

# Henlius (2696.HK) 1H22 Results Investor Presentation

August 2022





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## **1H22 Business Highlights**



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H-Evolution

## **Core Business Updates**

2.1 Commercial Operation

2.2 Innovative Biologics R&D Milestones (Clinical Phase)

2.3 Early-stage R&D Strategies (Pre-clinical Phase)

2.4 Biosimilar Milestones

2.5 Manufacturing Capacity Breakthroughs

## **Financial Review & Outlook**



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# **1H22 Business Highlights**



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# 1H22: The Pivotal 6 Months of Henlius' Evolution from Biotech to Biopharma

Sustained operations during Covid outbreaks and lockdowns

Ooubled production capacity, breaking through the bottleneck

Received NMPA approval for the first innovative biological drug, Serplulimab

Accelerated product sales growth (HANQUYOU & HANSIZHUANG)

New license-out milestones (Organon)

 $\oslash$ 

Innovative R&D transformation starts to bloom

# **1H22 Key Milestones**

**Our Mission:** Affordable Innovation, Reliable Quality

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	Products Launched Domestically	5
×	Products Launched Internationally	1
	NDAs Under NMPA Review*	3
	Phase 3 Trials*	8
×	Total Commercial Production Capacity	48,000L

IND of HLX53 (anti-TIGIT Fc fusion protein) approved by NMPA
Reached license agreement with Palleon for bifunctional sialidases

- Reached license agreement with Organon, with payments up to US\$541M on two mAbs products
- HLX35 (anti-EGFR×4-1BB BsAb) first patient dosing in a phase 1 clinical trial in China completed
- 2022.06 HANSIZHUANG's 1L ES-SCLC clinical data presented at 2022 ASCO 2022.05
  - Songjiang First Plant with a 24,000L capacity began commercial operation for HANQUYOU
    - HANSIZHUANG granted orphan-drug designation for SCLC by FDA
- 2022.04 NDA for HANSIZHUANG for Extensive Stage Small Cell L ung Cancer (ES-SCLC) accepted by NMPA
  - HANSIZHUANG (serplulimab) for MSI-H solid tumour indication treatment launched
  - HANLIKANG (rituximab) for Rheumatoid Arthritis (RA) indication approved in China



2022.03

2022.02

## **5 Products Launched: Revenue Tops 1.29 Billion RMB**





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# **High-performing Leadership Team with A Global Vision**





**Jason Zhu** President



Wei Huang **Chief Operation Officer** SVP



**James Guo Jifeng Zhang Chief Technology Officer** SVP





**Jean-Michel Gries President of Hengenix** Biotech

Kurt Yu **Chief Commercial Officer** VP

#### Wenjie Zhang Chairman **Executive Director and CEO**

- Joined Henlius in Mar 2019
- Nearly 30 years of operational experience in the pharmaceutical industry
- Former business head, business vice president and general manager at Bayer China, Roche China and Amgen China
- MBA from Yale University and bachelor degree of microbiology from Shandong University



**Gino Li Chief Financial Officer** VP



Jessie Li Chief Human Resource Officer VP



SVP

**Ping Cao** VP of Business Development



Wallis Zeng VP of Oncology **Business Unit** 



**Jinzhi Liu** VP of Legal and Compliance



Ming Yang GM of Immune-Oncology **Business Unit** 



**Yonggiang Shan** GM of Shanghai **Innovation Centre** 



**Arthur Sheng** GM of Global Strategy & PMO



Jim Hua GM of Finance & Procurement



**Jasmin Wang** Deputy GM of Quality



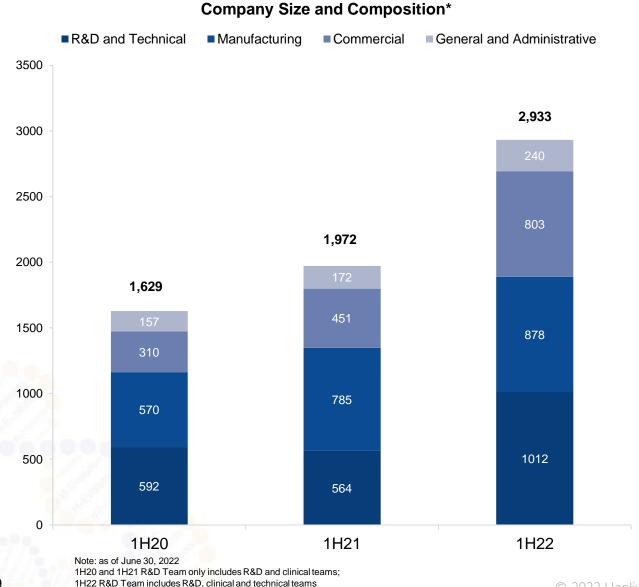
Nancy Wang **Board Secretary** 



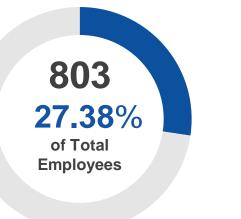
While maximising the commercial value of biosimilars, we rely on our own R&D expertise, complemented by external collaborations and license-in, to accelerate our innovation.



# **Company Scale: Rapid Team Expansion**



R&D and Technical	1012
Manufacturing	878
Commercial	803
General & Administrative	240



**Commercial Team** 

1012 34.50% of Total Employees

R&D and Technical Team **Q** Henlius

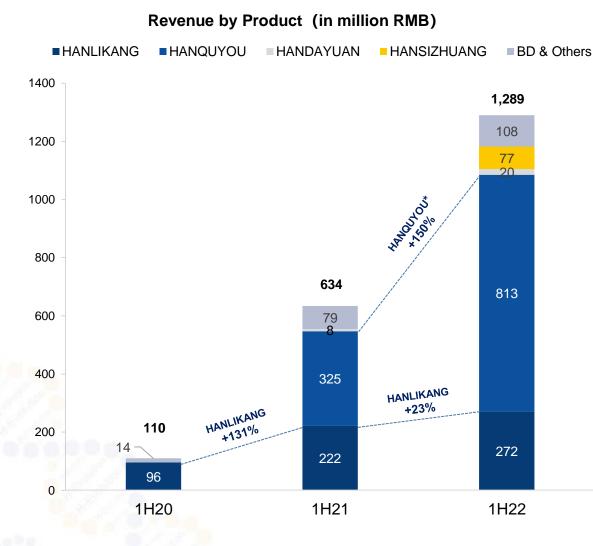
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# 2.1 Commercial Operation



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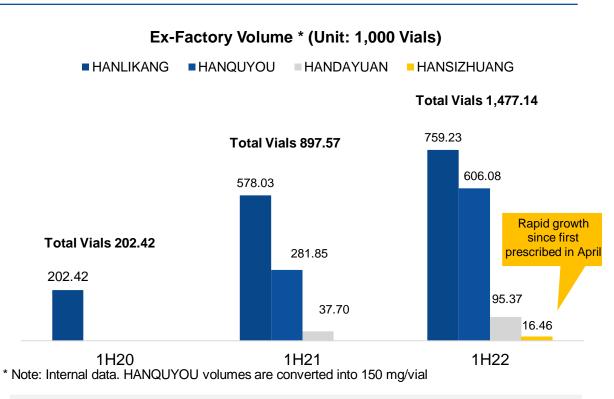
## **1H22 Sales: Growth Driven by Core Products**



Note: Sales of HANQUYOU included the sales of HANQUYOU, Zercepac<sup>®</sup> and the drug substance trastuzumab

HANGQUYOU ex-factory volume included overseas sales volume

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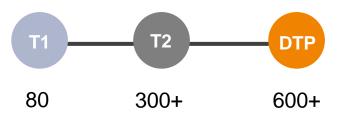
- Rapid revenue growth: achieved revenue of RMB 1.29 billion in 1H22, up 103% YoY, mainly due to the sales volume growth of HANLIKANG and HANQUYOU\*. HANQUYOU\* recorded revenue of RMB 813 million in 1H22, up RMB 488 million or 150% YoY. HANLIKANG realized 272 million revenue. HANSIZHUANG reached revenue of RMB 77 million within 3 months of launching.
- Revenue increase driven by core product sales: the ex-factory volume reached 1.48 million vials, which is 1.6 times of that in 1H21. HANQUYOU ex-factory volume was 0.61 million vials, up 115% over 1H21. HANLIKANG achieved 0.76 million vials ex-factory volume, while HANSIZHUANG achieved 16,500 vials, which resulted in a tremendous increase in sales since its launch.



