Global Premier Biologics Platforms to Enable and Expedite Innovations

2021 Interim Results (2269.HK)

August 2021





Forward-Looking Statements



This presentation may contain certain "forward-looking statements" which are not historical facts, but instead are predictions about future events based on our beliefs as well as assumptions made by and information currently available to our management. Although we believe that our predictions are reasonable, future events are inherently uncertain and our forward-looking statements may turn out to be incorrect. Our forward-looking statements are subject to risks relating to, among other things, the ability of our service offerings to compete effectively, our ability to meet timelines for the expansion of our service offerings, and our ability to protect our clients' intellectual property. Our forward-looking statements in this presentation speak only as of the date on which they are made, and we assume no obligation to update any forward-looking statements except as required by applicable law or listing rules. Accordingly, you are strongly cautioned that reliance on any forward-looking statements involves known and unknown risks and uncertainties. All forward-looking statements contained herein are qualified by reference to the cautionary statements set forth in this section.

Use of Adjusted Financial Measures (Non-IFRS Measures)

To supplement the Group's consolidated financial statements which are presented in accordance with IFRS, the Company has provided adjusted net profit, adjusted net profit margin, adjusted net profit attributable to owners of the Company, adjusted EBITDA, adjusted EBITDA margin and adjusted basic and diluted earnings per share as additional financial measures, which are not required by, or presented in accordance with IFRS.

The Group believes that the adjusted financial measures are useful for understanding and assessing underlying business performance and operating trends, and that the Group's management and investors may benefit from referring to these adjusted financial measures in assessing the Group's financial performance by eliminating the impact of certain unusual, non-recurring, non-cash and/or non-operating items that the Group does not consider indicative of the performance of the Group's core business. These non-IFRS financial measures, as the management of the Group believes, is widely accepted and adopted in the industry in which the Group is operating in. However, the presentation of these non-IFRS financial measures is not intended to be considered in isolation or as a substitute for the financial information prepared and presented in accordance with IFRS. Shareholders of the Company and potential investors should not view the adjusted results on a stand-alone basis or as a substitute for results under IFRS. And these non-IFRS financial measures may not be comparable to the similarly-titled measures represented by other companies.

Agenda





- 2021 Interim Results
- Seven Keys for Future Success

- **3** Financial Overview
- 4 ESG

5 Summary

6 Appendix





2021 Interim Results



286 ^{42.7}% 408

Integrated Projects YOY

38^{107.9%} **79**

New Projects YOY

19 ^{68.4%} **32**

Late Phase Projects YOY

 $9.5 \stackrel{31.7\%}{\rightarrow} 12.5$

Total Backlog (US\$ Bn) YOY

430K

Capacity after 2024 (L)

7,686/2,803

Employees/Scientists



 $1.94 \xrightarrow{126.7\%} 4.41$

Revenue (RMB Bn) YOY

 $0.67 \stackrel{163.0\%}{\longrightarrow} 1.77$

Adj Net Profit Attributable to Owners of the Company (RMB Bn) YoY

40.5%→**52.1%**

Gross Profit Margin YOY

37.6%→**42.7%**

Net Profit Margin YOY

48.4%→**54.2%**

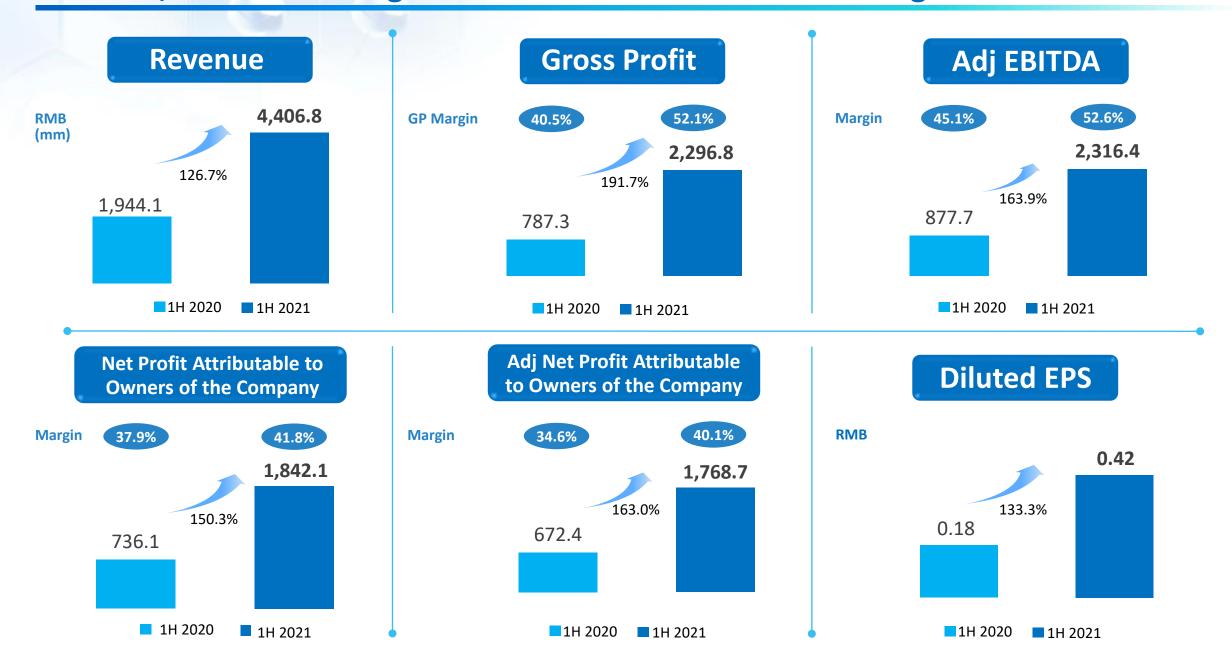
EBITDA Margin YOY

 $0.18 \xrightarrow{133.3\%} 0.42$

Diluted EPS (RMB) YoY

Revenue, Profit and Margins Continued to Achieve Record-High





Key Financials



AVAILABLE FUNDS

- Available funds approx. RMB13.9 bn as at June 30, 2021
- US\$1,692 million raised in Feb. 2021 to support DS/DP facility expansion, invest in microbial and viral platforms and technologies such as mRNA manufacturing and general corporate purpose

LOAN

- Approx. RMB3,235 million borrowings as at June 30, 2021
- Maintains bank credit facilities of around RMB2.4 bn for future cash needs
- Operating cash flow of RMB798 million, increased 85.2% YoY

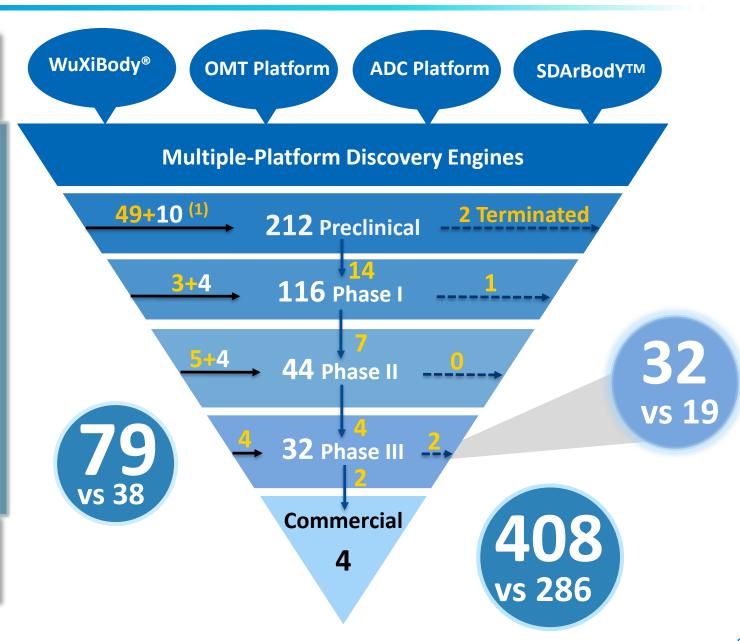
CAPEX

- CAPEX spending amounted to RMB4.1 bn in 1H 2021
- 2021 CAPEX approximately RMB8 bn, mainly for capacity expansion

Business Momentum Continues to Accelerate in 1H 2021



- 79 new integrated projects added in 1H, including 18 projects acquired from CMAB. Continues to gain more market share
- 32 Phase III projects: drives near-term growth
- "Win-the-Molecule" Strategy continued:
 12 external projects transferred into the pipeline in 1H 2021
- Total 1,107 projects including 699 nonintegrated CDO projects and 408 integrated projects
- Added 2 more commercial projects in 1H 2021
- Milestone revenue: US\$24 mm in 1H
 2021, uncertainty and timing choppy due to links to clinical milestones



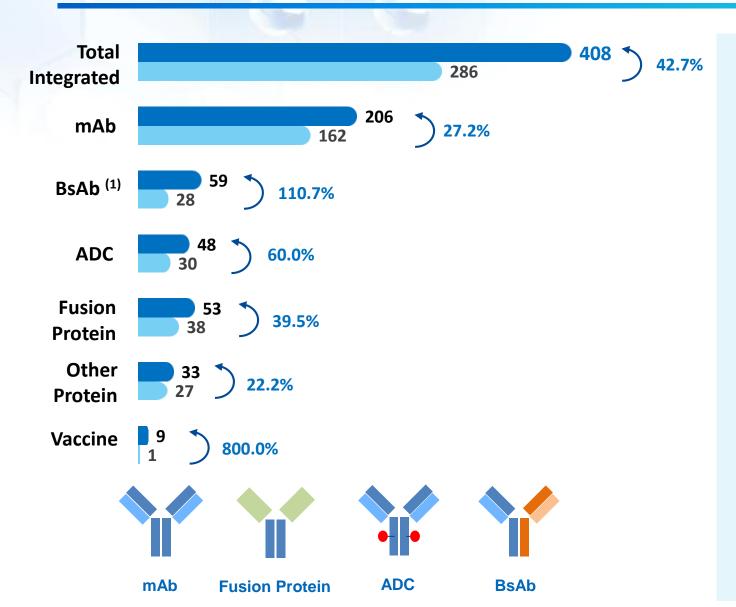
Notes:

^{1.} As of June 30, 2021

^{2. 10} Preclinical, 4 Phase I and 4 Phase II programs were from CMAB (total 18)

Rich Pipeline across All Biologics Modalities







152 First-in-class programs



Increase to 9 vaccine projects, including 6 non-COVID vaccines



5 CNS (Central Nervous System) programs from three global companies with exciting potential



Expanding global leading technology platforms providing mRNA-based vaccine full CDMO services (DS+DP)



One of the largest portfolios of complex biologics, consisting of mAbs, bispecifics, multispecifics, ADCs, fusion proteins and vaccines etc.

Notes:

^{1.} As of June 30, 2021, compared with projects number as of June 30, 2020

^{2.} Bispecific Antibody (BsAb) Included both WuXiBody® projects and non-WuXiBody® projects

"Win-the-Molecule" Strategy: New Driver to Expand Pipeline and Drive Additional Near-term Growth



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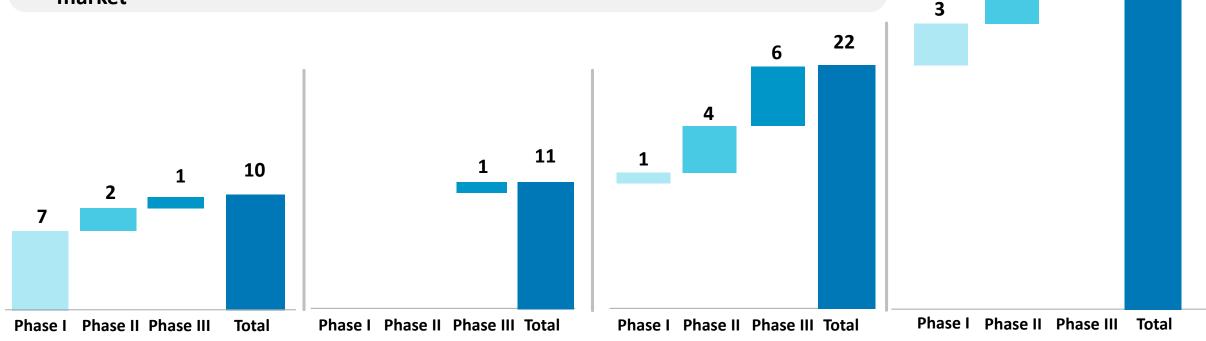
2018

2019

2020

2021.06.30

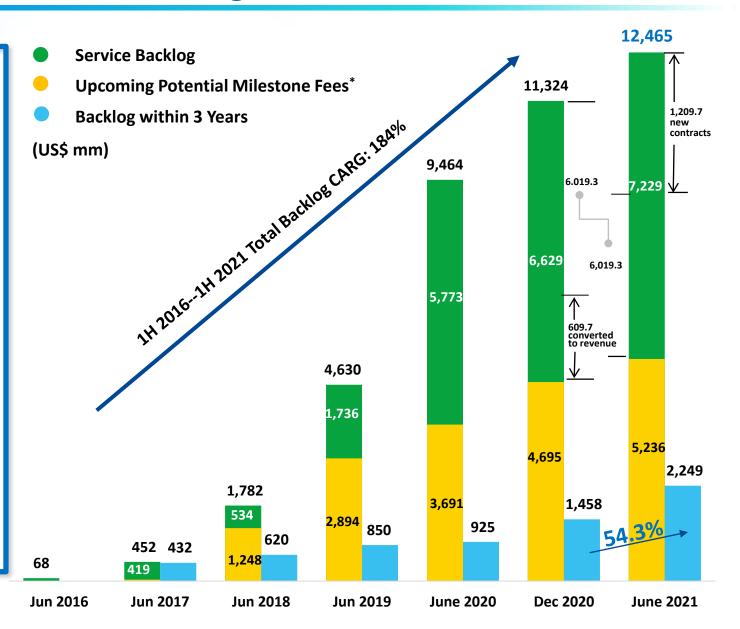
- Total 34 external projects at different R&D Stages (Phase I, II and III) have transferred to WuXi Bio since 2018
- Leading technology, best timeline and excellent execution underpin WuXi Bio "Win-the-Molecule" strategy
- Global leading enabling platforms continue to win customers from existing market



