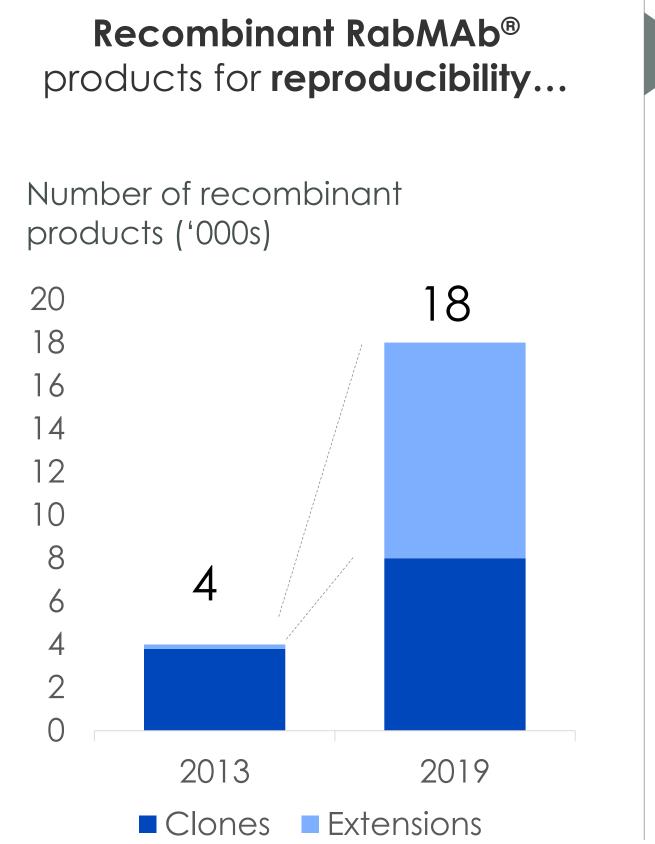


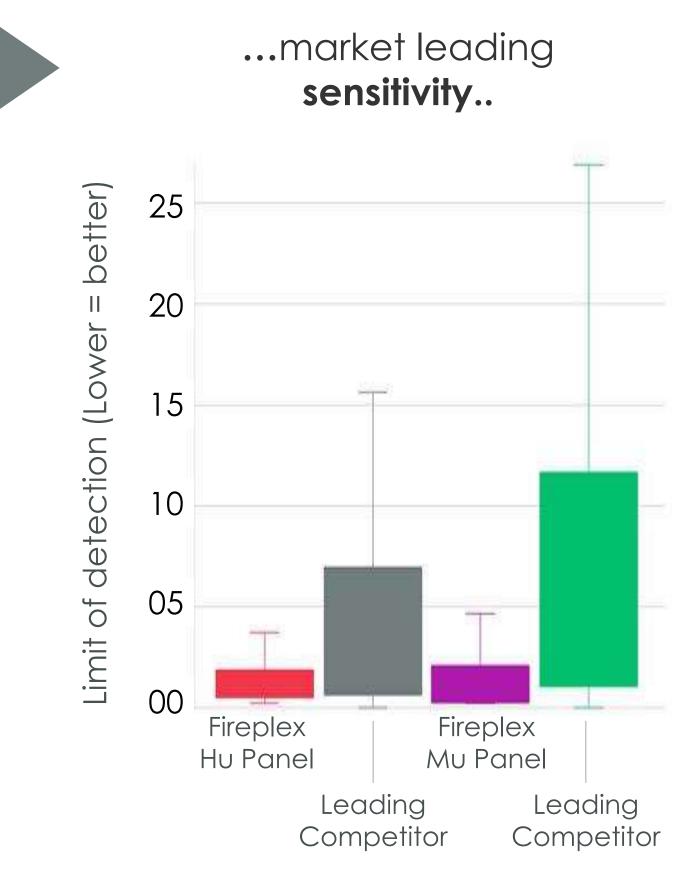
## Scientists use our antibodies to answer proteomics' most critical questions:

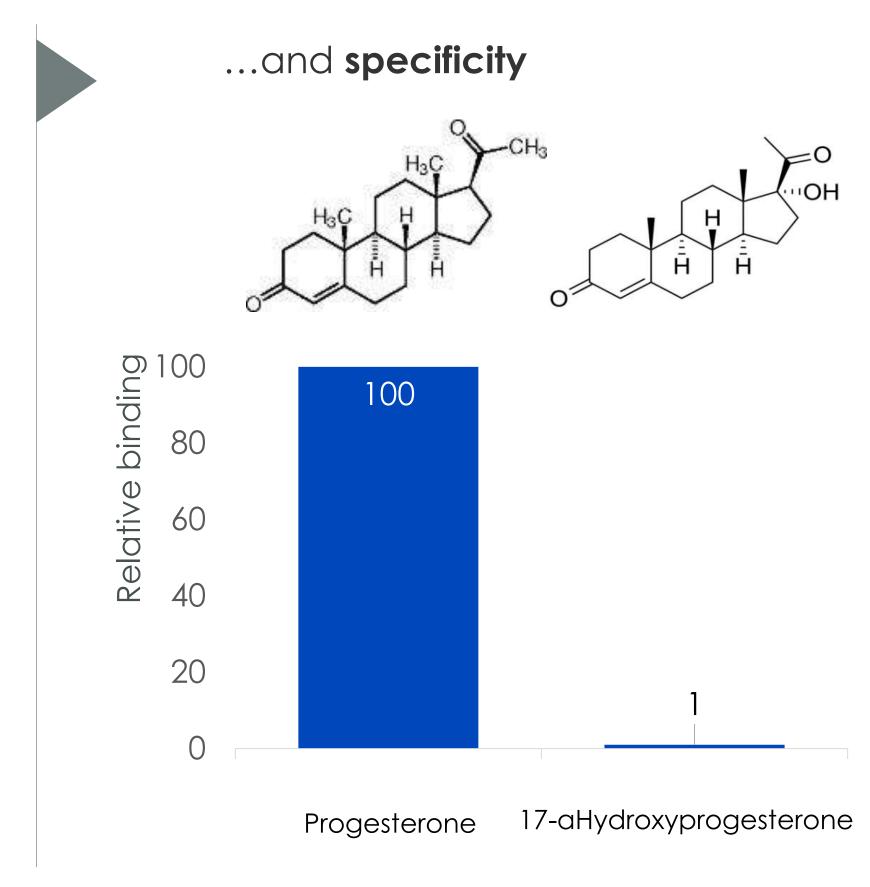




### Why our customers trust us Product performance





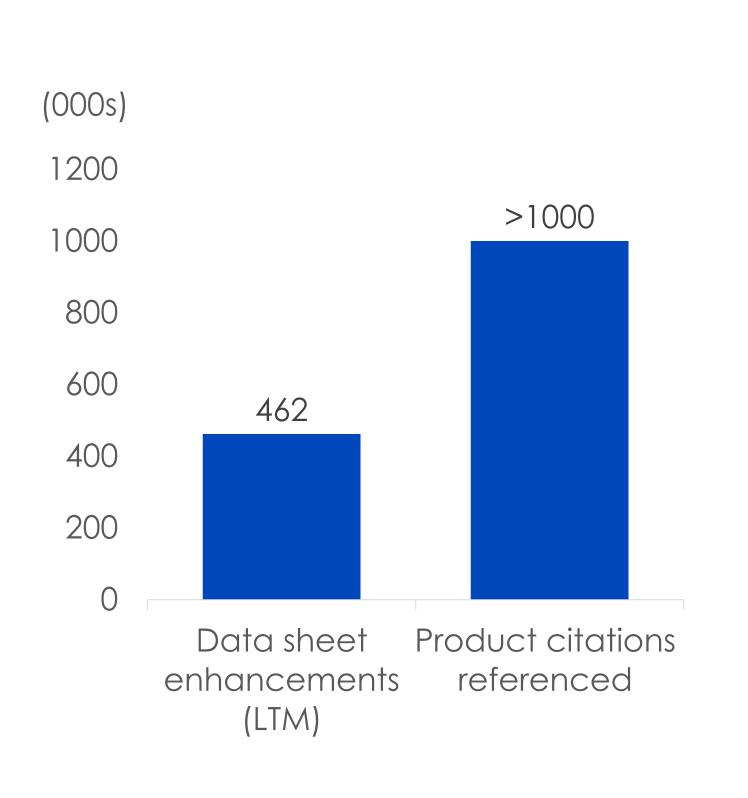




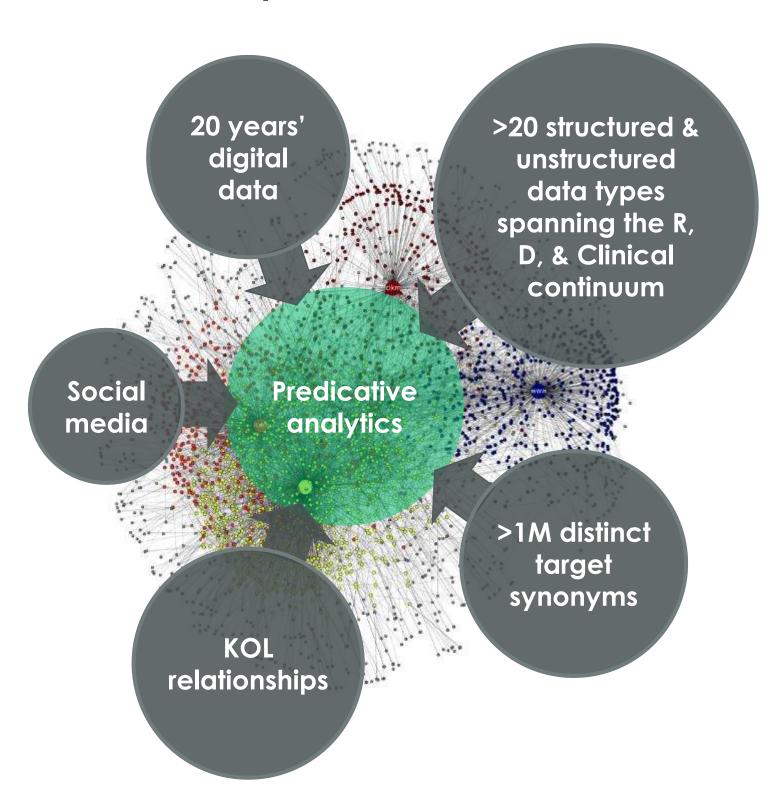
1) Source: Abcam analysis

## Why our customers trust us Data, insight, speed

#### Enriched customer data...



## ...utilisation of data insights to predict customers' needs

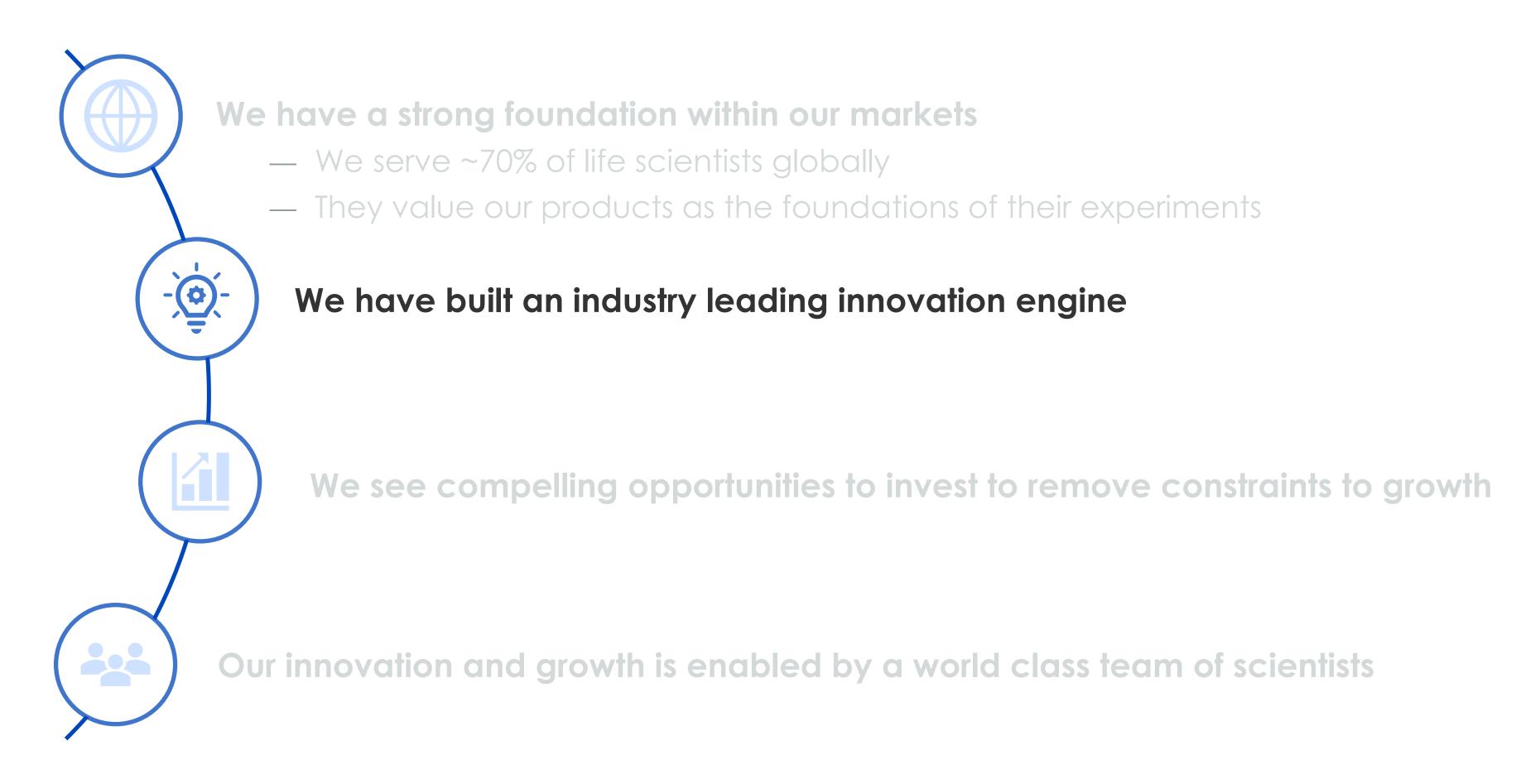


### ...and delivering at speed



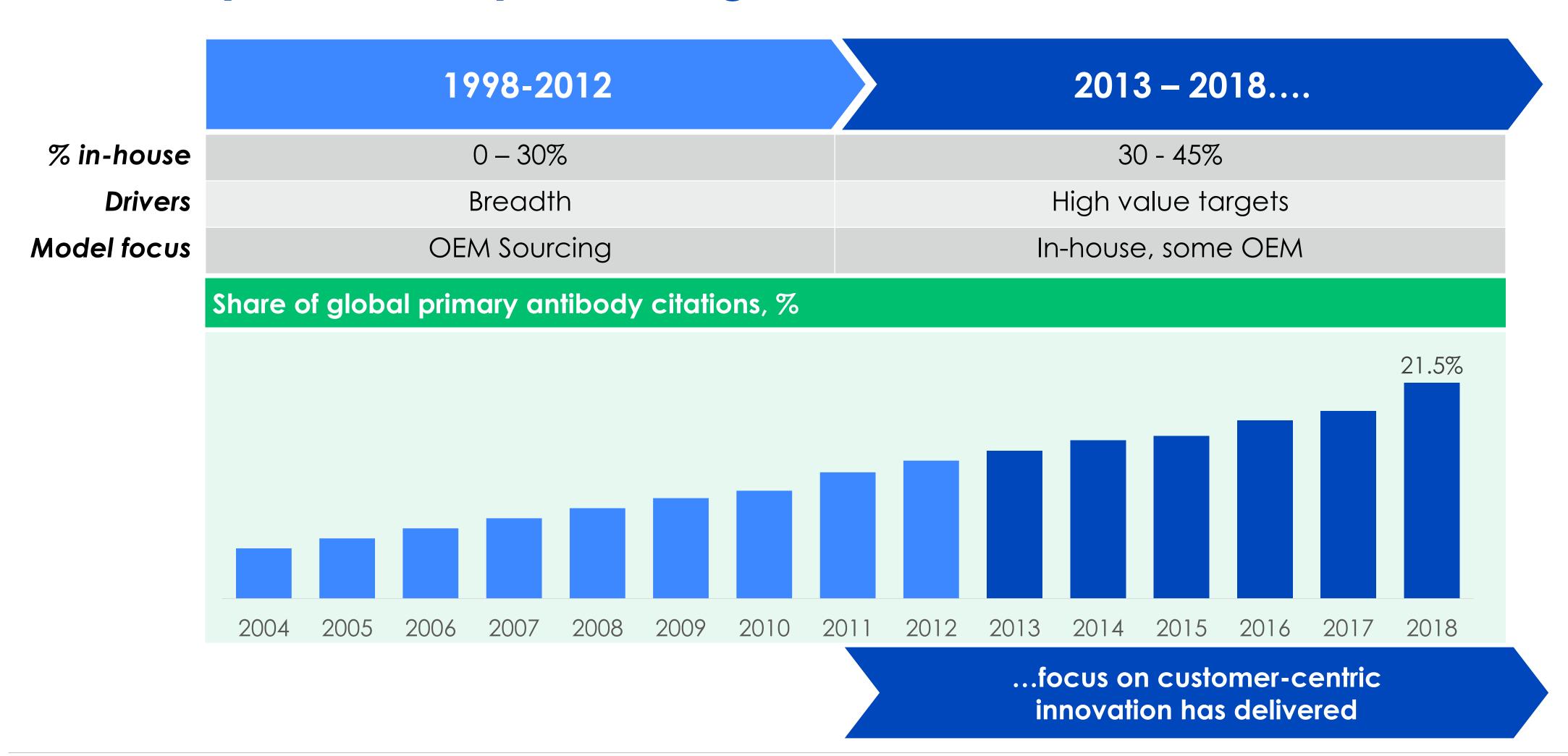


## Innovating to enable scientific breakthroughs and expansion in research markets



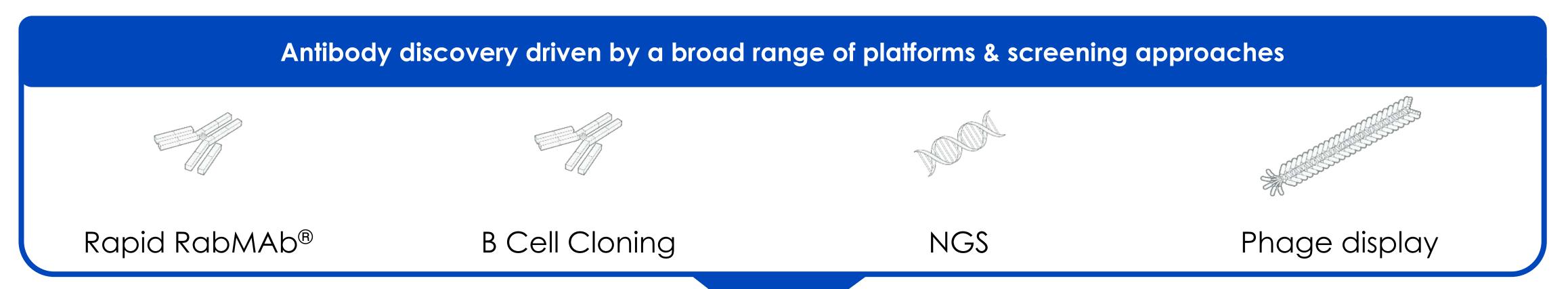


### Antibody leadership: Building a foundation





# Portfolio of best in class antibody discovery platforms supports generation of highest performance antibodies







<sup>1)</sup> New product Development

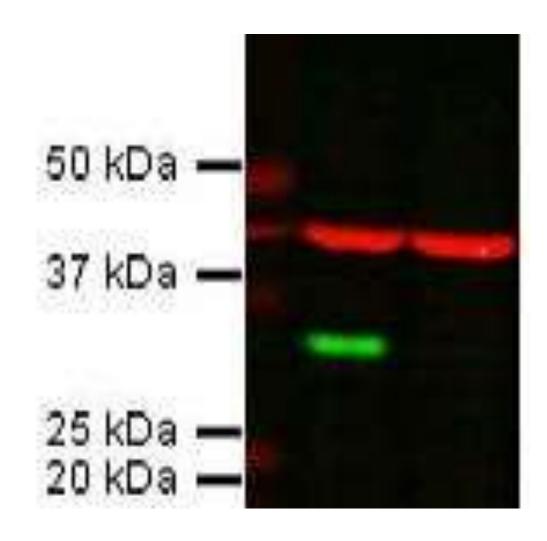
<sup>2)</sup> New products not selling in 12 months from launch



### ...supported by industry leading antibody validation data

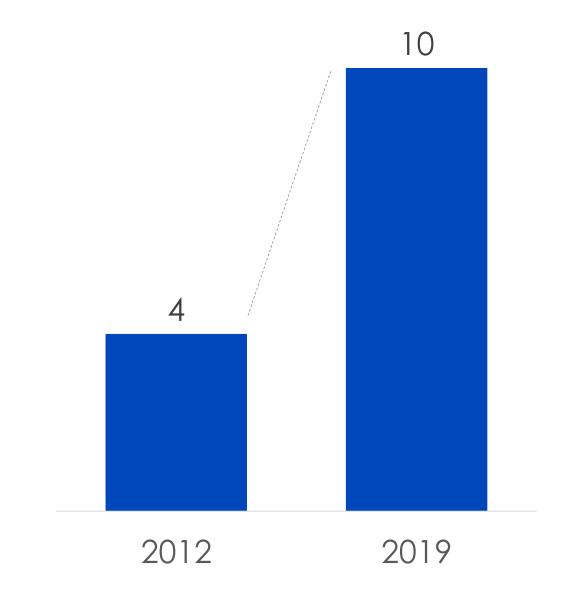
### Leading the field in knockout validation

>2,300 Antibodies KO validated to date

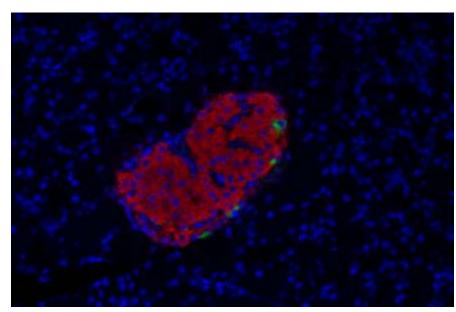


### Increasing range of applications validated

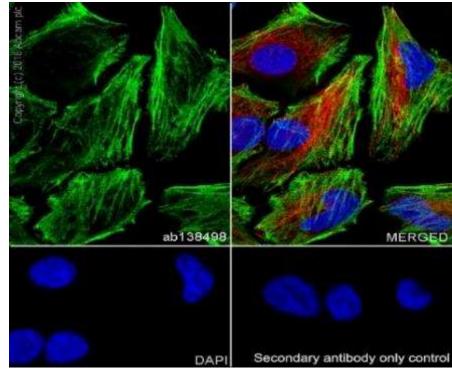
Average number of applications tested per antibody



### High quality images



Anti-Insulin antibody [EPR17359] (ab181547) in red, and anti-Somatostatin 28 antibod [EPR3359(2)] (ab111912) in green. Dapi in Blue.

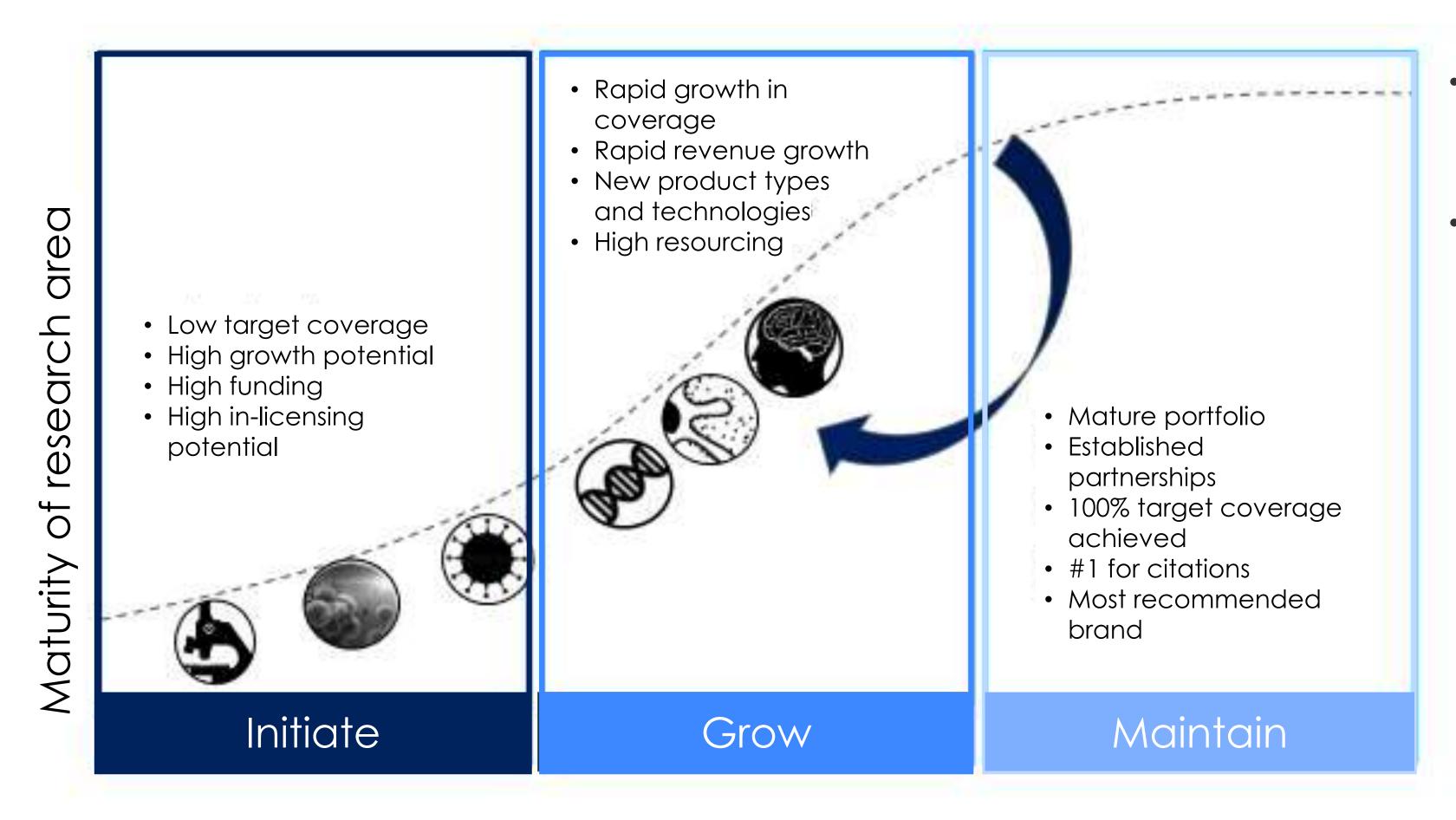


Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)





## Repeatable and successful model developed for antibody innovation



- Focus on high value targets in major research fields
- Adding products and capabilities to target other areas



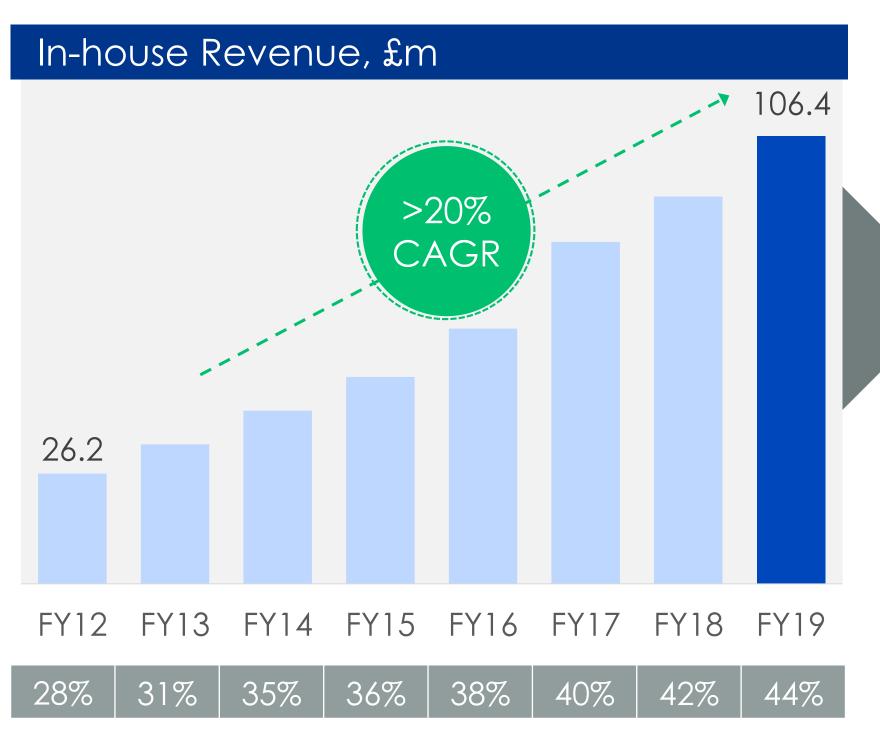
### Innovating to enable scientific breakthroughs and expansion in research markets







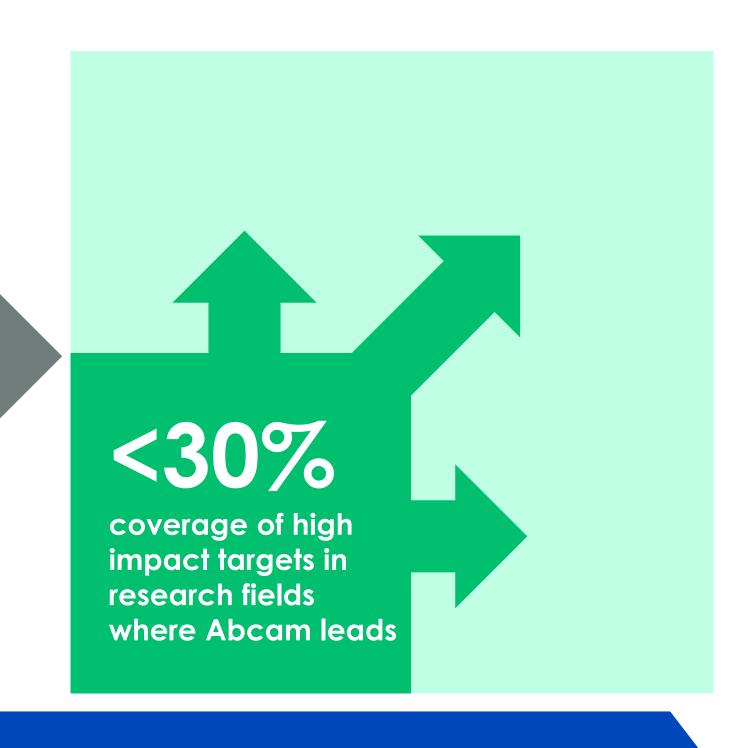
## Compelling opportunities to invest to sustain and extend leadership by removing constraints





#### focused on:

- High impact pathways
- Increased in-house development
- Strategic OEM partnership
- Licensing & growth investment

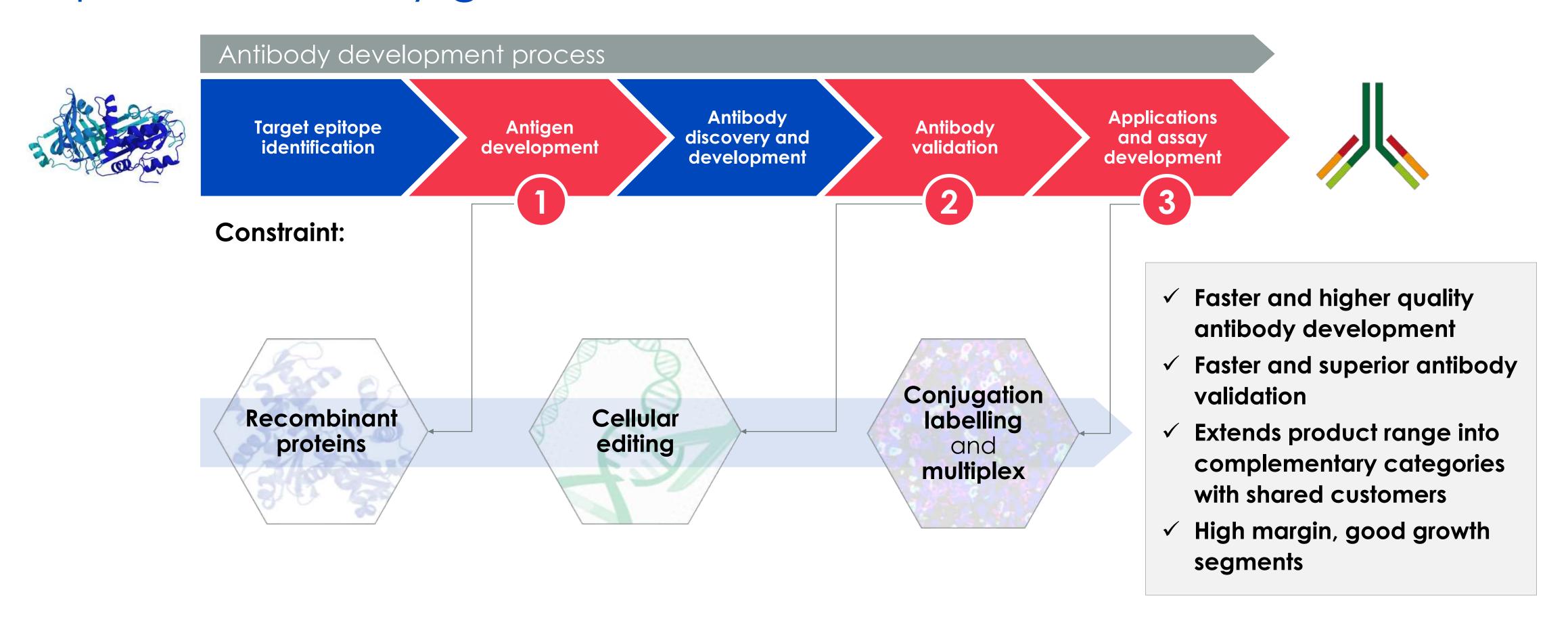


Ample headroom to grow in existing strongholds...