# HANQUYOU (trastuzumab): Rapid Increase in Production Volume

#### **Optimised distribution network**

- Optimised distributor & DTP pharmacy channels
- Simplified distribution process, improved efficiency to drive sales growth



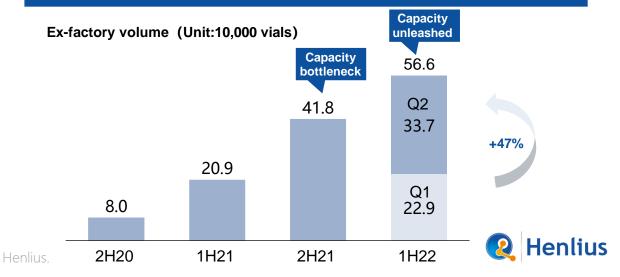
#### Strengthened business division

- Commercial team: **518** as of Jun 30, 2022.
- Comprehensive coverage of nearly 3,500 hospitals in 7
   major sales regions across China, reaching 20,000+
   breast cancer oncologists and gastroenterologists
- Benefited over 70,000 HER2+ patients since product launch in China. Compared to other trastuzumab biosimilars which will be commercialised soon, the target doctor group has more hands-on experience with HANQUYOU

#### **Better market access**

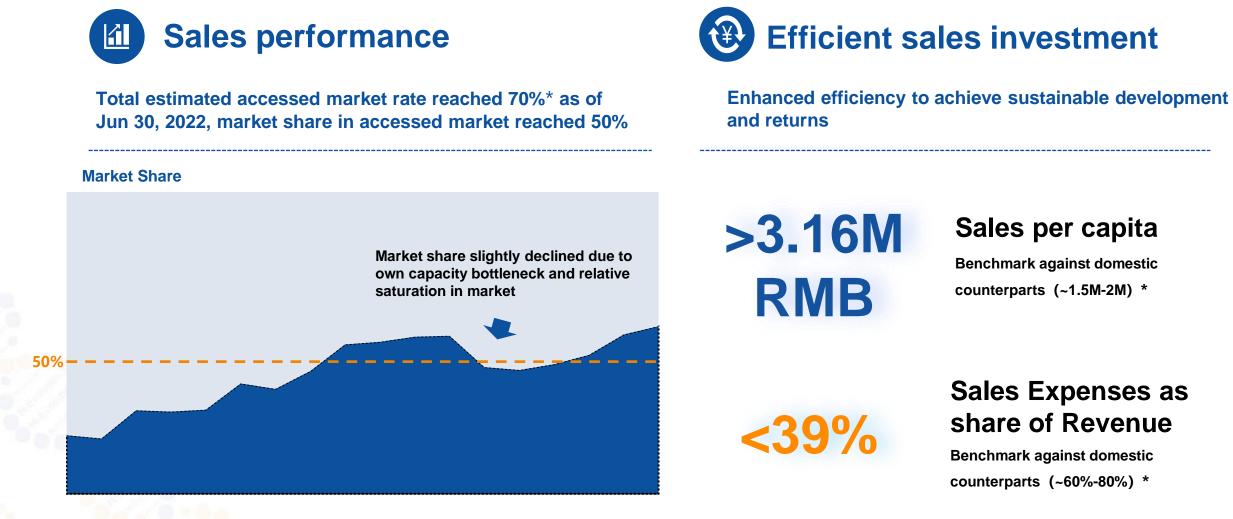
- **150mg**: Entered national reimbursement drug list and completed tenders on procurement platforms in all provinces and and municipalities. Gained access to 714 hospitals out of Top 1,000 hospitals, of which 71% have included the product in their official procurement list.
- 60mg: Since being commercialised in April, has entered the national reimbursement drug list and completed tenders on procurement platforms in 26 provinces and municipalities by June. Gained access to 149 hospitals out of Top 1,000, of which 64% have included the product in their official procurement list.

#### Ramping up production



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# HANQUYOU (trastuzumab): Outstanding Sales Performance



01/21 02/21 03/21 04/21 05/21 06/21 07/21 08/21 09/21 10/21 11/21 12/21 01/22 02/22 03/22 04/22 05/22 06/22

Data source: 1. internal sales data; 2. IQVIA CHPA; 3. Accessed market rate=accessed market potential / total market potential 4. Annual report of domestic innovative biopharma



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# HANQUYOU: 60mg Specification Launched, Advanced Leading Position in the Trastuzumab Market



# Establishing new standard among peers



Adjustable Dosage

Suitable for Asian Female Patients



**Dual Drug Specifications** 

Standardising Drug Adoption



#### **Superior Formulation**

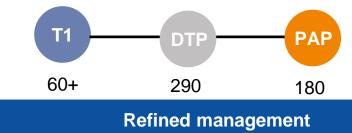
No preservatives, fewer side effects



# HANSIZHUANG (serplulimab): Successful Launch in March

#### **DTP channel optimisation**

- Pursued synergistic effect with HANQUYOU, established efficient distribution network
- Maximised access by leveraging DTP pharmacies and infusion centres



#### Access and market penetration

#### Accelerated bidding

Complied with national drug code system regulation, completed tenders on procurement platforms in 18 provinces

• Focus on core hospitals Introduced to 21% of the Top 110 hospitals

#### Henlius Speed: outstanding sales performance

- Establish a field team of 200+ who have extraordinary communications skills and experience in the oncology drugs market
- Created a team culture of professionalism, efficiency and compliance





# HANSIZHUANG (serplulimab): Under China NDA Review for sqNSCLC and SCLC Indications

## Market prospects

- 800k+ new lung cancer patients every year (170k+ in sqNSCLC, 120k + in SCLC)
- HANSIZHUANG would potentially be the world's first PD-1 inhibitor for the first-line treatment of SCLC indication



#### Clinical efficacy profile

- Significantly extended the mOS of patients with sqNSCLC
- Superior mOS among all anti-PD-1 mAb for first-line treatment of SCLC
- Lowest HR value among all registered treatments for SCLC, with
   better efficacy among Asian demographics

#### sqNSCLC expected to be approved in 2H22

## **ES-SCLC** expected to be approved in 1H23



# HANLIKANG (rituximab) :Market Leader amid Competition and COVID-19 Pandemic



## **Market Access**

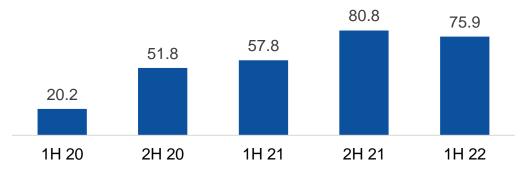
#### 100mg:

Listed on the procurement platform in **30 provinces and municipalities** except Yun Nan by the end of June; Covered by medical insurance schemes in **30 provinces and municipalities** except Tibet



## **Sales Performance\***

#### Ex-factory Sales\* (Unit:10,000 vials)



#### 500mg:

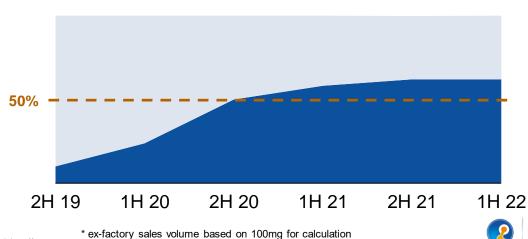
Listed on the procurement platform in **26 provinces** and municipalities by end of June; Covered by medical insurance schemes in **14 provinces and** municipalities