Strong Backlog Growth Underpins Sustainable High Growth



- As of June 2021, total backlog grew to US\$12.5 bn, strong momentum maintained despite COVID-19 impact
- Service backlog reached US\$7.2 bn, mainly attributed to long-term vaccine CMO contract, growing COVID projects and more market share from non-COVID business
- Upcoming potential milestone fees (1)
 up to US\$5.2 bn, will be the key to
 improve margin profile
- As of June 2021, backlog within 3 years increased 54.3% compared with the end of 2020, short-term high growth is secured



Disclaime

Updates on COVID-19 Programs: 2 Approvals and 3 Phase III



Contribution to Fight against COVID-19

- 8 additional COVID-19 mAb programs initiated in 2021
- Enabled 15+ COVID-19 neutralizing mAbs with 25 IND globally and winning 80%+ global IND development projects for COVID-19 mAbs
- Timeline shortened to 3-5 months. IND enabling services: 100% success rate with world-class quality and high productivity of 4-8g/L
- GSK/Vir's antibody FDA EUA approval

COVID Contracts and Backlog

- Total COVID-19 related contracts around US\$1.3 bn for mAbs, vaccines and proteins with ~US\$700 mm backlog
- 800kg+ neutralizing mAbs delivered (1~2 million patients)
- Expect to supply total ~1,500kg mAbs

COVID Vaccines

- Supplying hundreds of million doses of COVID-19 vaccine DS and DP to a global TOP 10 Pharma
- Signed another 2 COVID-19 vaccines and initiated technology transfer, total COVID-19 vaccine contracts reached 3
- Negotiating significant mRNA vaccine contracts
- Total vaccine contracts of ~US\$300 mm

Revenue Impact

- Take-or-pay commitments minimize revenue uncertainty: still get paid for the slots if program fails.
- COVID-19 neutralizing mAbs and vaccines are expected to continue to contribute meaningful revenue in 2022
- If the program succeeds, potentially more revenue in 2022 and beyond

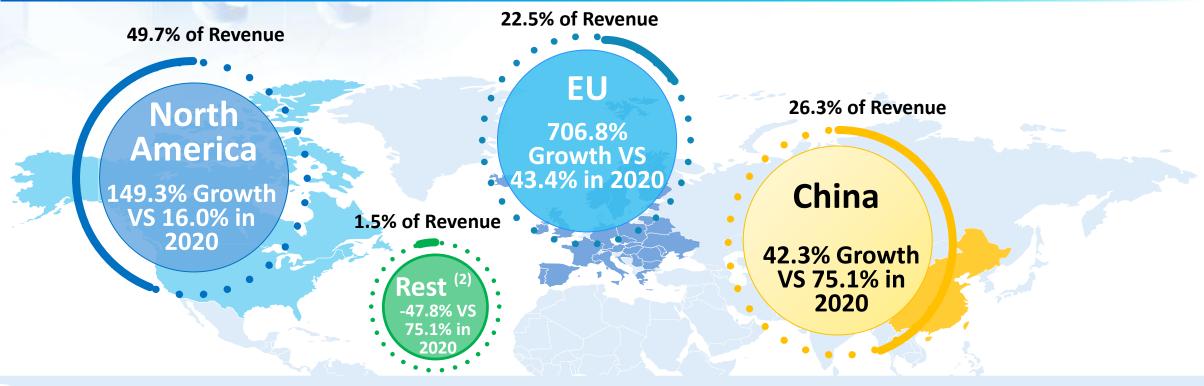
WuXi Bio's Global Network to Enable Partners





Four Engines to Drive Sustainable High Growth







North America: the largest market, with good performance in 1H 2021 mainly due to COVID recovery and strong innovation trend in the region, as well as the growth in commercial and late phase COVID and non-COVID projects.



EU: 706.8% YoY growth attributable to commercial COVID projects and more market share



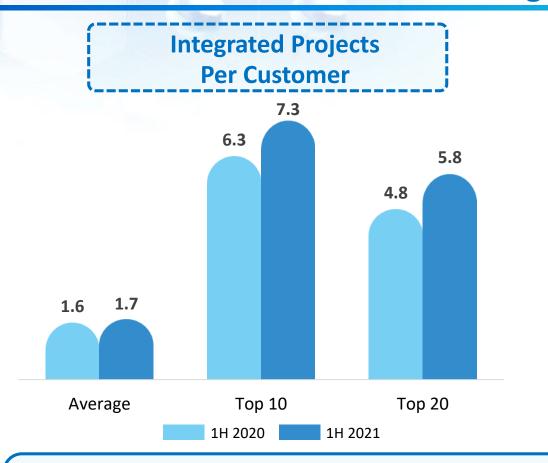
China: sustainable 42.3% YoY growth benefiting from favorable macro-environment with surging R&D investments, expect continuous growth due to fast progress of late phase projects

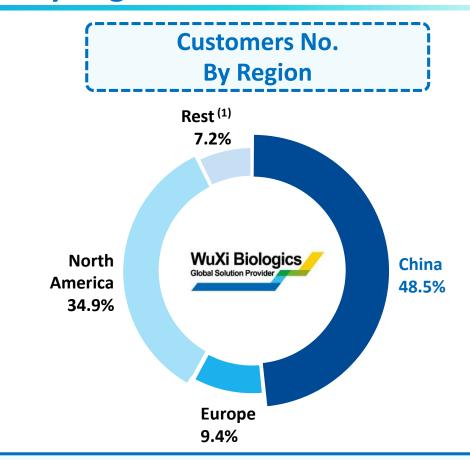


Rest of the world: decreased in 1H 2021 due to higher base in 1H 2020 from COVID projects which have not progressed, in discussions with significant number of projects include commercial manufacturing

Balanced Customer Distribution Among Four Key Regions



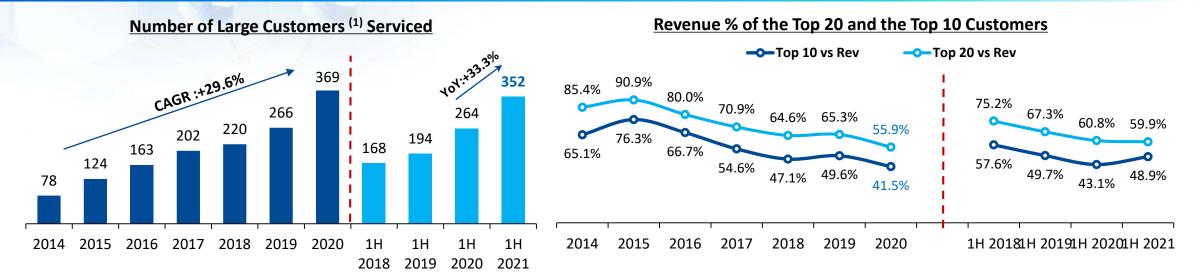


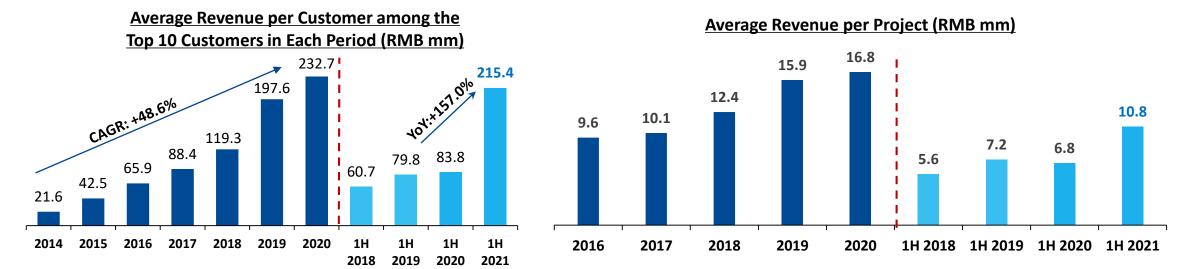


- North America: resilient growth despite COVID impacts; China: became the biggest customer base since 2020
- Taking market share rapidly in EU despite strong presence of global players, especially seized more opportunities from COVID
- Trust from clients: 80% existing clients will choose WuXi Bio again when they need CDMO
- Leading platforms, best execution, track record and dedication to COVID-19 projects continue to enhance bonding with customers

"Follow & Win the Molecule" Strategy Drives Customer Growth and Revenue Diversification



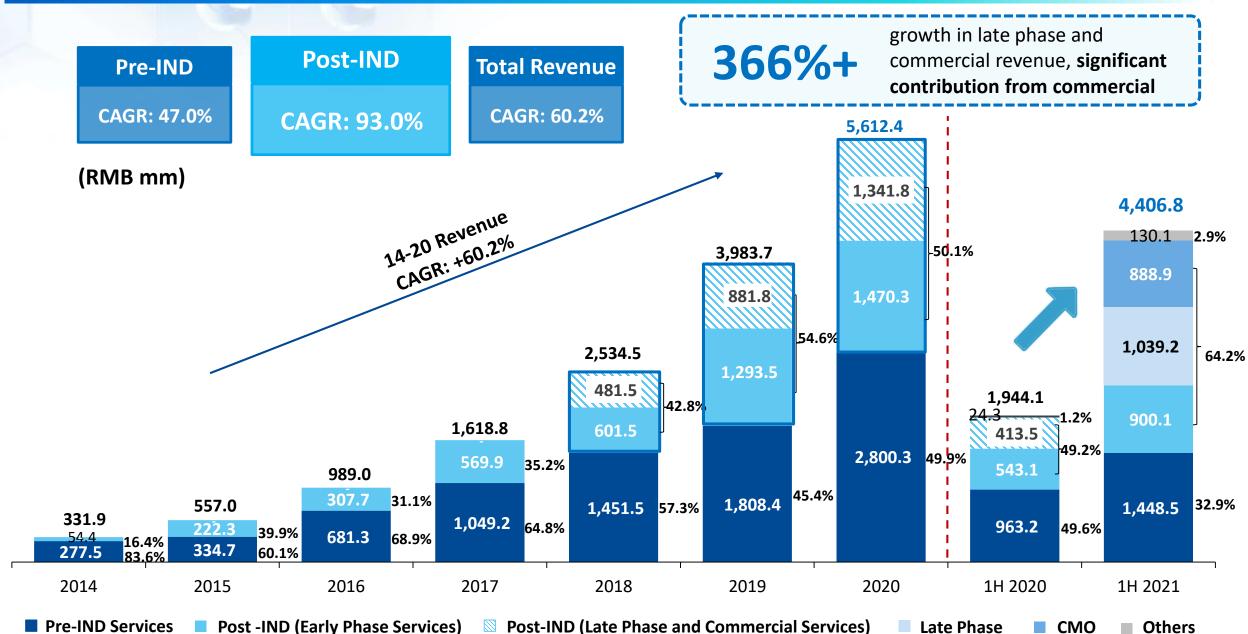




The increase of Average Revenue per Customer (Top 10) & Average Revenue per Project showcases our pipeline is promptly progressing to late stage and more milestone payment received

CDMO Model Validated as Post-IND Rev. Growing "Follow & Win the Molecule" in Full Play





EXECUTION: Excellent Operational Metrics



Track Record

- 215 INDs, 7 BLA/MAAs approved, 1 US EUA approved, 6 BLAs/MAAs/NDAs filed (1)
- 408 integrated biologics in development including 59 bispecific and 48 ADCs
- 31 on-going WuXiBody® bispecific antibody projects
- Total 15+ COVID-19 programs in progress and 25 INDs approved
- Capacity of 120 INDs and 7 BLA/MAAs enabled per year
- 1,107 projects including 408 integrated and other non-integrated CDO projects

Operational Excellence

- 11 facilities with 150,000L DS capacity in 2021 expanding to ~430,000L after 2024
- 9 facilities for drug product filling, including 1 dedicated to bioconjugates in 2021
- 13 facilities will be online in 2021 including 6 from internal and 7 from M&A
- **Building 13 facilities globally**
- 1,100+ DS batches completed with 98% success rate
- 790+ DP batches completed with 99%+ success rate, 50+ media fills with 100% success rate
- 183 DS batches completed in MFG3 with 100% success since Apr. 2018
- ROI for MFG1 and MFG3 exceed 50%

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Seven Keys for Future Success

SEVEN Keys for Future Success: Sustainable High Growth





STRATEGY: Success of "Follow & Win the Molecule" Demonstrated



9 22 April 2021

FDA grants accelerated approval for GSK's JEMPERLI (dostarlimab-gxly) for women with recurrent or advanced dMMR endometrial cancer

For media and investors only

Issued: London UK

- GARNET study represents the largest dataset of anti-PD-1 monotherapy treatment of women with endometrial cancer
- Study results showed an overall response rate of 42%
- 93% of responders had a duration of response of ≥6 months