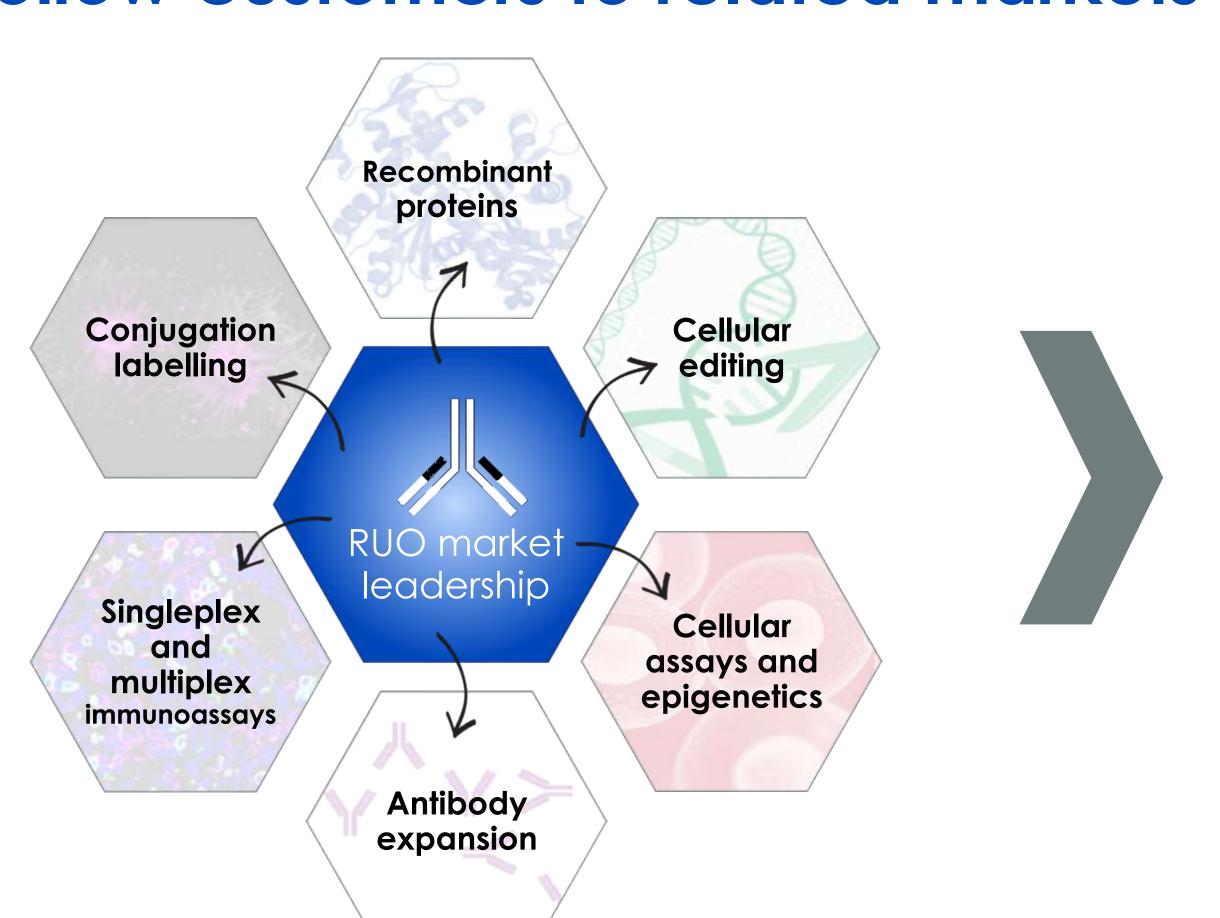
## Antibody leadership: removing constraints will unlock superior antibody growth







## Removing these constraints will also create opportunity to follow customers to related markets



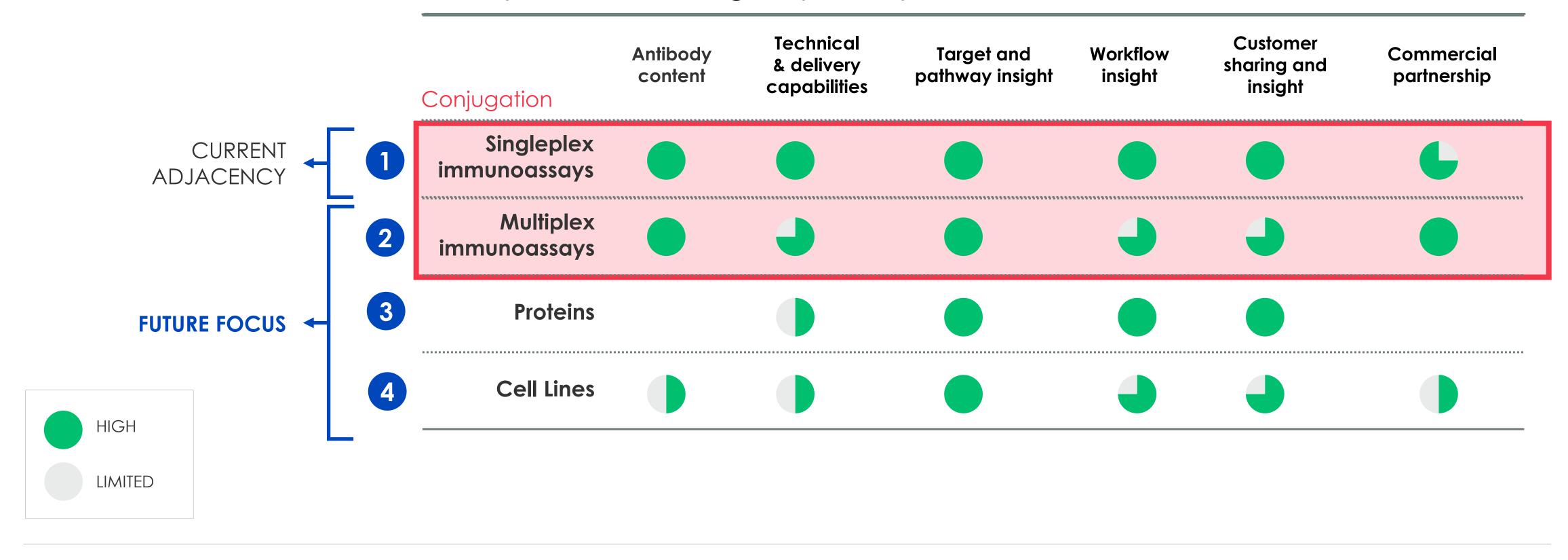
- » High customer overlap and known customer demand
- » Highly complementary product adjacencies greater ability to support customers with their research needs
- » Ability to leverage antibody assets and capabilities to support market penetration





## Ability to leverage existing capabilities and assets in market adjacencies important

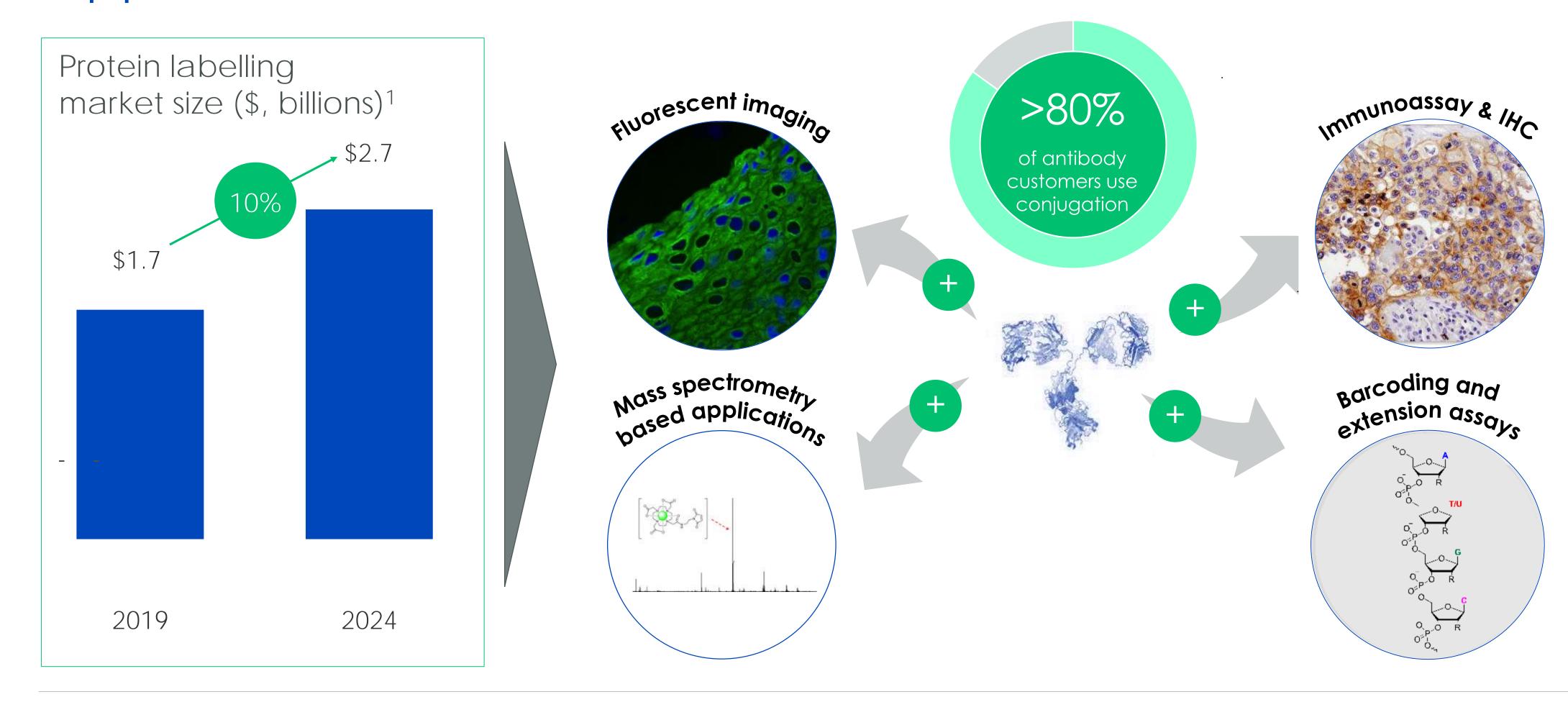
### Ability to use existing capability:







## Antibody conjugation: a core workflow enabler for multiple applications



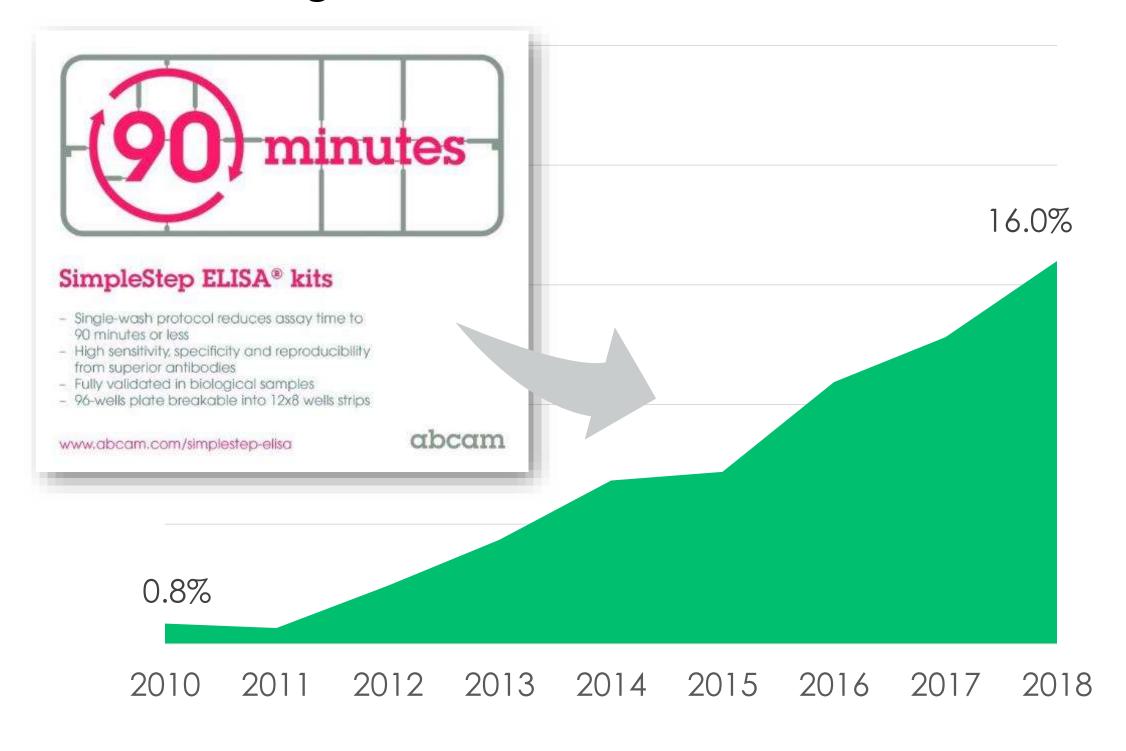




## 1 Singleplex immunoassays: an adjacency now part of our core

- Launched in-house in 2013
  - >960 SimpleStep ELISA and Matched Antibody Pair products published to date
  - 30% revenue CAGR '13-'19
- Powered by best in class recombinant antibodies, driving market leading sensitivity and specificity
- Homogenous assay format minimises overall run time and hands on time for customers

### Share of global ELISA<sup>1</sup> citations, %



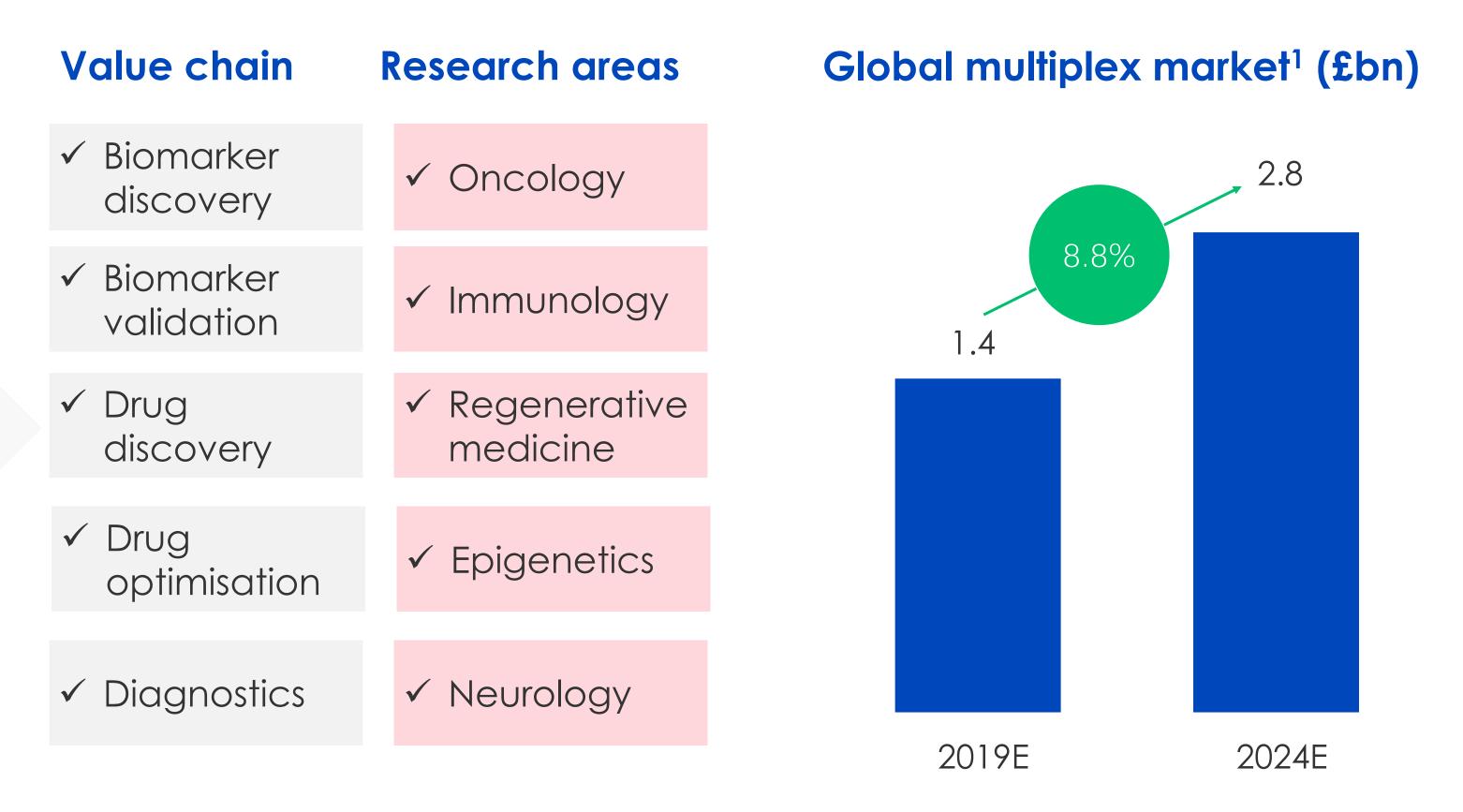


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### Multiplex immunoassays: attractive market which enables Abcam to expand in valuable niches

- Large market
- Significant growth potential driven by drug discovery and diagnostics
- Relevant across multiple research areas

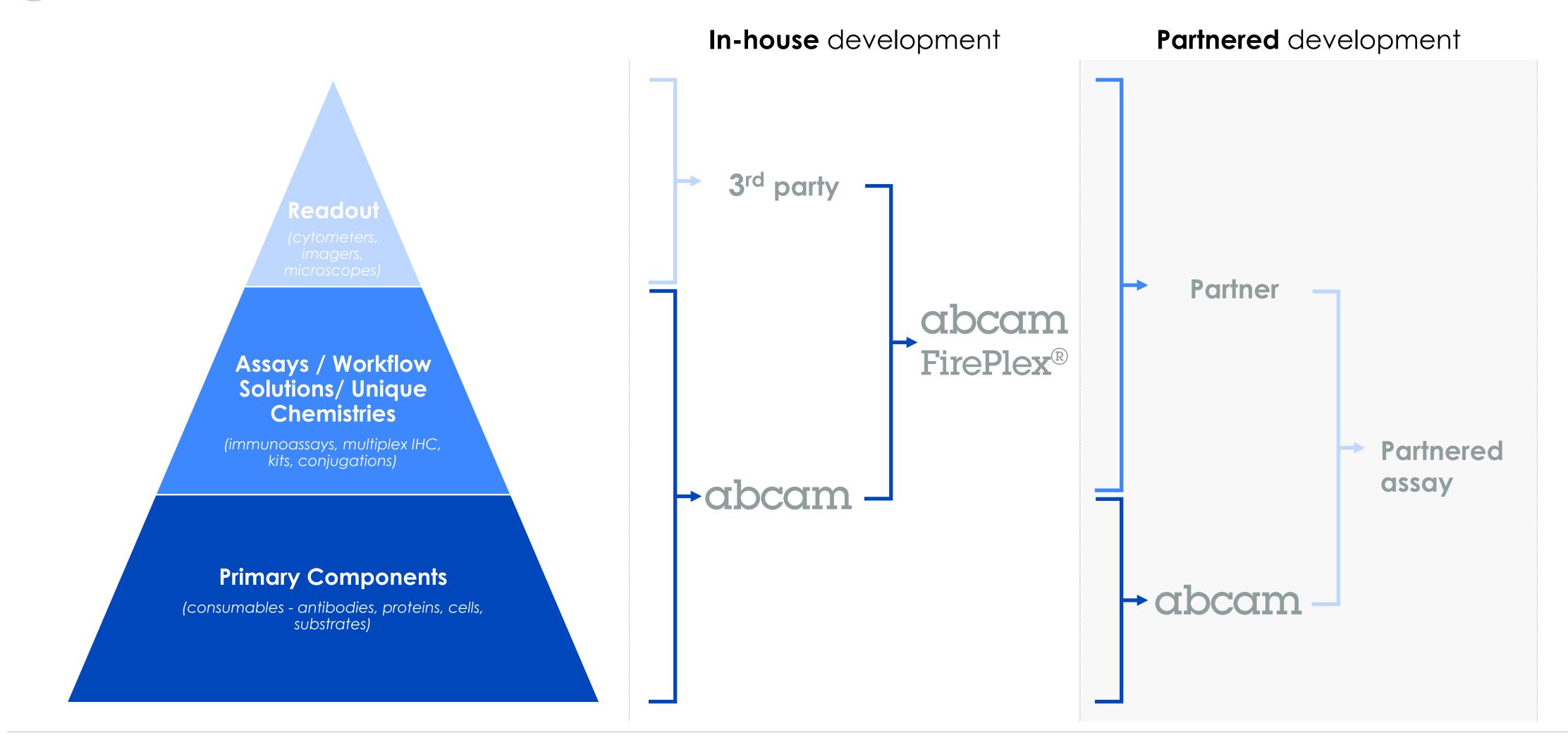


...supporting continued growth and customer base diversification





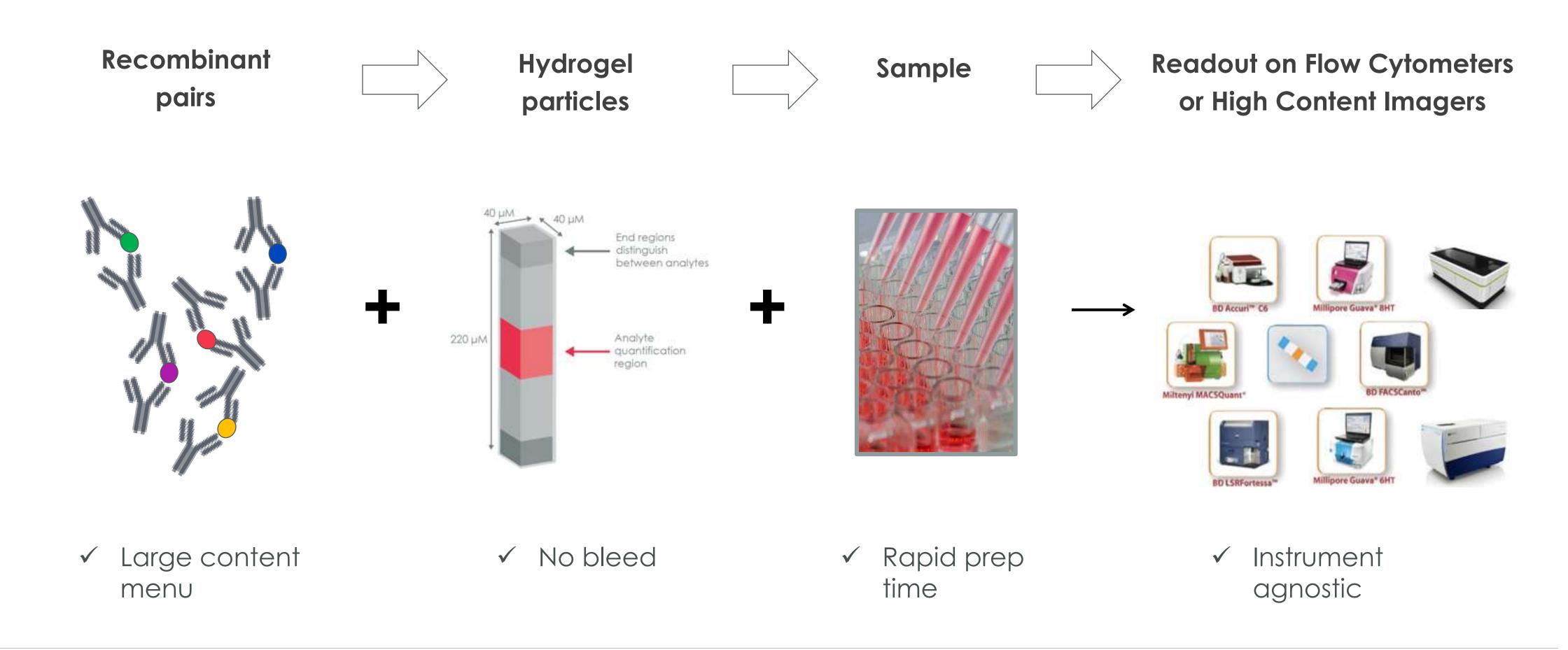
## 2 Multiplex immunoassays: two strategies to grow







# 2 In-house Multiplex: Fireplex® – a proprietary, instrument-agnostic assay platform

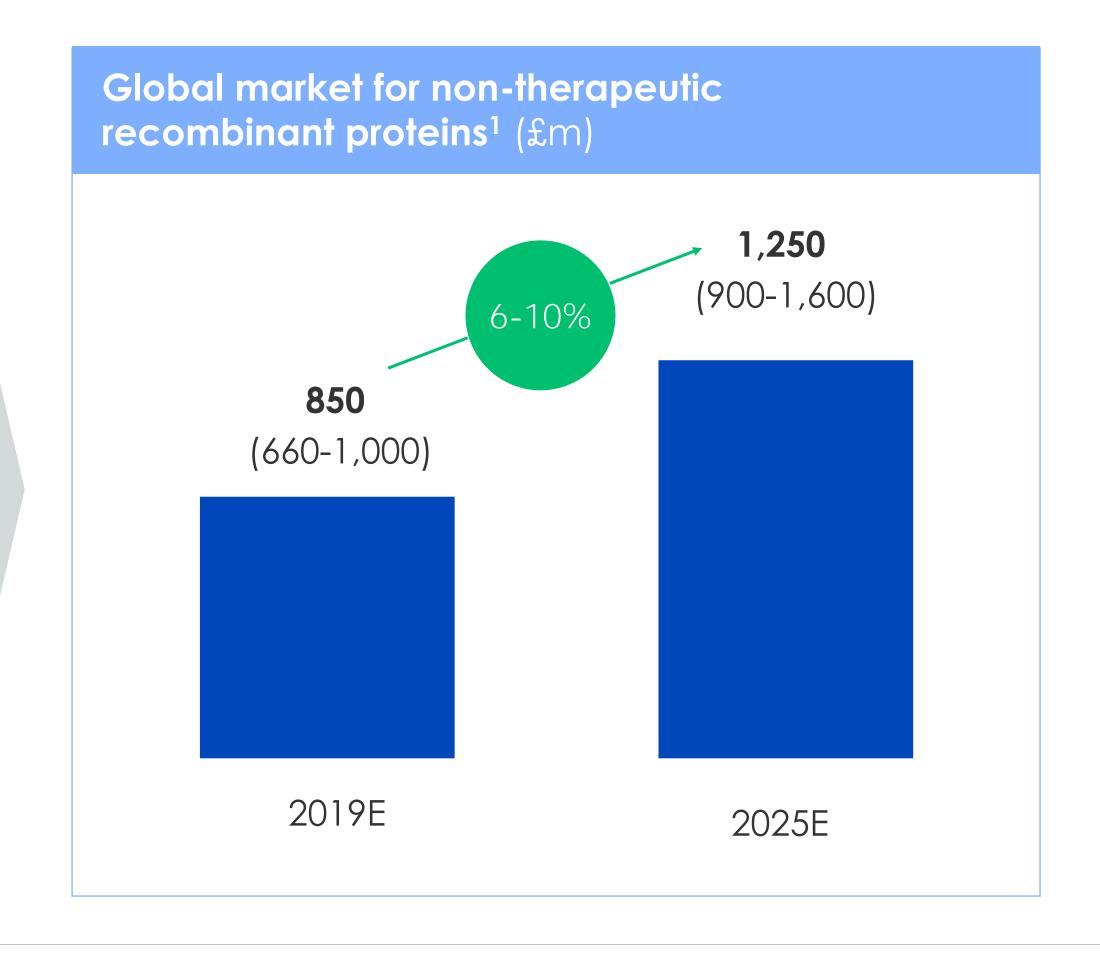






## Recombinant proteins: an internal need and an attractive commercial opportunity

- High quality immunogens are essential to extend antibody leadership
- Increased immunogen productivity will unlock new antibody segments and enhance coverage within critical research areas e.g., Neuroscience
- Significant opportunity to enhance growth in a high margin synergistic market

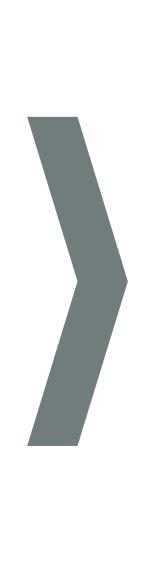




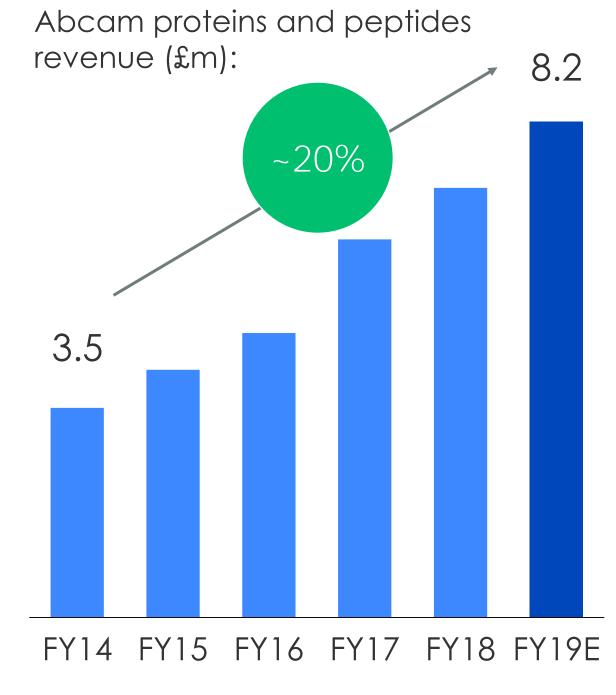


## Recombinant proteins: existing capability and business provides strong foundation; we are investing to scale

- Strong position for commercial launch of Abcam produced proteins
- Opportunity for more control over product quality
- Opportunity to create a comprehensive offering for focus areas



### Strong growth trajectory



### Established customer base

- Broad customer set
  - ~50% industry
  - ~25% distributors
  - ~25 % academics
- High value accounts with top
   20 biotech / pharma clients

### Broad product set

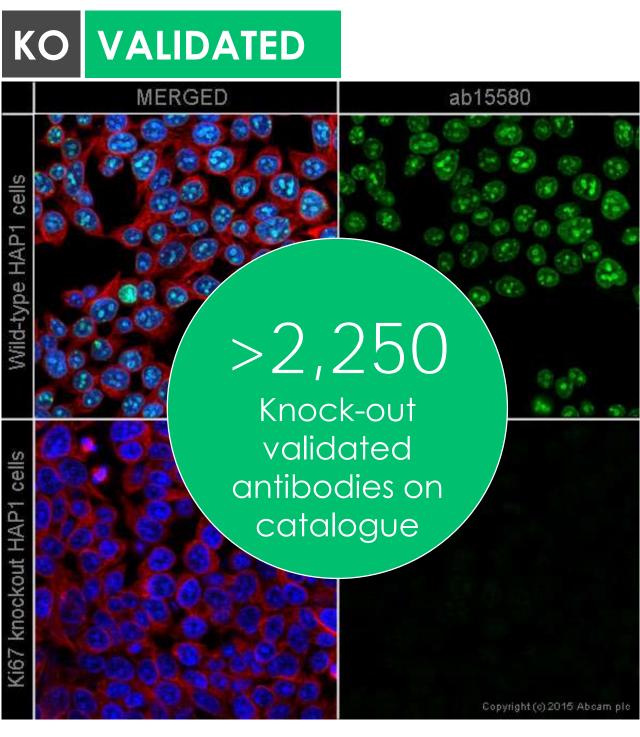
- >1,000 OEM products today
- Diverse coverage across:
  - >5 Protein classes
  - >7 Applications
  - >10 Research areas