#### **Hospital listing:**

74% of Top300 hospitals have introduced the product

\* Fosun Pharma is responsible for the commercialisation of HANLIKANG

#### **Market Share**

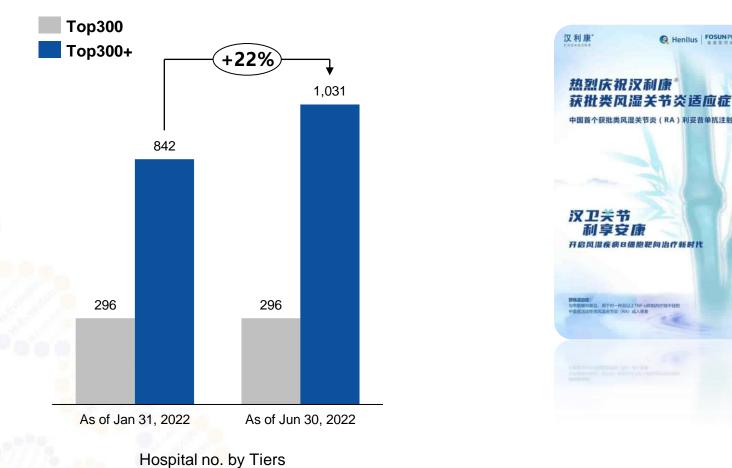


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# HANLIKANG: Rapidly Claiming Market Share in RA Treatment

#### **Consolidated leadership in core** market and expanded further

By June, the number of Top 300+ hospitals with HANLIKANG prescriptions has climbed 22% since the beginning of the year





R Henlius FOSUN PHARM

·获批类风湿关节炎(RA) 利妥昔单抗注射液

#### **Expanding application scenarios**

The originator drug has not approved for RA indication treatment by NMPA

Low dosing frequency, sustained efficacy

Combined treatment in full course with HANDAYUAN



# 2.2 Innovative Biological Drugs R&D Milestones (Clinical Phase)



# **Product Pipeline - Innovative Biological Drugs**

	I	Products	Targets	Indications	Pre-clinical	IND	Phase 1	Phase 2	Phase 3	NDA	Launch	<b>Business Partn</b>	ers
aunc -hed		NSIZHUANG erplulimab) <sup>(1)</sup>	PD-1	MSI-H solid tumours								KGbio	
o be	l0 mab n <sup>(2)</sup>			squamous non-small cell lung cancer 1L	Global multi-centr	e clinical study					I		
com erci ised	HLX10 (serplulimab injection <sup>(2)</sup>	+chemo	PD-1	extensive-stage small cell lung cancer 1L	Global multi-centr	e clinical study					I		
				metastatic esophageal squamous-cell carcinoma 1L						🕈 Met Prim	ary Endpoint OS & PF	S	
		+chemo	PD-1	neo-/adjuvant treatment of gastric cancer									
	HLX10 (serplulimab injection <sup>(2)</sup>	+chemo +radio		limited-stage small cell lung cancer 1L	Global multi-centr	e clinical study							
	_X10 tb inje			non-squamous non-small cell lung cancer 1L									
	Iulima	+HANBEITAI	PD-1+VEGF	hepatocellular carcinoma 1L									
lies	(serp			metastatic colorectal cancer 1L									
Studies		+HLX07	PD-1+EGFR	squamous cell carcinoma of head&neck 2L					I				
		THEXO!	TETREOR	squamous non-small cell lung cancer 1L					1				
		+HLX26	PD-1+LAG-3	solid tumours, lymphomas				I Contraction					
Clinical		HLX04-O <sup>(3)</sup>	VEGF	wet age-related macular degeneration	Global multi-centr	e clinical study						ESSEX /ZEE	
under	HLX22	2 +HANQUYOU	HER2+HER2	gastric cancer					I				
Ē		HLX07 <sup>(4)</sup>	EGFR	solid tumours (non-small cell lung cancer, esophageal carcinoma, etc.)					l i				(1) Indica approved
	0,0	HLX208 <sup>(5)</sup>	BRAF V600E	Metastatic colorectal cancer, non-small cell lung cancer, LCHand ECD									(2) Clinica US/EU co (3) Clinica China/Aus
	1	HLX26	LAG-3	solid tumours, lymphomas				I					countries (4) Clinica US
	8 32	HLX35 <sup>(6)</sup>	EGFR x 4-1BB	solid tumours				l i				• <b>ТВІНАСЕА</b> РНАХМА	(5) Comm China inc Kong, Ma
		HLX301 <sup>(7)</sup>	PD-L1 x TIGIT	solid tumours				I.					(6) Global Chinese r Taiwan re
		HLX23 <sup>(8)</sup>	CD73	solid tumours			l						(7) Clinica acknowle Administra
		HLX53	TIGIT	solid tumours, lymphomas			I						(8) Clinica

# **Pipeline Catalysts in 2H22 and 2023**

	2H2022	1H2023	2H2023
NDA/BLA/MAA Submission	HLX10 – Esophageal squamous cell carcinoma (ESCC) 1L (CN)	HLX10 – Extensive Stage Small Cell Lung Cancer (ES-SCLC) 1L (EU)	HLX10 – Non-squamous Non-Small Cell Lung Cancer (nsNSCLC) 1L (CN) HLX10 – Extensive Stage Small Cell Lung Cancer (ES-SCLC) 1L (US)
Key Study Clinical Data Readouts	HLX07 – Cutaneous squamous cell carcinoma (CSCC) HLX10 – squamous Non-Small Cell Lung Cancer (sqNSCLC) 1L (Pivotal) HLX10 – metastatic Colorectal Cancer (mCRC) 1L (PoC) HLX22 – Gastric Cancer (GC) 1L (PoC) HLX04-O – wet age-related Macular Degeneration (wAMD) (PoC)	HLX10 – Non-squamous Non-Small Cell Lung Cancer (nsNSCLC) 1L (Pivotal) HLX208 – metastatic Colorectal Cancer (mCRC) (PoC)	<ul> <li>HLX07 – Nasopharyngeal Carcinoma (NPC) 1L (PoC)</li> <li>HLX10 – Extensive Stage Small Cell Lung Cancer (ES-SCLC) 1L (US) (bridging)</li> <li>HLX208 – Anaplastic Thyroid Cancer (ATC) (PoC)</li> <li>HLX208 – Melanoma (MEL) (PoC)</li> <li>HLX208 – Brain tumour (BT) (PoC)</li> <li>HLX208 – BRAF V600E mutation Langerhans Cell Histiocytosis (LCH) and Erdheim-Chester Disease (ECD)</li> <li>HLX26+HLX10 – MSS metastatic Colorectal Cancer (mCRC) 3L+ (PoC)</li> </ul>
New Phase 3		HLX10 – metastatic Colorectal Cancer (mCRC) 1L	HLX22 – Gastric & Gastroesophageal junction cancer (GC&GEJ) 1L HLX301 – Non-Small Cell Lung Cancer (NSCLC) 1L



## **Serplulimab: Clinical Trials on Major Oncology Indications**

Serplulimab approved for 10+ clinical trial projects in China, the US, the EU, etc.