GlaxoSmithKline plc today announced that the US Food and Drug Administration (FDA) has approved JEMPERLI (dostarlimab-gxly), a programmed death receptor-1 (PD-1) blocking antibody, based on the company's Biologics License Application. Dostarlimab is indicated for the treatment of adult patients with mismatch repair-deficient (dMMR) recurrent or advanced endometrial cancer, as determined by an FDA-approved test, that have progressed on or following prior treatment with a platinum-containing regimen. This indication is approved under accelerated approval based on tumour response rate and durability of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

O 23 April 2021

European Commission approves GSK's JEMPERLI (dostarlimab), the first anti-PD-1 therapy approved for recurrent or advanced endometrial cancer

For media and investors only

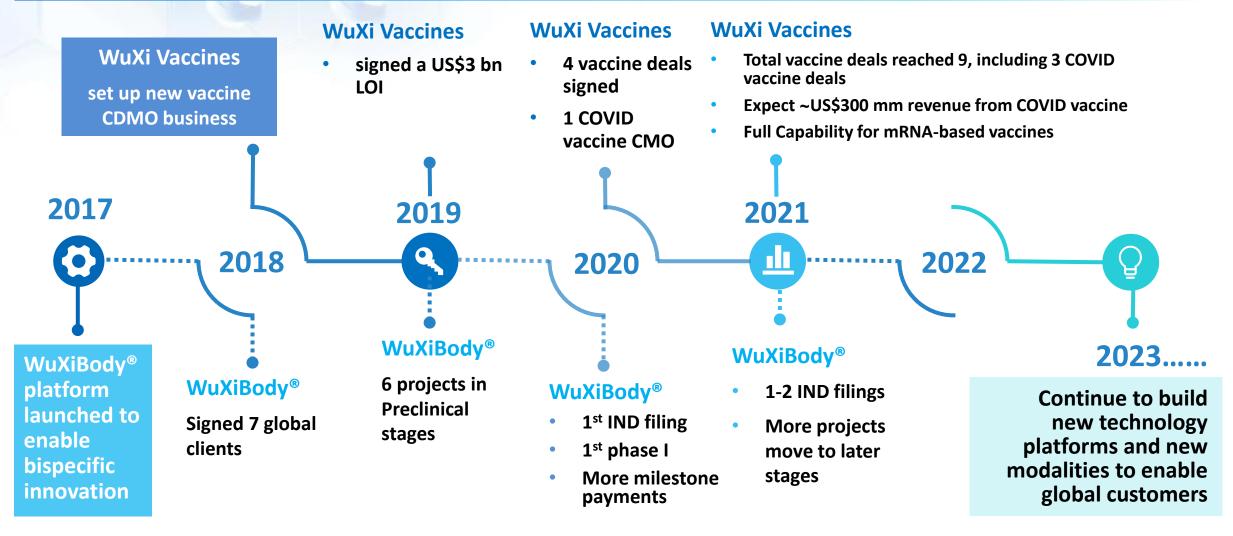
Issued: London UK

 European Commission approves GSK's JEMPERLI (dostarlimab), the first anti-PD-1 therapy approved for recurrent or advanced endometrial cancer

GlaxoSmithKline (LSE/NYSE: GSK) plc today announced the European Commission has granted conditional marketing authorisation for JEMPERLI (dostarlimab), a programmed death receptor-1 (PD-1)-blocking antibody, for use in women with mismatch repair-deficient (dMMR)/microsatellite instability-high (MSI-H) recurrent or advanced endometrial cancer who have progressed on or following prior treatment with a platinum containing regimen. The approval makes dostarlimab the first anti-PD-1 therapy available for endometrial cancer in Europe.

STRATEGY: Proactive Investments In New Platforms Proven Successful





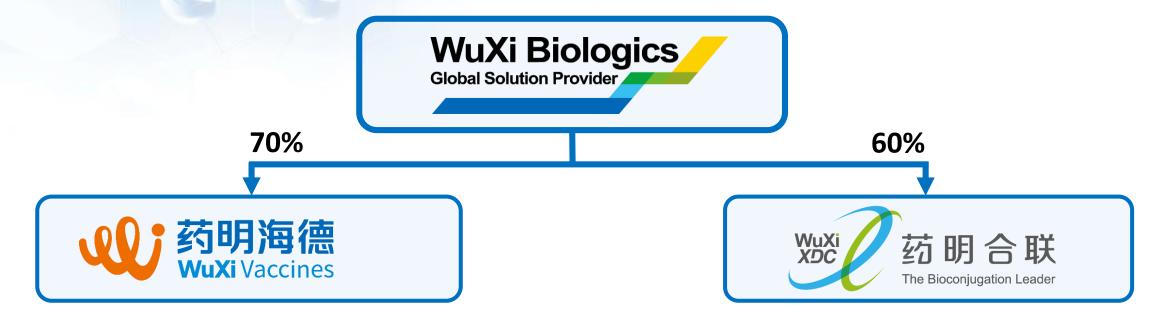


With innovative technology platforms established ahead of the curve, WuXi Biologics continues to seize opportunities to enable global partners



STRATEGY: Expanding Capacities and Capabilities to Enhance Vaccine and Bioconjugate CDMO Services





- WuXi Vaccines: the first and only global CDMO dedicated to vaccines. First CMO contract of US\$3 bn for 20 years. 9 vaccine contracts have been signed and COVID vaccines contract reached ~US\$300 mm
- WuXi XDC: first and only global leading one-stop CDMO dedicated to bioconjugates. 48 global projects with nearly 20% market share
- WuXi Vaccines and WuXi XDC are among global Top 20 CDMOs and Top 5 CDMOs in China by
 2021 revenue ranking

PEOPLE: Talents Form the Prerequisite for Business Success





Employees as of June 2021. Expected to reach 9,600 by the end of 2021



Employees work in US and EU

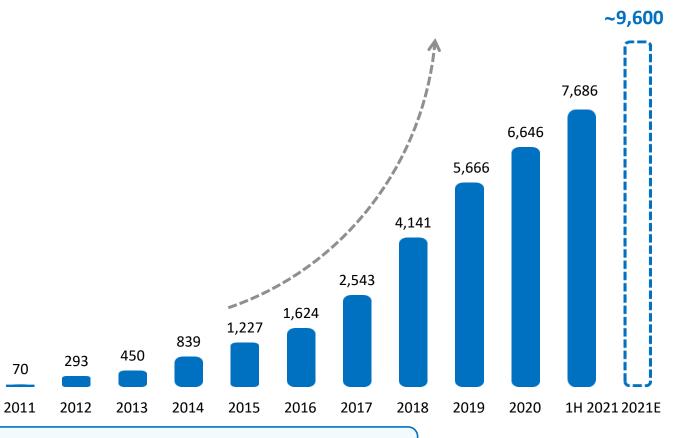


Employees holding Ph.D. or equivalent



One of the largest biologics development teams

Rapid Expansion of Talent Pool



1H 2021 Talent retention rate⁽¹⁾ >95%, Key talent >96%

TECHNOLOGY: Globally Recognized Technology with 59 IP Applications





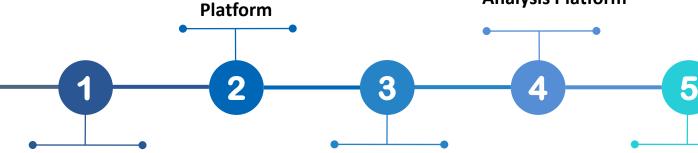
Proprietary High Titer Production CHO K1 Cell Line Development

Antibody Drug Physic-chemical
Structure and Biological Activity
Analysis Platform

WuXiDAR⁴
7 patent applications

Comprehensive ADCs

Development Platform



Proprietary Universal Bispecific

Antibody Platform

WuxiBody Bispecific
Antibody Technology Platform

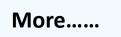
25 patent applications

Proprietary Ultra-high Productivity
Continuous Perfusion Cell Culture
Platform



Antibody Drug Purification and Formulation Development

Platform



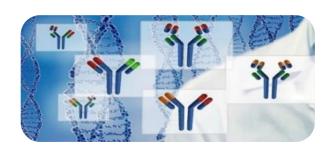


TECHNOLOGY: Bispecifics Will Be Key Next Wave - WuXiBody®



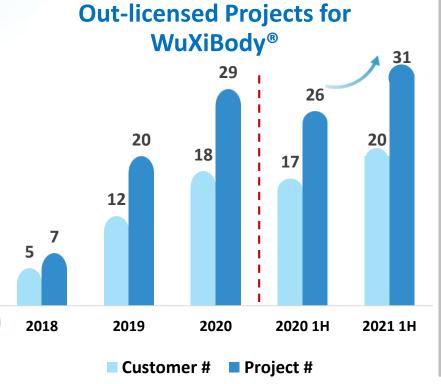


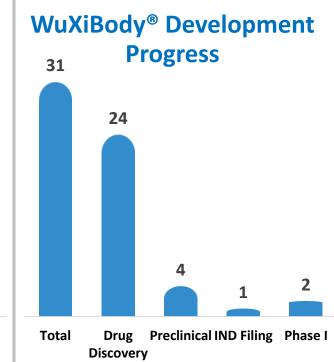
Empower to discover best or first-in-class molecules









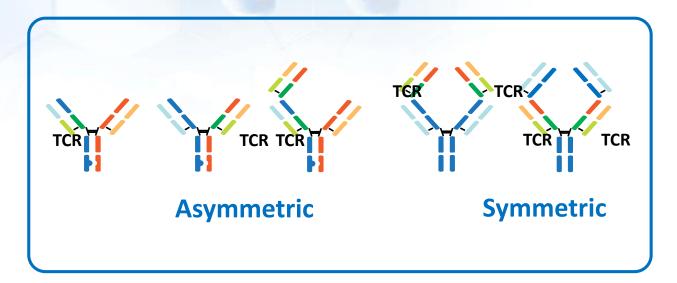


- WuXiBody® continues to gain worldwide recognition, 104% CAGR of out-licensed projects growth during 2018-2020
- 4 projects at preclinical, 2 project at Phase I, demonstrating state-ofthe-art technology of WuXiBody®
 - 1-2 WuXiBody® projects are expected to get IND approval in 2021

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TECHNOLOGY: Global Leader in Developing Bispecifics 11 Different Formats and 34 Papers Published



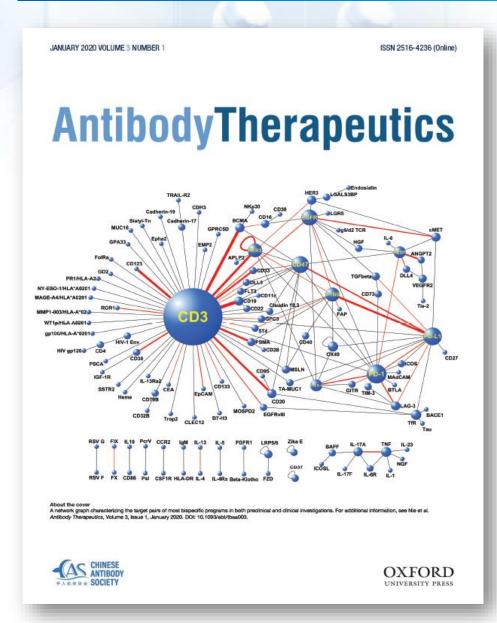


- 6 WuXiBody® projects in total, which adopt 5 different formats as shown above
- Titer: 3.0-4.9 g/L
- Overall yield: 42-55%

- 1.Wan Y, Wang Y, Zhang T, Zhang S, Wang Y, Li Y. Application of pH-salt dual gradient elution in purifying a WuXiBody-based bispecific antibody by MMC ImpRes mixed-mode chromatography. Protein Expr. Purif. 2021, 181: 105822.
- 2.Wan Y, Zhang T, Wang Y, Wang Y, Li Y. Removing light chain-missing byproducts and aggregates by Capto MMC ImpRes mixed-mode chromatography during the purification of two WuXiBody-based bispecific antibodies. Protein Expr. Purif. 2020, 175: 105712.
- 3. Wang Y, Chen X, Wang Y, Li Y. Removing a difficult-to-separate byproduct by Capto L affinity chromatography during the purification of a WuXiBody-based bispecific antibody. Protein Expr. Purif. 2020, 175: 105713.
- 4.Guo G, Han J, Wang Y, Li Y. A potential downstream platform approach for WuXiBody-based IgG-like bispecific antibodies. Protein Expr. Purif. 2020, 173: 105647.

TECHNOLOGY: Well-recognized Peer-reviewed Paper Published





Antibody Therapeutics, 2020, Vol. 3, No. 1 18–62 doi:10.1093/abt/tbaa003 Advance Access Publication on 17 February 2020

Review Article

Biology drives the discovery of bispecific antibodies as innovative therapeutics

Siwei Nie^{1,*}, Zhuozhi Wang¹, Maria Moscoso-Castro², Paul D'Souza², Can Lei², Jianging Xu¹ and Jijie Gu^{1,*}

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Received: December 10, 2019; Revised: February 7, 2020; Accepted: Month 0, 2000

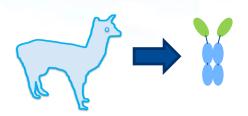
- We proposed 3 principles and 6 criteria for discovery and development of biologic drugs
- We reviewed current bsAb formats and the bsAb drugs in clinical and preclinical development
- We also projected that "...NEXT DECADE will witness clinical success of bsAbs or multispecific antibodies employing some novel mechanisms of action..."