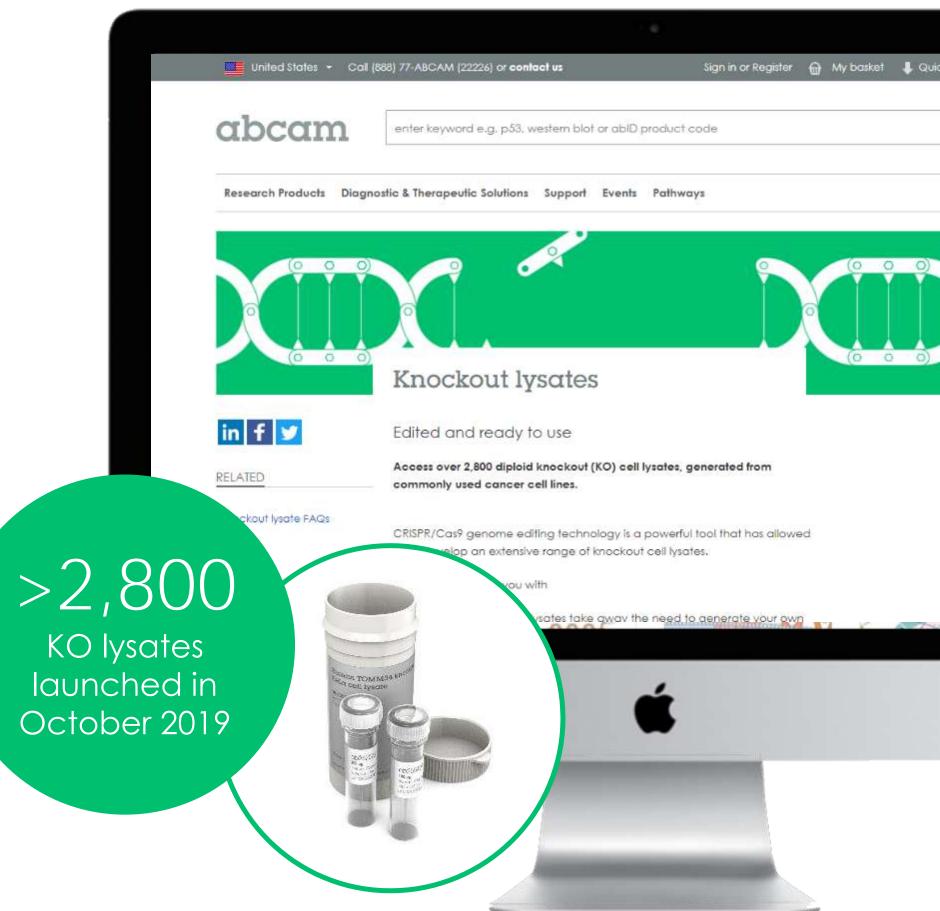


4 Cellular editing: addresses a constraint and creates an adjacent market opportunity

- KO cell lines / lysates are an important tool for antibody validation – both at Abcam and in customer labs
- Adjacent market: 54% of antibody customers would buy cell lines from Abcam today
- Opportunity to develop market, choosing focus areas using proprietary data



Knock-out validation of Anti-Ki67 antibody (ab15580) in Immunocytochemistry / Immunofluorescence

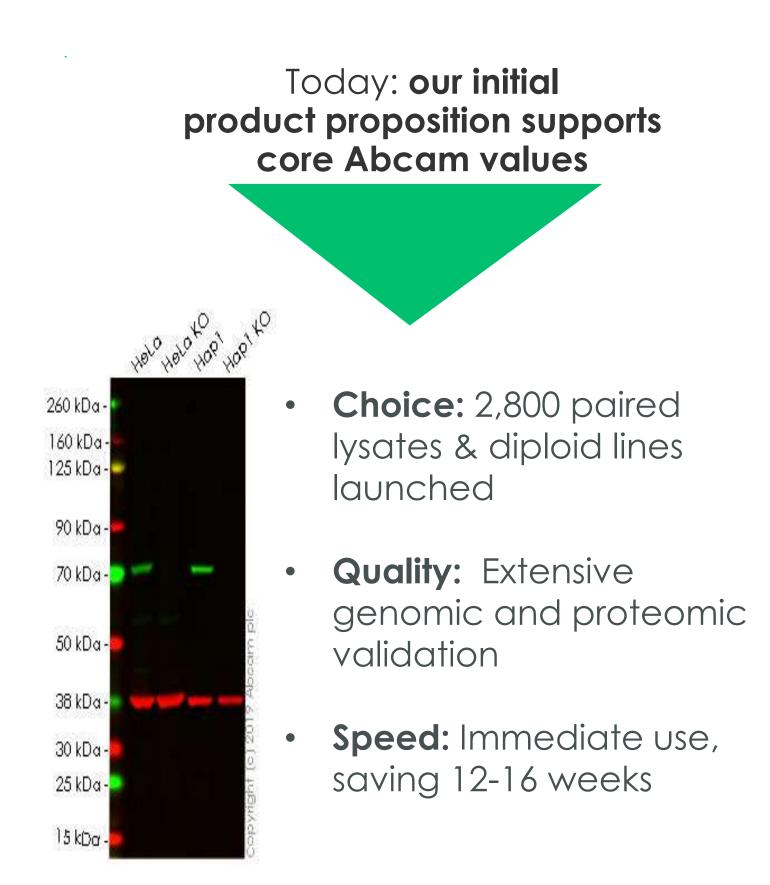






# 4 Cellular editing: Abcam is well positioned to grow in the cell editing market





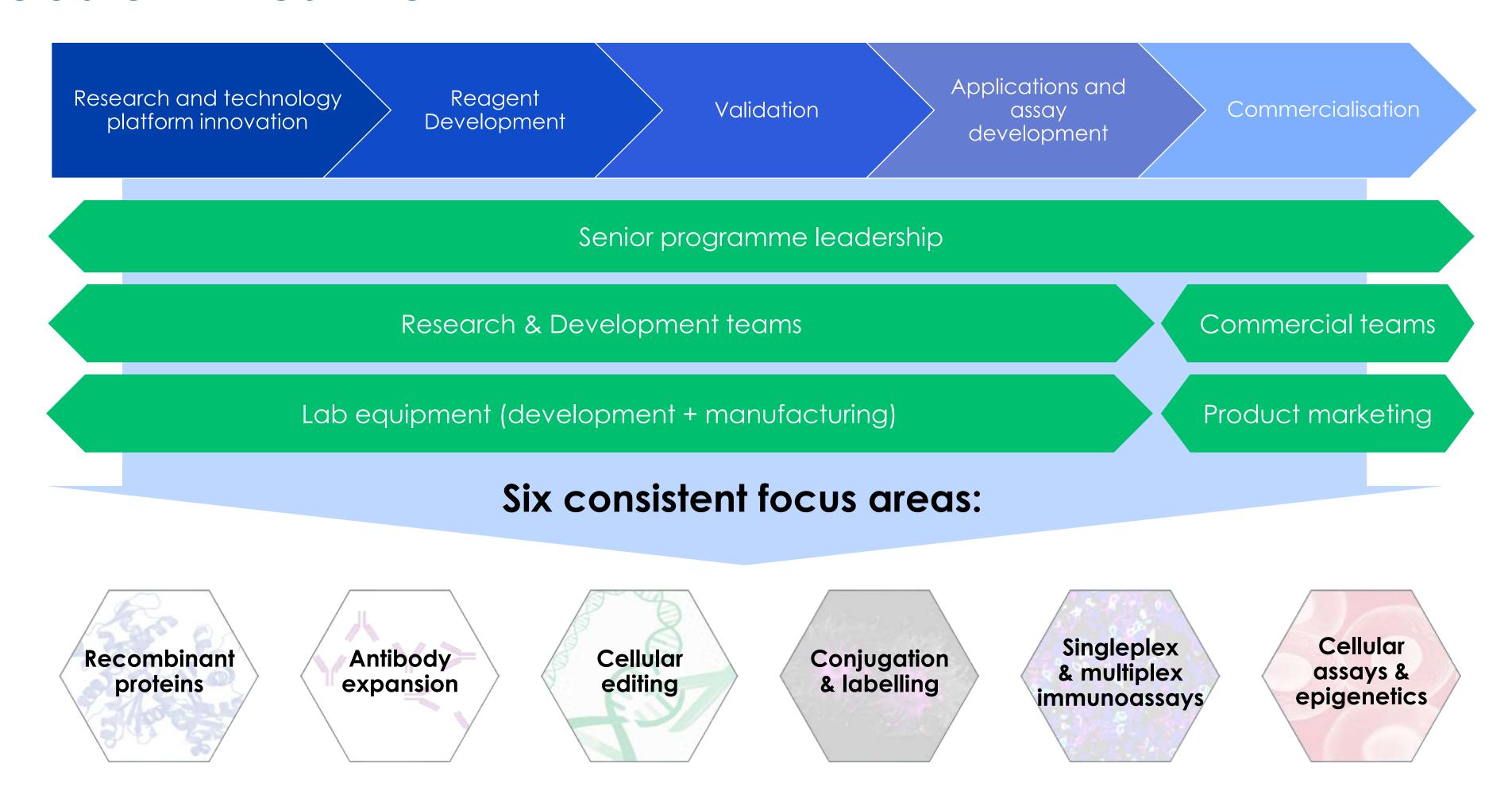


- Experienced team leader hired
- Building out team capabilities
- CRISPR licences signed
- Evaluating inorganic levers alongside organic build





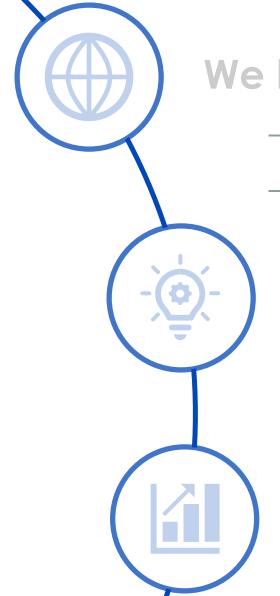
#### Areas of investment







# Innovating to enable scientific breakthroughs and expansion in research markets



#### We have a strong foundation within our markets

- We serve ~70% of life scientists globally
- They value our products as the foundations of their research

#### We have built an industry leading innovation engine

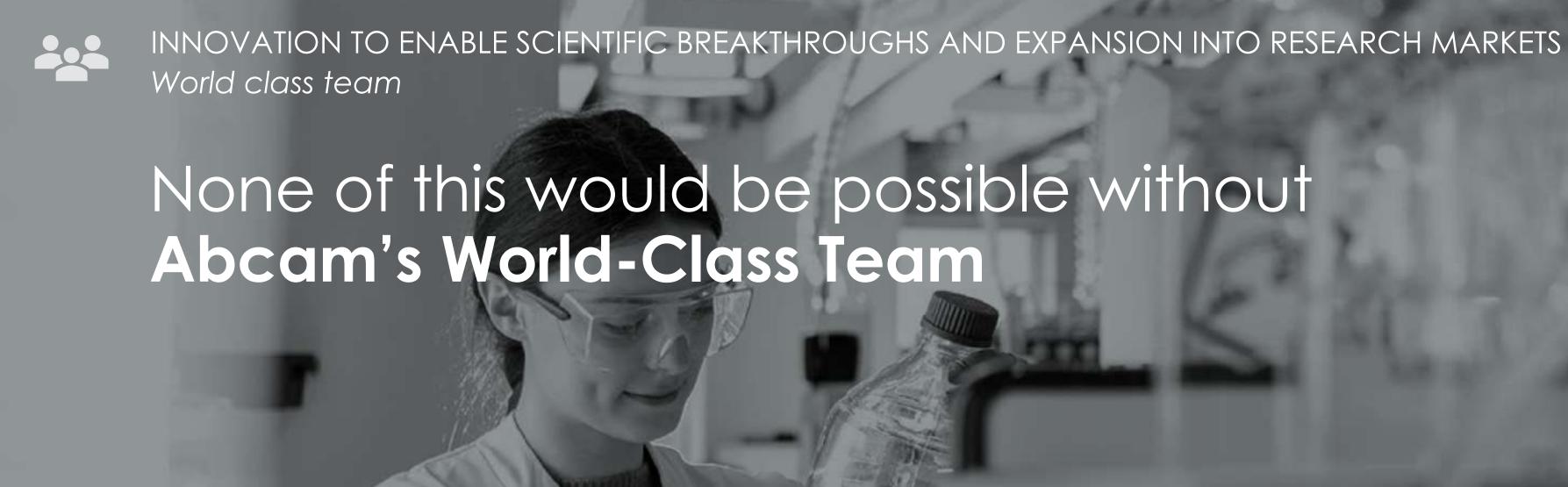
- Best in class development and validation
- Repeatable model for high value innovation

#### We see compelling opportunities to invest to remove constraints to growth

- In our core: RUO antibodies and immunoassays
- In selected adjacencies that leverage our existing assets:
   conjugation/multiplex, proteins, cell lines

Our innovation and growth is enabled by a world class team of scientists





Global team of >200 PhD scientists, >300 associates, across 7 locations



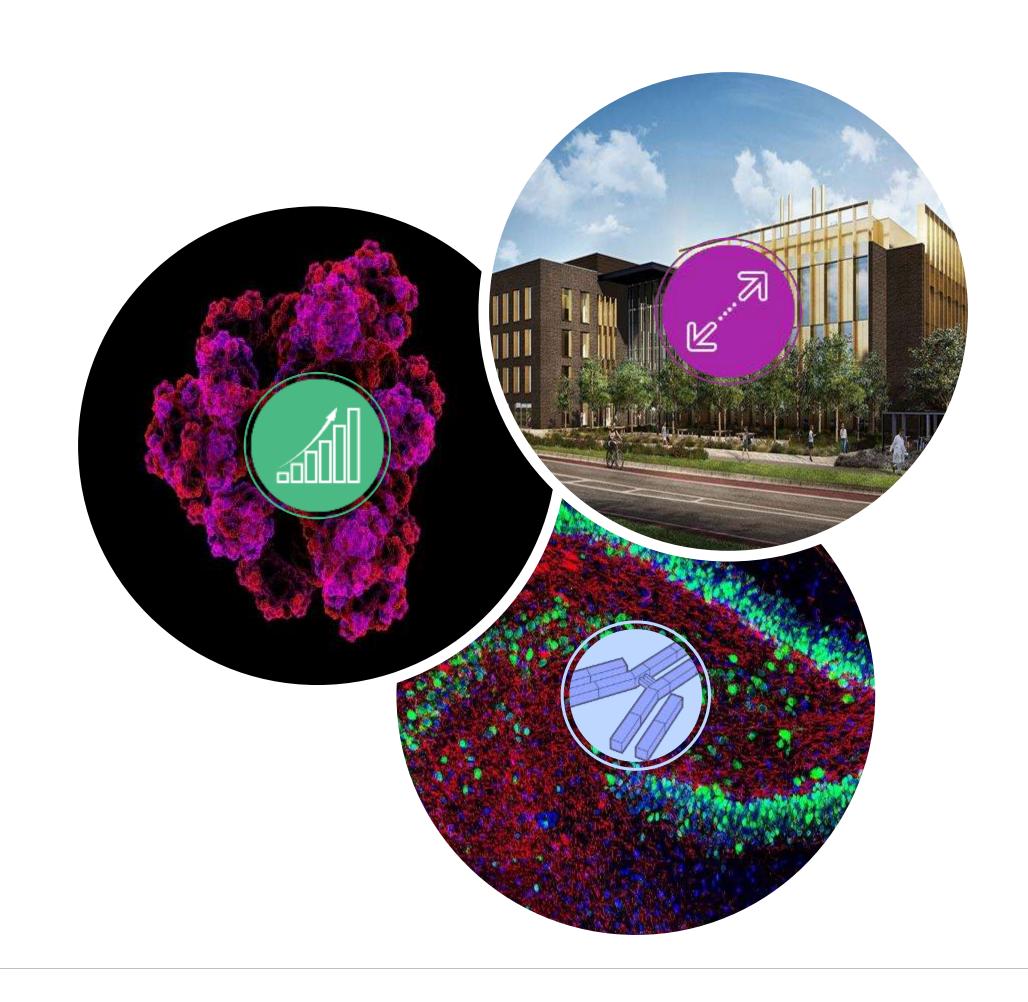




# Innovating to enable scientific breakthroughs and expansion in research markets

#### Key takeaways:

- Track record of quality and innovation has built customers' trust
- Focus on enhancing and extending product base
- Investment in technology and team to support customer needs
- Expansion opportunities in wellpositioned adjacencies





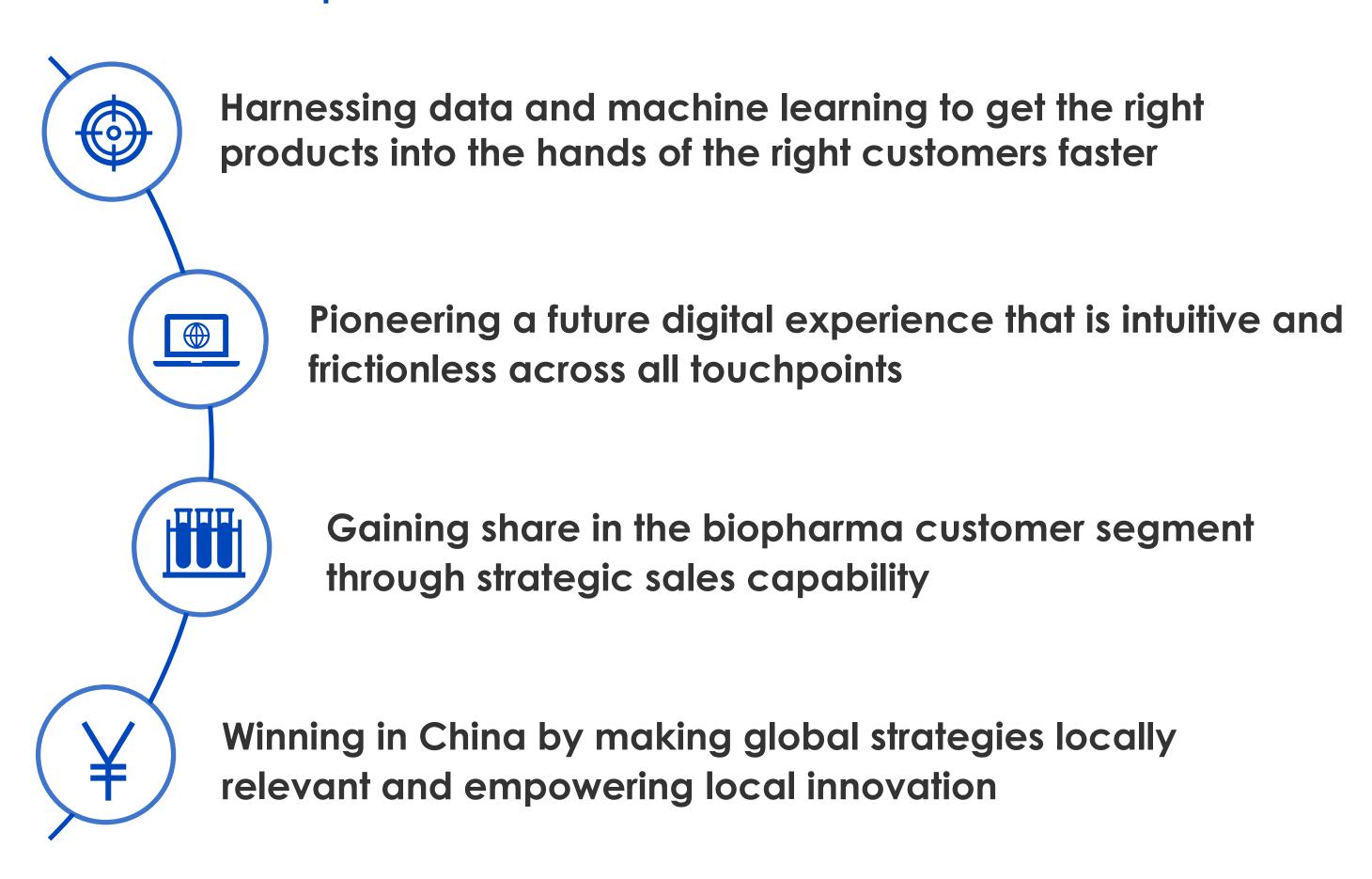
Empowering researchers through an unparalleled digital and customer experience

Yvonne Chien

SVP, Customer Experience

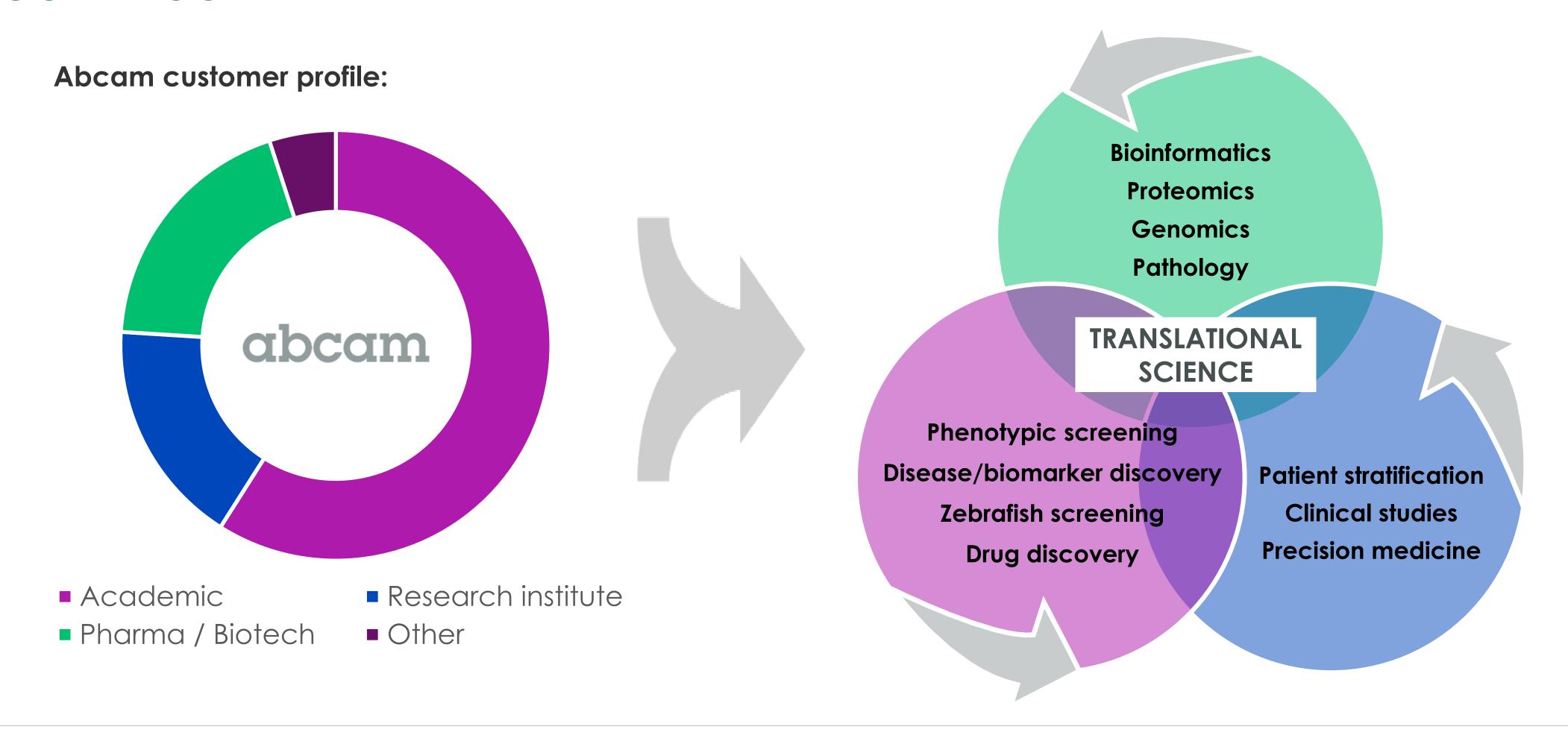


# Empowering researchers through an unparalleled digital and customer experience





# Our customers are scientists across the translational research continuum

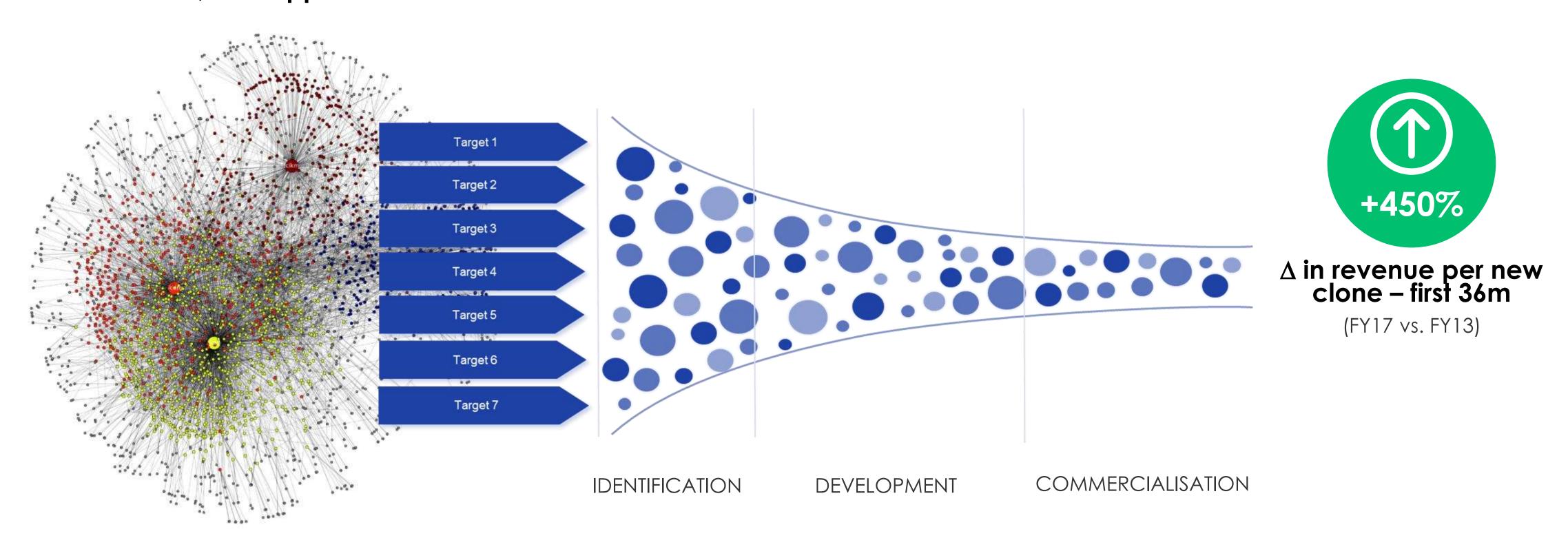






# Growing data analytics capabilities is improving ability to predict needs and market more effectively

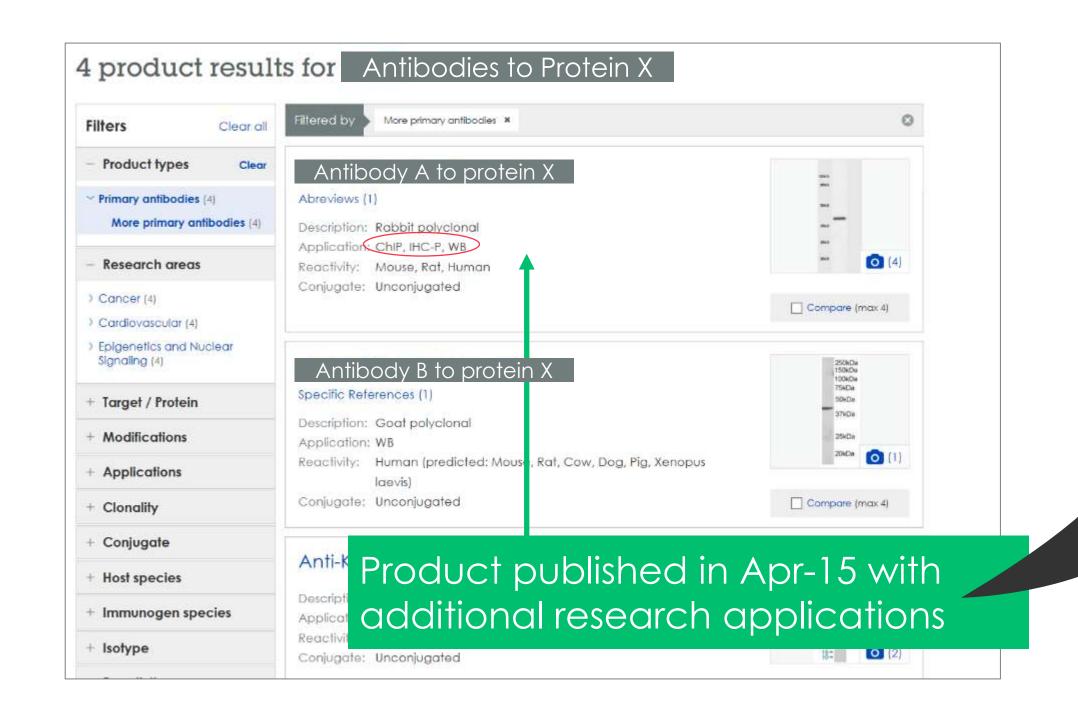
Millions of possible combinations of targets, modifications, and applications