NDA	Phase 3	Phase 1/2		
sqNSCLC 1L Serplulimab + Chemo NMPA NDA under review Readout expected in Sep 2022 # of patients enrolled: 537	ESCC 1L Serplulimab + Chemo Ph 3 met primary study endpoints (OS & PFS) # of patients enrolled: 551	HCC 1L Serplulimab + HANBEITAI (bevacizumab) + HLX07 (EGFR) Ph 2 IND approved in Apr 2022 first patient to be enrolled		
ES-SCLC 1L Serplulimab + Chemo NMPA NDA under review # of patients enrolled: 585	Neo-/adjuvant GC Serplulimab + Chemo Ph 3 first patient dosed Dec 2019 Readout expected in 3Q24 # of patients enrolled: 284	HNSCC 1L Serplulimab + HLX07 (EGFR) Ph 2 IND approved in July 2020 Readout expected in 1Q24 # of patients enrolled: 13		
ES-SCLC 1L Serplulimab + Chemo FDA ODD Apr 2022 FDA BLA expect to file in 4Q23	nsNSCLC 1L Serplulimab + HANBEITAI (bevacizumab) + Chemo Ph 3 first patient dosed in Dec 2019 Readout Expected in 1Q23 # of patients enrolled: 643	sqNSCLC 1L Serplulimab + HLX07 (EGFR) Ph 2 first patient dosed Jan 2022 Readout expected in 3Q22 # of patients enrolled: 14		
ES-SCLC 1L Serplulimab + Chemo EMA MAA Expect to file in 1Q23	LS-SCLC 1L Serplulimab + Chemo + Concurrent Radiotherapy Global multi-centre trial Ph 3 first patient dosed in May 2022 # of patients enrolled: 28	mCRC 3L+ Serplulimab + HLX26 (LAG-3) Ph 2 clinical trial to be started in 2H22 Ph 1 is currently ongoing		
	mCRC 1L Serplulimab + HANBEITAI (bevacizumab) + Chemo Ph 2/3 First Patient Dosed in Mar 2021 Readout Expected in in 4Q22 (IDMC) # of Patients Enrolled: 121			



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# Serplulimab Global Layout: Clear Registration Plan on BLA in the US and MAA in the EU

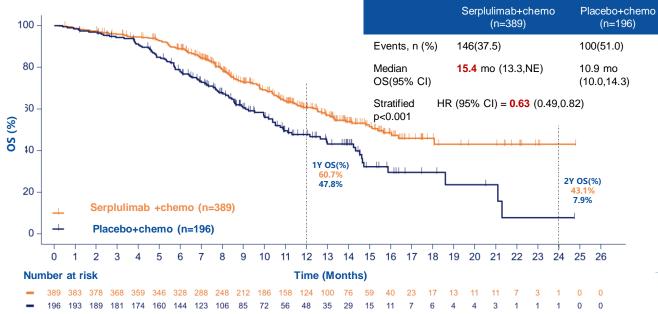
#### **Visionary Global Layout**



- Actively filling the gap in **1L SCLC** in the **next 5 years**.
- Based on the positive feedback received from FDA on March 2, 2022 regarding our ES-SCLC submission, and the results of the FDA Type C Meeting held on July 12, 2022, Henlius is planning to recruit 100 pairs of patients in the US for the bridging study. Expect to submit BLA to FDA by the end of 2023.
- After receiving positive feedback from the EMA Scientific Advice Working Party on Serplulimab ES-SCLC indication treatment on May 19, 2022, we expect to submit MAA to EMA in 1Q23.
- Reached a license-out agreement with KG Bio to develop, manufacture and commercialise Serplulimab in 10 Southeast Asian countries.



# Serplulimab: Presented Orally at ASCO, Shows Extraordinary Clinical Data for 1L ES-SCLC



	PD-L1	IMpower133 Atezo + Carboplatin + Etoposide <sup>1</sup>	403 Patients		12.3	Month	S			
I	nhibitor	CASPIAN Durvalumab + Platinum+ Etoposide <sup>2</sup>	805 Patients			12.9	Months			
	PD-L1 + TIGIT	SKYSCRAPER-02 Tiragolumab + Atezo +Carboplatin + Etoposide³	490 Patients				13.6 Mc	onths	- Failed	
		ASTRUM-005 Serplulimab + Carboplatin + Etoposide <sup>4</sup>	585 Patients						15.4 Months	
	PD-1 Inhibitor	KEYNOTE-604 Pembrolizumab + Platinum + Etoposide <sup>5</sup>	453 patients	10.8 months	6		- Failed			
		EA5161 Nivolumab+ Platinum + Etoposide <sup>6</sup>	160 patients	11.3 Mon	ths		- Failed			
No	t a head-to	-head study	10 11	12	13		14	15	16	

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#### ASTRUM-005

Serplulimab, A Novel Anti-PD-1 Antibody, Plus Chemotherapy versus Chemotherapy as First-Line Treatment for Extensive-Stage Small-Cell Lung Cancer: An International Randomized Phase 3 Study

#### Ying Cheng, MD

Jilin Cancer Hospital, Changchun, China

Ying Cheng<sup>1</sup>, Liang Han<sup>2</sup>, Lin Wu<sup>3</sup>, Jun Chen<sup>4</sup>, Hongmei Sun<sup>5</sup>, Guilan Wen<sup>6</sup>, Yinghua Ji<sup>7</sup>, Mikhail Dvorkin<sup>8</sup>, Jianhua Shi<sup>9</sup>, Zhijie Pan<sup>10</sup>, Jinsheng Shi<sup>11</sup>, Xicheng Wang<sup>12</sup>, Yuansong Bal<sup>13</sup>, Tamar Melkadze<sup>14</sup>, Yueyin Pan<sup>15</sup>, Xuhong Min<sup>16</sup>, Maksym Viguro<sup>17</sup>, Wenying Kang<sup>18</sup>, Qingyu Wang<sup>18</sup>, Jun Zhu<sup>18</sup>, ASTRUM-005 Investigators;

Usilin Cancer Hospital, Changchun, China, "Kuzhou Central Hospital, Xuzhou, China, "Human Cancer Hospital, Changsha, China, "Tanjin Medical University, Nachal Hospital, Tanjin, China, "Usimusi Cancer Hospital, Jamusi, China, "The First Affiliated Hospital of Nanchang Diurversity, Nachang, China, "The First Affiliated Hospital of Nanchang Diurversity, Nachang, China, "The First Affiliated Hospital of Nachang Networks, Nachang, China, "The First Affiliated Hospital of Dachage Diurversity, Nachage China, "The First Affiliated Hospital of Zheijang University, Stendord Index (Stendord Ling), "China, "Chang, China, "Chang, China, "Chang, China, "Chang, China, "China, "Chang, China, "Chang, China, "China, "China, "Chang, China, "China, "Chang, China, "China, "

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ANNUAL MEETING		Ying Cheng, MD	author, licensed by ASCO. Permission required for reuse.	ENOWLEDGE CONQUERS CANCER

- Serplulimab combo with chemotherapy showed consistent benefits in OS, PFS, ORR and DOR. Long-term efficacy benefits were also observed;
  - mOS: 15.4 vs 10.9 months, HR=0.63, p <0.001
  - mPFS: 5.7 vs 4.3 months, HR=0.48
- Serplulimab plus chemotherapy showed a manageable safety profile; no new safety signals were observed during the study
- The Orphan-Drug Designation (ODD) of serplulimab in SCLC has been granted by FDA.



1. Horn L, et al. N Engl J Med. 2018 Dec 6;379(23):2220-2229. 2. Paz-Ares L, et al. 2020 ASCO Abstract 9002. 3. Charles M. Rudin 2022 ASCO 4. Ying Cheng. 2022 ASCO 5. Rudin CM, et al. J Clin Oncol. 2020 Jul 20;38(21):2389-2379. 6. Leal TA, et al. 2020 ASCO Abstract 9000.