14,000+ reads and 6,700+ download

TECHNOLOGY: Multispecific/Multifunctional Proteins Enabled via SDArBodYTM







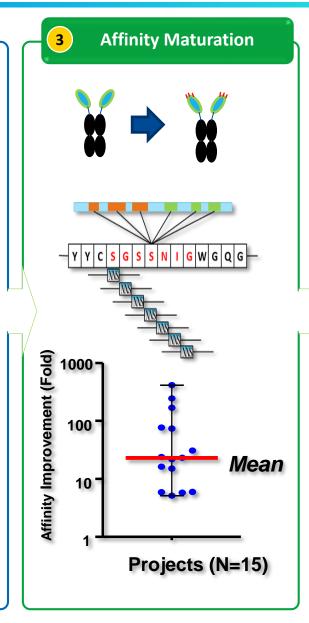
- Naïve library constructed in house from 50+ alpaca donors. The library size is >10¹¹ transformants
- Immune library based on proprietary immunization protocol to achieve desired immune responses.
- Proprietary primer sets to achieve increased coverage of alpaca/llama VHH gene repertoire
- Delivered promising leads for more than 30+ targets with differentiation/superiority

2 Humanization and PTM removal



Proprietary VHH Humanization Method

- Exhaustively humanized sequences
- PTM removed
- No affinity/function loss
- No developability compromise



Features of Building Blocks

SD@rBod\"

- High affinities
 - Nano- to picomolar
- Delicate molecular size
 - Target difficult epitopes
 - Deep tissue penetration
- Excellent developability
 - Reduce production costs
 - Alternative routes of administration
- Low immunogenicity risk
- Great flexibility
 - Multivalency engineering
 - Enable multi-specific or functional molecules to meet various biology need

TECHNOLOGY: Technologies and Approaches that Enabled COVID-19 mAb Speed Shared with Global Community



- WuXi Codon
 - Average titer: 5.9g/L for mAbs
 - 80% projects >5g/L
- HT NGS of plasmids and clones
 - No sequence variants
 - Accelerated biosafety testing
- WuXian Express pool and clone selection
 - Pool: ~3 month Gen1 IND
 - Clone: 6 month Gen2 IND
- 8 mAbs and 1 vaccine for COVID-19 in CMC development in 2021

Received: 24 March 2021 Revised: 12 June 2021 Accepted: 17 June 2021

DOI: 10.1002/btpr.3186

RESEARCH ARTICLE



Reshaping cell line development and CMC strategy for fast responses to pandemic outbreak

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Abstract

The global pandemic outbreak COVID-19 (SARS-COV-2), has prompted many pharmaceutical companies to develop vaccines and therapeutic biologics for its prevention and treatment. Most of the therapeutic biologics are common human IgG antibodies, which were identified by next-generation sequencing (NGS) with the B cells from the convalescent patients. To fight against pandemic outbreaks like COVID-19, biologics development strategies need to be optimized to speed up the timeline. Since the advent of therapeutic biologics, strategies of transfection and cell line selection have been continuously improved for greater productivity and efficiency. NGS has also been implemented for accelerated cell bank testing. These recent advances enable us to rethink and reshape the chemistry, manufacturing, and controls (CMC) strategy in order to start supplying Good Manufacturing Practices (GMP) materials for clinical trials as soon as possible. We elucidated an accelerated CMC workflow for biologics, including using GMP-compliant pool materials for phase I clinical trials, selecting the final clone with product quality similar to that of phase I materials for late-stage development and commercial production.

KEYWORDS

CMC for biologics, COVID-19, mammalian cell line development, next-generation sequencing

TECHNOLOGY: WuXiUP™ to Dramatically Enhance Productivity and Reduce Cost of Goods – Universal Platform



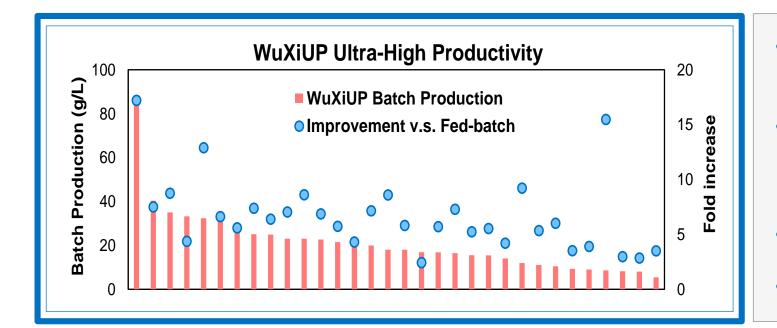
WuXia™ Cell Line

- Robust cell line with proven track record
- Enabling 120 Integrated Projects Per Year



WuXiUP™ Continuous Manufacturing Platform

- 20-85g/L for mAbs and BsAbs
- 2,000L disposable bioreactors to achieve comparable productivity as traditional 20,000L SS tanks



- 40+ WuXiUP™ projects: mAb, BsAb, Fusion Protein and enzyme
- Avg titer improvement: 6.6 folds; Avg daily productivity improvement: 4.2 folds
- 13 IND projects
- 5 BLAs targeted, 2 BLA approval in 2021

TECHNOLOGY: WuXiUP™ Published in Premier Journals BIOTECHNOLOGY BIOENGINEERING





Continuous Biomanufacturing Implementation

Using an Intensified and Integrated Bioprocess Platform

ecent world events have demonstrated now more than ever the growing demand for pharmaceutical biologics that can be made rapidly and in high volumes yet somehow remain affordable. Hence, there is an urgent need to develop a next generation biologics manufacturing solution that provides high-yield, high-quality, is highly flexible and can be done costeffectively. In this article we describe an intensified perfusion culture process, (the WuXi Biologics Ultra-High Productivity Platform or WuXiUP) that was developed to meet the aforementioned need. WuXIUP adopts process intensification strategies on to the traditional perfusion culture process, to boost the cell density and cell specific productivity. Additionally, the continuous harvest greatly reduces the residence time for the product within the bioreactor, leading to more desirable product quality, and facilitates integrated continuous bioprocessing.



Table 1: CAPTION			
Process	Culture Duration (Days)	Accumulated Harvest Pv (g/L)	Daily Productivity (g/L per day)
TFB	14	2.82	0.20
Perfusion	40	31.63	0.79
WuX/UP-1	21	52.94	2.48
WuX/UP-2	27	85.86	3.18

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COMMUNICATION TO THE EDITOR



Improving an intensified and integrated continuous bioprocess platform for biologics manufacturing

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Abstract

The WuXi Biologics' Ultra-high Productivity platform (WuXiUP) technology is an innovative and integrated platform of continuous blomanufacturing. Through process intensification, the platform enables continuous manufacturing of almost any type of biologics and delivers processes with ultra-high productivity. In this paper, a new case study producing a monoclonal antibody (mAb) via the WuXIUP process was further optimized. Key process parameters like culture temperature, basal media, and perfusion rate were evaluated to ensure an enhanced and robust process. To improve process efficiency for downstream processing, a continuous dualpore size hollow fiber cell separation and product harvest system were also designed to complement the increased harvest volume from upstream production. In

How to cite this article: Zhou, H., Fang, M., Zheng, X., & Zhou, W. (2021). Improving an intensified and integrated continuous bioprocess platform for biologics manufacturing. Biotechnology and Bioengineering, 1-6.

https://doi.org/10.1002/bit.27768

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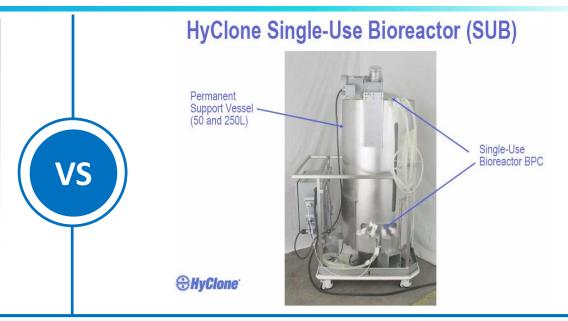
TECHNOLOGY: Disposable Manufacturing Technology Proven Effective in Commercial Manufacturing





Single-Use Bioreactors

- ☑ No cleaning and sterilization
- ☑ Simple design & operation
- ☑ Saves time and resources
- ☑ Minimal utilities
- ☑ Less maintenance and repair
- ☑ Simple qualification & validation
- ☑ Low contamination risk
- ☑ Less capital investment



- Global leader and pioneer of using disposable manufacturing technology
- 800kg+ neutralizing mAbs delivered in 6 months at 2,000-12,000L scale
- COGS reduced to <US\$80/g at 12,000L scale, comparable COGS with similar stainless steel
- CMO projects reached 4 in 1H 2021
- 1,100+ batches manufactured at around 98% success rate
- Less CAPEX, faster in building facilities and comparable COGS resulting in higher ROI (MFG1 10-year ROI 51% realized, MFG2 35%, MFG3 50% expected)

TECHNOLOGY: Disruptive Single-Use Technology Pioneered by WuXi Biologics - 44% Market Share in New Capacity, 65-70% in R&D







Less water resource consumed



No detergent, more environmentalfriendly



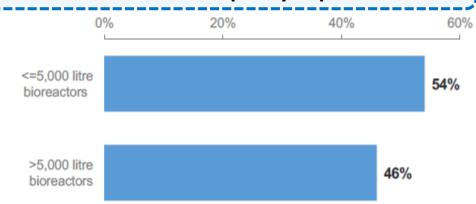
New

CMO

Save projects switching time, more flexible







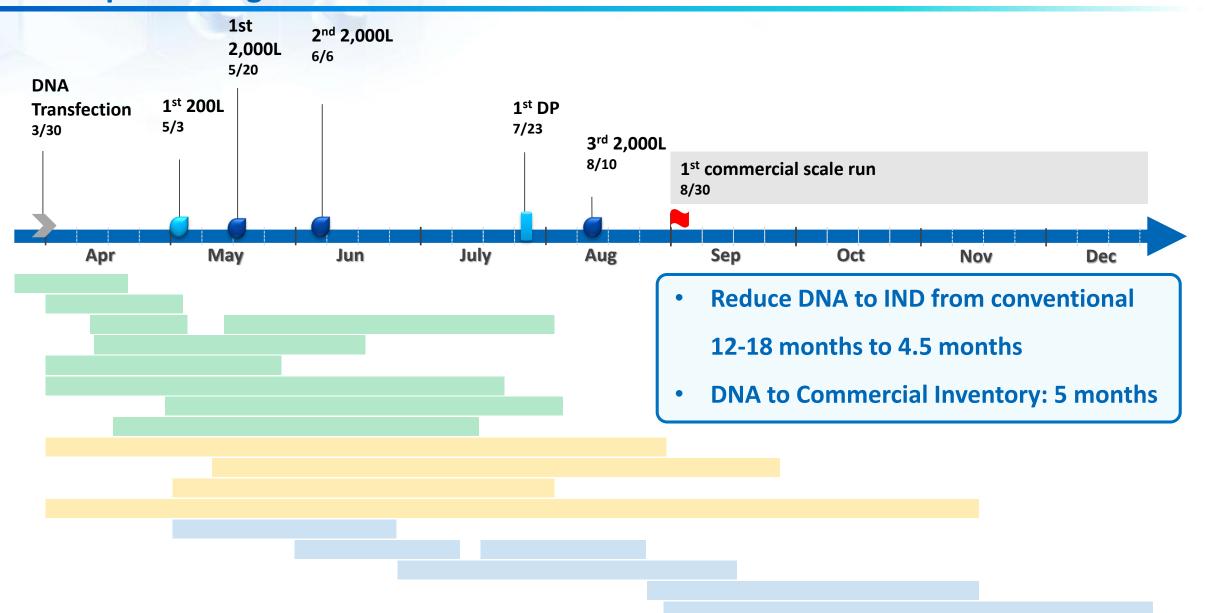
The Application Rate of Single-Use Bioreactors in R&D and CMO Stage



Source: Morgan Stanley report

EXECUTION: COVID-19 Neutralization Mab Development at the Speed of Light – 14 months from DNA to EUA





EXECUTION: DP7 – 12 Months from 1st Employee to Licensure WuXi Bio Speed and Quality first Demonstrated Globally





Completion of media fill in campaign mode for 4 days filling time!