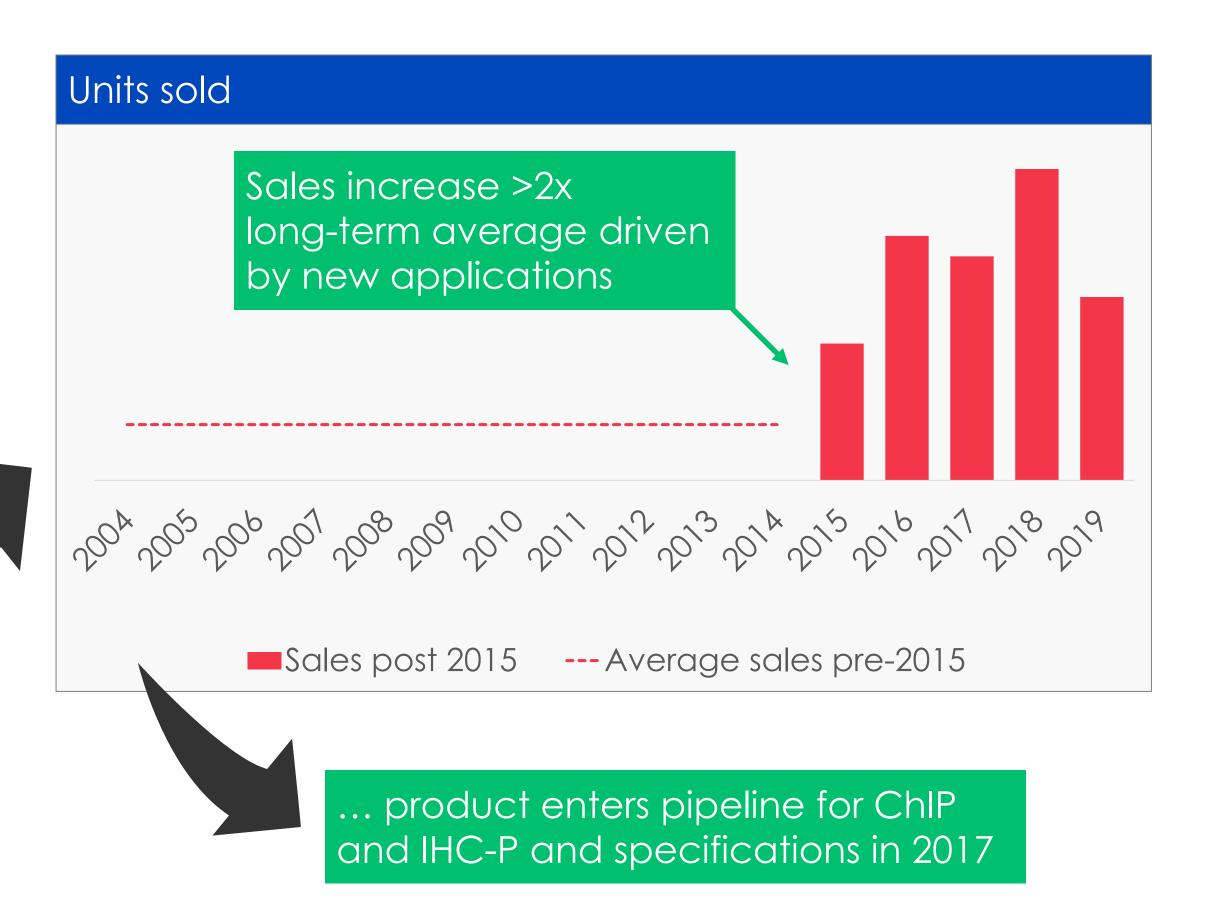






# Using data to add value to our customers Increasing product utility







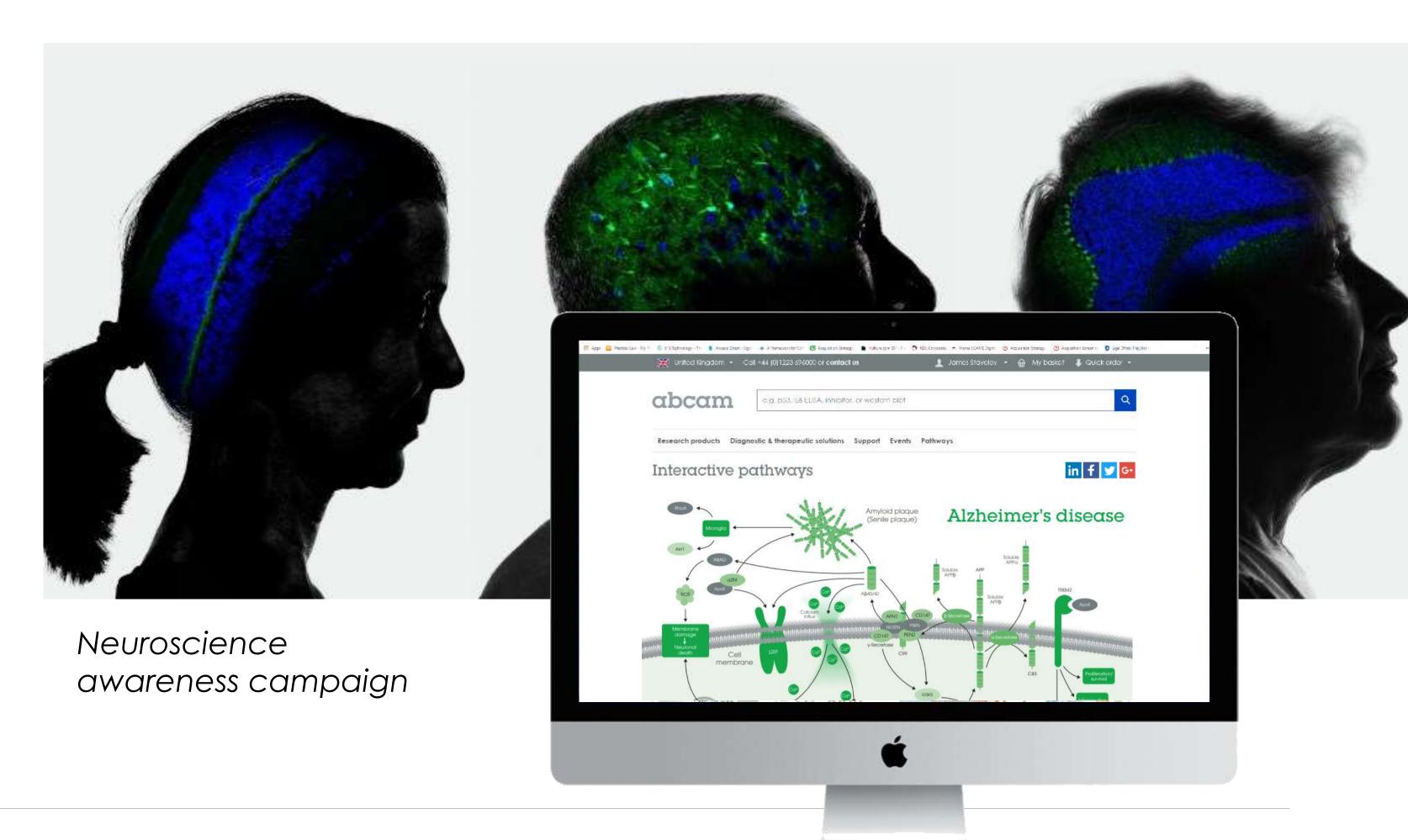


# Using data to add value to our customers Making recommendations more relevant

It's not easy for scientists to find the right tools

Focused on finding ways to get the right tools into the hands of the right scientists, faster

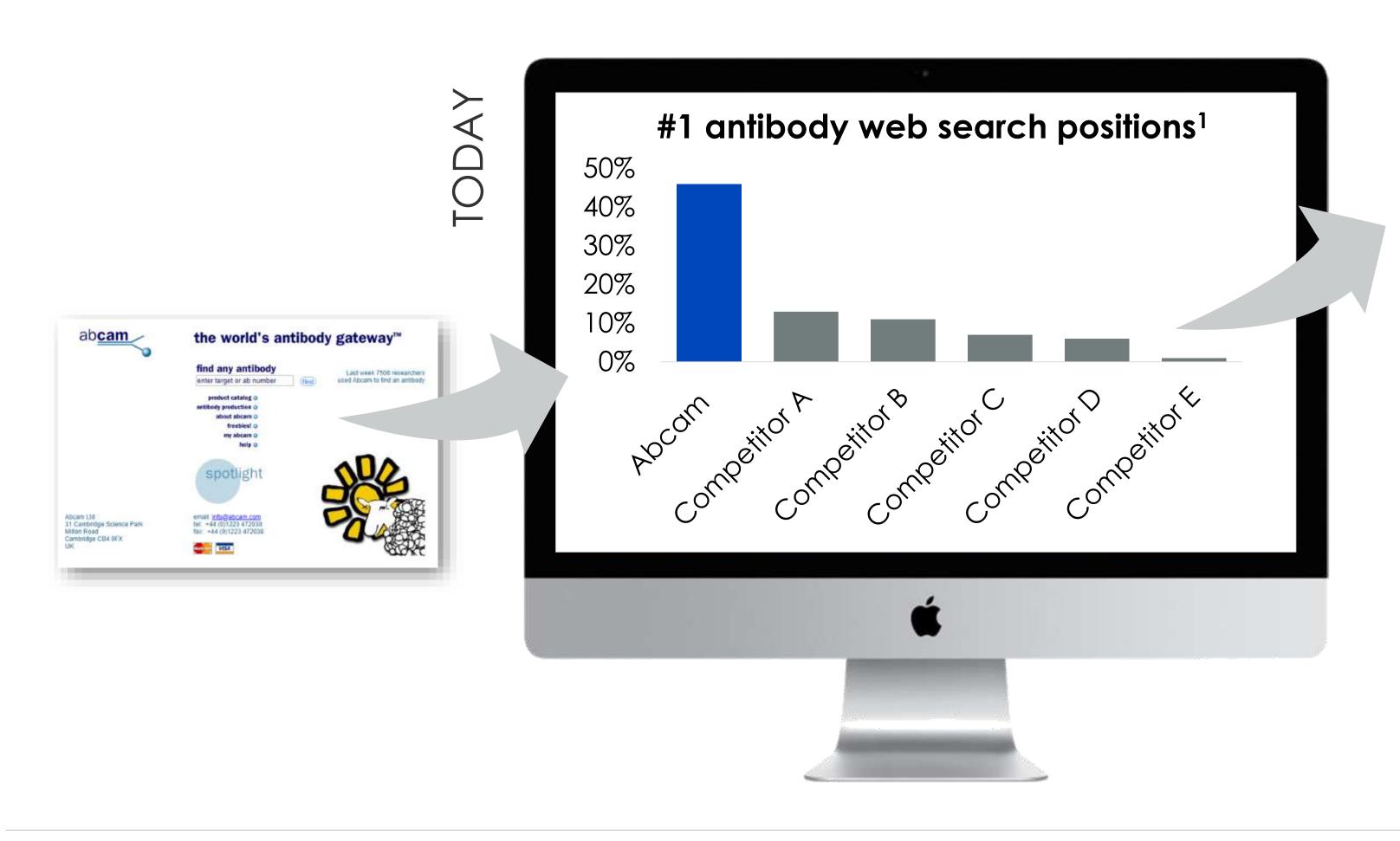
- Identify the best products for key targets and biomarkers across specific disease areas
- Highlight and recommend
   complementary product groups
   to further support their research
- Drive higher engagement and conversion







# Our website, search engine optimisation and data have been a major strategic advantage...



Optimised content management system

Increased personalisation

More dynamic content

# Supported by an exceptional global scientific and customer service team







### Dedicated to serving customers



Delivery was within 24 hours, we are very appreciative, I feel we can rely on your service.



I am a purchaser and am happy with the ETA. The web is very user friendly



Huge choice of antibodies, almost all of them with references or reviews. If an antibody does not work, you get replacements or refund. I almost exclusively buy my antibodies from Abcam:-)



I have always been happy with the quality and customer service that Abcam provides..



quick replies, technical detailed answers that offered options to perceived problems. Pre-analysing antigen identity before being asked, just awesome overall!



The person replying was very knowledgeable. She gave some suggestions to help solve the problem but immediately offered to substitute the product of the query to solve the problem. I did not have to spend time, materials or energy trying to troubleshoot and was able to continue my research.



I appreciate the agent taking their time to find the answer rather than just saying "I don't know". I also appreciated the additional resources they sent in addition to the link to the product







# Opportunity to invest to make step changes to the customer experience

- Indispensable resource for research scientists, embedded in workflows
- Relevant, personalised and frictionless customer journey
- Consistent digital connections; mobile, phone, web, social
- Feature rich, more dynamic experience
- Superior and timely product knowledge and insights

CiteAb 11111 Among 6 CC5X4 A personalised, intuitive, frictionless digital experience

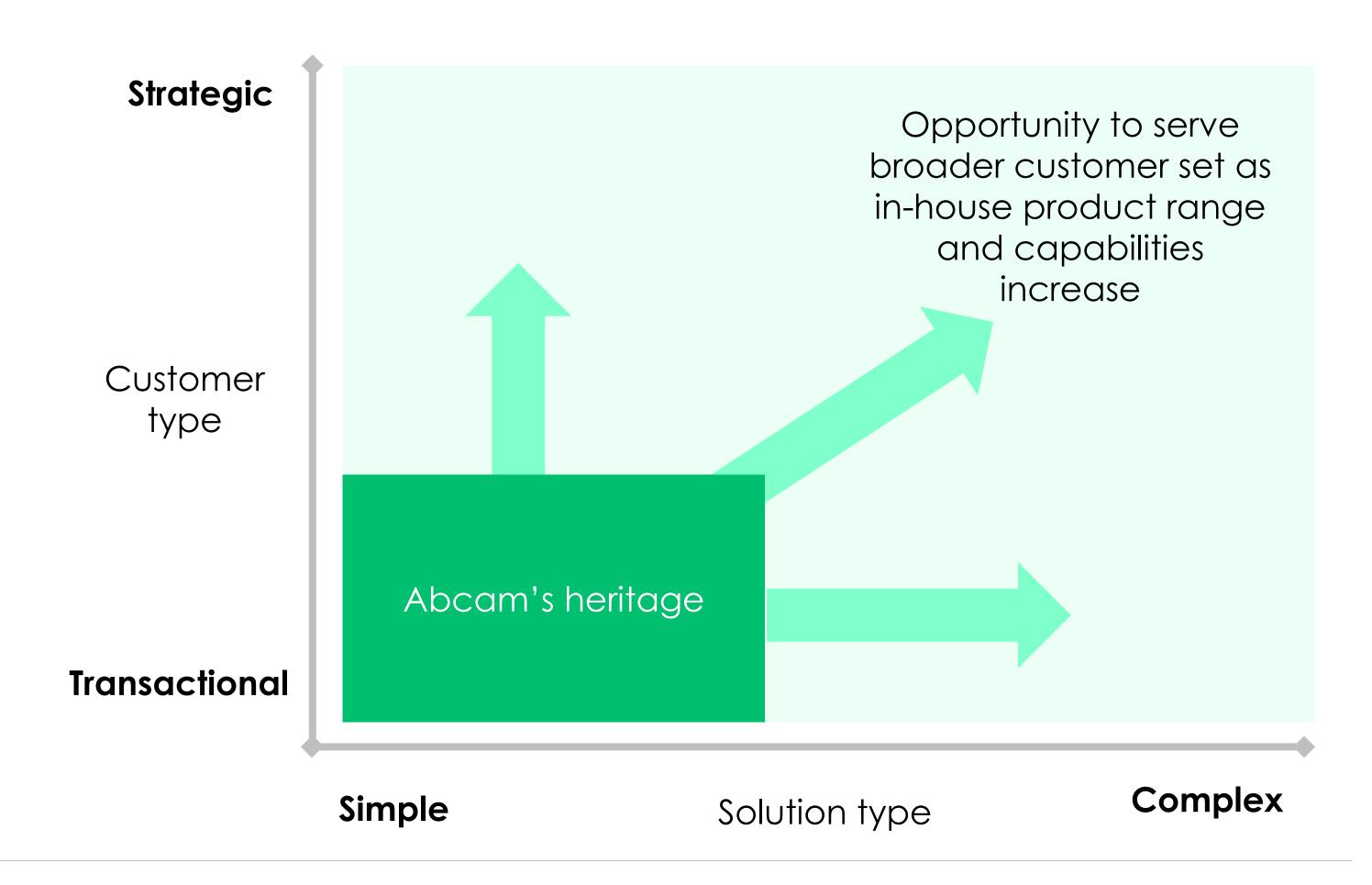
Improved customer experience, driving increased conversion and sales





## Planned investment to optimise customer offering to best serve the needs and workflows of customers

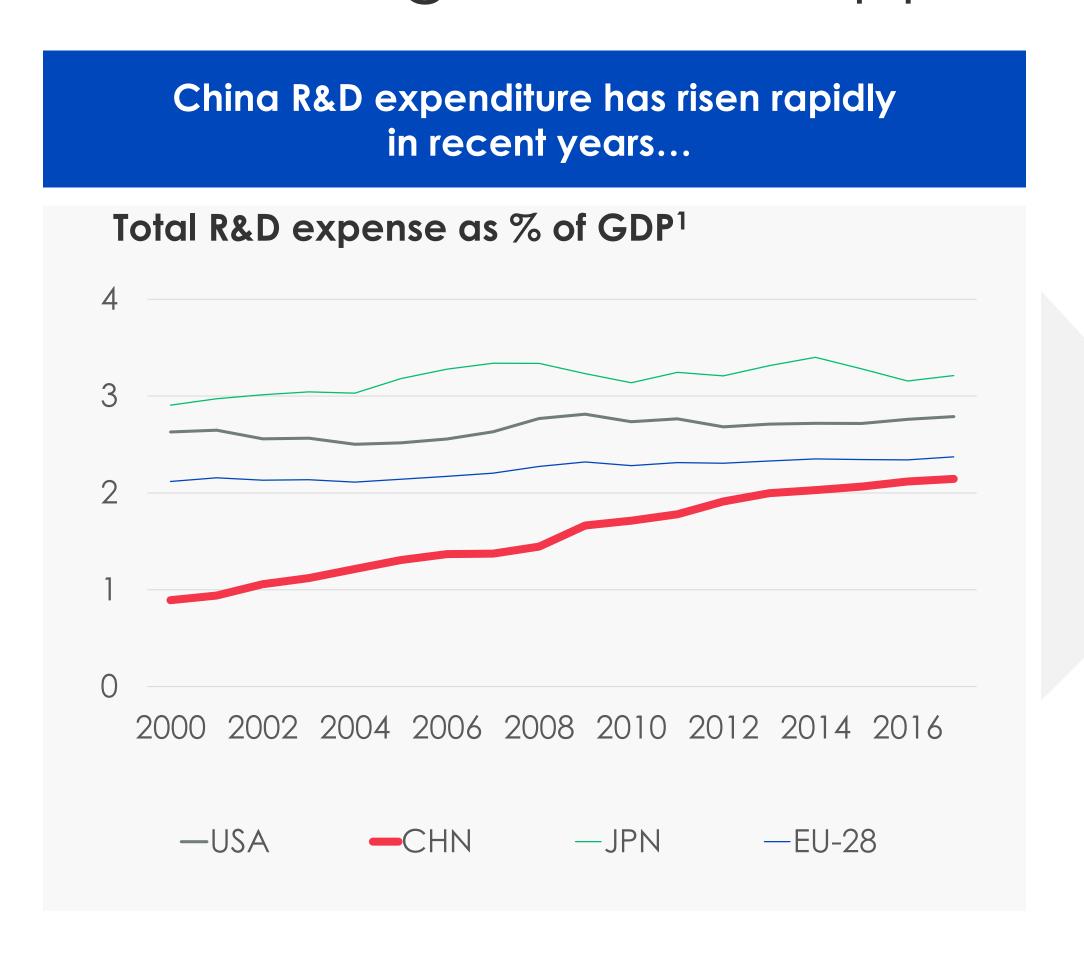
- Gaining share in biotech/biopharma through strategic sales capability and in-house innovation
- Selected investment to support growth opportunity

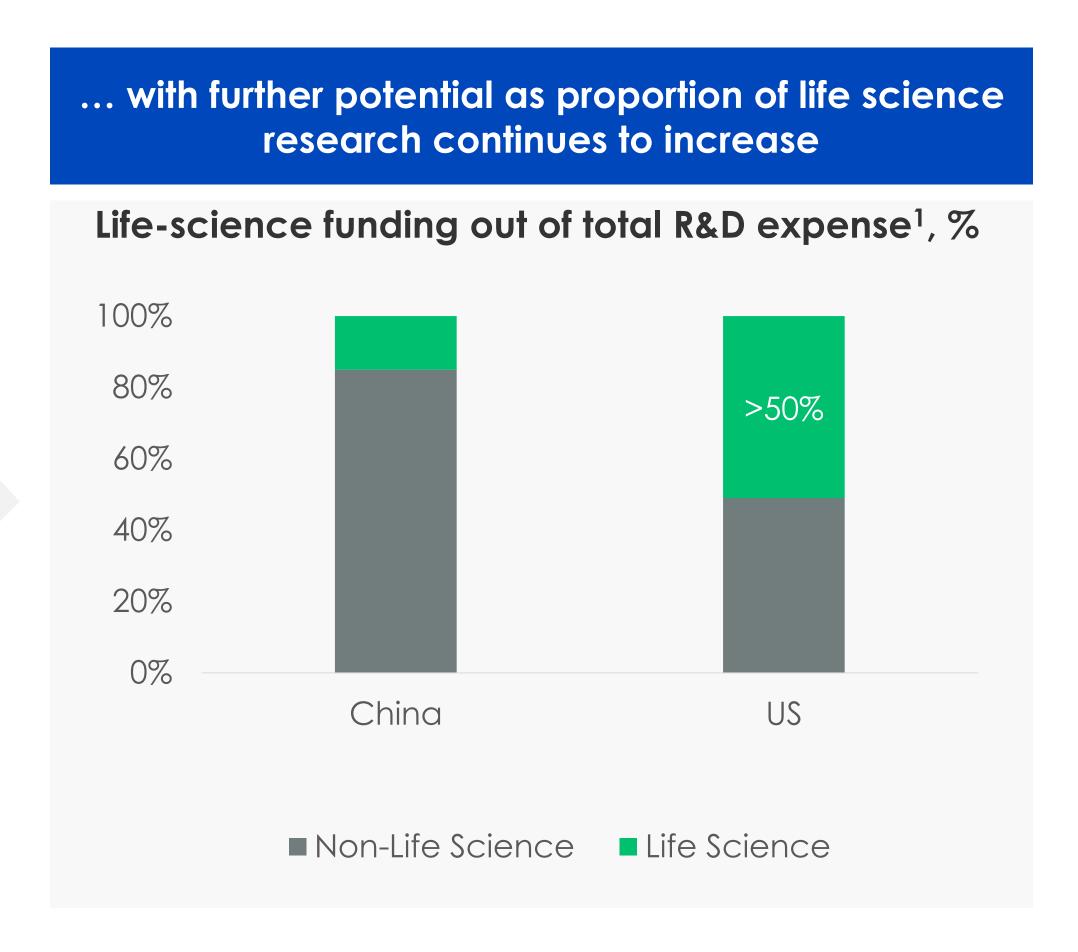






# China market context Once in a generation opportunity



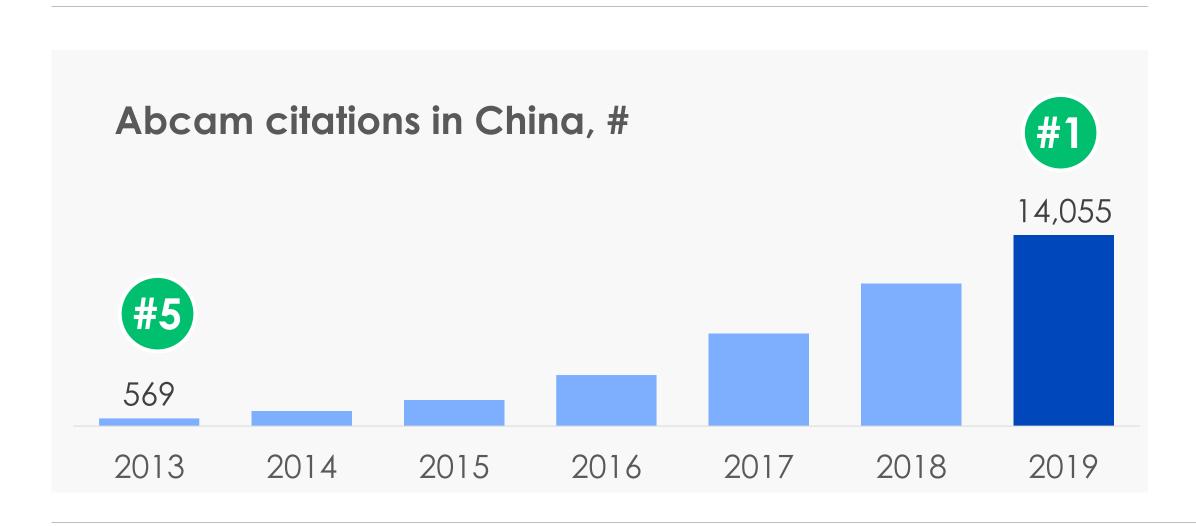


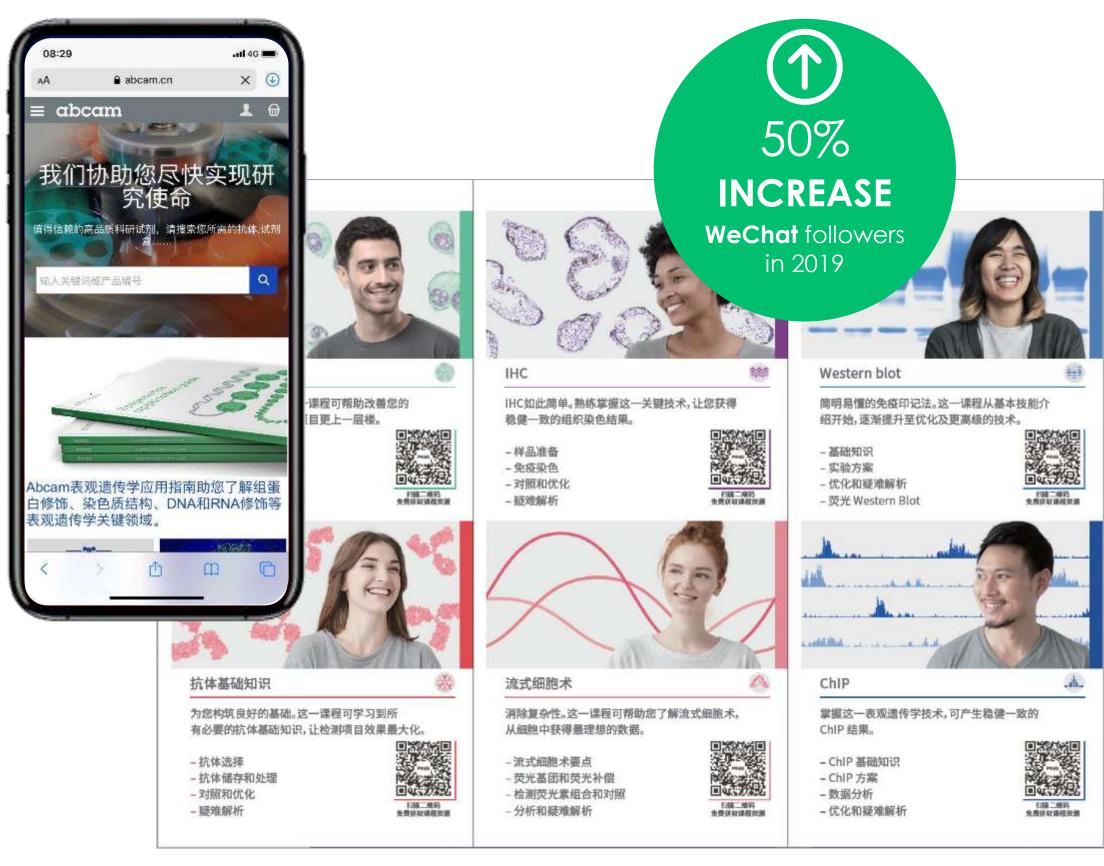




## Investing to extend our leadership in China

- More opportunities to get closer to customers
- Enhanced content localisation
- Improved digital experience
- Complex sales enablement





WeChat Educational Series

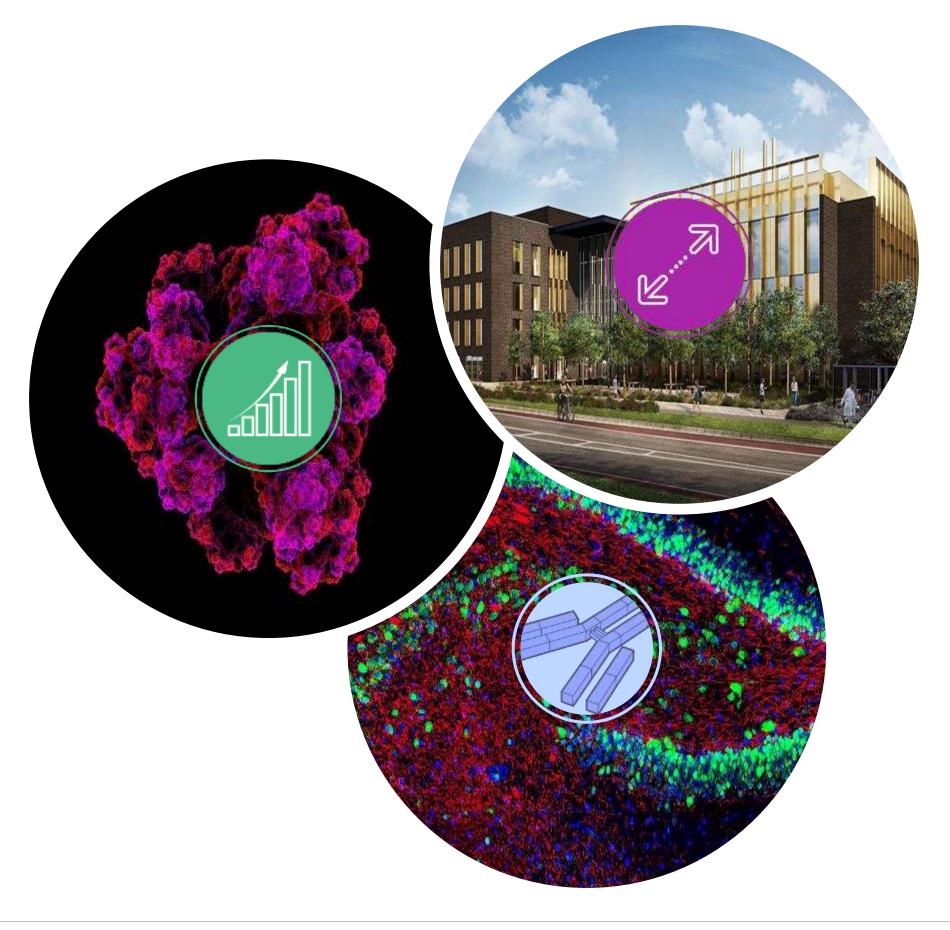




# Empowering researchers through an unparalleled digital and customer experience

## Key takeaways:

- Investment focused on four key areas to sustain growth:
  - Data science
  - Digital customer experience
  - B2B sales for biopharma and complex solutions
  - China growth



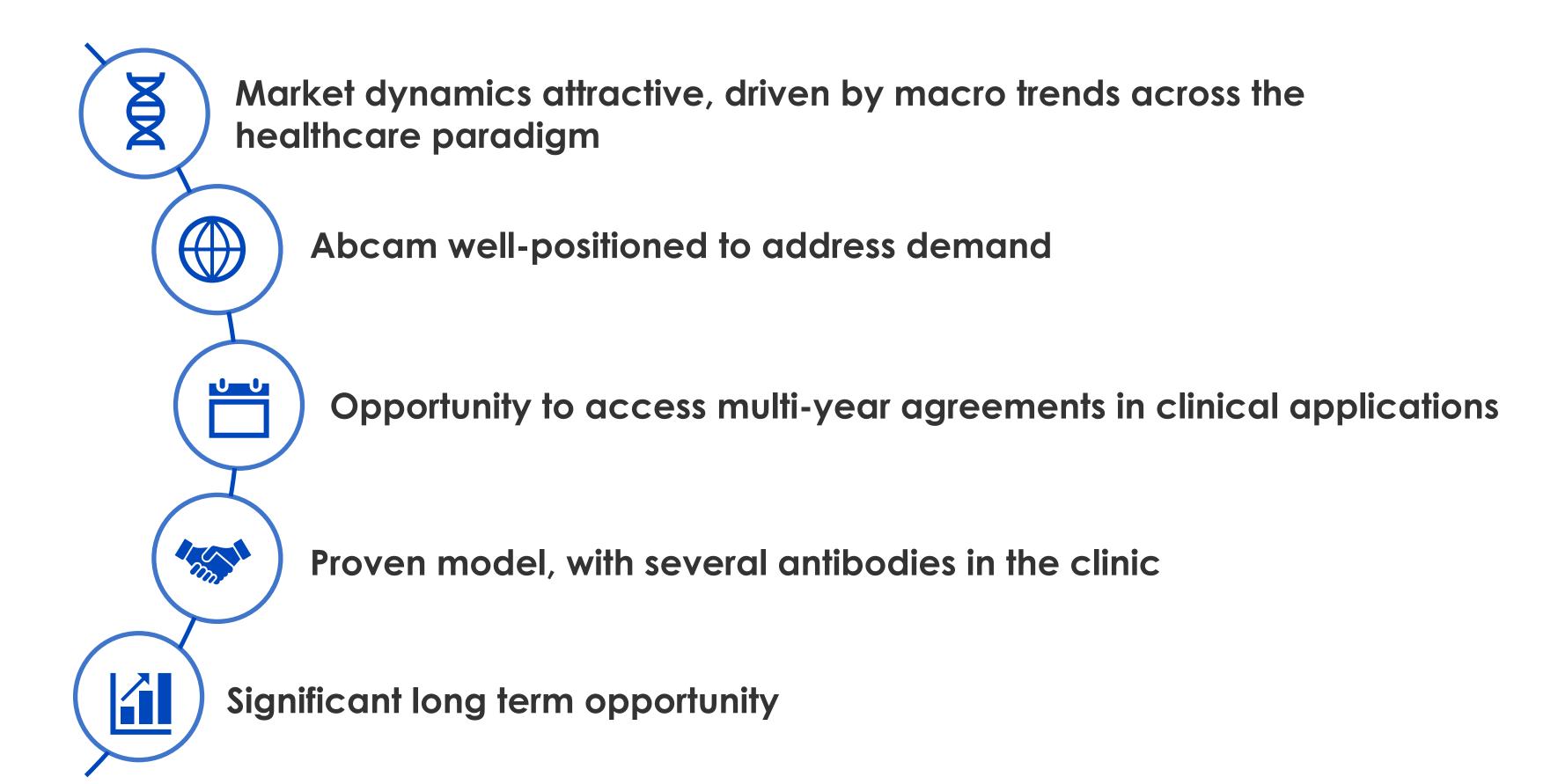


'Abcam Inside' and the opportunity beyond research

John Baker SVP, Product Portfolio & Innovation



### 'Abcam Inside' and the opportunity beyond research

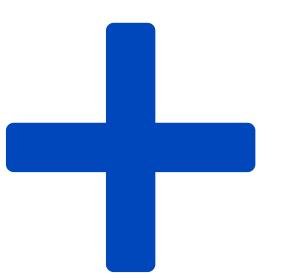




# **Abcam Inside:** leveraging Abcam's great antibody content to support clinical and instrument platforms

## Reagent content from Abcam

- Recombinant Abs
- Ab Pairs
- Protein standards



## Industry-leading platforms

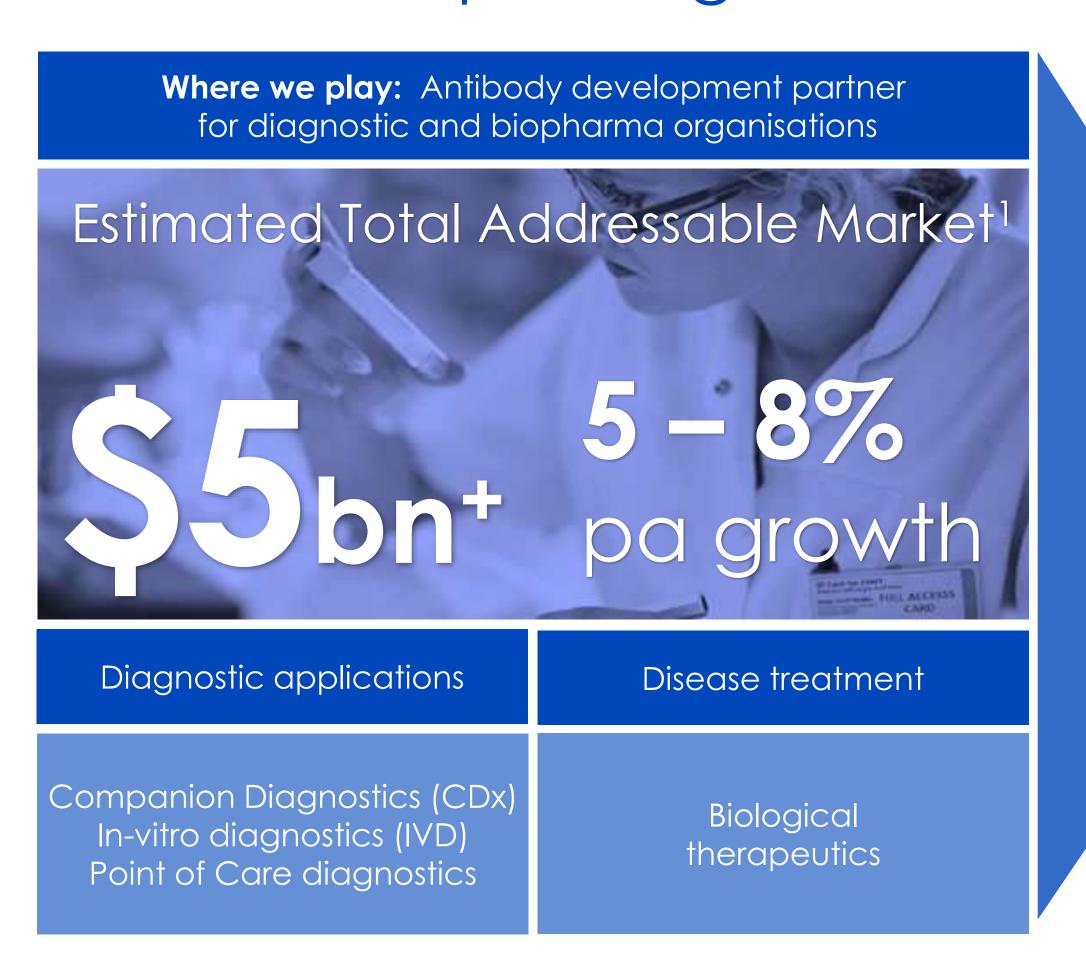
- 1 Clinical partners
  - Diagnostic
  - Therapeutic
- 2 Instrumentation