# **Serplulimab: Better mOS and HR Results**

#### data cut-off: 2021-10-22

Phase 3 Trial Name	IMpow	ver133	CASPIAN		KEYNOTE 604		ASTRUM-005	
Company	Roc	che	AstraZ	leneca	Merck & Co		Henlius	
Investigational drug	Atezoli	zumab	Durva	lumab	Pembro	lizumab	Serplulimab	
Study design	Randomized Double Blind 2-arm Co-Primary Points: OS and PFS		Open Label 3-arm Single End Point: OS		Randomized D ar Co-Primary Poin	m		ouble Blind 2-arm nd Point: OS
Regimen	Atezolizumab +Carboplatin +Etoposide	Placebo +Carboplatin +Etoposide	Durvalumab+ Platinum +Etoposide	Platinum +Etoposide	Pembrolizum ab+Platinum +Etoposide	Placebo+ Platinum +Etoposide	Serplulimab+ Carboplatin +Etoposide	Placebo +Carboplatin +Etoposide
Number of enrolled patients	201	202	268	269	228	225	389	196
ecog 0/1(%)	35/	(65	36.9	/63.1	26/74		18.3/81.7	
mOS (months)	12.3 v HR =0.76 ( P=0.0	0.60–0.95)	HR=0.75(	rs 10.5 0.62-0.91) 0032	10.8 vs 9.7 HR=0.80(0.64-0.98) P=0.0164		15.4 vs 10.9 HR=0.63 (0.49-0.82) P<0.001	
Median follow-up (months)	13	9.9	14	1.2	21	21.6		2.3
2 Year OS rate	<2	5%	22.	9%	/	,	43	3.1%
mPFS (months)	HR=0.77(0	5.2 vs 4.3 HR=0.77(0.62~0.96) P=0.017		5.1 vs 5.4 HR=0.78 (0.65~0.94)		s 4.3 ).61~0.91) )023	HR=0.48 (	vs 4.3 0.38-0.59) : 0.001
ORR	60.2% v	s 64.4%	67% v	rs 58%	71% vs 62%		80.2% vs 70.4%	
DOR (months)	4.2 v	s 3.9	5.1 v	rs 5.1	4.2vs	s 3.7	5.6 vs 3.2	
1 Liu SV. Reck M Mansfield AS, et al. J Clin Opcol. 2021 Feb 20:39(6)	619-630 2 Goldman JW Dunrkin M Chan V et al	Lancet Oncol. 2021. Jan:22(1):51-65	© 202	2 Henlius				

1. Liu SV, Reck M, Mansfield AS, et al. J Clin Oncol. 2021 Feb 20;39(6):619-630. 2. Goldman JW, Dvorkin M, Chen Y, et al. Lancet Oncol. 2021 Jan;22(1):51-65. 3.Charles M. Rudin, et al. J Clin Oncol. 2020 Jul 20 38(21) 2369-2379. 4. Ying Cheng. 2022 ASCO.

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# Advancement of Clinical Pipeline (Ph 2/Ph 3)

<b>HLX07</b> (EGFR)	<ul> <li>A recombinant humanised anti-EGFR monoclonal antibody, with a LONGER half-life compared with Cetuximab</li> <li>Showed higher safety and antitumour activity in phase 2 clinical trial. The ORR confirmed by IRRC and INV was 38.5%, better than the historical data of 23% (Pembrolizumab)</li> </ul>	<b>HLX208</b> (BRAF V600E)	<ul> <li>Has strong oral bioavailability and safety profile. Expected to be the world's first BRAF inhibitor approved in adult LCH indication treatment</li> <li>Now in phase 2. Expected to be the first BRAF inhibitor to be combined with immunotherapy in China</li> </ul>
<b>HLX22</b> (HER2)	<ul> <li>Targeting distinct epitopes within domain IV of Her2. PDx data demonstrates the combo of HLX22 and Trastuzumab (also target epitope domain IV) excels the combo of Trastuzumab and Pertuzumab in GC</li> <li>Shows big potential for upgrading SoC of 1L metastatic GC/GJC treatment, with a predicted ORR of 85+%, based on current phase 2 data (unblind in Oct.)</li> </ul>	HLX04-0 (VEGF)	Expected to become the first batch of domestic

# HLX22: Great Efficacy in Ph 2 Clinical Trial

#### A candidate of 1L HER2+ gastric cancer treatment with great potential

- 1. HLX22 emerges as a strong candidate with an expected ORR of 85% in HER2+ locally advanced/metastatic GC, based on the efficacy data from a double-blind, randomized, multi-centre Ph 2 study. The subsequent study will continue exploring the synergistic efficacy of HLX22 and Serplulimab
- 2. A global pivotal study for HLX22 in treatment of HER2+ GC 1L is planned in 2023
- 3. Enhertu has yet to initiate Ph 2/3 study in 1L GC. It was approved by FDA for the treatment of patients with HER2+ locally advanced or metastic GC who have received a prior anti-HER2–based regimen(DESTINY-Gastric01) with ORR at 51% vs. 14% (Enhurtu 125pts vs. Chemo 62pts)

<b>Clinical Trial</b>		Regimen	Sample Size	Primary Endpoint	ORR		
HLX22	HLX22-GC-201 Ph 2	HLX22(25mg/kg)+Trastuzumab+XELOX vs HLX22(15mg/kg)+Trastuzumab+XELOX vs Trastuzumab+XELOX	54+128	PFS/ORR	INV : • HLX22 15mg cORR 100%(2/2) • Blind data cORR 77.3% (17/22) Predicted unblind ORR of HLX22 cohorts reaches 85+%		
Pembroli zumab	KN811 Ph 3	Pembrolizumab + Trastuzumab + CF/XELOX vs Trastuzumab + CF/XELOX	732 (1:1) Efficacy based on first 264 pts	PFS/OS	<b>IRRC cORR: 74.4% vs 51.7%</b> (N= 133 vs 131) P = 0.00006		
ZW25	NCT04276439 Ph 2	Tislelizumab+ZW25+Chemo	33	ORR	INV: cORR 75.8%		
SOC	ToGA Ph 3	Trastuzumab+CF/CX <b>vs</b> CF/CX	584 (1:1)	OS	47.3% vs 34.5% P = 0.0017		



# HLX07 (EGFR Inhibitor): Ongoing Clinical Trials

Indications	Strategic Significance	Stage
<ul> <li>HLX07-FIH Solid tumour (ST)</li> <li>HLX07-002 Solid tumour (ST)</li> </ul>	<ul> <li>Phase 1 dose escalation, 19 patients enrolled, no DLTs, ORR 5.3%, mPFS 1.87m.</li> <li>HLX07-002 56 patients enrolled, no DLTs, ORR 16.1%.</li> </ul>	<ul><li>Ph 1</li><li>Ph 1b/2</li></ul>
<ul> <li>Head and neck squamous-cell cancer (HNSCC) combined with serplulimab 1L 2L</li> </ul>	<ul> <li>13 patients enrolled, IRRC-ORR 38.5%, INV-ORR 38.5%, INV-mPFS 5.45 mo, INV-6-mo PFS rate 34.6%.</li> </ul>	Ph 2
<ul> <li>Squamous non-small-cell lung cancer (sqNSCLC) combined with serplulimab+CT 1L</li> </ul>	14 patients enrolled, no DLTs.	Ph 2
Cutaneous squamous cell carcinoma (CSCC) mono 1L 2L 3L	• Expected to be approved for rare diseases and become the first anti-EGFR monoclonal antibody for the treatment of CSCC in China.	Ph 2
<ul> <li>Nonsquamous non-small-cell lung cancer (nsqNSCLC) combined with CT 2L, mono 3L</li> </ul>	• In the first tier for the indication of lung adenocarcinoma (EGFR H score≥200).	Ph 2
Gastric cancer (GC) combined with serplulimab + CT 1L, mono 3L	<ul> <li>Expected to be the first anti-EGFR monoclonal antibody for the treatment of HER2-negative gastric cancer.</li> </ul>	Ph 2
<ul> <li>Esophageal squamous cell carcinoma (ESCC) combined with serplulimab + CT 1L, mono 3L</li> <li>Small-cell lung cancer (SCLC) combined with serplulimab + CT 1L</li> <li>Metastatic colorectal cancer (mCRC) combined with serplulimab + CT 1L, mono 3L</li> <li>Hepatocellular carcinoma (HCC) combined with serplulimab + HLX04 (VEGF) 1L; combined with CT 2L, mono 3L</li> </ul>	<ul> <li>Potentially fill the unmet clinical needs of cetuximab treatment and explore the application of combined with immunotherapy.</li> <li>A variety of animal models have shown the synergistic antitumour effect in EGFR inhibitor combined with PD-1 inhibitor. Worth further exploring the efficacy in tumours with high expression of EGFR and potential indications for phase 3 clinical studies.</li> </ul>	Ph 2