May 2021





Take off! Site head arrived in Germany and local team started with 3 employees Jun 2020

Mar 2021 Completion of 10Q and PQ of _{Facilities}, Utilities and Equipment



Jun 2021

Jul 2021 Completion of local authorities' **GMP** o_{verseas} inspection

Obtained GMP licensing and started the first commercial m_{anufacturing}

Acquisition contract signed





EXECUTION: Completed 98% of Ireland Sites Construction in <2 Years Demonstrating WuXi Bio Speed and Quality in Ireland

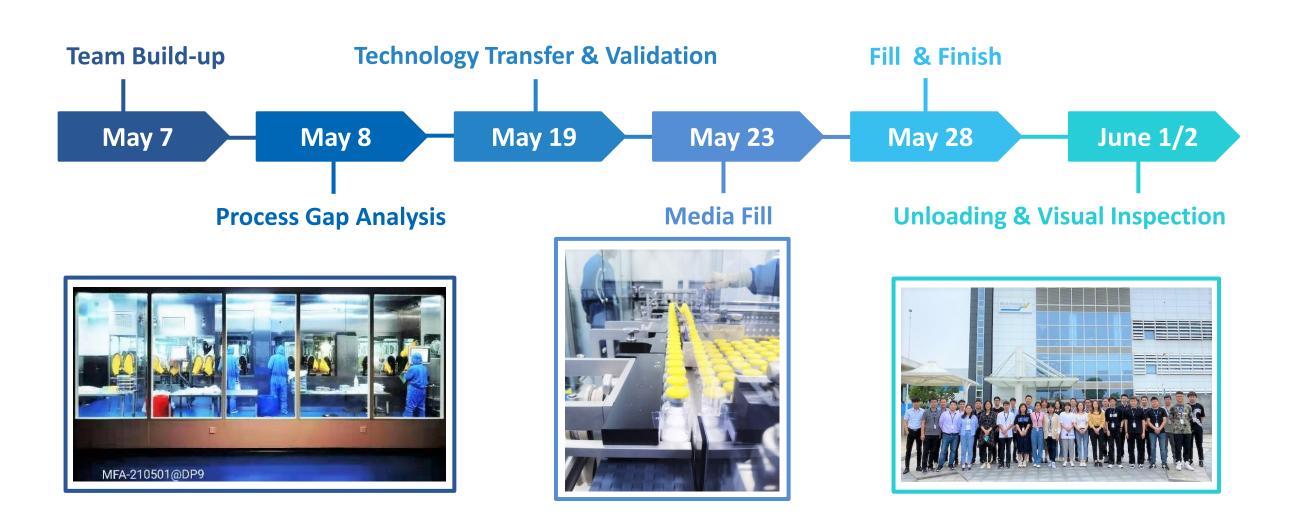




EXECUTION: WuXi Bio Speed – Only 33 Days! Completed the First Batch of DP Manufacturing in former Pfizer DP Facility



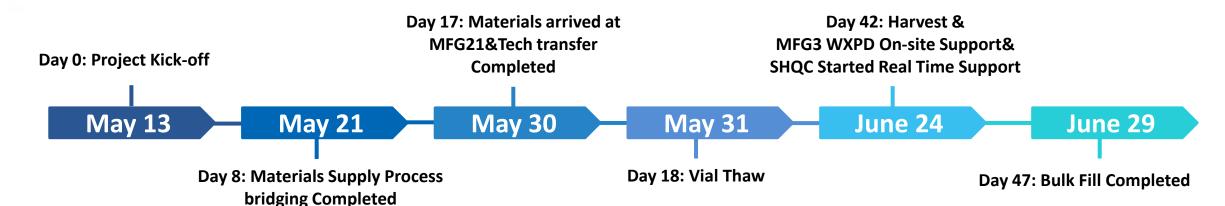
WuXi Bio Speed with more flexibility and consistent quality standard bridge the process gap from single-project manufacturing to multiple-project manufacturing



EXECUTION: WuXi Bio Speed – Only 47 Days! Completed the Manufacturing for First WuXi Bio's Project in Former CMAB DS Facility



MFG21 collaborated with multi functions (MFG3, WXPD, SHQC, WXQC, SCM, QA, RA, CB etc.) to successfully complete first tech-transfer of DS Manufacturing with 0 deviation in 47 days.







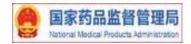




QUALITY: Tried-and-True Quality Systems













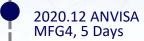




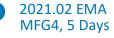














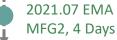






2021.04 EMA Bio-Safety, 5 Days

2021.06 HA cGMP Inspection DP7, 6 Days





15 Regulatory Inspections(9 regulatory GMP inspections in first 7 months of 2021)



8 Approvals for 4 Commercial Products from US/EU/Brazil/WHO



7 Facilities Certified (MFG1/2/3/4, DP1/4/7)(5 GMP certificates from the EMA)



6 Different Regulatory Agencies



Major observations in EMA PAI

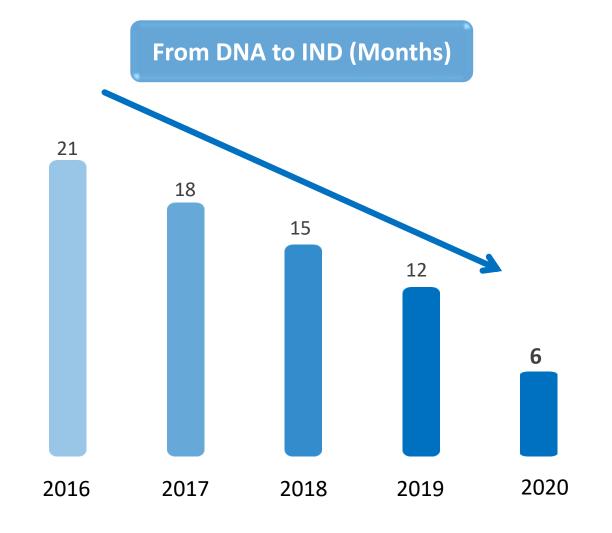
SPEED: WuXi Bio's Record Speed for IND – 6 Months!



Rewriting the shortest timeline for all IND-enabling CMC activities by implementing more advanced technology platforms



- For public health emergencies:
 - D-to-D (DNA to IND)
 Recorded 2.5 months
 - A-to-A (DNA to EUA)
 targeting 15 months



FLEXIBILITY: Industry Awards & Recognition from Global Clients





"The best team I ever worked with in my 40 years of development. I know with so many programs ongoing. It is exceptional and rare."

----Customer A



"The WuXi Bio team has been tremendous in their diligence, thoughtfulness, organization, preparation, and follow-through."

----Customer B



"Other industrial friends asked me how is WuXi Biologics. I said that it is very hard to compete with a company that always says YES."

----Customer C



"Far exceeded our expectation. Money pays for services but can't buy commitment and collaboration from an excellent team who made this happen in a difficult year like 2020."

----Customer D



"Having worked with a dozen CMOs in the past five years, your quality and adherence to the agreed timeline really stand out. Your team was flexible and made extra effort to meet the timeline demand."

----Customer E

Winner in all 6 Life Science Leader CMO awards categories each year since 2019

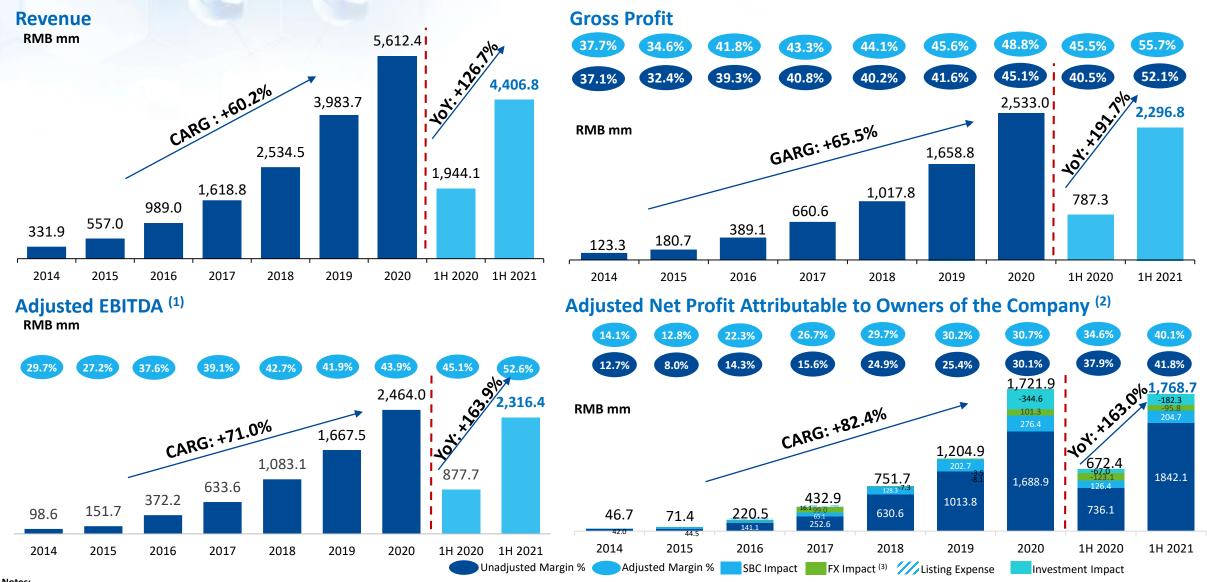




Financial Overview

Profitability Hit Another High



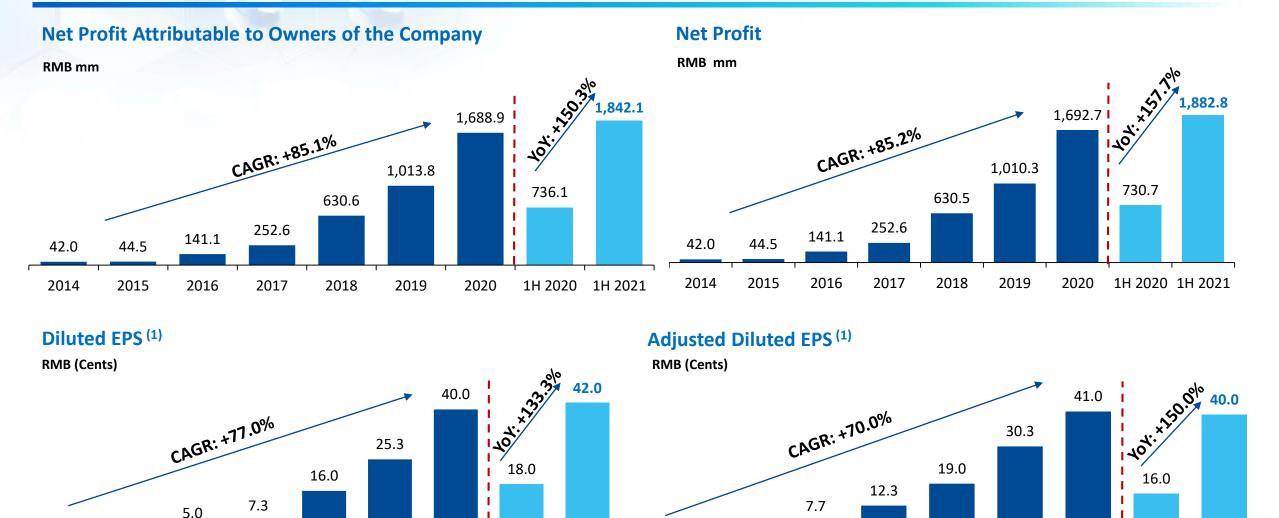


Notes:

- 1. Adjusted EBITDA represents net profit before (i) interest expenses, income tax expenses, listing expenses (ii) certain non-cash expenses, consisting of share-based compensation, amortization and depreciation and (iii) foreign exchange (gains)/losses and (iv) fair value gains on investment portfolios
- 2. Adjusted net profit excludes the share-based compensation expenses, investment (gains), foreign exchange (gains)/losses and listing expenses
- 3. Refers to foreign exchange (gains)/losses
- 4. Adjusted EBITDA and adjusted net profit of 2019 have been restated to further exclude the fair value gains on the Group's investment portfolios







2.3

1.7

Note:

1.3

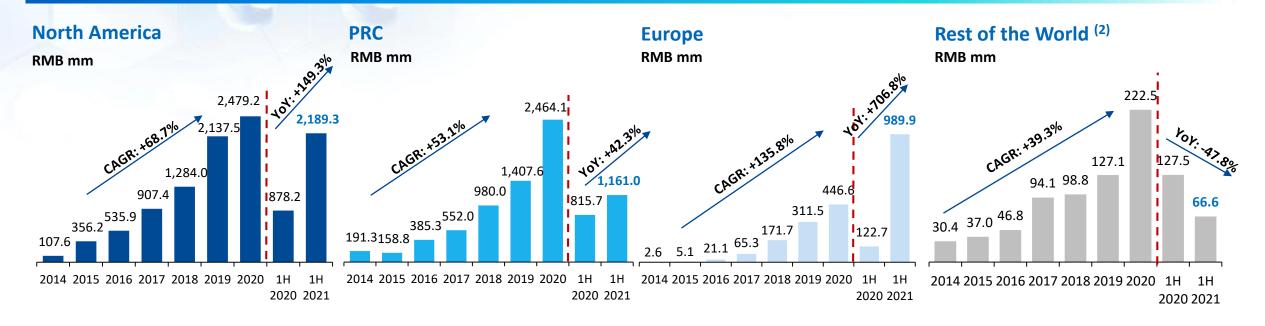
1H 2020 1H 2021

1H 2020 1H 2021

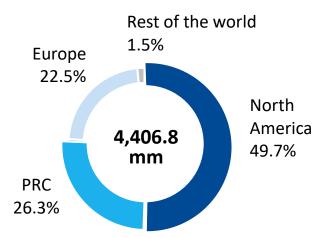
^{1.} The authorized and issued shares of the Company were subdivided on the basis that every one (1) issued share is subdivided into three (3) subdivided shares (the "Share Subdivision"), which became effective on November 16, 2020. Basic and diluted earnings per share were stated after taking into account the effect of the Share Subdivision. Comparative figures have also been restated on the assumption that the Share Subdivision had been effective in the prior year

Overview on Geographic Markets (1)

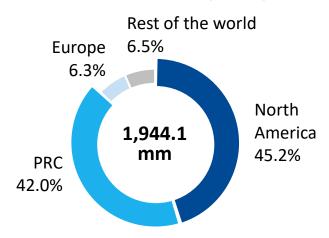




1H 2021 Revenue (RMB)



1H 2020 Revenue (RMB)