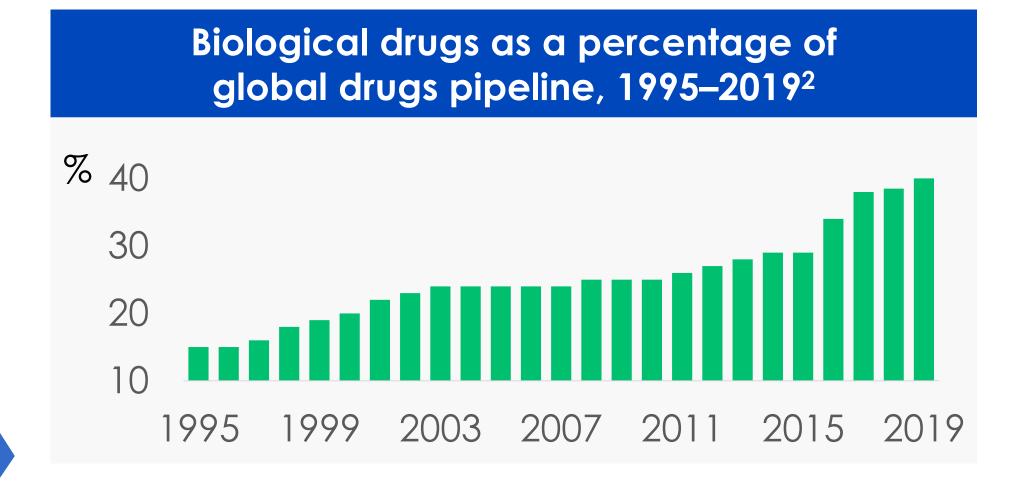


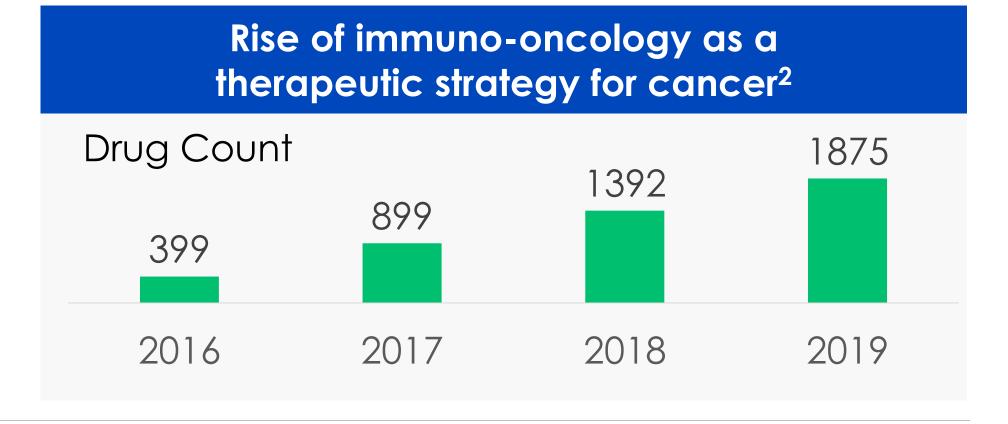
Greater, and faster, scientific and patient impact



# Market dynamics attractive, driven by macro trends across the healthcare paradigm









<sup>1)</sup> Total Addressable Market relates to the potential value attributable to the initial antibody development for use by diagnostic and biopharmaceutical partner organisations which result in clinical products, including in-vitro diagnostics (IVD), companion diagnostics, immunoassays and biological therapeutics



# Clinical partners increasingly reliant on antibodies and proteomic tools as therapies & biomarker assays

- ✓ Abs and derivatives continue to represent a growing proportion of development pipelines
- ✓ Targeted therapeutics with biomarkers now represent an increasing portion of trial pipelines
  - Oncology leading area of focus today
- ✓ Biomarker associated trials show higher rates of success at all phases
- ✓ Actively encouraged by regulatory authorities
- ✓ Shift to value-based pricing makes prices and margins from targeted treatment attractive to Pharma Co

Drug development value chain

Discovery Pre-clinical Phase I Phase II a/b Phase III Ph

Diagnostic test development value chain

Biomarker Discovery Biomarker Demonstration of Commercial Approval Sale

- ✓ Advances in biomarker technology, and cost efficiencies are enabling better disease identification at the bench
  - Over 150K publications have identified 1000s of potential biomarkers...

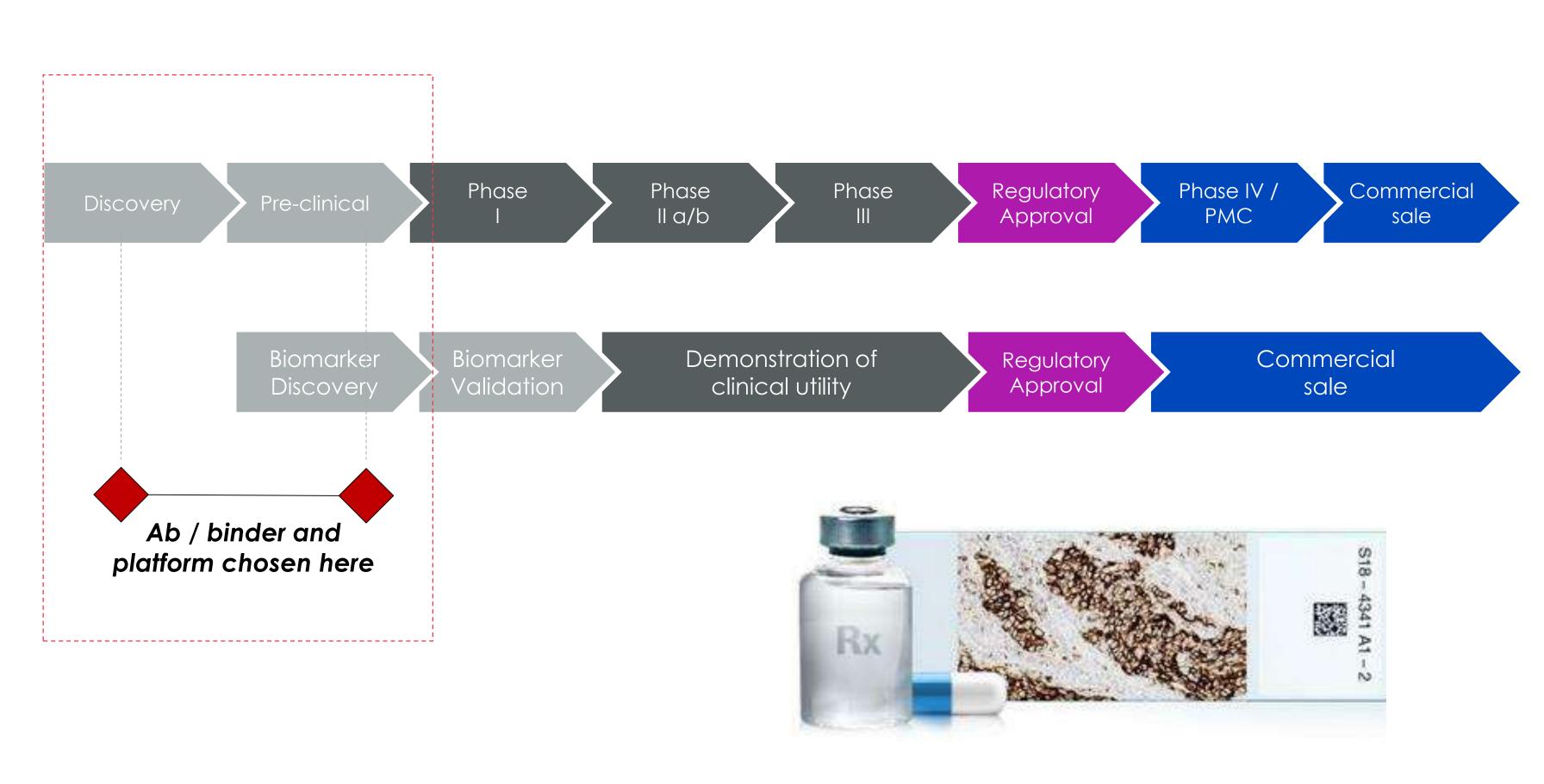
 ...though to date only c.100 fully validated and in routine clinical use



## Clinical partners choose tools and platforms early: Long lead times for long term opportunity

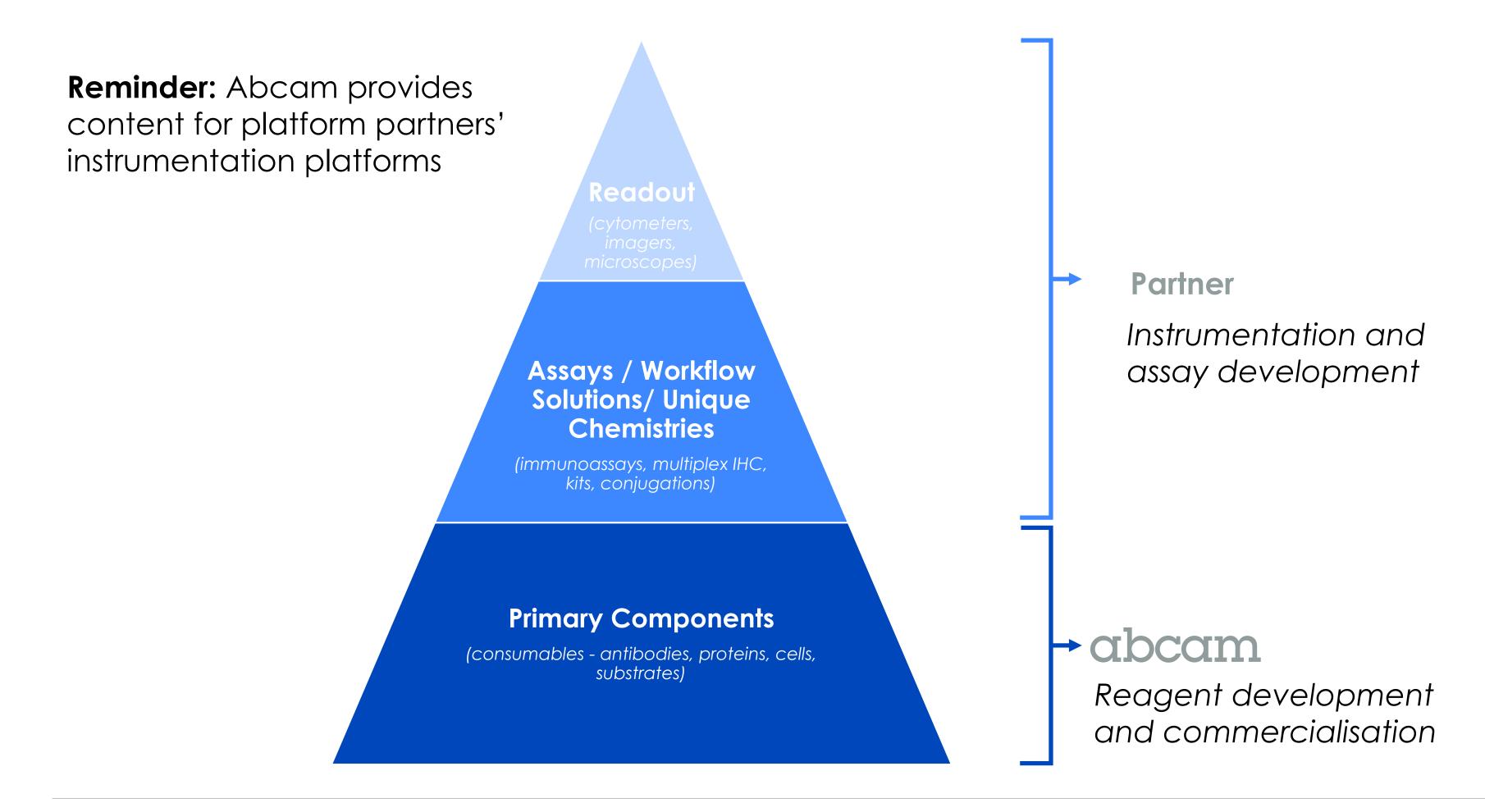
Drug development value chain

Diagnostic test development value chain





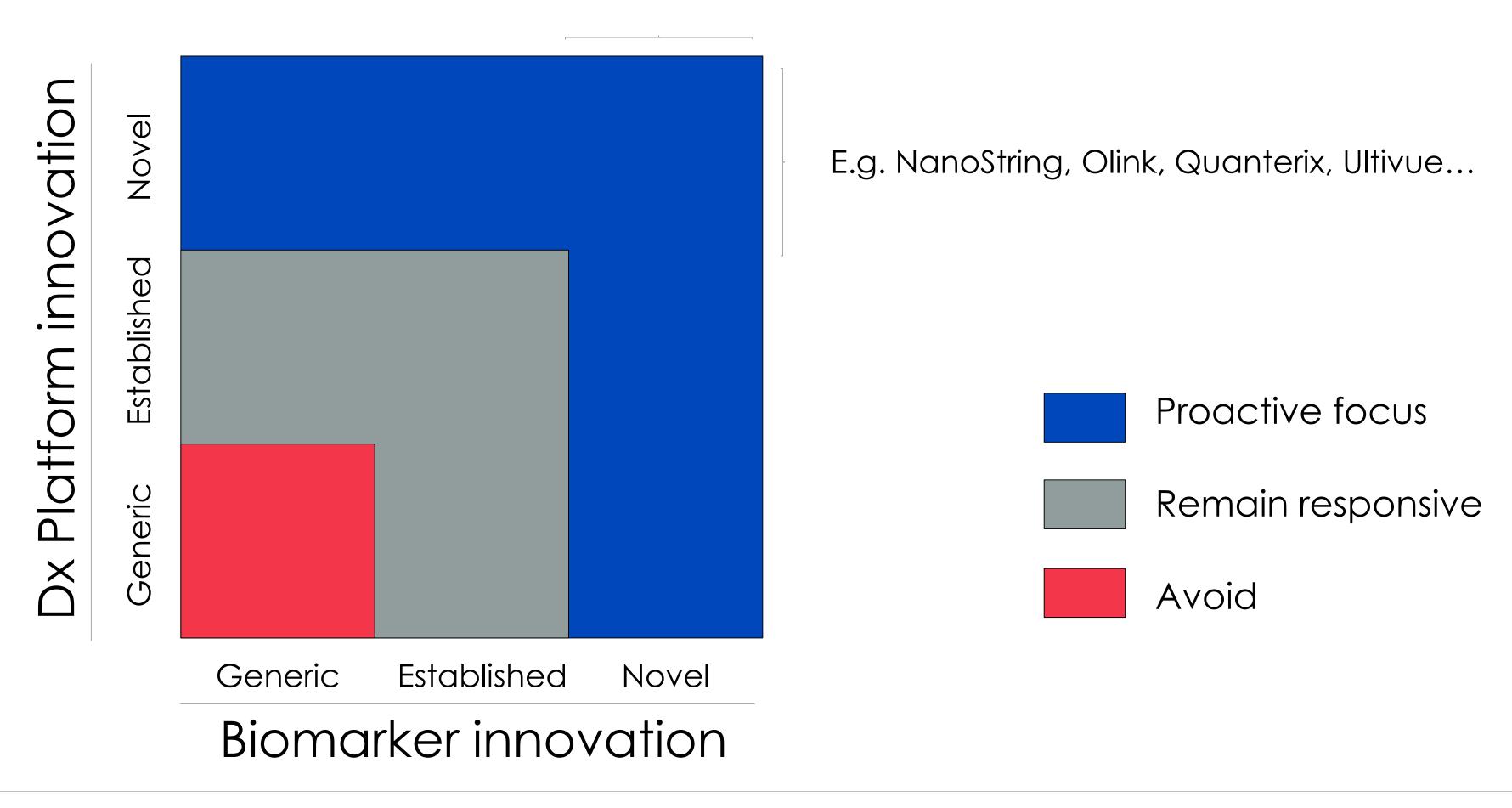
## Platform partnership:





#### Our focus is on differentiated platforms and biomarkers









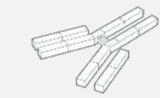
### Why do industry partners choose Abcam?

## Multiple routes to access best in class reagent content

#### Off the shelf

- 8000+ Recombinant Abs
- 700+ Recombinant Pairs

#### Custom developed



RabMAb®/BCC



NGS



Phage

#### Licensed / Engineered

- Specifically sourced / licensed for partner use
- Engineered from existing clone

## Flexible approaches to supply or licensing for long term security

Long term, secure supply

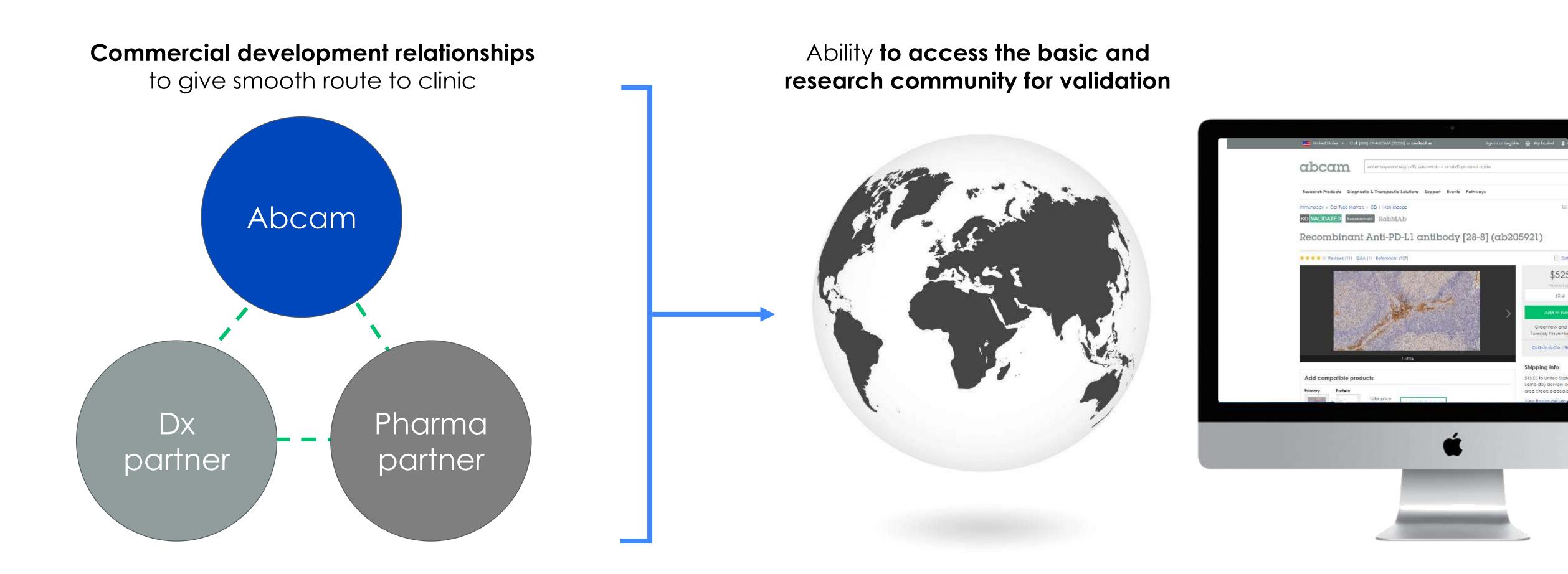
- Multiple sites
- ISO9001 or ISO13485
- Standard or custom formulations

License out for partner's own manufacturing





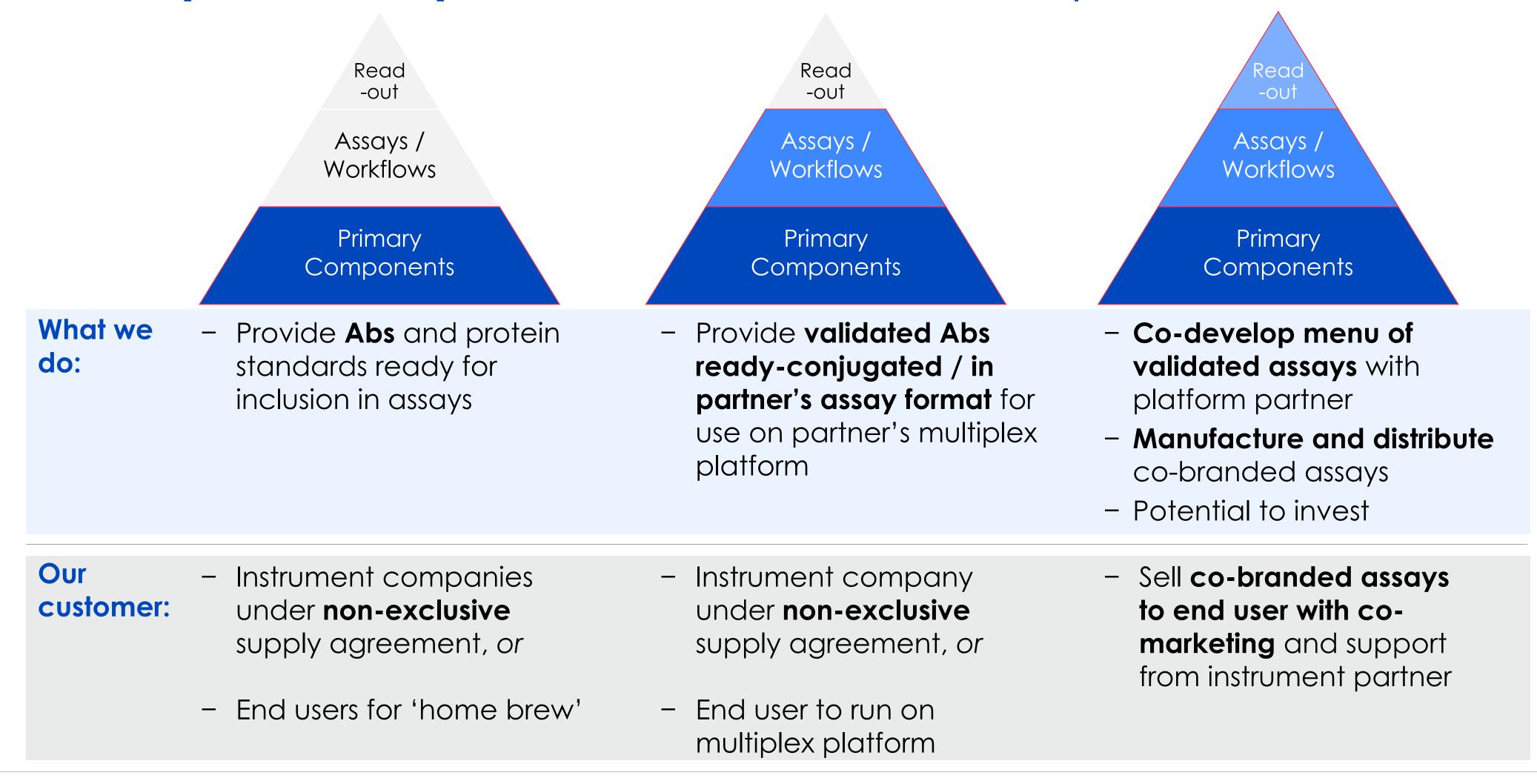
## Why do industry partners choose Abcam?







### Platform partnership: evolution of relationships





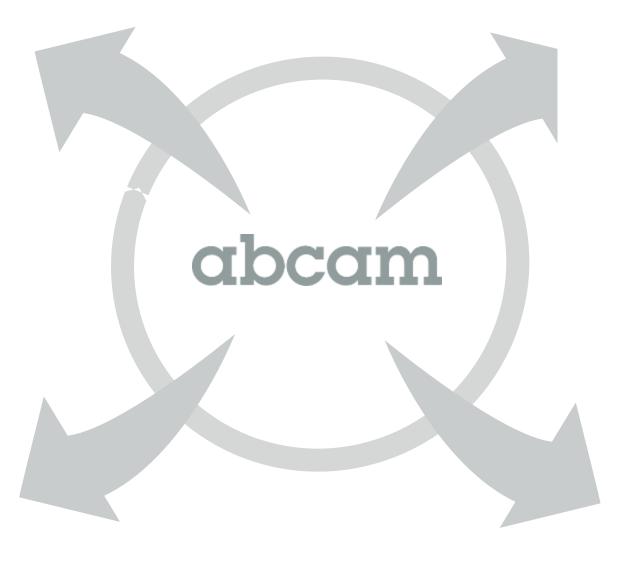


## Successful novel platform partnership development

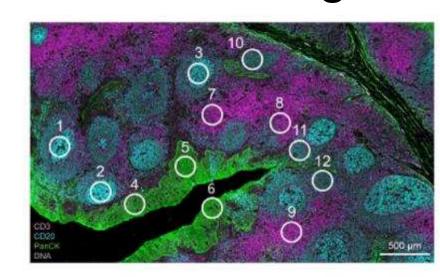
Ultivue

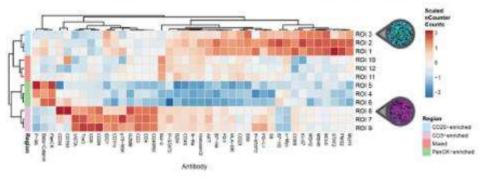
UltiMapper I/O PD-1

# **Olink Proteomics**

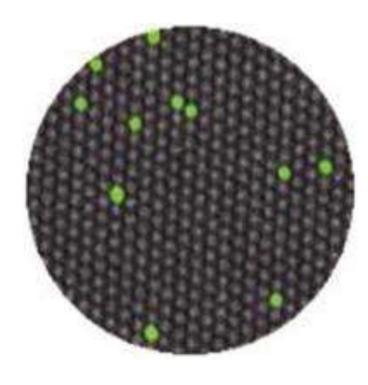


#### **NanoString**





Quanterix







# Early examples of Abcam Inside projects to reach downstream milestones

Therapeutic area / project	Target	Partner	Stage	Revenue sources	
				CP&L	Available for research
Oncology	CD40	Multiple	FDA Phase 2	<ul><li>Milestones</li><li>Royalty</li></ul>	-
Oncology	PD-L1	BMS / Dako Merck / Leica	Multiple cDx (510k) approvals	<ul><li>Project fee</li><li>Supply</li><li>Royalty</li></ul>	✓
Oncology	ARv7	Epic / Genomic Heath	Dx w/CLIA	<ul><li>Milestones</li><li>Supply</li></ul>	✓
Infectious diseases	Viral infection	Not disclosed	Early Dx development	<ul><li>Project fee</li><li>Supply</li><li>Milestones</li></ul>	Under review
Neuroscience	Neurodegeneration	Not disclosed	Dx development	<ul><li>Project fee</li><li>Milestones</li></ul>	✓
Oncology	Pan-TRK	Roche	FDA US CE 1 approved	<ul><li>Supply</li><li>Royalty</li></ul>	✓
Ocular	Undisclosed	Undisclosed	FDA approved	• Milestone	-





# Access PD-L1: Abcam's PD-L1 panel includes four of the most relevant clones, optimised for use in IHC

- Developed as custom programme for Merck
- Now on Leica Dx platform, catalogue, and platform partner development

- Developed as custom programme for BMS
- Now on Dako FDA approved Dx, InCell Dx novel Dx modality, and catalogue

- Developed in biotech partnership
- Now in catalogue, platform partner, and Dx development



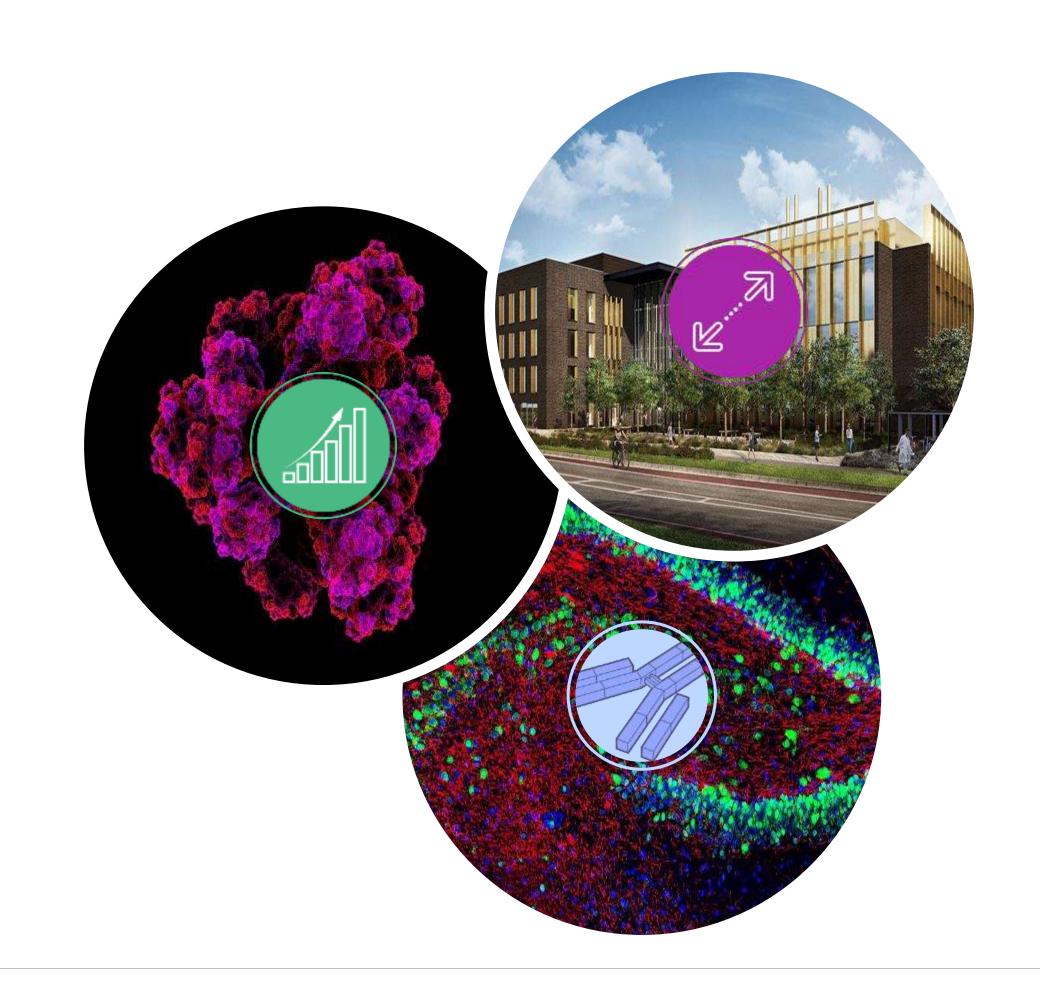
 Licensed from platform and development partner, Roche
 Ventana, to enable access to research community