# HLX208 (BRAF V600E Inhibitor): Ongoing Clinical Trials

Indications	Strategic Significance	Stage	
Solid tumour - NeuPharma	<ul> <li>Phase 1 dose escalation with primary efficacy achieved</li> <li>26 subjects evaluable, 20 cases achieved SD, DCR 77%, 13 (50%) cases see SOD decrease</li> </ul>	Ph 1	
Non-Small Cell Lung Cancer (NSCLC)	<ul> <li>Fast to Market Scheme</li> <li>Expected to be the second approved domestic BRAF inhibitor in lung cancer treatment</li> </ul>	Ph 2	
Langenhans cell histiocytosis (LCH) and Erdheim-Chester Disease (ECD)	<ul> <li>Fast to Market Scheme</li> <li>Expected to be the only approved BRAF product (LCH&amp;ECD) in the medium and long term</li> <li>Efficacy was evaluated as CMR and PMR in two patients (based on PERCIST)</li> </ul>	Ph 2	
Metastatic colorectal cancer (mCRC, Mono and Combo)	<ul> <li>Quickly start the first-line Phase 3 clinical trial after getting the efficacy data of HLX208</li> <li>One of the strongest players in terms of development speed</li> </ul>	Ph 2	
Anaplastic Thyroid Cancer (ATC)	<ul> <li>Expected to be the only approved BRAF inhibitor in the medium and long term (ATC)</li> </ul>	Ph 1b/2	
<ul> <li>Melanoma (Mel)</li> <li>Brain tumour (BT)</li> <li>Other solid tumour</li> </ul>	Explore the other potential indications	Ph 2	

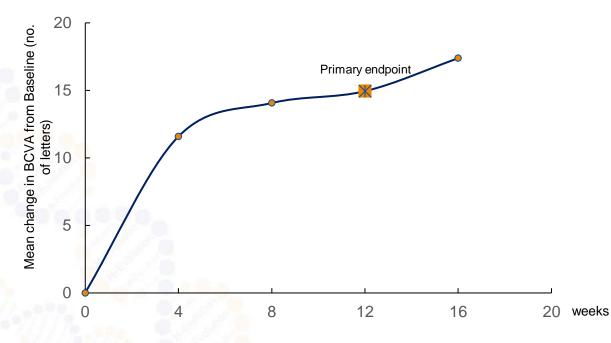


# HLX04-O: Ph 1/2 Showed Safety and Preliminary Efficacy

Clinical Trials	Ph 1	Ph 2	Ph 3
HLX04-O-wAMD-CN01			Ph 1/2, n=20, HLX04-0
HLX04-O-wAMD-CN			
HLX04-O-wAMD-Global			

#### The mean changes from baseline in BCVA of HLX04-O

(HLX04-O-wAMD-CN01 cutoff date: July 7, 2022)



HLX04-O-wAMD-CN01: The results indicated the safety and preliminary efficacy of HLX04-O among patients with wet Age-related Macular Degeneration (wAMD).

The mean improvements of BCVA was 6.6 and 10.7 respectively in the two pivotal Phase 3 trials of Lucentis.

	Baseline	4W	8W	12W	16W
Pts Num.	20	19	17	18	13
Mean Change from Baseline	0.00	11.58	14.06	14.94	17.38
SD	/	13.56	13.14	11.49	14.99



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# Highlights of Early-Stage Clinical Assets (Ph 1/2)

HLX23 (CD73)

- With differentiated mechanism, no hook effect compared to previous CD73 inhibitors
- More significantly and persistently inhibit CD73 activity and induce CD73 internalisation

#### HLX53 (TIGIT)

- Strong immune regulating effects in TME
- HLX53 combo with Serplulimab was observed significantly superior to Tiragolumab combo with Atezolizumab

HLX26 (LAG-3)

- Significant synergy in virous xenograft models (mCRC, NSCLC) in combination with anti-PD-1 antibody
- · Good tolerability and safety profile

#### **HLX60** (GARP)

- Potentially a first-in-class innovative drug
- The first IND in China and the third globally
- Single agent or combo with ICI showed good efficacy in different tumour model

HLX35 (EGFRx 4-1BB)  Potentially a first-in-class innovative drug and the first IND globally

 Potent efficacy by simultaneously blocking EGFR signaling and activating T effector cells and NK cells, and is effective for EGFR antibody insensitive tumours HLX301 (PD-L1 x TIGIT)

- Differentiated molecule design from other competitors
- Significantly superior to Tiragolumab combo with Atezolizumab in different animal models in cancer research

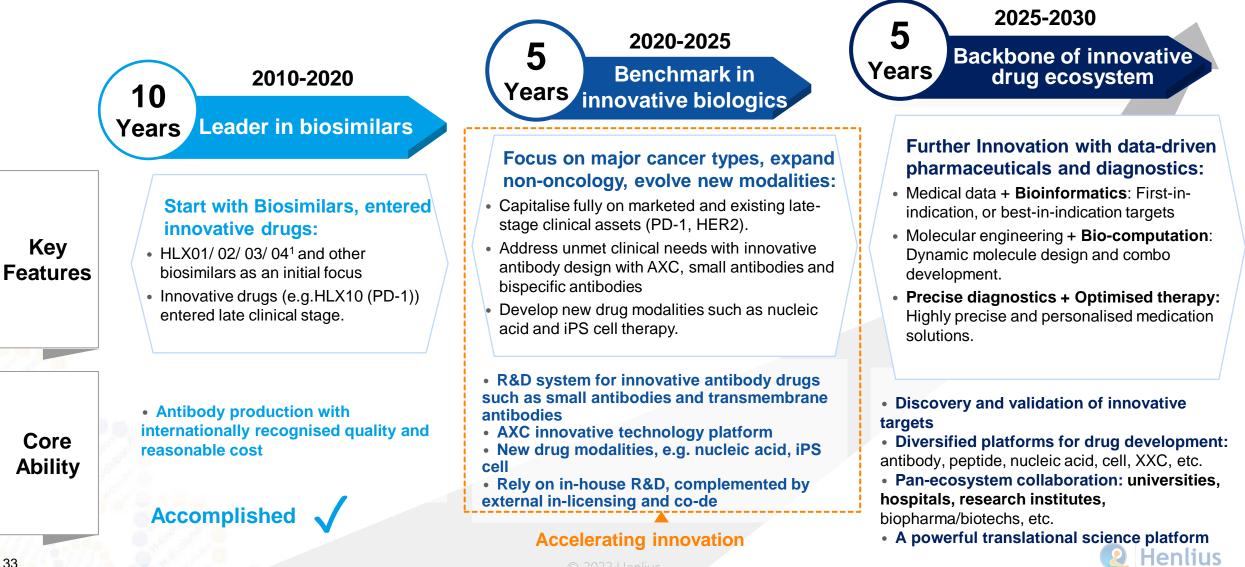


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# **2.3** Early Stage R&D Strategies (Pre-clinical Phase)



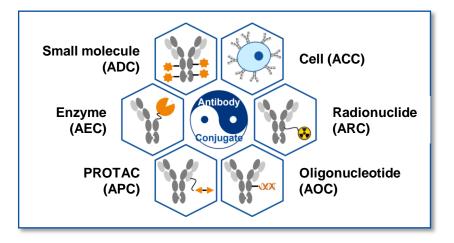
# **R&D Goal: Antibody-centric approach with further innovation to be the backbone of innovative drug ecosystem**



Note: HLX01, Rituximab; HLX02, Trastuzumab; HLX03, adalimumab; HLX04, Bevacizumab