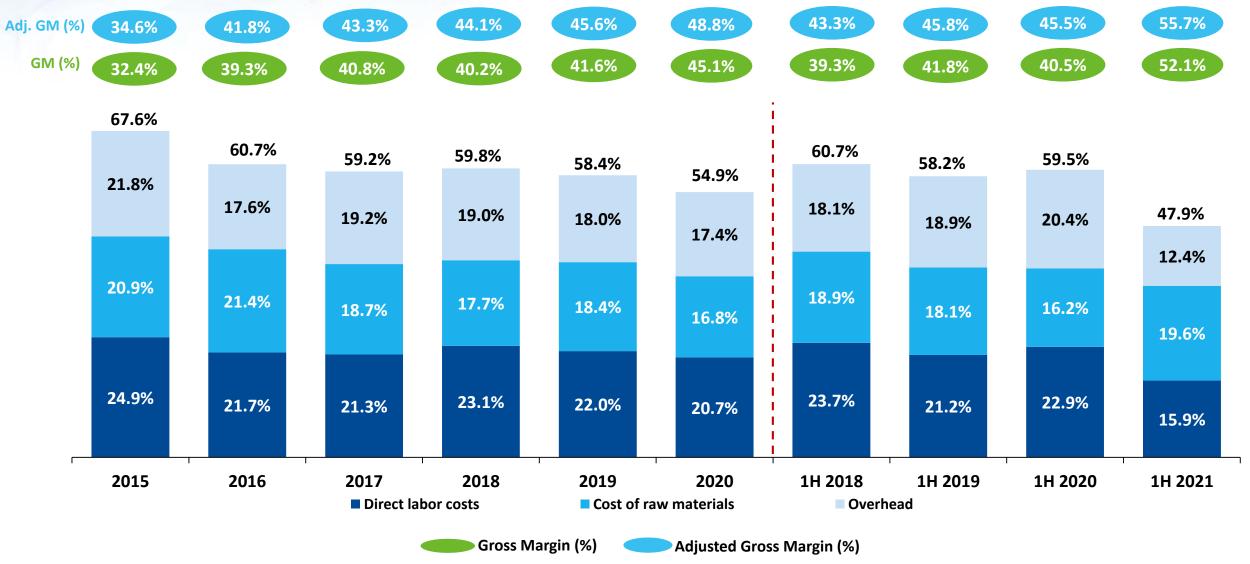
Note:

- 1. Customers are classified into different regions based on their headquarters
- 2. Rest of the world primarily includes Singapore, Japan, South Korea, Australia and Israel

Gross Margin Snapshot



Cost of Services as % of Revenue



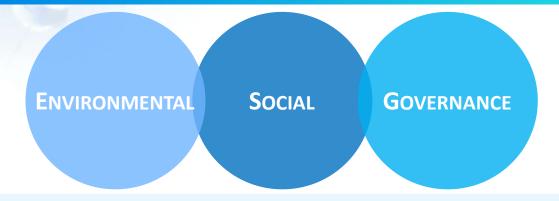




ESG

Well Recognized by Global ESG Rating Agencies





- ESG Committee at the board led by CEO
- Strictly comply with the Environmental Protection Law and other EHS regulations
- Disposable bioreactors consume 90% less water and energy and eliminate 100% detergent during cGMP production
- Least resources consumed, lower emissions and less waste produced.
- WuXi Biologics has been well recognized for its good ESG performance by: MSCI, DJSI,FTSE Russel

















Corporate Social Responsibilities in Fighting Against COVID-19 Enabling COVID Projects at the Speed of Light



- Scientists Working on COVID
- COVID Vaccines Delivered
- Neutralizing Antibody Delivered



Vaccines for
200+ mm
People



- 25 INDs filed globally for COVID antibody projects.
- months from DNA to EUA, enabling Vir/GSK neutralizing antibody at the speed of light!
 - months from DNA to IND for neutralizing antibodies. Best technology & execution shortened the IND timeline
 - 4 US, EU, WHO and Brazil GMP approvals (COVID vaccines and mAbs)

As a global corporate
citizen, WuXi Biologics is
enabling and working
with global partners to
fight against the
pandemic

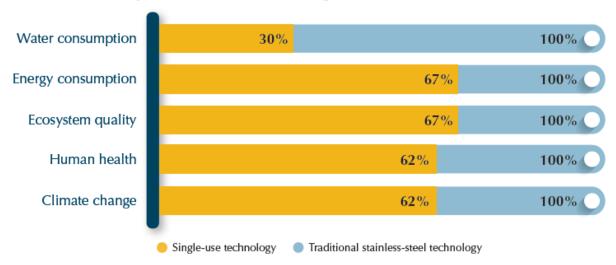
Disposable Technology: Significant ESG Improvement



Various studies showed disposable or single-use generally has less impact on the **ENVIRONMENT** than traditional stainless-steel technology

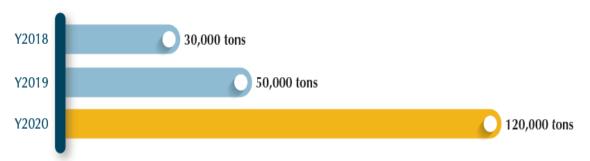
Especially in WATER consumption, SUT is 29% of that of traditional stainless-steel technology (according to internal calculation)

Environmental impact of the two technologies*



*Source: Single-use technology and sustainability-quantifying the environmental impact. GE Healthcare (2017)

Annual water savings due to the adoption of SUT (estimated value)

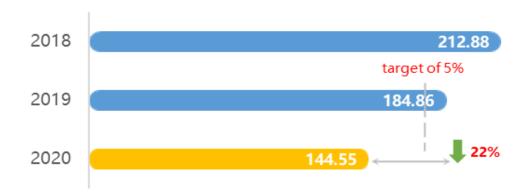


Effectively Reduced Energy Consumption & Emission Set Annual and Mid to Long-Term Energy Consumption & Emission Reduction Target

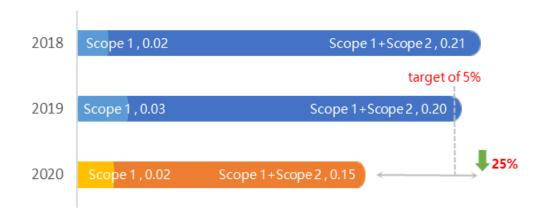


WuXi Biologics has made relentless efforts to reduce its impact on the surrounding environment and advocated for the low-carbon operation and sustainable development

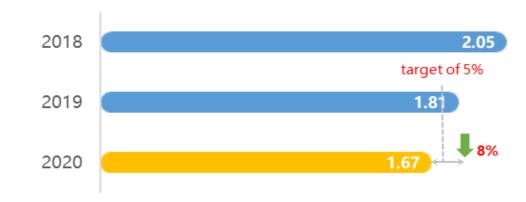
Intensity of electricity consumption(kWh/RMB0'000)



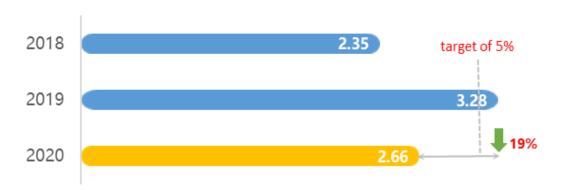
Intensity of greenhouse gas emission (tonnes/RMB0'000)



Intensity of water consumption (tonnes/RMB0'000)



Total Nitrogen Oxide emission (tonnes)



Supported Henan Province Timely with RMB10 mm Donation







药我以心 明你之爱 | 药明生物捐赠1000万元驰援河南

愿洪水早日退去。药我以心,明你之爱,和你在一起度 过难关!

- The torrential rains in Henan Province have brought significant impact and 1.5 mm people have been affected and relocated to safe places
- The Company Management and CSR Foundation responded to donate RMB 10mm for Henan disaster-relief efforts

Donation Efforts

Respond timely to support Henan:

- 25 July: Completed purchasing first batch of supplies
- 26-29 July: Supplies shipment to disaster area

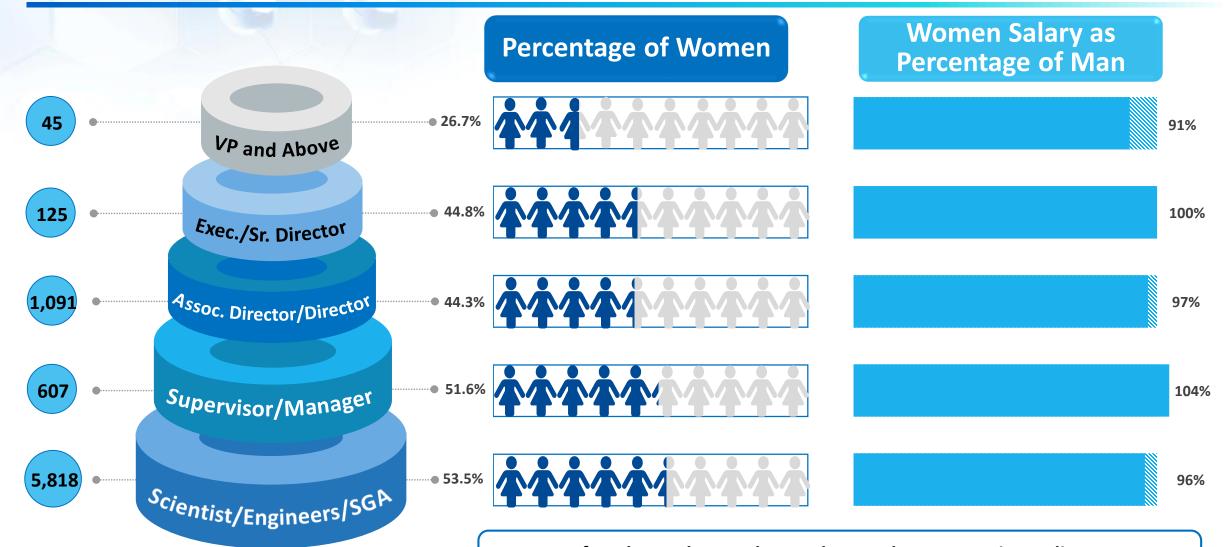
Employee Donation

Both domestic employees and overseas employees proactively participate in donation to aid the people in need



Focus on Diversity and Inclusion: Women Playing Critical Roles





- More female employees than male, equal compensation policy
- Female management members increased to 45%
- Added a female board member in June 2021





Summary

Robust Momentum Continues in 2021 FIVE Key Milestones Achieved in 1H 2021





- #3 CMO project: GSK/ Tesaro's PD-1 to treat endometrial cancer
- #4 CMO project:GSK/ Vir'sNeutralizingAntibody for COVID
- Fully validate WuXi
 Bio business model
 and capabilities to
 enable customers
 from DNA to BLA

2

- 3 M&A deals close announced within 1 week (Pfizer/Bayer /CMAB)
- New capacities
 acquired including
 DS + DP were GPM
 ready in 1H 2021 to
 increase short-term
 capacities

3

- •WuXi Bio and WuXi
 AppTec established
 WuXi XDC to
 become a dedicated
 global leading onestop CDMO services
 for bioconjugates
- •ADC projects increased to 48



- WuXi Vaccines on fast track: 9 projects signed as of June 30, 2021, including 3 COVID vaccines
- End-to-end mRNA technology enabling platform with 100 mm doses capacity in 2021 and more in 2022



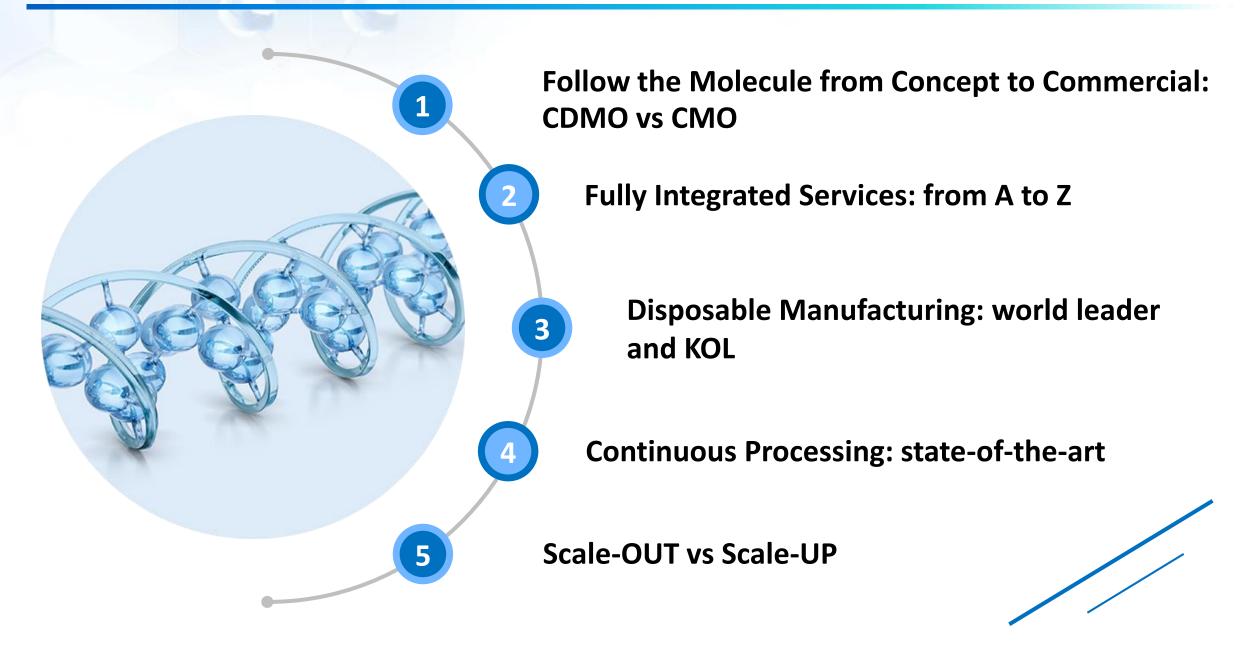
•More new modality platforms (SDArBodY™ enabled multispecifics) to empower Biologics and Vaccines development