### Key takeaways:

- Diagnostic and therapeutic development large market opportunity
- Abcam Inside a differentiated approach in delivering proprietary content
- While early stage, several successful project milestones achieved
- Limited further investment required whilst project capacity held







Building a scalable, efficient global organisation

Jac Price
SVP, Supply Chain & Manufacturing



### Building a scalable, efficient global organisation



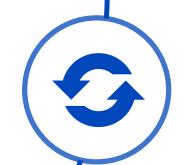
### Global platform capable of accurately delivering for customers rapidly

— We work in core global biotech hubs with the requisite skills and knowledge



### Demonstrated ability to grow to market needs and scale to opportunities

- Deployed technologies and processes to improve product offerings
- Completed projects that deliver capacity, scale and yields



#### Future focus on delivering scaled growth with efficient economics

Investing in necessary people and projects to remove constraints



### Clear plan to realise more potential, including

- New infrastructure and supply chain network improvements
- New engineering, technology and system enhancements

# Global platform capable of delivering for customers accurately and rapidly







Demonstrated ability to grow to market needs and scale opportunities

## Demonstrated ability to scale to opportunities



Developed and expanded the team New talent with depth and breadth



Expanded customer reach

New NL warehouse for EU customer delivery and BREXIT risk mitigation



Integrated acquisitions

Calico and Edigene integrated in FY2019



Increased in-house manufacturing content

Increased revenues and margin contributions



Realised new technology capabilities

Recombinant RabMAb® conversion programme Deployed new Rapid RabMAb® platform



Increased China output capacity: >50%

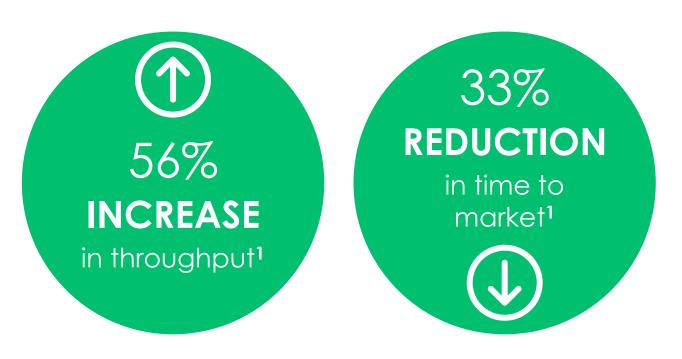
Measured by successful batch output July '19 vs Oct '18

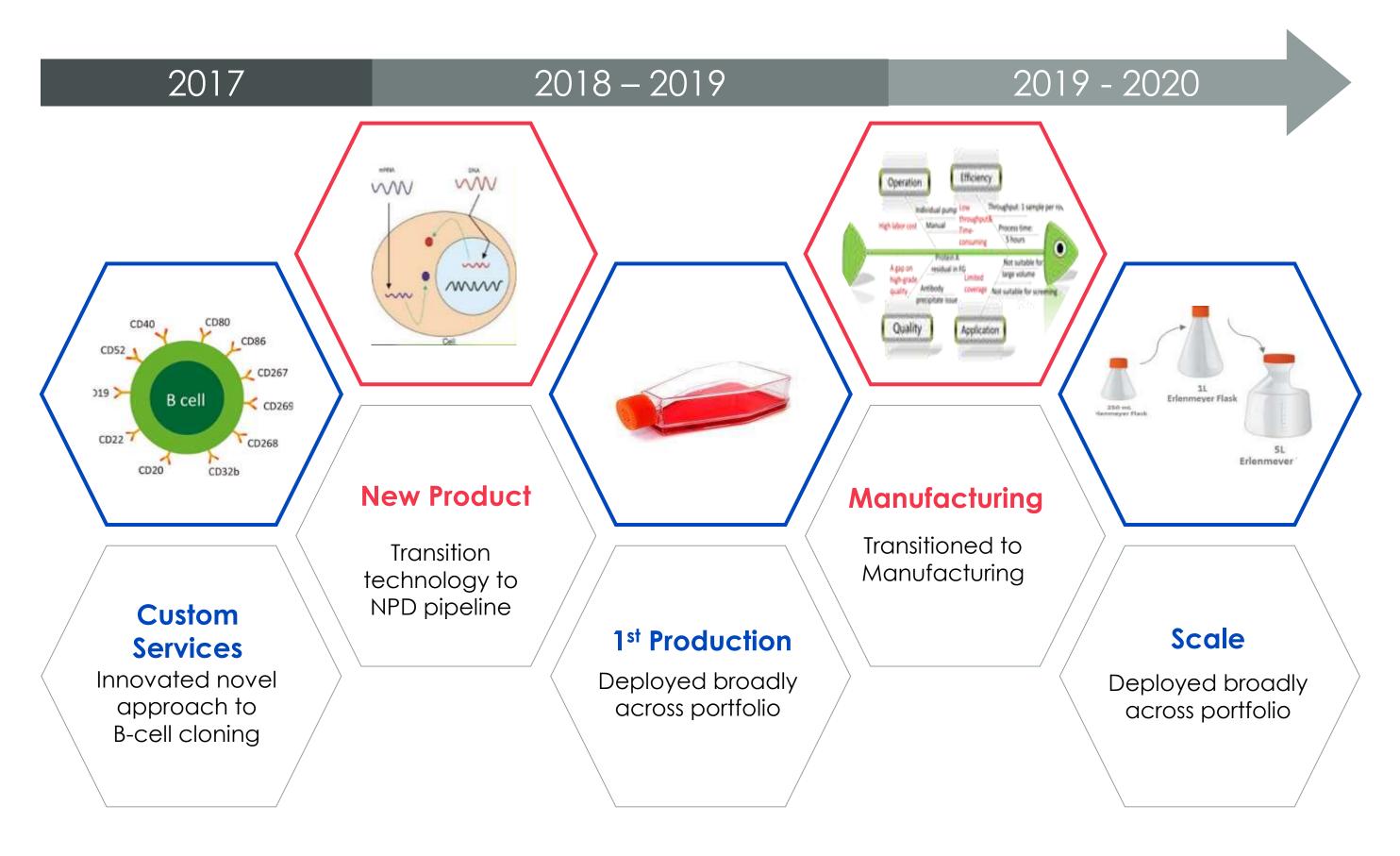




## Demonstrated ability to scale to opportunities: Rapid recombinant RabMAb® conversion project

- Project initiated in 2017 to speed up conversion from hybridoma to recombinant based production:
  - Improved lot-to-lot quality
  - Improved yield rates
  - Reduced time to market and increased process cycle time





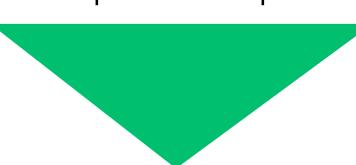




## Future focus on delivering scaled growth with efficient economics

#### Infrastructure

Improve capacity



#### **Areas of investment**

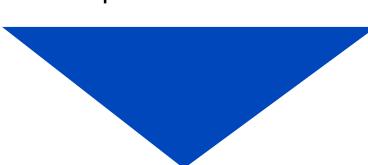
Core facility expansions

Lift/Shift

Regional infrastructure

### **Supply Chain Engineering**

Improve utilisation



#### **Areas of investment**

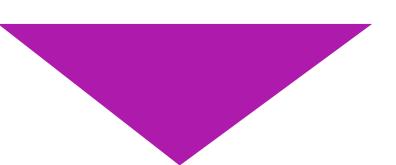
Network optimisation

Material management

Procurement management

### Technology and Systems

Improve capability



#### **Areas of investment**

Automation

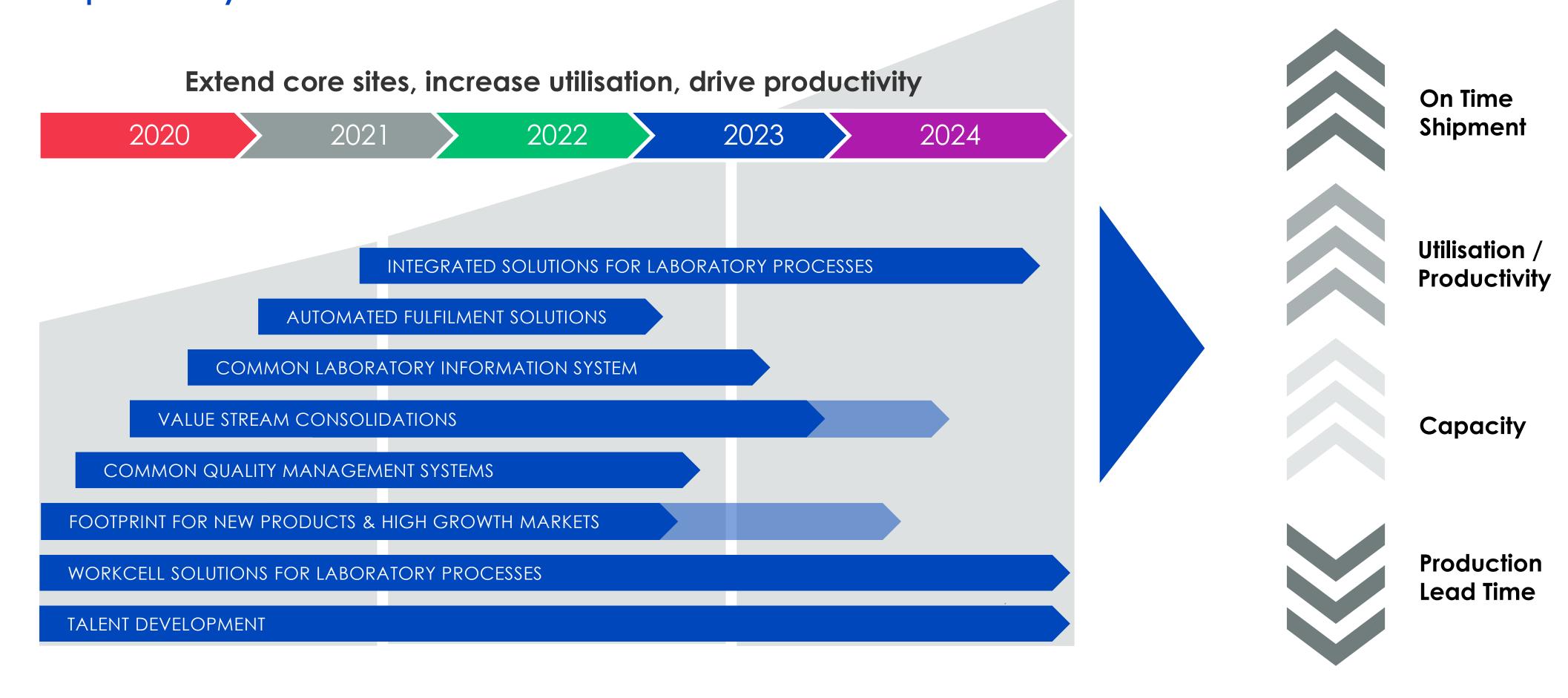
Business systems

Quality management systems





Multiple programmes underway to increase efficiency and capacity







### Supply chain enhancements to support growth

### Researchers

(low volume, high mix)

+50%

Increase in lots produced

>90% total batch count

Industry
(high volume, low mix)

Increase in batch size yields

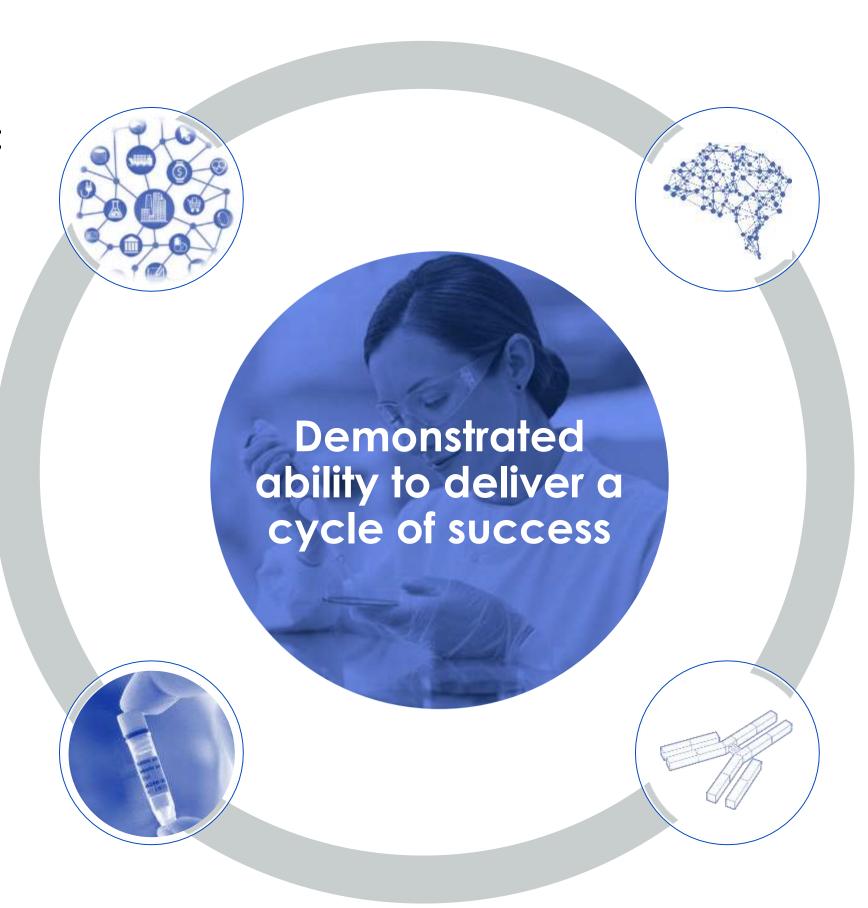
<10% total batch count



# Implementation will allow us to further scale growth with efficient economies, driving performance

#### Invest in systems and people:

Develop and deploy to maintain a positive growth cycle



### Science and technology:

unlocks new capabilities for offerings, yield and scale

#### Supply chain engineering:

Eliminate waste and improve efficiencies, productivity, & capacity

#### In-house product:

Increased quality control, improved margins for investment and return

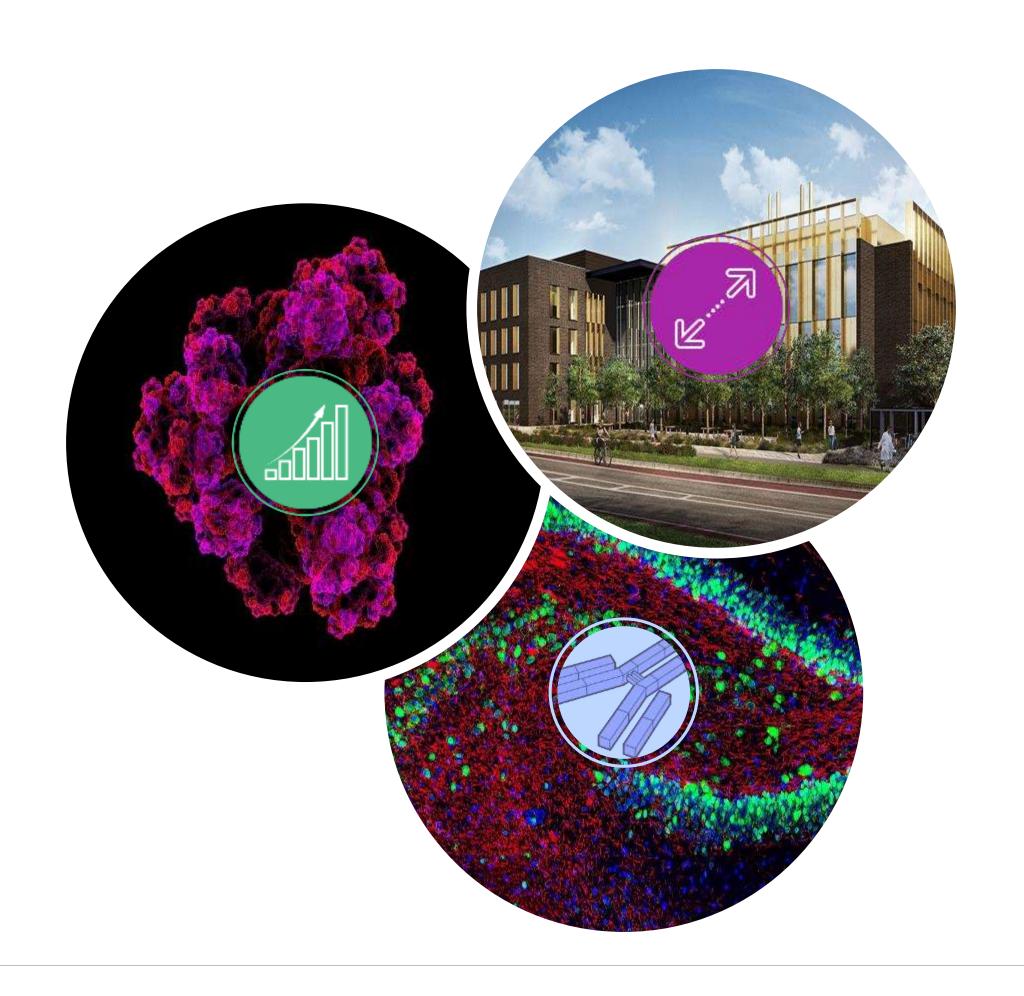




# Building a scalable, efficient global organisation

### Key takeaways:

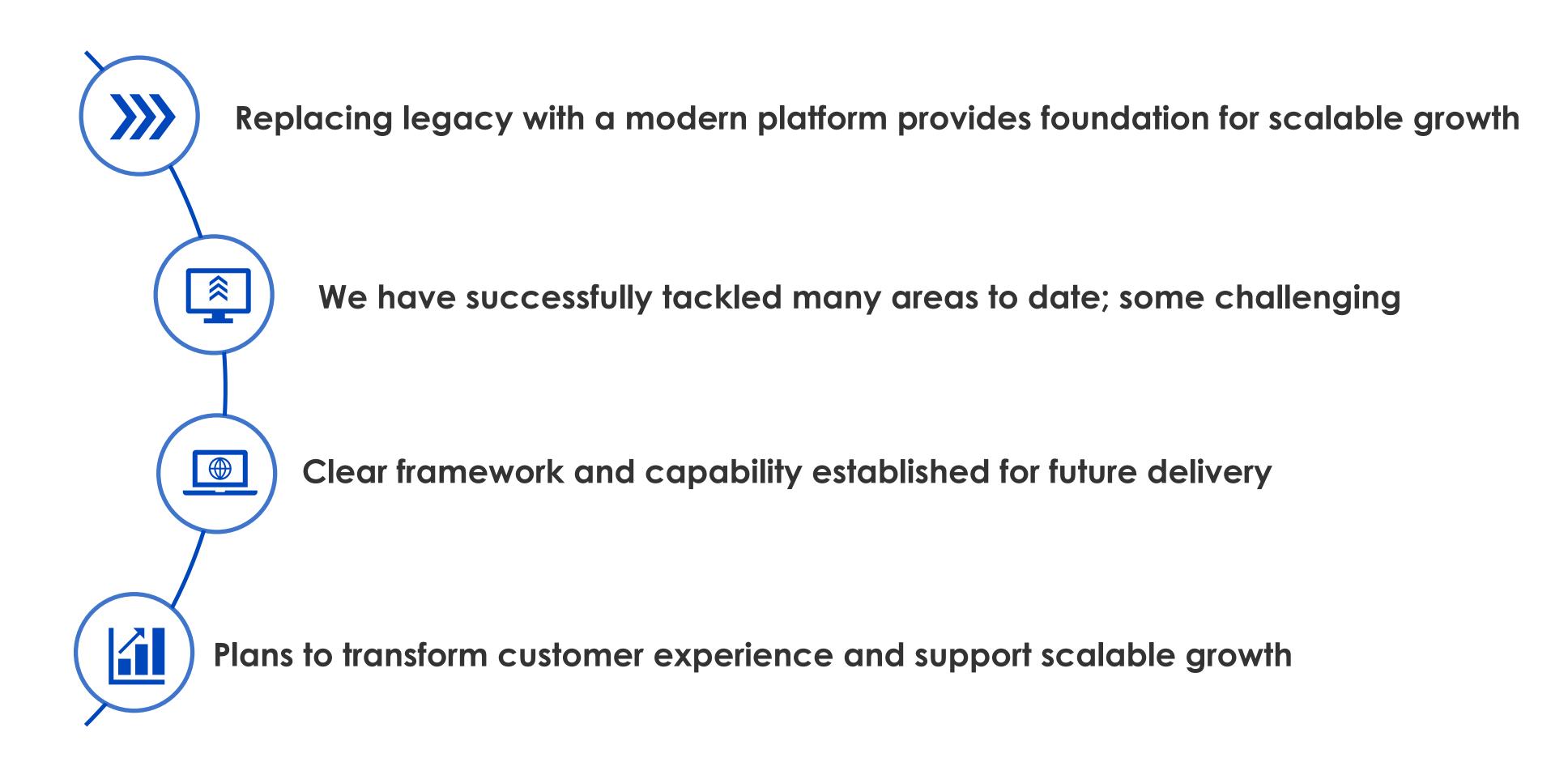
- Organisational scalability critical to deliver the next phase of growth
- Abcam has a track record of delivering system enhancement programmes
- Core investment planned in infrastructure, supply chain and technology







### Delivering our digital transformation







### Delivering our digital transformation

2015 100% home-grown technology Website 1998 Supply chain Manufacturing processes the world's antibody gateway™

IT programme upgrade initiated
Initial focus on non-customer facing parts
Many areas now complete and delivering benefits
Some challenges

Opportunity to make step change to improve the customer experience, remove bottlenecks and enhance competitive position



## Many global functional areas improved to date Benefits to scale, better data and better controls



& Payrol

• Single employee portal driving efficiencies

- Self service employee benefits
- Process-based talent management system



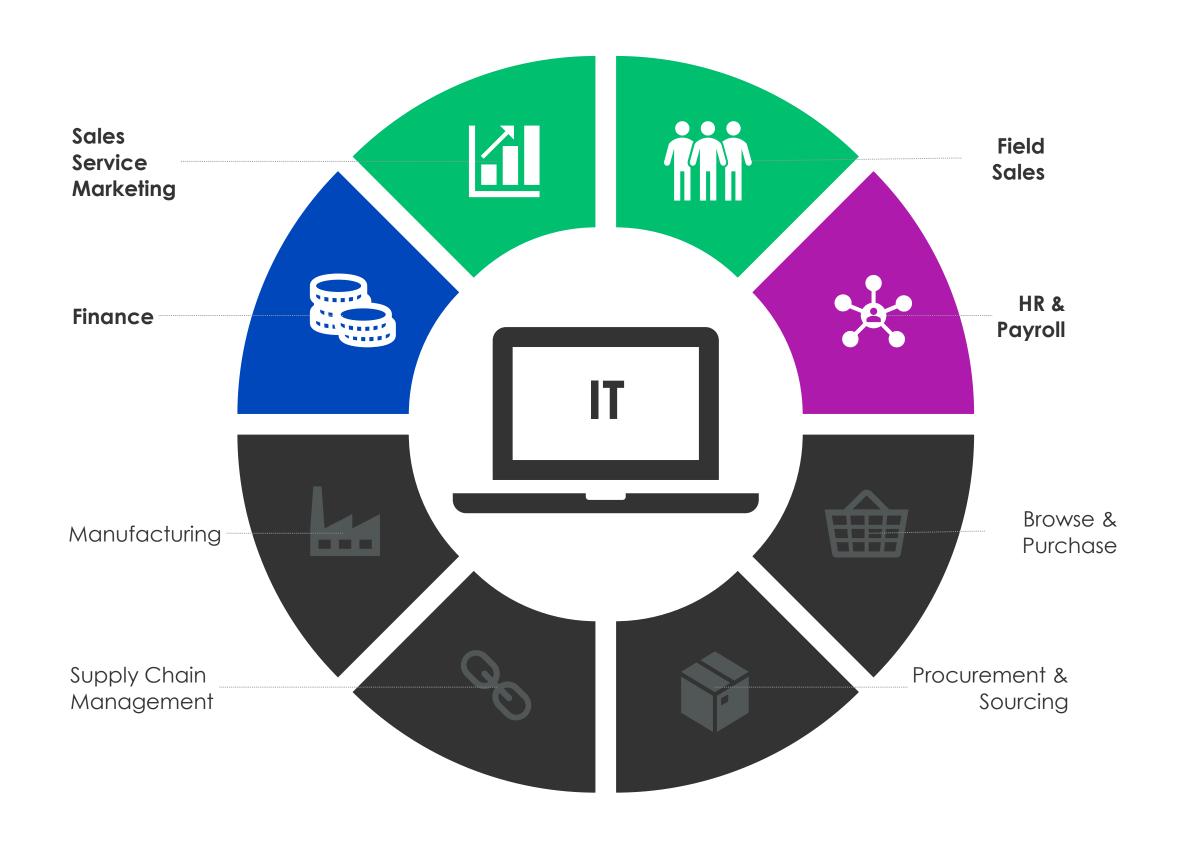
nanc

- Faster procurement and authorisations
- Greater spending controls
- Enhanced reporting systems; improved decision making
- Scalable and efficient processes
- Easier acquisition integration





- Enhanced scientific support
- Better targeting of customers and lead management
- Improved customer experience





### Clear framework for future IT delivery







## Customer Transformation Plan to make step changes to enhance competitive position



- ✓ True omni-channel, frictionless experience
- ✓ Personalised experience with dynamic content
- ✓ Fast find, product advice and access to expertise
- ✓ Engaging, feature rich site
- ✓ Fast transact, single view of customer



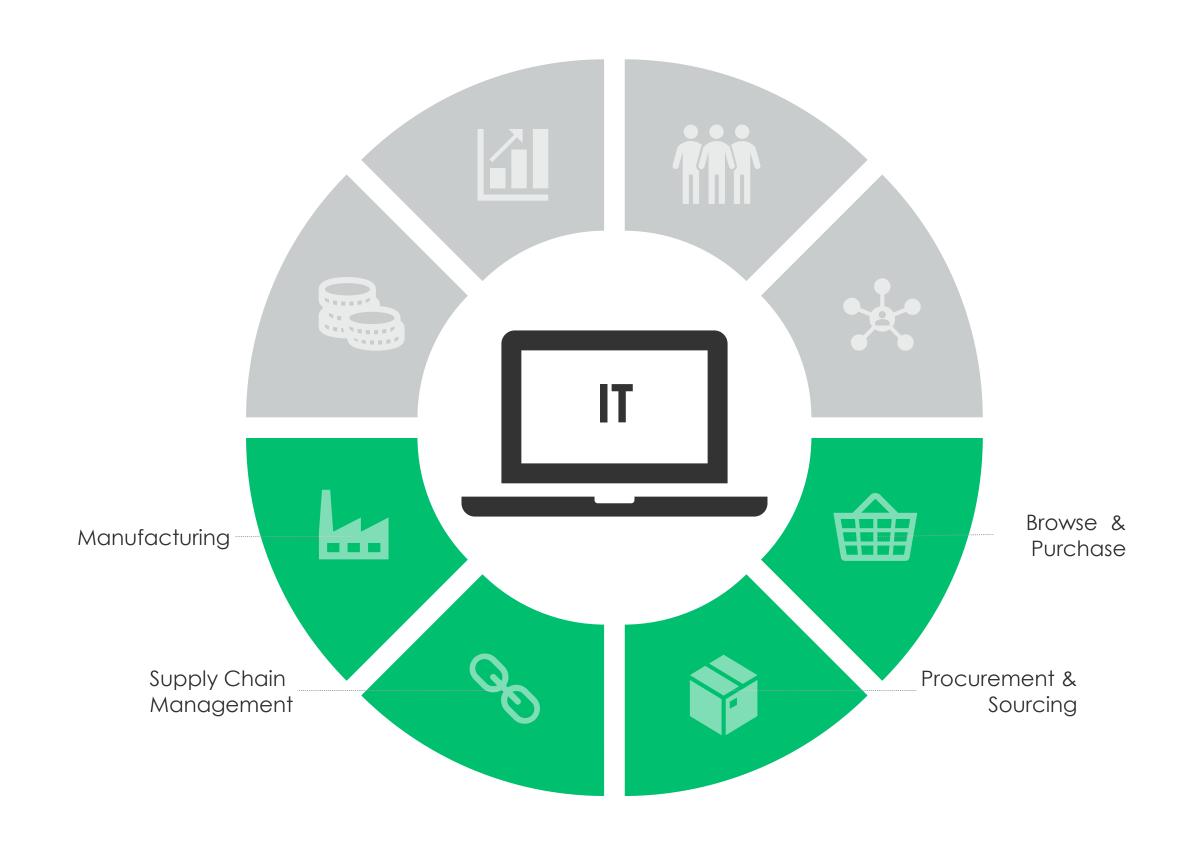
✓ Eliminate waste, improve efficiencies and productivity



✓ Increase efficiency in inventory management, costing and forecasting



- ✓ Faster decisions from holistic data and reporting
- ✓ Increased use of data and machine learning capabilities

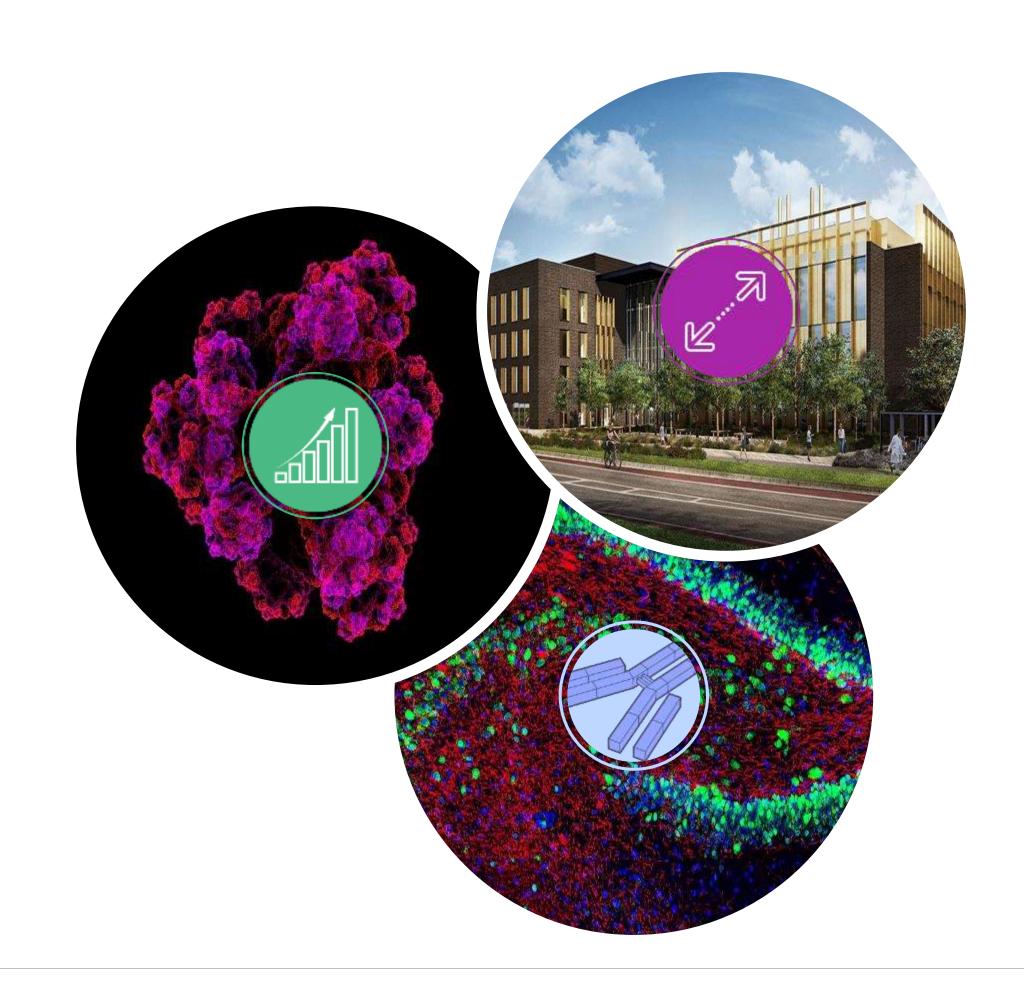




### Delivering our digital transformation

### Key takeaways:

- Made good progress in removing legacy as a constraint to growth
- The next area of focus is a customer transformation
- This phase is currently being designed
- We have established strong delivery capability to enable this change