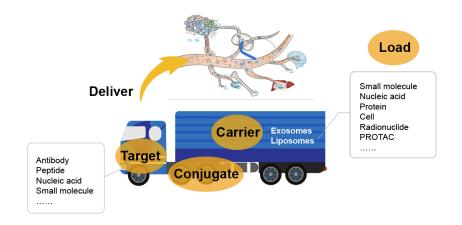
# **R&D Strategy: Build up AXC Platform, Empower Further Innovation**

#### Within 1 Year



- Antibody-centric, Evolved Modality (AXC: Antibody X-molecule conjugate)
- Expected IND: 4-5 ADC and AXC products, including 2 potential first-in-class ADC
   products, which are expected to be submitted for an IND in June 2023
- Completed ADC pilot production workshop construction, will adopt Payload (with intellectual property rights) to develop ADC products
- IND enabling stage: 4 potential first-in-concept products will start IND enabling, as well as 6 potential differentiated innovative Best-in-class products
- Several products for non-oncology indications entered preclinical development stage

#### 1-3 Years



- Expand R&D of XXC products, focusing on developing targeted delivery and blood-brain barrier drugs coupled with exosomes;
- Further develop CAMD (Computation Accelerated Molecule Design) platform to improve molecular design and R&D capabilities
- Focus on nucleic acid drug design and development, iPS cell induction and differentiation technology
- Conduct translational medicine research, improve R&D efficiency through indepth exploration of biological networks and biomarker discovery
- Accelerate the integration and differentiated innovation of China and US R&D centres, push forward talent recruitment schemes, and strengthen methods to introduce outside intelligence

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# **Pre-Clinical Pipeline: Aim to Solve Unmet Medical Needs**

- Induces OX40 clustering through tetravalent binding and exerts immune activation
- **HLX51** (mAb)
- Exhibits dose-dependent tumour-killing effect in multiple tumour models
- Significant synergistic effect with PD1/PDL1 antibodies
  - Significantly outperforms competing molecules, both single and in combination with PD1/PDL1 antibodies

Potential first-in-class monoclonal antibody

- · Clear MOA, unique immune microenvironment modulation effect
- Exhibits good efficacy in a variety of tumour models both single and in combination with immune checkpoint inhibitors
- · Can also develop indications of fibrotic diseases

#### HLXD42 (ADC)

- Potential first-in-class ADC product
- · TME-dependent activation and release of payload
- Good tumour-killing effect against multiple EGFR inhibitor resistant or mutated solid tumours
- Excellent therapeutic window

Pioneering first-in-concept new drug

- Unique MOA, can simultaneously inhibit inflammatory response and promote damage repair
- Exhibits good efficacy in a variety of inflammatory disease models
- Vast disease population, huge unmet clinical needs

#### HLXD43 (ADC)

#### Potential first-in-class ADC product

- TME-dependent activation and release of payload
- Good tumour-killing effect against multiple PD1/PDL1 nonresponding or resistant solid tumours
- Excellent therapeutic window

HLXD307 (rPro)

**HLXD6018** 

(mAb)

HLXD72

(rPro)

- Pioneering first-in-concept new drug
- Unique MOA, can simultaneously lower blood sugar and promote kidney damage repair
- Exhibits good efficacy in DKD models
- Vast disease population, huge unmet clinical needs



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# Biosimilar Milestones



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## **Product Pipeline - Biosimilars**

	Products	Targets	Indications	Pre-IND	IND	Phase 1	Phase 2	Phase 3	NDA	Launch	Business Partners
	HANLIKANG (rituximab) <sup>(1)</sup>	CD20	non-Hodgkin lymphoma, chronic lymphocytic leukemia and rheumatoid arthritis <sup>(2)</sup>								Fosunpharma (武道) 多eurofarma 思想医药 Abbott
hed	HANQUYOU (trastuzumab) <sup>(3)</sup>	HER2	breast cancer, metastatic gastric cancer	The first Chine	se mAb biosimilar	approved both in Ch	ina and the EU				Accord To taken Cipla Jacobson Therma Corporation MADxience
Launched	HANDAYUAN (adalimumab) <sup>(4)</sup>	TNF-α	rheumatoid arthritis, ankylosing spondylitis, plaque psoriasis, uveitis								10-1411年 愛万邦医药   FOSUNPHARMA G Getz D B a r m a
	HANBEITAI (bevacizumab) <sup>(5)</sup>	VEGF	metastatic colorectal cancer, non-squamous non-small cell lung cancer								eurofarma
To be comm erciali sed	HANBEITAI (bevacizumab)	VEGF	glioblastoma								
	HLX11 (pertuzumab) <sup>(6)</sup>	HER2	neoadjuvant treatment of breast cancer								Organon
Studies	HLX14 (denosumab) <sup>(7)</sup>	RANKL	osteoporosis	Global multi-cer	tre clinical study						Organon
iical Stu	HLX05 (cetuximab) <sup>(8)</sup>	EGFR	metastatic colorectal cancer, squamous cell carcinoma of the head and neck				l				<u> Singze</u>
Under Clinical	HLX12 (ramucirumab)	VEGFR2	gastric cancer, non-small cell lung cancer, metastatic colorectal cancer								
	HLX13 (ipilimumab)	CTLA-4	melanoma, renal cell carcinoma, metastatic colorectal cancer								
	HLX15 (daratumumab)	CD38	multiple myeloma								

(2) The only rituximab approved for the treatment of rheumatoid arthritis in China.

(3) Approved in nearly 30 countries, including China, the UK, Germany, France and Australia, trade name registered in Europe: Zercepac®, trade name registered in Australia: Tuzucip® and Trastucip®.

(4) Approved by the NMPA in December 2020.

(6) Global commercialisation rights excluding Chinese mainland, Hong Kong, Macao and Taiwan region granted to Organon. (7) Global commercialisation rights excluding Chinese mainland, Hong Kong, Macao and Taiwan region granted to Organon. Clinical Trial Notification has been acknowledged by the Therapeutic Goods Administration in China and Australia. (8) Commercialisation rights in China have been granted to Shanghai Jingze.



## **Globalisation: Out-Licensing in 100+ Countries / Regions**

#### **Out-licensed products:**

- **7** biosimilars: HANLIKANG, HANQUYOU, HANDAYUAN, HANBEITAI, HLX05, HLX11, HLX14
- 3 innovative biological drugs: HANSIZHUANG, HLX04-O, HLX35 (EGFRx4-1BB)



#### 1H22 Biosimilars license-out overseas:

#### Organon\_US\$541M (upfront US\$73M)

HLX11 (Pertuzumab), HLX14 (Denosumab)

Including US\$3M for the exclusive license option for HLX13 (Ipilimumab) Global (ex-China)

#### Abbott US\$4.4M (upfront US\$3M)

HANLIKANG(Rituximab), HANQUYOU (Trastuzumab) Brazil (semi-exclusive)

#### Eurofarma US\$50.5M (upfront US\$4.5M)

HANLIKANG (Rituximab), HANQUYOU (Trastuzumab), HANBEITAI (Bevacizumab)

16 Latin American countries including Brazil (semi-exclusive)

Getz Pharma US\$8M (upfront US\$0.5M)