WuXi Bio's Pioneered Global Trends Consistent with Industry Report





Higher Revenue and Profit in 1H 2021 and Beyond: SUSTAINABLE HIGH GROWTH



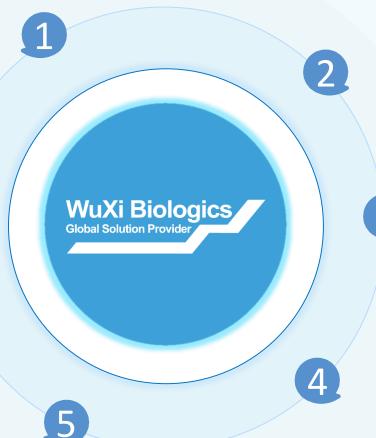
In 2H 2021, WuXi Bio will continue its efforts on technology innovation, capacity expansion and operation excellence to achieve outstanding performance

Expanded capacity to 120 INDs per year and increased the target to 100+ new integrated projects per year

6

6 in-house facilities on line (peak revenue US\$700 mm) 7 purchased facilities on line (peak revenue US\$500 mm)

To launch 4 products this year and manufacture ~1,500kg neutralizing mAbs and several hundred million doses of vaccines, COVID revenue contribution in 2022 likely significant



"Win-the-Molecule" strategy: add 5+ late phase projects to boost revenue growth

> Continue to invest in nextgeneration technologies and new modalities (such as mRNA and **SDArBodY**TM) to meet unmet demands for patients

From Good to Great: operational excellence, ESGoriented to deliver sustainable high growth

2021 Key Milestones and Catalysts

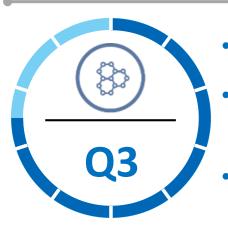




- MFG5 4K line operation
- MFG4 EMA remote inspection completed



- **DP7** operation
- MFG4 EMA approved
- GSK's PD-1 approved
- Vir's neutralizing mAb EUA
- CStone, Gloria PLI completed



- Amicus BLA filing
- Pfizer/CMAB facilities contributing revenue
 - MFG18 operation



- 1-2 projects get BLAs approval in China
- MFG19 operation













Appendix



A. Financial Summary

1H 2021 Financial Summary



(RMB million)	1H 2021	1H 2020	Change
Revenue	4,406.8	1,944.1	126.7%
Cost of Sales and Services	(2,109.9)	(1,156.8)	
Gross Profit	2,296.8	787.3	191.7%
Other Income	127.3	148.4	
Impairment Losses under ECL model, Net of Reversal	(133.2)	(56.6)	
Other Gains and Losses	311.5	225.7	
Selling and Marketing Expenses	(60.4)	(48.5)	
Administrative Expenses	(347.6)	(203.4)	
Research and Development Expenses	(115.4)	(124.4)	
Share of Loss of an Associate	-	(1.1)	
Financial Costs	(20.9)	(22.4)	
Profit before Tax	2,058.2	705.1	
Income Tax (Expense) Credit	(175.5)	25.6	
Profit for the Period	1,882.8	730.7	157.7%
Earnings per Share – Basic (RMB)	0.44	0.19	
Earnings per Share – Diluted (RMB)	0.42	0.18	

Notes:

^{1.} Results may not foot due to rounding

^{2.} The authorized and issued shares of the Company were subdivided on the basis that every one (1) issued share is subdivided into three (3) subdivided shares (the "Share Subdivision"), which became effective on November 16, 2020. Basic and diluted earnings per share were stated after taking into account the effect of the Share Subdivision. Comparative figures have also been restated on the assumption that the Share Subdivision had been effective in the prior year.

Reconciliation for Adjusted Net Profit Attributable to Owners of the Company and Adjusted EBITDA



(RMB million)	1H 2021	1H 2020	Change
Adjusted Net Profit Attributable to Owners of the Company Reconciliation			
Net Profit Attributable to Owners of the Company	1,842.1	736.1	
Add: Share-based Compensation	204.7	126.4	
Less: Foreign Exchange Gain	(95.8)	(123.1)	
Less: Fair Value Gain on Equity Investments at FVTPL	(182.3)	(67.0)	
Adjusted Net Profit Attributable to Owners of the Company	1,768.7	672.4	163.0%
Adjusted EBITDA Reconciliation			
EBITDA	2,387.1	941.4	
Add: Share-based Compensation	204.7	126.4	
Less: Foreign Exchange Gain	(93.1)	(123.1)	
	(()	

(182.3)

2,316.4

(67.0)

877.7

Notes

Adjusted EBITDA

Less: Fair Value Gain on Equity Investments at FVTPL

163.9%

^{1.} Results may not foot due to rounding

^{2.} Adjusted EBITDA and adjusted net profit of 2019 have been restated to further exclude the fair value gains on the Group's investment portfolios



B. WuXi Bio's Company Introduction





Mission

To accelerate and transform the discovery, development and manufacturing of biologics through a comprehensive openaccess platform, enabling our global healthcare partners and benefiting patients worldwide

"Follow & Win the Molecule" Integrated Solution Model

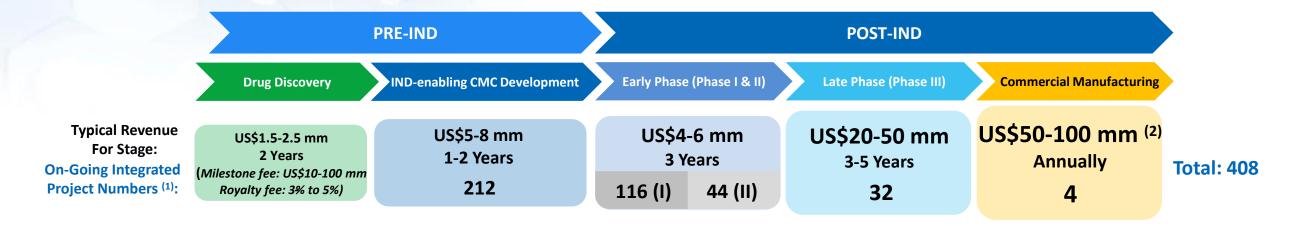
Our customers' demand for our services increases as their biologics advance through development and ultimately to commercialization, which allows our revenue from each project to grow geometrically as the project advances through the biologics development cycle

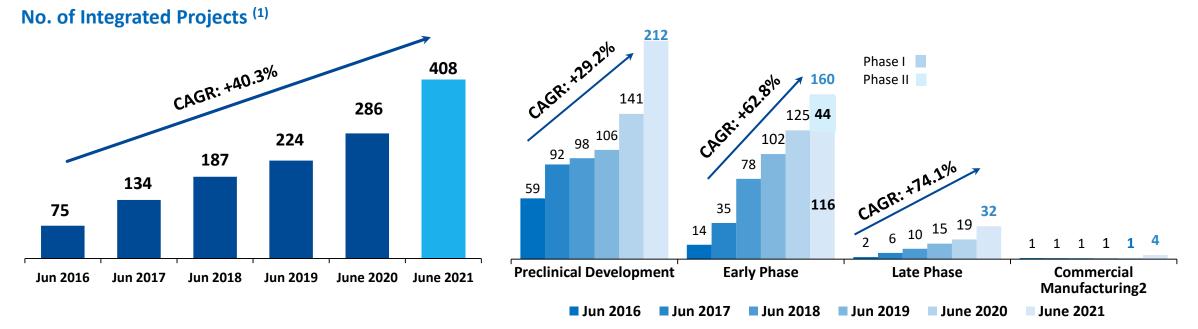
Revenue from Each Project Increases as the Program Progresses

Biologics Development Process	Typical Duration	Typical Revenue	
Prior to Clinical Trials			
Drug Discovery Services	2 Years	US\$1.5-2.5 mm (Milestone fee ranges from US\$ 10-100 mm Royalty fee ranges from 3% to 5%)	
IND-enabling CMC Development	1-2 Years	US\$5-8 mm	
Post Clinical Trials			
Early-Phase (Phases I & II) Clinical Manufacturing	3 Years	US\$4-6 mm	
Late-Phase (Phase III) Clinical Manufacturing and PPQ	3-5 Years	US\$20-50 mm	
Commercial Manufacturing	20-30 Years	US\$50-100 mm annually	

Solid Business Progress – Integrated Projects







Notes:

- 1. Integrated projects are defined as projects requiring services for multiple stages during biologics development process
- 2. Estimated CMO revenue when a biologic drug reaches its peak sales. A biologic drug typically reaches peak sales after a ramp-up period

Diversified Revenue Model: Service fee + Milestone + Royalties

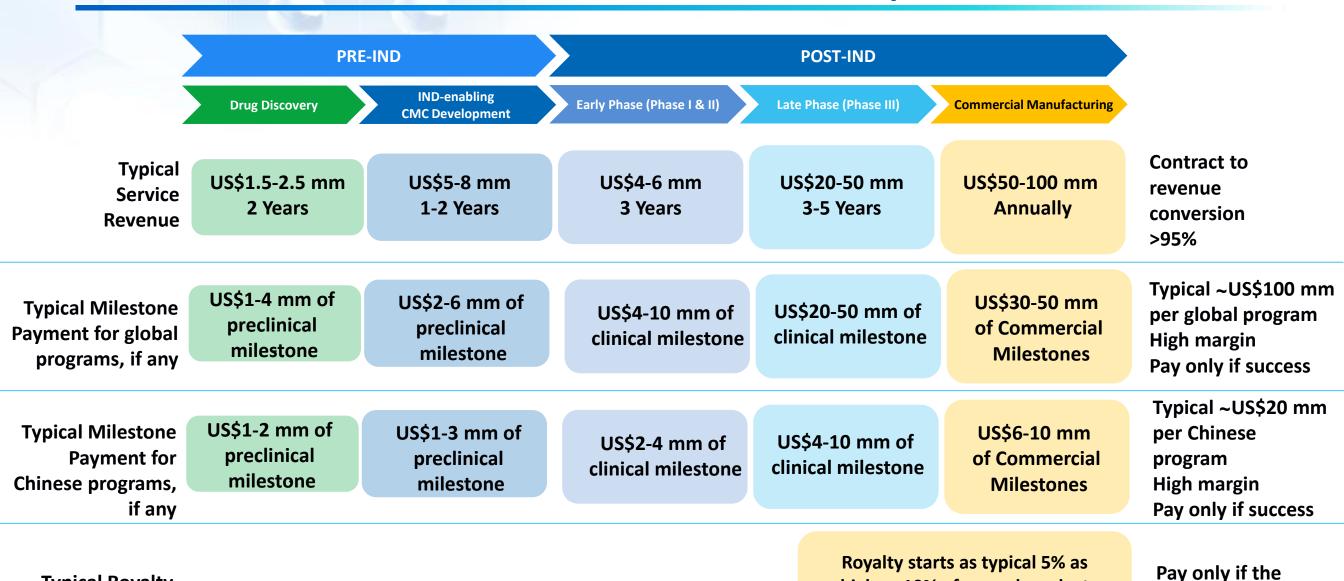
Typical Royalty

Payment



high as 10% of annual product

sales for 10-15 years



67

product is launched

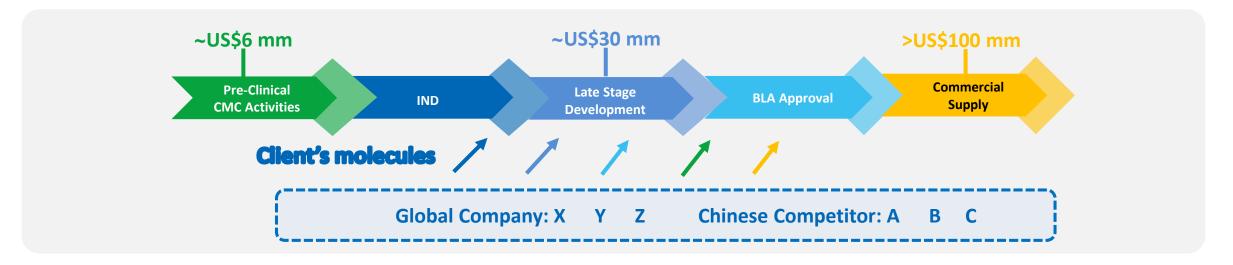
"Win-the-Molecule" Strategy Reinforces the Pipeline Growth



The strategy of following the molecule from concept to commercialization: molecule lifecycle at WuXi Bio



"Win-the-Molecule" Strategy: client transfers molecules from other peers to WuXi Bio during development cycle as a direct result of WuXi Bio's better technical capability, services and capacities



Global Partners Continue to Expand

450+ global partners including 18 of the 20 largest pharmaceutical companies in the world and 36 of the 50 largest pharmaceutical companies in China