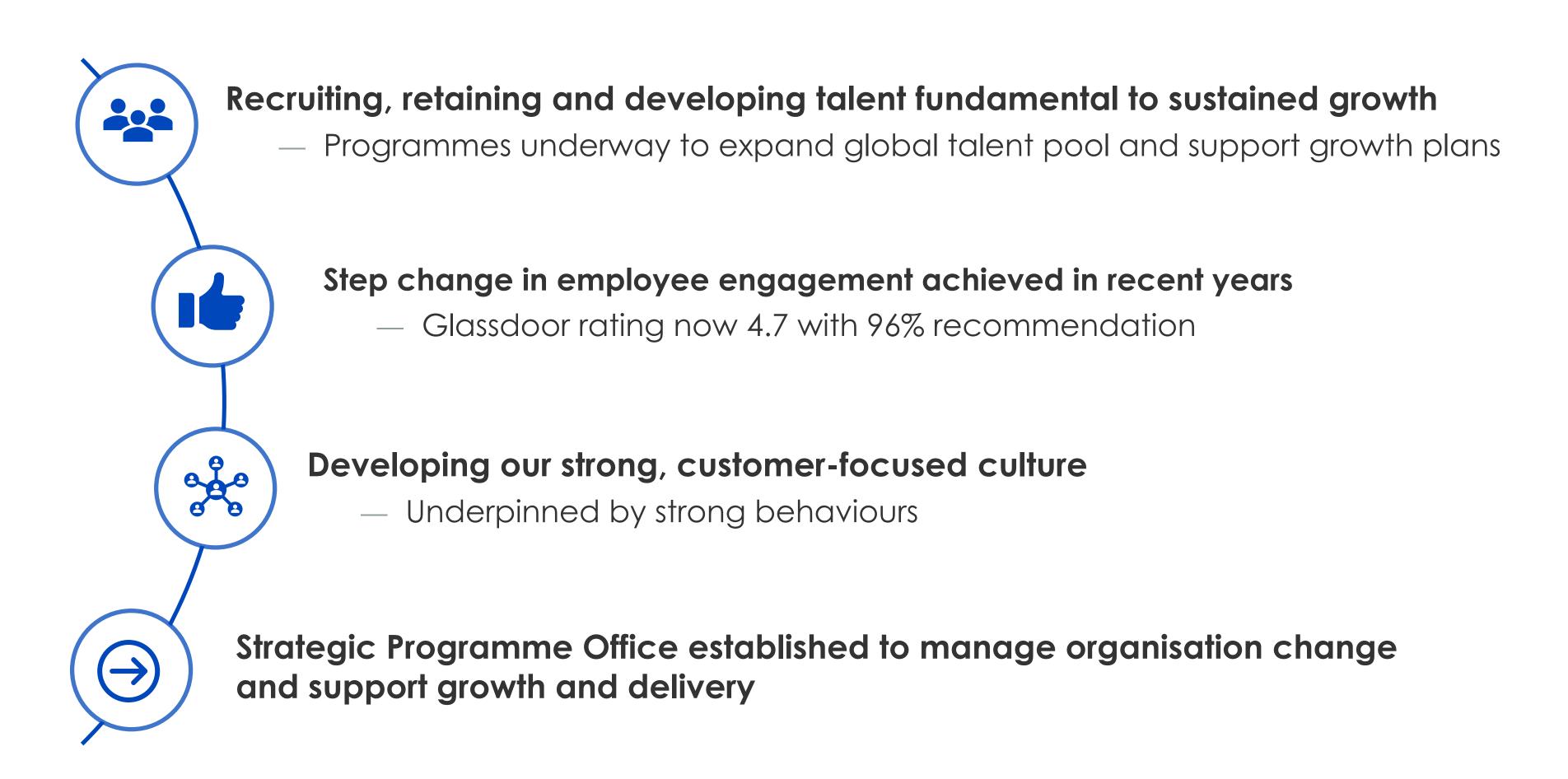




Maximising talent to enable growth Nick Skinner SVP, Human Resources



### Maximising talent to enable growth





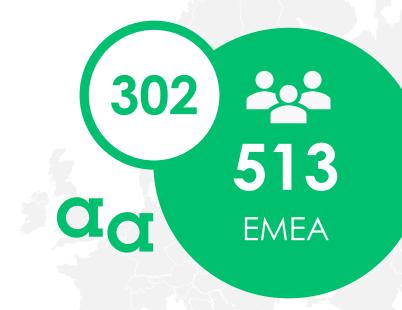
Recruiting, retaining and developing global talent fundamental to sustained growth

## Our global team



**Key:** # of employees











C





## Ability to attract, retain and develop talent vital to delivering growth ambitions

- Total employee growth of ~60% from FY14-19
  - Number of scientists and sales professionals doubled
- Expect to add additional over 500 (net) FTEs by FY24
- Future focus on building strong pipeline at all levels
  - Strong performance in 'time to hire'
- Increase in team development and training over last five years
  - Sponsoring post graduate qualifications
  - Increasing % of vacancies internally filled



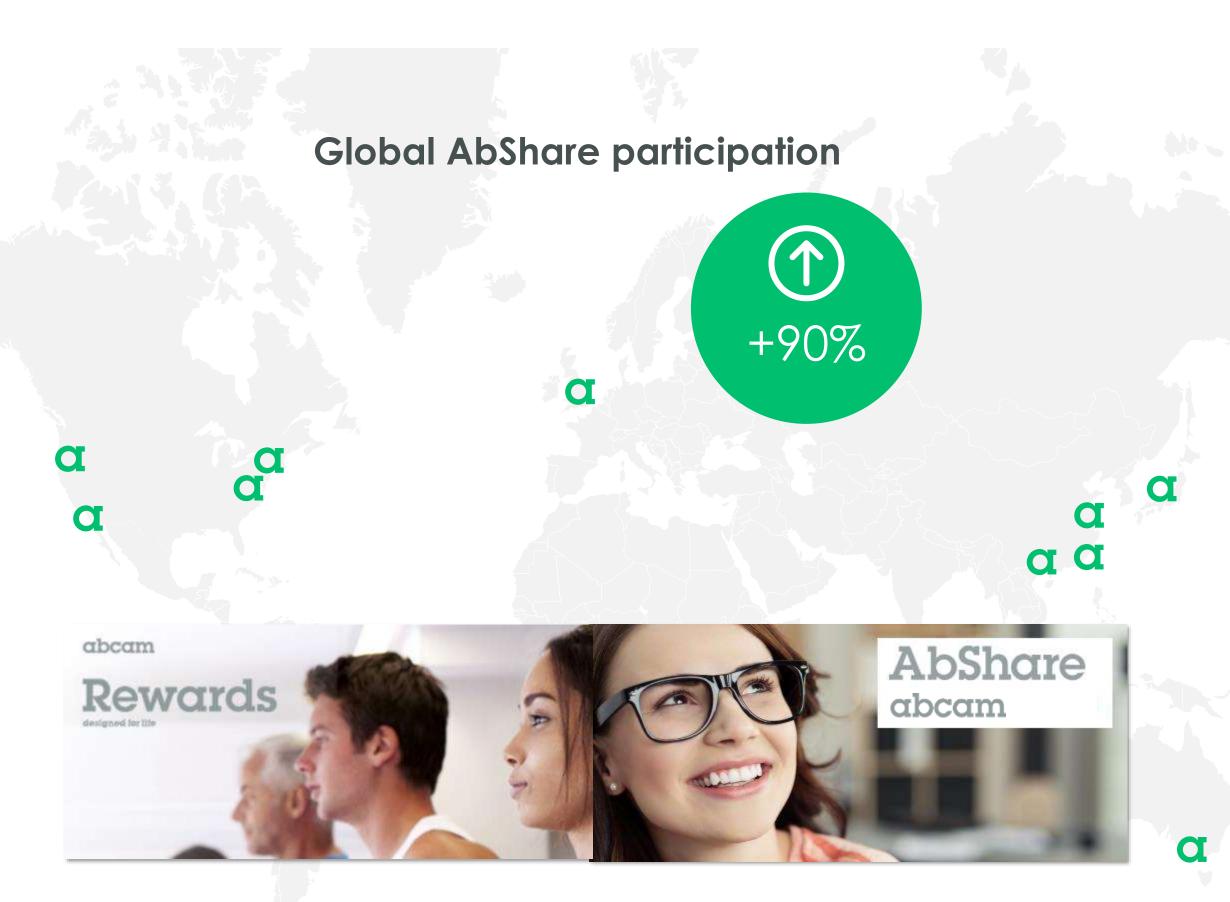




Step change in employee engagement achieved in recent years

## Fostering an owner mindset, driving performance and sharing success

- Award winning share scheme ('AbShare') launched in October 2019
  - Drives owner mindset; supports retention
  - 3 year scheme, ~1% of ISC
  - Open to all employees globally: ~90% participation
  - Significant increase in employee share ownership
- AbShare part of wider strategy to ensure we are able to attract and retain talent, including:
  - Base salary competitiveness
  - More flexible benefits
  - Increasing variable pay linked to customer metrics and financial and strategic delivery



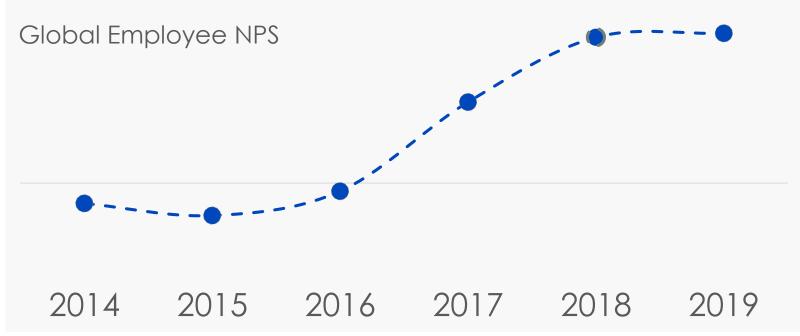




## Building a customer-focused culture that champions dedicated, agile and audacious behaviours

- Customer-focused culture underpins competitive advantage
- Entrepreneurial culture fosters innovation to better serve customers
- Transformed employee engagement
- Embedded CSR focus on environmental, ethical, welfare and diversity issues
- Strong community activity including partnerships to inspire next generation of scientists
- Progress on gender pay actions and broader inclusion and diversity



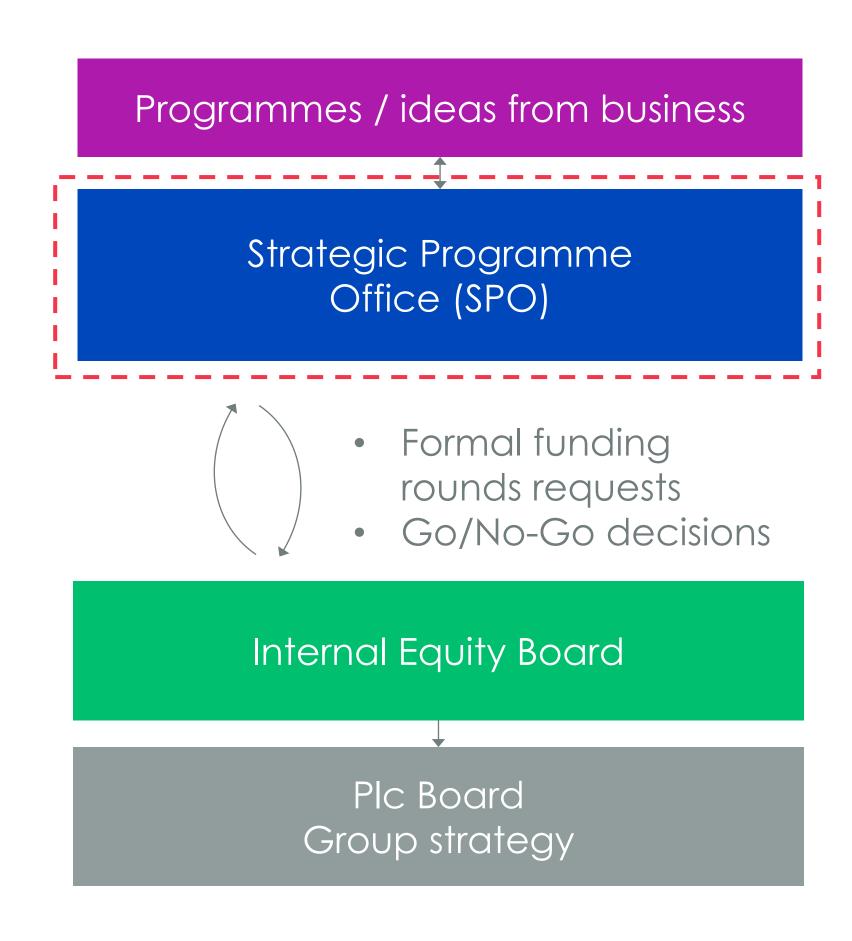






## Strategic Programme Office to deliver more sustainable change and growth, faster

- Modelled on past success and best practice
- Systematic VC style approach, overseen by Internal Equity Board
- Sourcing talent to fill programme roles
- Key objectives and benefits:
  - Provides governance framework, coordinates delivery
  - Finds talent and removes bottlenecks
  - Orchestrates activity to ensure successful and sustainable change
  - Drives innovation and provides a route to funding for new ideas for growth

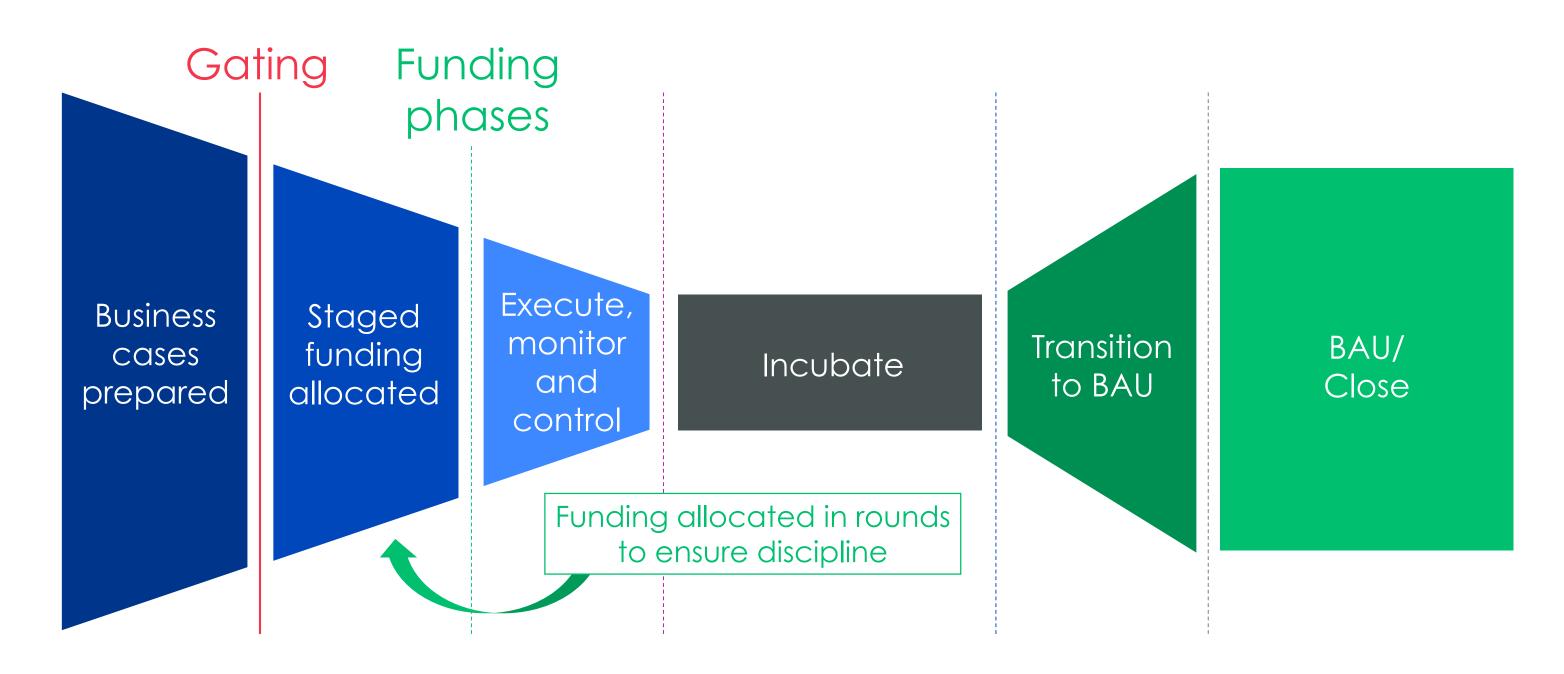




Strategic Programme Office established to manage organisation change, support and growth

## Strategic Programme Office ensures discipline

- Led by former VP of FP&A
- 12 projects approved since July
  - Includes seed funding for novel ideas
- Talent gaps identified and filled mix of internal/external
- Sponsorship from executive team



#### Robust gates to unlock funding

- 1. Clear talent and leadership
- 2. Strong ROI
- 3. Achievable plan

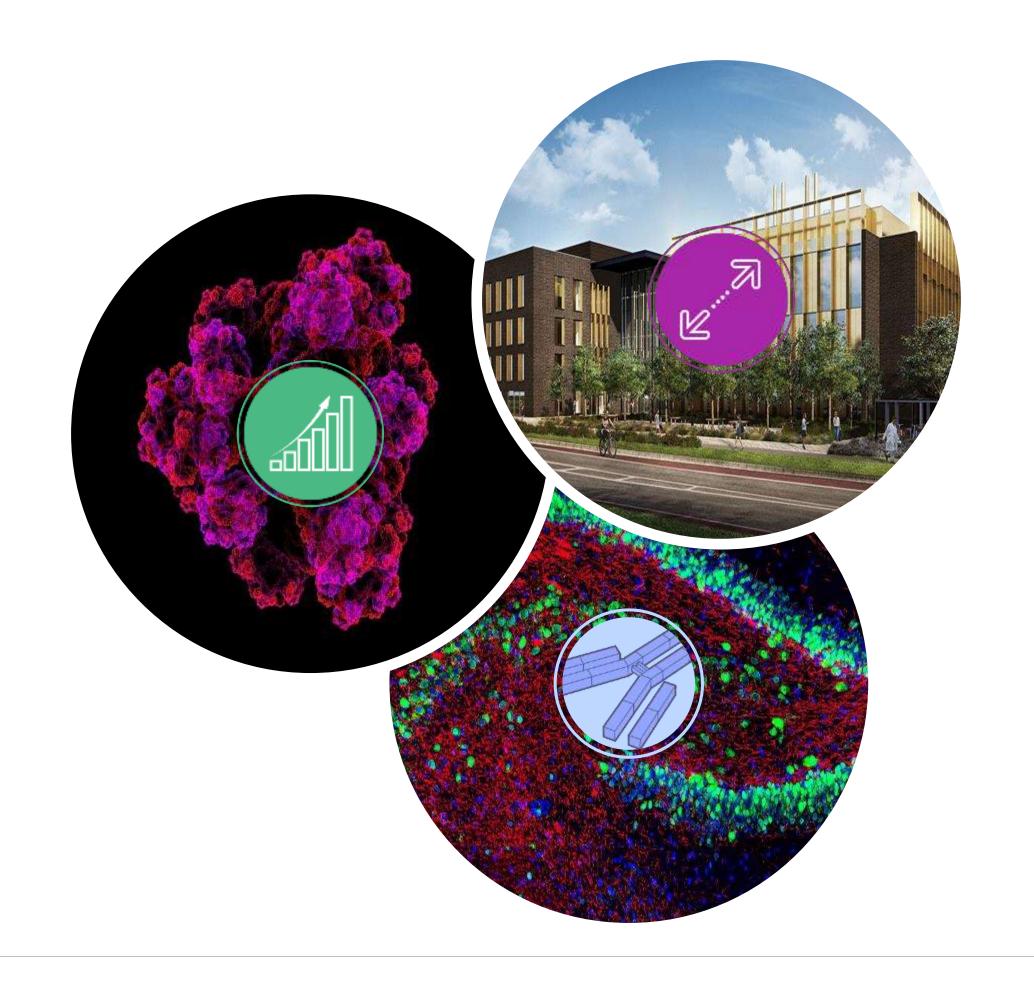
Monitor to ensure change is sustainable and benefits realised



### Maximising talent to enable growth

### Key takeaways:

- Abcam has historically managed strong growth as an organisation giving us confidence to deliver the next phase
- Key to delivering the five year strategy is a nimble, customer driven, growth-oriented organisation
- Strategic Programmes Office ensures disciplined delivery of growth plans facilitated by depth of talent





Continuing to deliver attractive financial returns

Gavin Wood CFO



### Continuing to deliver attractive financial returns



Long term adj. EBIT margins and ROCE expected to be broadly in line with FY19 on greater revenue base

Those investments will support sustainable revenue growth into and well beyond FY24



## Capital allocation strategy remains focused on generating long-term value

- Reinvestment in business to drive long term growth
- Invest in existing, core growth businesses:
  - Best-in-class antibodies
  - Differentiated, proprietary research reagents

- 2 Capex in foundations to support scalable growth
- Increase scalability of core platform automation/footprint
- IT transformation: providing best-in-class customer experience and business systems
- Infrastructure improvements to best serve the customer base
- Selective acquisitions aligned to core strategy
- Complementary portfolios of best-in-class products
- Acquisitions that support or accelerate core growth strategy

4 Capital discipline

- Disciplined, long-term investment approach to organic and inorganic investment
- Maintain a robust balance sheet
- Continued focus on ROCE
- Strategic Programme Office established



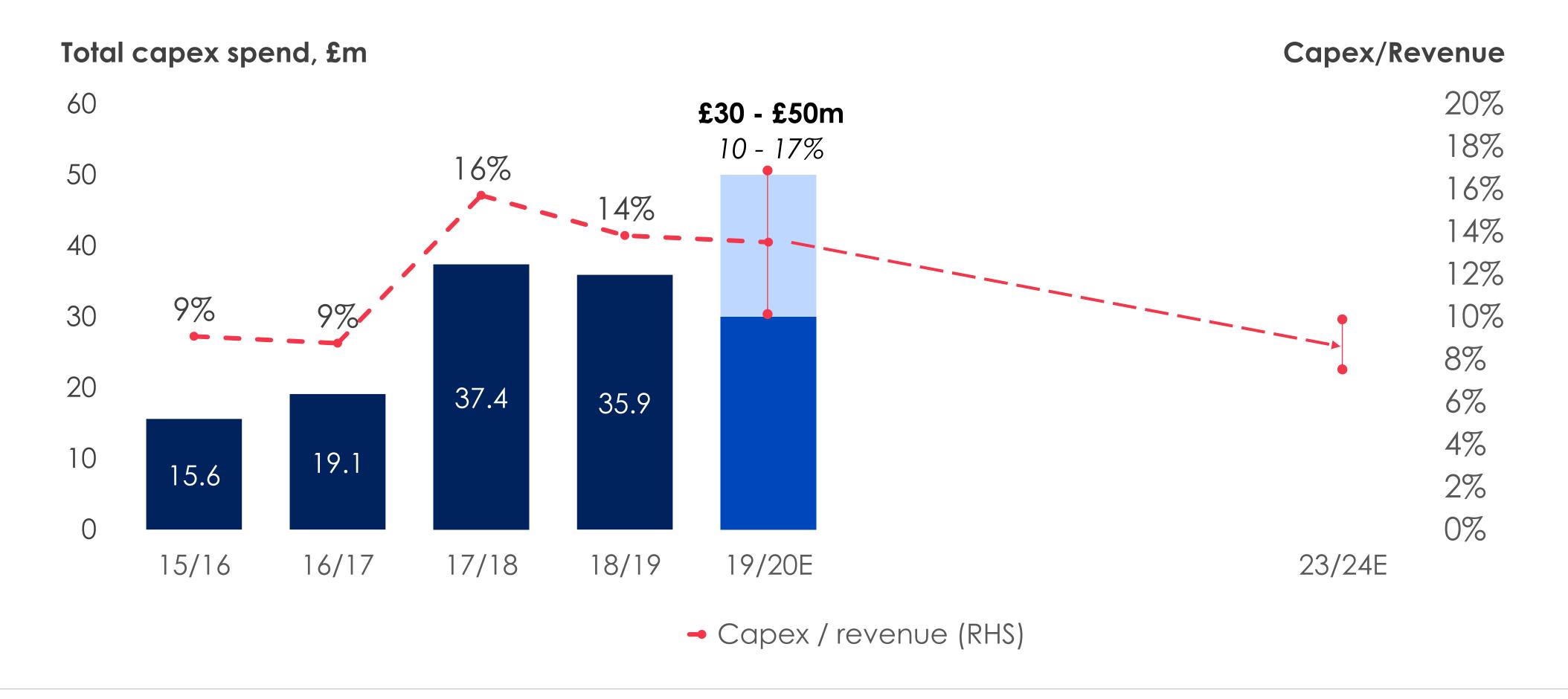
## Strategic growth investments focused in five areas

	Incremental capital investment	Incremental adj. operating margin	Selected projects
	~£75-125m <sup>1</sup>	300 – 600 bpts (FY2020)	
1 In-house R&D capabilities for faster and broader innovation	40 – 50%	40 – 50%	<ul><li>Advanced antibody development</li><li>Recombinant proteins</li><li>Edited cell lines</li></ul>
2 Customer experience and e-commerce <sup>2</sup>	10 – 20%	20 – 30%	<ul><li>Data science and digital marketing</li><li>Global sales</li><li>China expansion</li></ul>
Operational capacity and efficiency <sup>2</sup>	15 - 25%	20 - 30%	<ul> <li>Logistics and supply chain enhancements</li> <li>Footprint optimisation</li> </ul>
IT transformation to upgrade legacy systems <sup>3</sup>	20 - 30%	n/a	Supply chain and manufacturing
5 Investment in people <sup>4</sup>	n/a	5 - 15%	<ul> <li>Business transformation</li> <li>Corporate development</li> <li>Reward, training and development</li> </ul>

Incremental returns from new investments expected to be in line or above Group ROCE



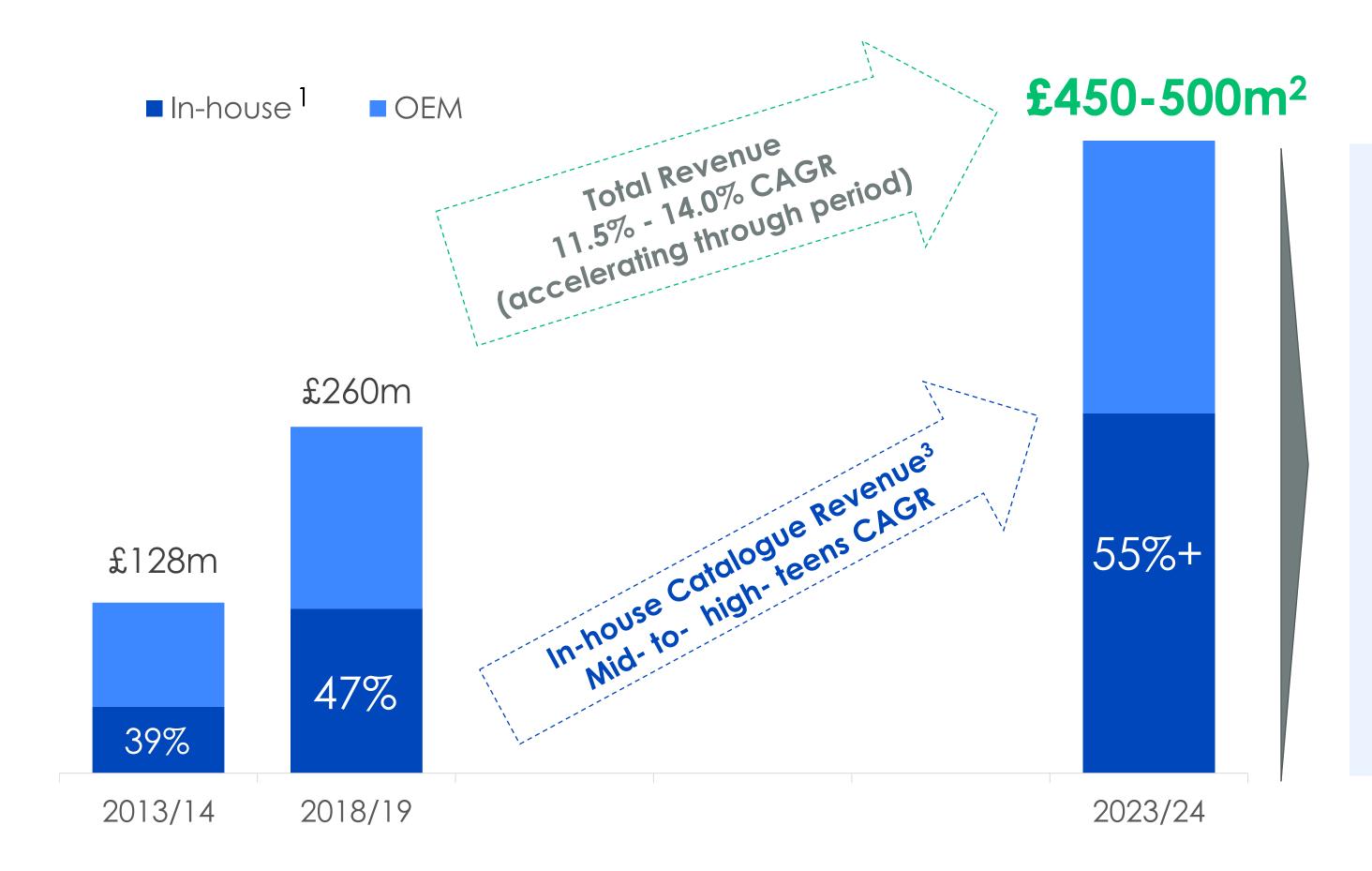
## We are prioritising investment in the near term, to maximise returns





Those investments will support sustainable revenue growth into and well beyond FY24

### Organic revenue potential of £450-500m by FY2024



#### Revenue drivers:

- Continued global R&D funding
- Further share gains in RUO antibodies
- Growth from adjacent product lines
- Successful "Abcam Inside" relationships
- More capacity and capabilities to deliver



<sup>1)</sup> Total in-house catalogue and CP&L revenue

<sup>2)</sup> Based on 2019/20 budget exchange rates

<sup>3)</sup> Note – growth guidance excludes CP&L revenue



Long term margins and ROCE to be in line with historical level on greater revenue base

## Long-term financial goals reflect focus on sustaining growth whilst driving attractive margins and returns

	<b>2018/19</b> (Restated for IFRS16)		Long-term outlook to 2023/24
Revenue, £ (CER growth rate)	£259.9m (9.2%*)		£450m – £500m
Adjusted Operating Profit Margin, %	32.4%		Low thirties % <sup>2</sup>
Adjusted Pre-tax ROCE <sup>1</sup>	18.1%		At or above 18% <sup>1</sup>
Capex, £ (% of revenue)	£35.9m (13.8%)		£175 – 225m over FY20-24 period



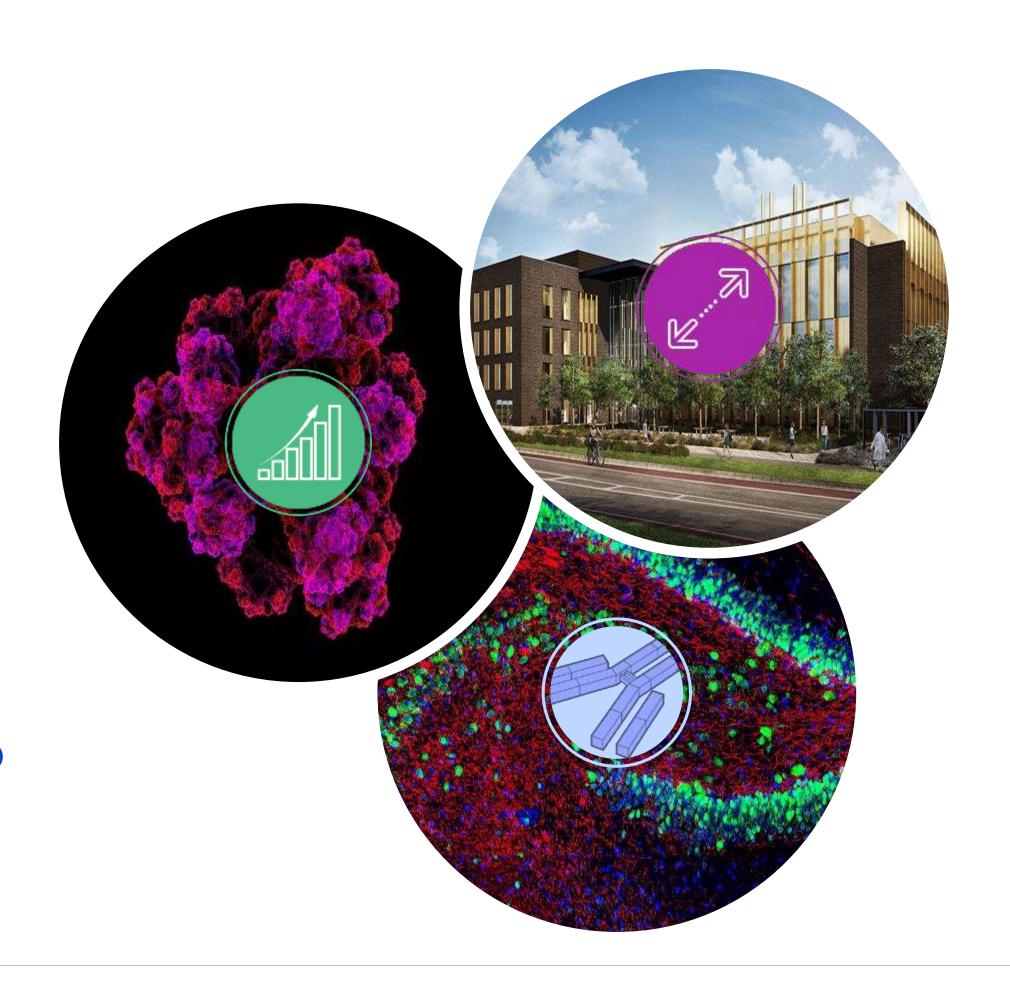
<sup>1)</sup> Post impact of IFRS16 introduction

<sup>2)</sup> Contingent upon the phasing of existing plans and future projects

### Continuing to deliver attractive financial returns

### Key takeaways:

- Successful track record of profitable revenue growth and attractive returns
- Investing to remove constraints, enhance customer offering and scale organisation
- Opportunity to deliver £450 £500m revenue by 2024
- Disciplined capital allocation strategy Group ROCE to remain well above cost of capital





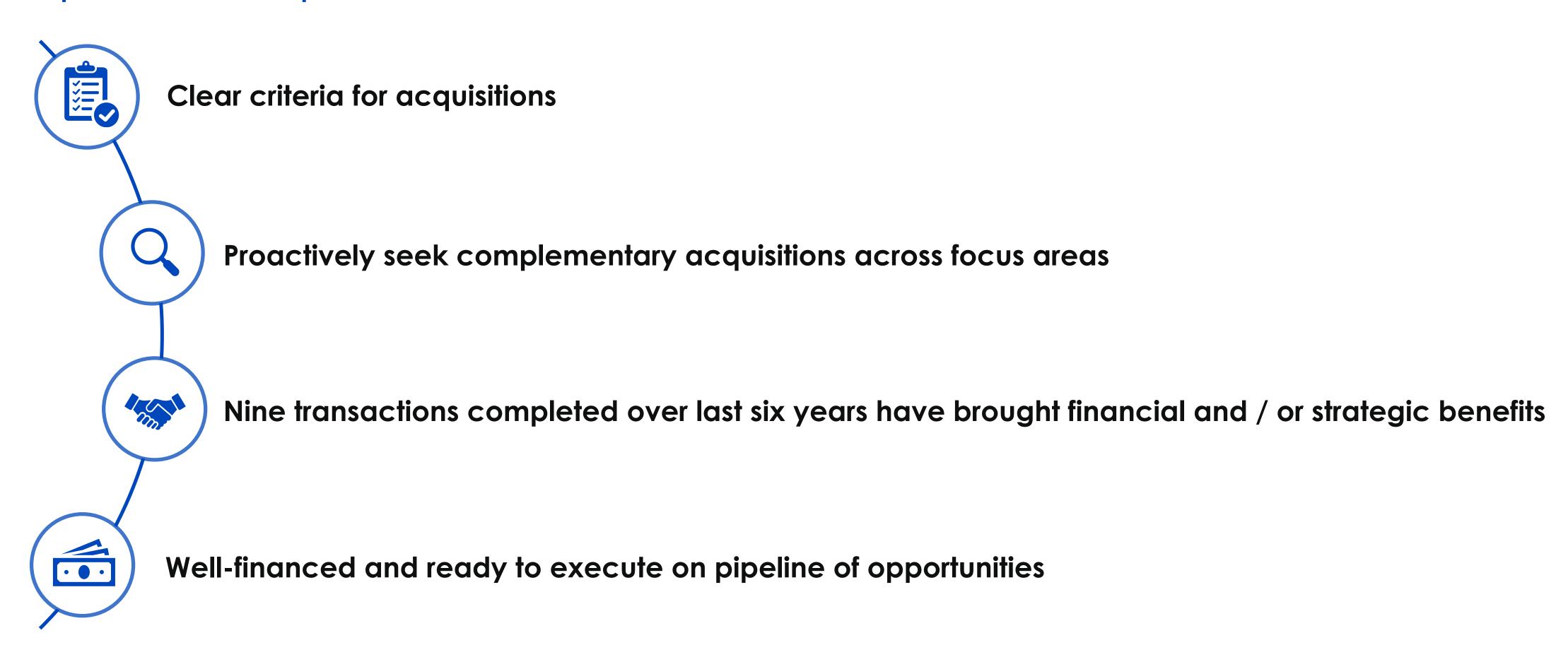
Supplementing organic growth through selected acquisitions and partnerships

Cheri Walker

SVP, Corporate Development

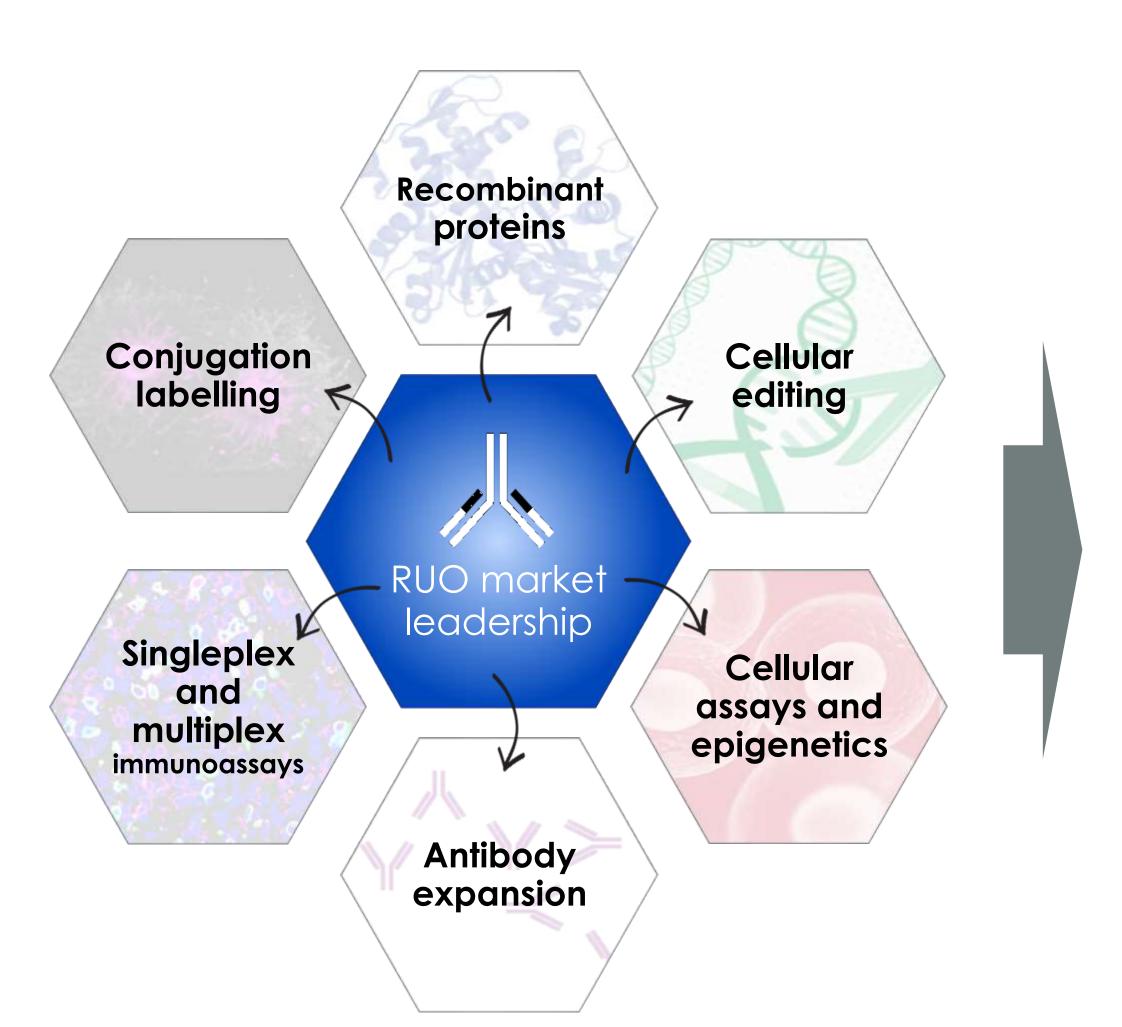


# Supplementing organic growth through selected acquisitions and partnerships





## Focus areas aligned with organic strategy



#### Focus areas:

- Synergistic with antibodies; overlapping customer base
- Markets with strong growth; leading product opportunities

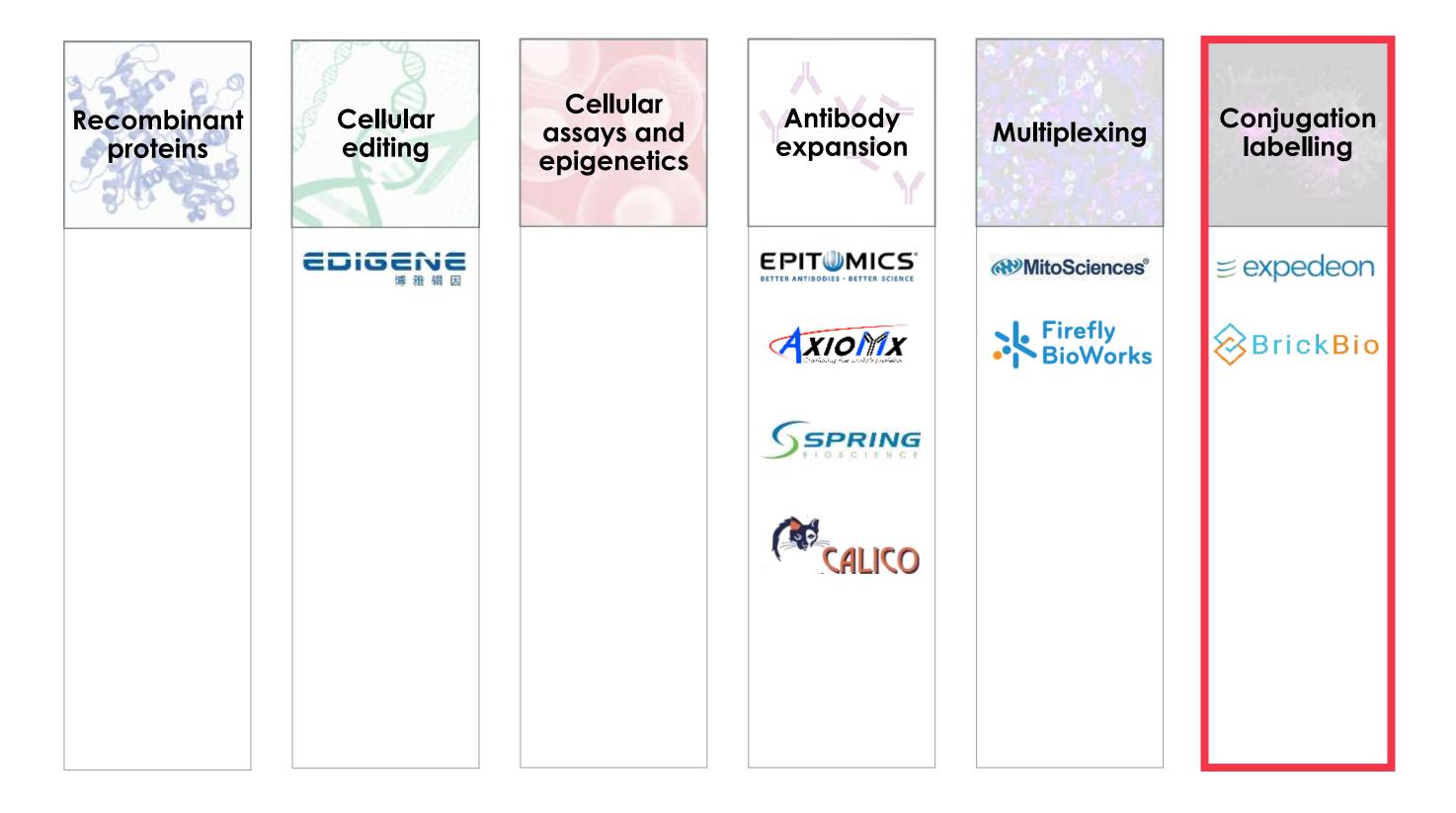
#### Acquisition criteria:

- "Gold standard" reagents to study biological pathways
- Potential to:
  - create unique propositions by combining with Abcam technology
  - drive growth via Abcam's platform and brand
  - remove constraints to innovation and differentiate product offering
- Accretive deals with attractive return on capital/IRR





## Strategic map and plan for each area Team focused on proactively executing against the plan

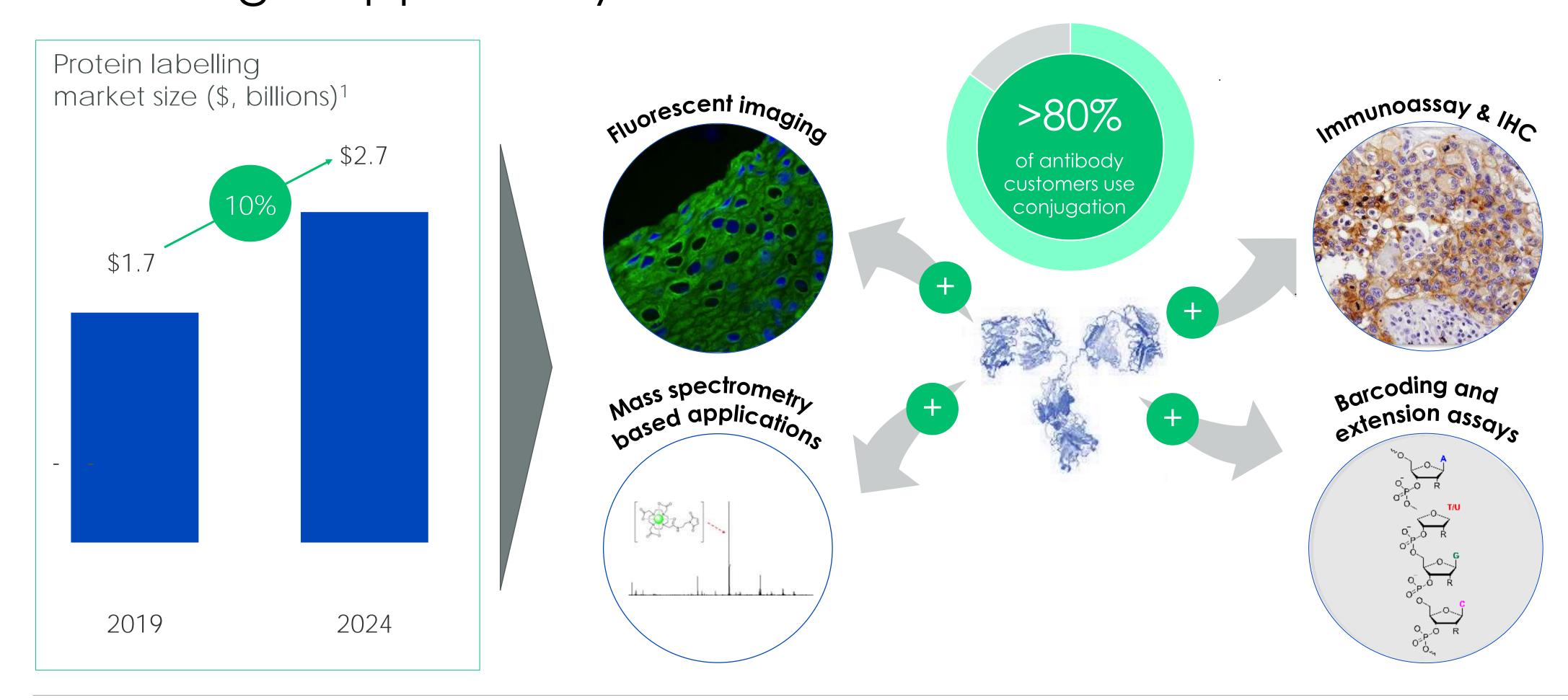




## Q

## Focus on conjugation

A strategic opportunity for Abcam







## Executing against plan Building broad-based, complementary capabilities

INTERNAL LABELLING



Incorporation of unnatural amino acids in recombinant antibodies for easy conjugation



EXTERNAL CONJUGATION



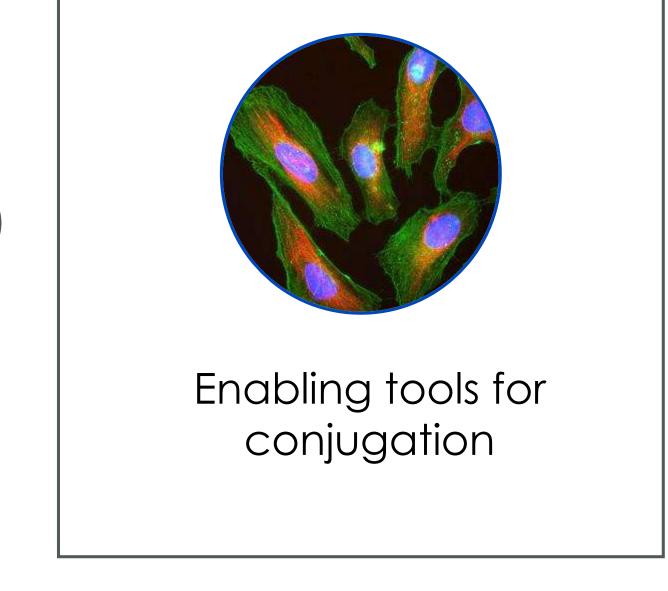
sexpedeon

Technology to add labels to proteins and antibodies



**ENABLING TECHNOLOGIES** 





Objective: build a leading conjugation platform to drive share gains in antibodies and new revenue streams across wide applications





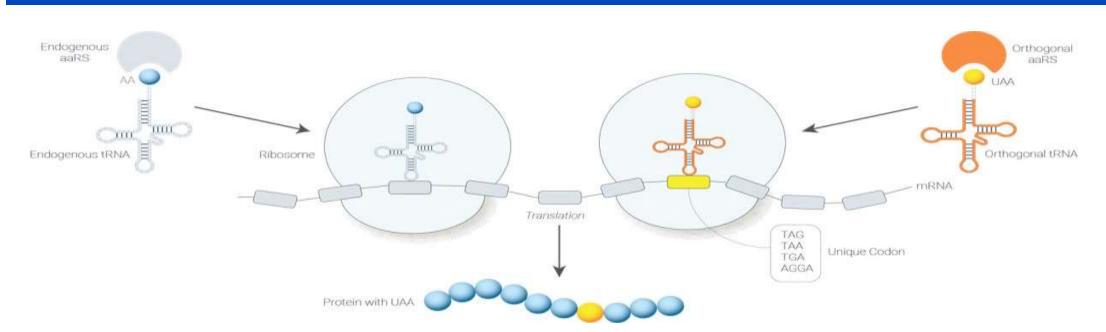
## BrickBio partnership: rapid, precise conjugation



#### Partnership details:

- Abcam exclusive license for RUO use signed 9 Nov 19
- Co-exclusive diagnostic rights
  - Joint development program
- First antibodies to launch in 2021 (Cal)
- Equity investment in BrickBio (terms undisclosed)

**Key technology:** Incorporation of binding site into recombinant backbone for simple, targeted conjugation



- Technology enables highly specific, repeatable antibody conjugation
- Facilitates easy, reliable conjugation process
- Supports standardisation and quality focus
- Opens up conjugation-ondemand; simple QC and release
- Potential to develop a wide range of applications and kits



Proactively seek complementary acquisitions across focus areas

## 2 Expedeon: cutting-edge conjugation technologies

#### **Deal terms**

- Acquisition of Expedeon's proteomics and immunology business for €120m cash announced on 11 November
- Two main assets acquired Innova and TGR
- Substantially all revenue, profits and assets of Expedeon AG
- Subject to Expedeon shareholder approval on 19 December 2019



#### Rationale



- Highly-complementary to Abcam's existing antibody and multiplex growth strategy; high customer overlap
- Provides core competency and toolbox for key antibody application areas
- Ability to offer standalone products plus line extensions across Abcam product portfolio
- Abcam's channel, digital platform, and content provides opportunity to drive growth and realise value of assets
- Financially attractive accretive from FY21
  - ROIC (pre-tax) ahead of the Group WACC by FY23





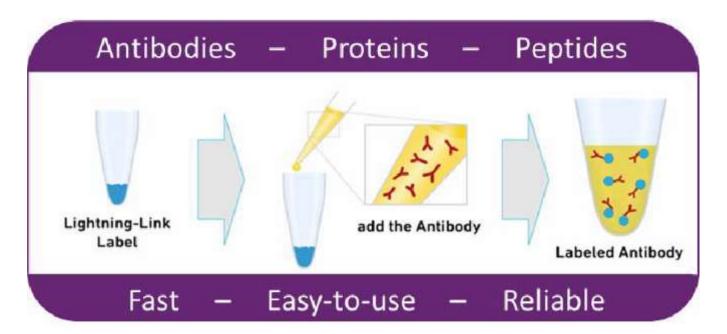
Proactively seek complementary acquisitions across focus areas

## 2 Expedeon: cutting-edge conjugation technologies





Lightning-Link®
Conjugation technology

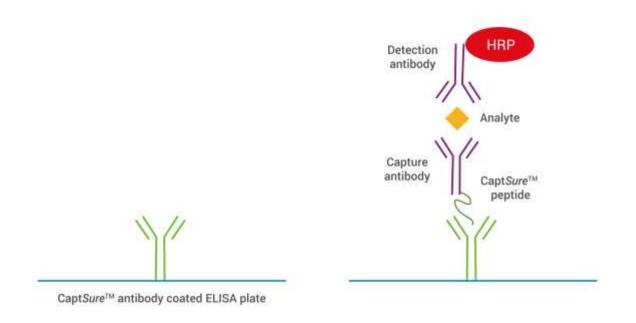


#### **Customer benefits:**

- Fast, easy to use, efficient (only 30 seconds hands-on time)
- No need for secondary antibody
- Wide variety of labels including: enzymes, florescent dyes, tandems, oligos, metals



CaptSure<sup>TM</sup>
Conjugation capture technology



#### **Customer benefits:**

- Fast process saves on downtime
- Uses 10x less capture antibody
- High flexibility

#### **Creating value**

- Leading antibodies + conjugation and labelling
- Immunoassay and kit development:
  - Abcam's Simple Step ELISAs
  - DIY ELISAs
- New kits recently launched
  - Metal conjugates
  - Oligo conjugates



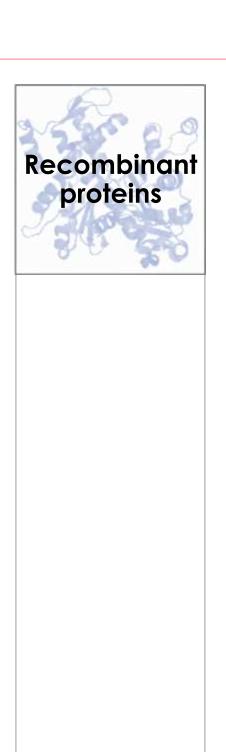


Proactively seek complementary acquisitions across focus areas

# Strategic map and plan for each area Cellular Editing

#### Key insights:

- >50% of Abcam customers would like to purchase cell lines
- Few catalogue players
- Market partially served by custom services
- No player with a comprehensive catalogue of:
  - High quality
  - Cell lines and lysates
  - Broad choice of targets in disease relevant cell lines







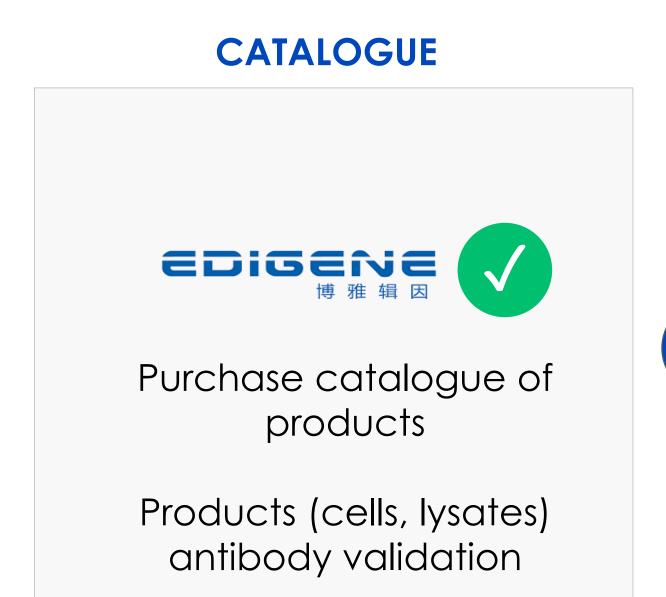








## Edigene portfolio cornerstone of larger strategy





#### **EXPANSION**



Partners to expand catalogue menu, expand cell line targets

#### **CAPABILITIES**



Organic build

### Freedom to Operate and partnership activities:

- ERS license
- Broad license
- Other license

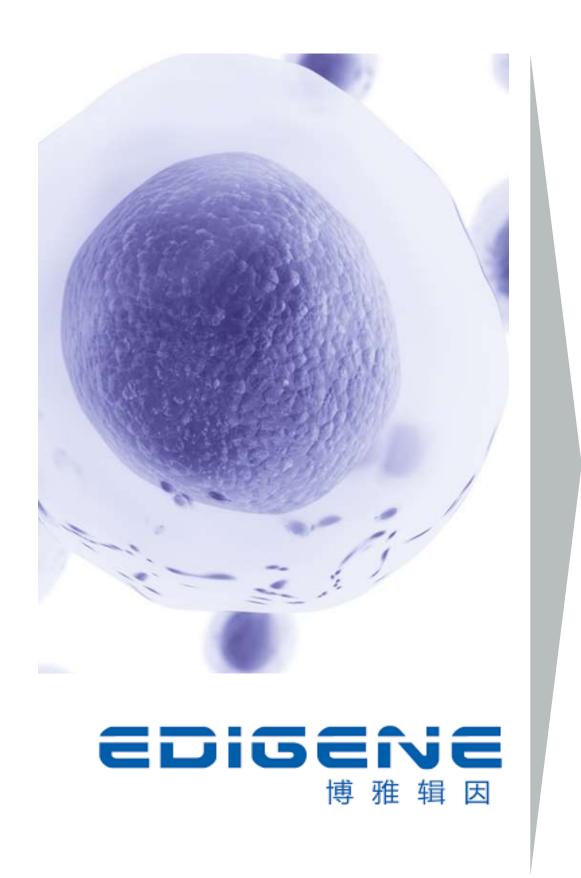


Oxgene partnership





## Edigene portfolio cornerstone of larger strategy



#### Edigene value proposition

- Largest portfolio of knock-out diploid cell lines (2,800+)
- Strategic fit into important focus area
- Gene targets align with Abcam antibody content
- Cell lines used in pathway studies with antibodies/proteins
- KO cell lines for antibody validation

#### Update

- ✓ Tech transfer complete
- ✓ Lysates launched in October 2019
- ✓ Cell lines on target for launch in early 2020



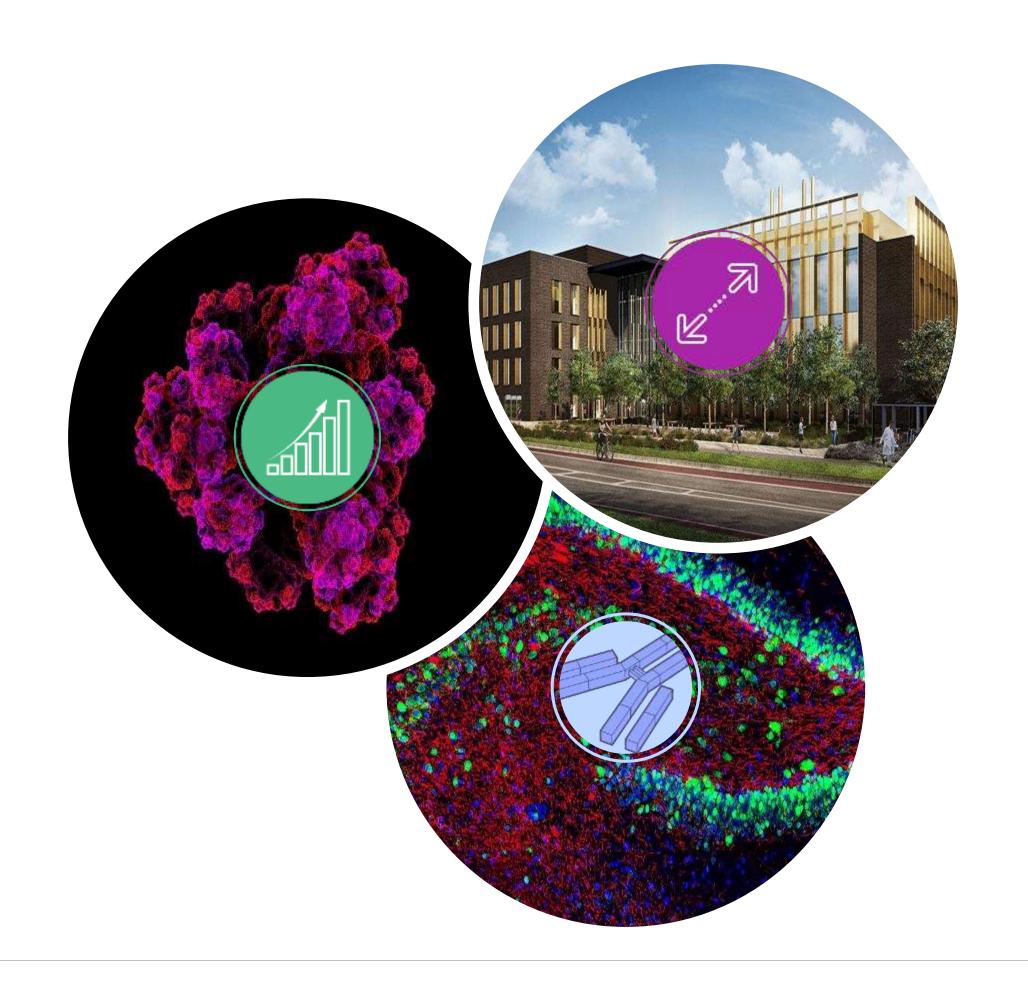




# Supplementing organic growth through selected acquisitions and partnerships

## Key takeaways:

- Selective, focused M&A strategy
- Strong track record of acquisitions and integration
- Clear criteria and robust process
- Well-financed and ready to execute on pipeline of opportunities





Wrap-up

Alan Hirzel CEO



### Wrap-up

- Talented team and strong culture
- Multiple growth opportunities within attractive markets of \$8bn+
- Solid foundations built well placed to extend our leading position in research antibodies and related markets
- Core business fundamentals remain appealing highly profitable and cash generative, providing capital to invest
- Disciplined organic investment plans developed to sustain and increase our growth potential with attractive return profile, build the enterprise and deliver shareholder-value creation