Expanding Global Capacity to ~430,000L after 2024



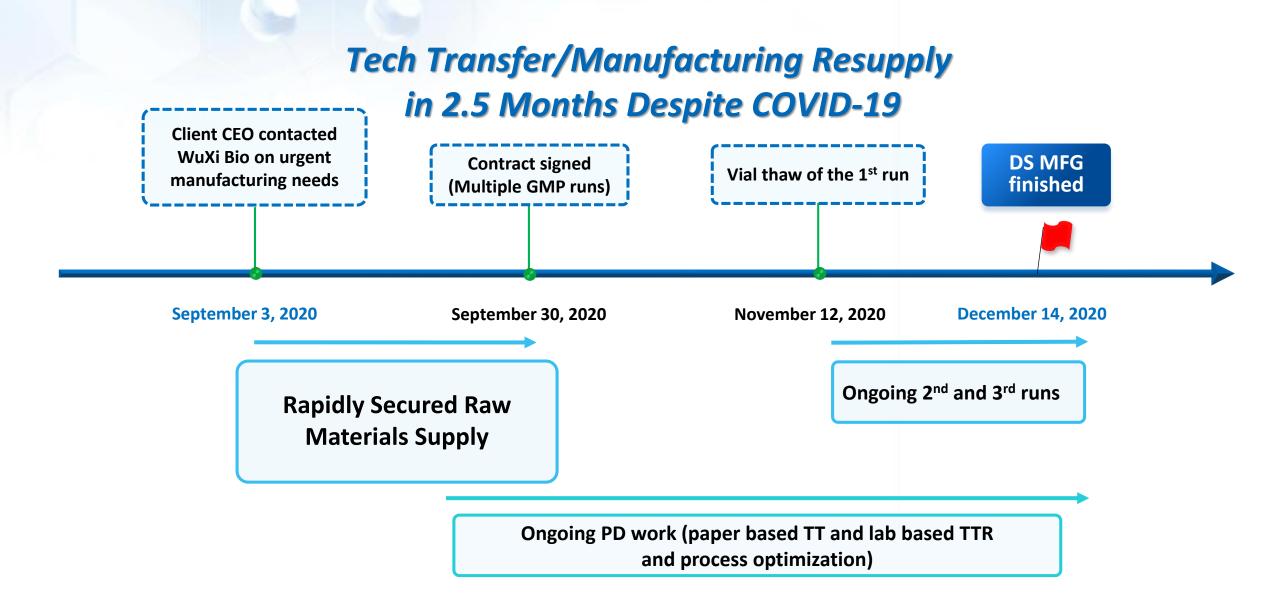
70

Site #	DS Capacity	GMP Ready	Location	Comments
MFG1	7,500L fed-batch/perfusion	2012	Wuxi	Commercial
MFG2	28,000L fed-batch/2,000L perfusion	2017	Wuxi	Commercial
MFG3	5,200L fed-batch/1,500L perfusion	2018	Shanghai	Clinical
MFG4	10,000L fed-batch/CFB	2019	Wuxi	Commercial
MFG5	60,000L fed-batch	2021	Wuxi	Commercial
MFG6	6,000L (6 x 1,000L) perfusion	2022	Ireland	Commercial
MFG7	48,000L fed-batch	2023	Ireland	Commercial
MFG8	48,000L fed-batch	2022	Shijiazhuang	Commercial
MFG9	96,000L fed-batch	2024	Wuxi	Commercial
MFG10	4,000L fed-batch/500L perfusion	2023	Singapore	Clinical/Commercial
MFG11	16,000L fed-batch	2024	Worcester, MA	Clinical/Commercial
MFG12	48,000L (12 x 4,000L) fed-batch	2023	Chengdu	Clinical/Commercial
MFG13	2,000L (2 x 1,000L) viral manufacturing	2021	Hangzhou	Clinical/Commercial
MFG14	2,300L (300L/2,000L) microbial	2021	Hangzhou	Clinical/Commercial
MFG17	10,000L fed-batch	2023	Shanghai	Clinical
MFG18	6,000L fed-batch	2021	Cranbury, NJ	Clinical
MFG19	12,000L fed-batch/3,000L perfusion	2021	Wuppertal, Germany	Commercial
MFG20	8,000L (4 x 2,000L) fed-batch	2021	Hangzhou	Commercial
MFG21	7,000L fed-batch	2021	Suzhou	Clinical

Note

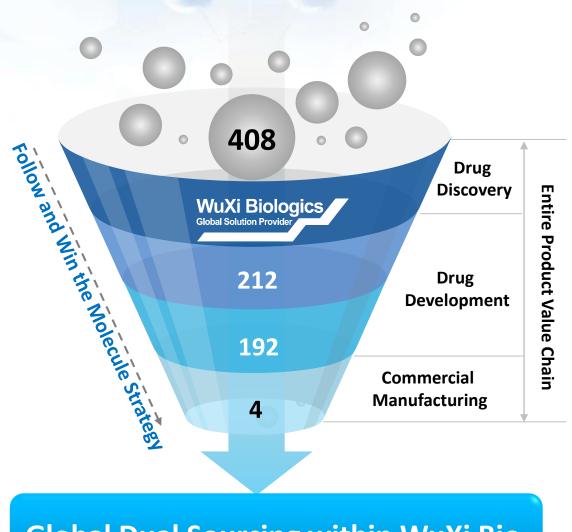
SPEED: Mission Impossible Technology Transfer During COVID-19 Cut 6-12 Months to 2.5 Months





Global Dual Sourcing within WuXi Bio: Robust Supply Chain





Global Dual Sourcing within WuXi Bio

- World-class capabilities, expanding capacities, excellent track record and superb execution securing more projects globally than other players
- Biologics projects are sticky, securing early stage projects to ensure high likelihood of continuing to commercialization
- Our "on-demand global capacity planning" and "global dual sourcing within WuXi Bio" fulfill our global customers' rapid growing demand
- "Follow & Win the Molecule" strategy to increase late stage projects
- Multiple CMO programs starting from 2021

High-Impact Innovation to Enable Customer Success



WuXiBody® Bispecific Platform

- Universal
- 6-18 months of timesaving
- Minimal CMC issue
- More strategic partnerships with customers



WuXia™ Cell Line

- Robust cell line with proven track record
- Enabling 120 Integrated
 Projects Per Year
- 100+ ongoing clinical projects in U.S., EU and China



WuXiUP™ Continuous Manufacturing Platform

- 30-90g/L titer, 10+x
- Achieving ultra-high productivity
- Enabling 2,000L
 disposable bioreactors
 to comparable
 productivity as 20,000L
 traditional SS tank



Discovery

Development

Manufacturing

Innovation of next growth cycle in biologics



1

WuXi Bio: the first and only biologics company in China passed FDA, EMA and ANVISA inspections

2

Total 15 inspections conducted by FDA, EMA, NMPA and ANVISA since 2017. 9 inspections in first 7 months of 2021

3

Quality system in compliance with global regulatory requirements, enables the Company to outperform in global competition

Multiple Engines to Sustainable High Growth





WuXiBody®

(Target 10-20

projects every

Bispecifics

year)

Promote ADC integrated

capabilities

2021

2022



Considerable CMO revenue growth by "Win-the-Molecule" and COVID projects. **Expect to 1**st royalty revenue

Global capacities promptly expanding. **Full-spectrum** services for mRNAbased vaccine to enable customers.

SIX Pillars Underpins WuXi Biologics Sustainable High Growth



- 1
- **Excellent IP protection (vs China and India competitors)**
- FDA and EMA accepted quality system: only company in China, among Top 5 global CDMOs
- State-of-art technology platform: comparable to large pharma
- Superb execution won trust from global clients
- World-class talent: 500+ senior scientists, 1,000+ young scientists per year
- Strong financials: around US\$2.2 bn cash

Continuing to Gain Market Share for Sustainable High Growth



Cutting Edge Technology

- WuXiBody® bispecific (universal, 6-18 months of time-saving, minimal CMC issue)
- ADC (greatly enhanced DAR4, dedicated MFG sites, 15+ IND filings)
- WuXia™ cell line (robust cell line with proven track record)
- WuXiUP[™] continuous manufacturing platform (30-90g/L titer, 10+x)

Best Timeline

IND Filing Timeline

- Industry average: 18-24 months
- WuXi Bio target: 15 reduced to 6-9 months now!
- WuXi Bio record: 7 months, <3 months for coronavirus related projects

Excellent Track Record

- 100% projects delivered
- Outstanding customer satisfaction and high recognition
- Excellent execution on COVID-19 projects

Unparalleled Capacity

- Capacity for IND enabling projects increased from 60 per year to 120
- Late phase capacity increased from 5 BLAs to 7 per year
- One of the largest scientist team: 2,800+
- Largest capacity using single-use bioreactor: ~430,000L after 2024

Sustainable Corporate Social Responsibility (CSR) Efforts Doing Good and Good Business













- Fundraising campaign to support Breast Cancer Ireland
- Enable Employee Volunteerism and giving back to community at our global sites
- Focused on public health, educational and charity programs to support those under-privileged
- Setting up dedicated WuXi Bio CSR Foundation
- Established company-wide and sites level volunteers' associations to support volunteer activities systemically and sustainably
- Joint efforts with site contractor and his baby son Sean Óg for employee donation for Crumlin Children's Hospital in Ireland
- Under extensive collaboration with China Population
 Welfare Foundation, donated RMB 500,000 to purchase
 first-aid kits to needed families in Jiangxi province
- Working with NGOs e.g. The Illness Challenge Foundation, provides education grants to over 30 students suffering from rare diseases











C. Leading Industry Trends Favoring WuXi Biologics

State-of-the-Art Technology Differentiates WuXi Bio



WuXiBody® Bispecific Platform

- Combine any two antibodies and assemble into bispecifics
- Easy to express, no aggregation or mispairing, can be developed 6-18 months faster and much lower COGS than competitor platforms
- Support 50+ projects per year which attracts downstream services

Transgenic Animal For mAbs Discovery

- Access to OMT's state-of-the-art transgenic animal technology to develop fully human antibodies with high quality, specificity, expression, solubility and stability
- Proven technology platform used by 20+ other global companies
- Support 50+ projects per year with potential downstream services

Antibody Drug Conjugate Discovery

- Integrate our in-house antibody discovery, toxin and linker to deliver the ideal lead ADC molecules
- Greatly simplify ADC drug development by providing a one-stop shop
- 48 ongoing projects with ADC discovery services with potential downstream service

WuXia™ Cell Line Platform

- Our own proprietary cell line paired with our own proprietary algorithm is more cost-effective, more efficient and yields better results
- License know-how generated during cell line engineering and development process to the customer in exchange for a license fee and future royalty payments
- Developed 530+ CHO-K1 cell lines total for therapeutic protein purpose

Disposable Manufacturing Technology

- No cleaning and sterilization required for disposable bioreactors that use preradiated plastic bags as the production vessel in a stainless holder
- A facility using disposable bioreactors can be built 12 to 18 months faster with 30% to 50% less investment, and can produce 5% to 15% more batches of products with a higher success rate compared to traditional stainless steel bioreactors

WuXiUP™ Continuous Manufacturing Platform

- The next generation biologic manufacturing solution to accelerate biologics development and manufacturing as well as to improve the affordability of biologics
- 30-90g/L titer, 10+x
- Enabling 2,000L disposable bioreactors to comparable productivity as traditional SS tank through WuXiUP™

Leading Edge Technology of WuXiBody®



DIFFERENTIATION

- Universal: almost any mAb sequence can be used to build bispecifics
- Flexibility: bi/tri/tetra
 valency based on biology

SPEED

Minimal CMC challenges:
no expression,
aggregation or
purification challenges –
Save 6-18 months of
development time

QUALITY

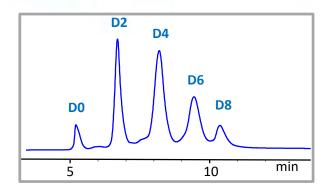
- Expected low immunogenicity: natural sequence without complicated engineering
- Typical in vivo half-life, longer than typical bispecifics



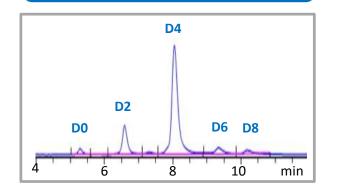
WuXi Bio's Patented ADC Conjugation Technologies - Greatly Enhanced DAR4, Significantly Improved Therapeutic Windows



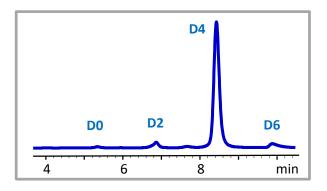
ADC produced with conventional method, natural DAR distribution



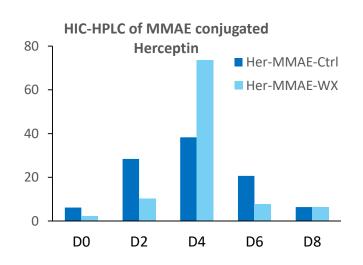
ADC produced with WuXi Biologics' IP for native IgG1



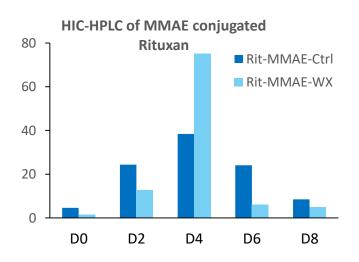
ADC produced with WuXi Biologics' IP for engineered IgG1/4



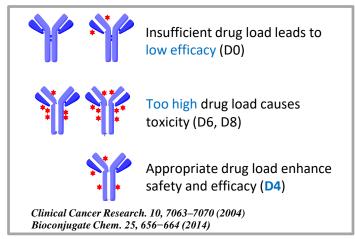
mAb in clinic: Trastuzumab



Rituximab



Drug-Antibody Ratio (DAR) Greatly Affects Efficacy And Safety of ADC



WuXiUP™ to Expedite Product Launch and Reduce Manufacturing Cost Global Solution Provided in the Cost Global Solution Pro





Comparable to Traditional bioreactors

Enable 2,000L disposable bioreactors to achieve comparable productivity as traditional 20,000L stainless bioreactors, significantly reduce the manufacturing cost

High Purification Yield

Achieve ultra-high productivity while enabling similar purification yield of the traditional purification process

Scale-up to GMP

The technology is being scaled up to GMP production and will be deployed throughout our global manufacturing network

WuXi Bio's Vision

"Every drug can be made, and every disease can be treated" by building an open-access platform with the most comprehensive capabilities and technologies in the global biologics industry.