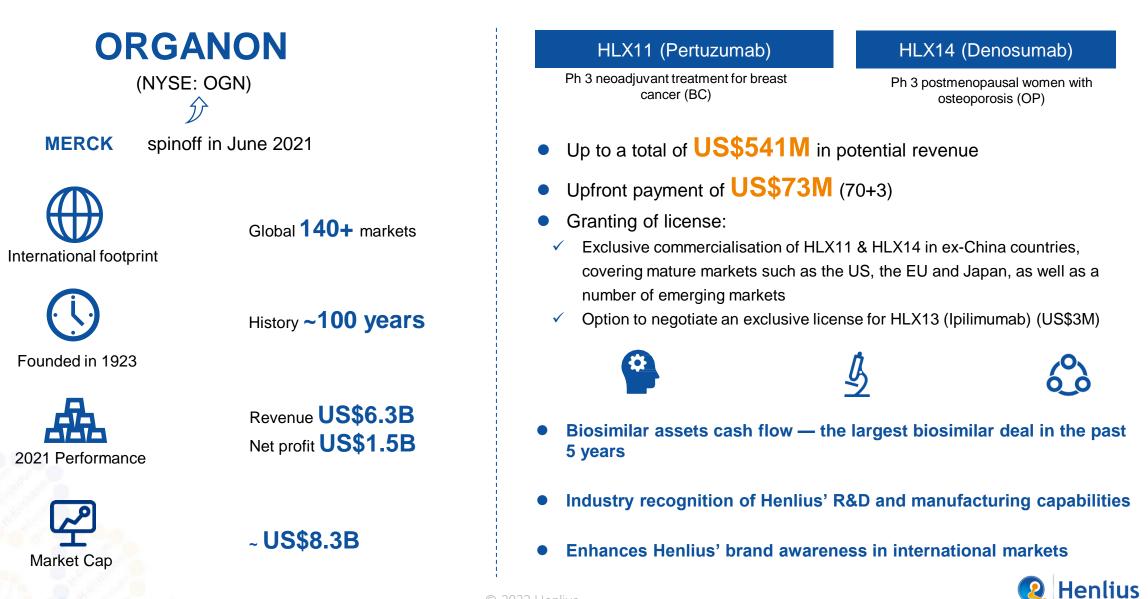
HANDAYUAN (Adalimumab)

11 emerging markets in Asia, Africa and Europe

Sustainable cash flow from upfront fees, milestone payments and royalties ensure long-term organic growth



### **Blockbuster Out-licensing Deal**



## A Leading Global Technology Platform for Biologics: Flexible and Efficient to FIH and Commercialisation

 High throughout developability: selection of robust molecules

#### Upstream

- Stable cell line with high titer
- Proprietary cell culture media development
- Intensified process

#### Downstream

- Superior bispecific antibody purification platform
- Highly concentrated UF/DF process
- Resin/filter sourcing fully localised, cost saving  $\geq$  50%

#### • Drug product

- Liquid: high concentration & subcutaneous formulation
- Drug product differentiation: combination product
- Visible/subvisible particle characterisation and identification

#### Commercial process, product optimisation and characterisation

State-of-art analytical technologies Critical quality attribute dataset Process and product control strategy



# 2.5

## Manufacturing Capacity Breakthroughs

(Strengthen Market Leading Position in Manufacturing Technology & Quality)



## Songjiang First Plant: 24,000L Additional Capacity Approved for HANQUYOU

#### Leading commercial manufacturing capacity

- Total manufacturing capability (SJ1&Xuhui): 48,000L
- Commercial GMP batches: 450+ (2019~)
- Manufacturing success rate: ≥98%
- Manufacturing and quality related employees: 878
- Production intensity: globally leading

## Songjiang First Plant approved for commercial operation in May 2022

- Manufacturing capacity: 24,000L
- Commercial Production approval for HANQUYOU (Trastuzumab)
- Products manufactured for clinical trials in Europe: HLX04-O, HLX11, HLX14, etc

#### Consistent quality management with global GMP standards

- GMP certified in China and the EU, conducive to be recognised by international audiences in different markets
- Constantly improve the quality management system through audits by clients
   and regulatory agencies
- Actively prepare for on-site inspections by FDA, EMA



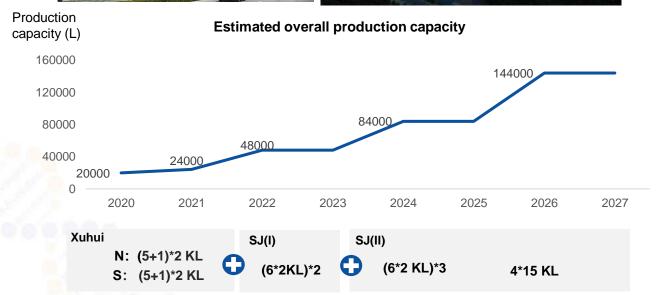
#### Ensure high quality and sustainable manufacturing with global GMP standards



### Production Capacity to Reach 144,000L by 2026







#### Technology upgrade and innovation

- Established new technology platform
- Expanded the cost advantages of commercial production with 15,000L stainless steel bioreactor system
- Optimised process to increase efficiency



#### **Production capacity & business improvement**

- Accelerate Songjiang Second Plant construction to create global leading capacity advantage
- Reasonable layout of production capacity to achieve resource optimisation
- Expand CDMO business segment

## Lean operations drive manufacturing efficiency and cost reduction

- Materials and consumables localisation
- Localised multi-source supply chain management
- ➤ Lean operation, annual revenue ≥10 million

Estimated Songjiang Second Plant phase 1 production capacity up to 96,000



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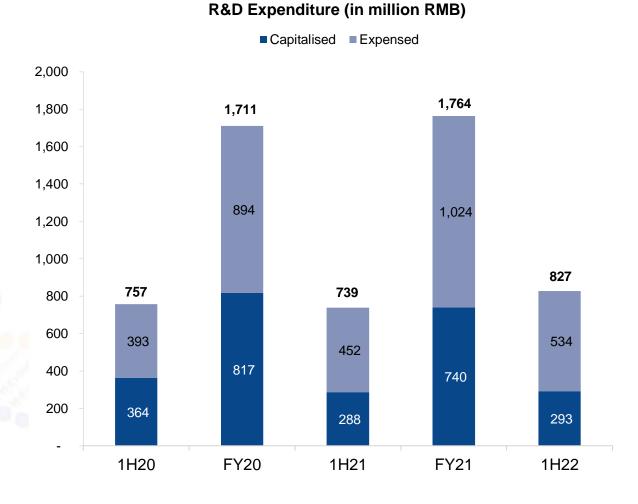
	1H22 In million RMB	1H21 In million RMB	Growth YOY	
Revenue	1,289.4	633.6	103.5%	
Gross Profit	983.8	412.2	138.7%	
Gross Margin	76.3%	65.1%	11.2%	
Operating Expenses*	1,073.7	767.4	39.9%	
Net Loss	(252.1)	(393.8)	36.0%	
CAPEX	472.7	189.8	149.1%	

\* Note: Operating expenses include selling and distribution expenses, research and development expenses, and administrative expenses.

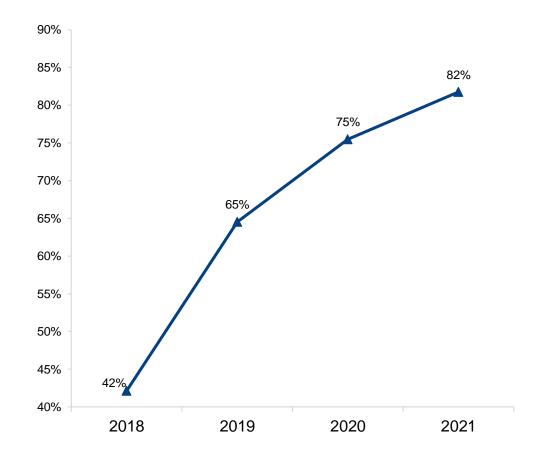
- Rapid growth of total revenue: mainly resulted from the increase of sales volumes of our core products HANLIKANG (rituximab) and HANQUYOU (trastuzumab), and the launch of HANSIZHUANG (serplulimab), as well as growing upfront payments from license-out deals
- Gross profit outgrows revenue, leading to the increase in gross margin: production efficiency improved as production transferred to our new plant, achieving economies of scale while reducing production costs
- Net loss narrows down: efficient management led to income growth and cost reduction



## 1H22 R&D: Invest in Innovative Drugs and Improve Efficiency



**Ratio of Innovative Biological Drugs Expenses** 

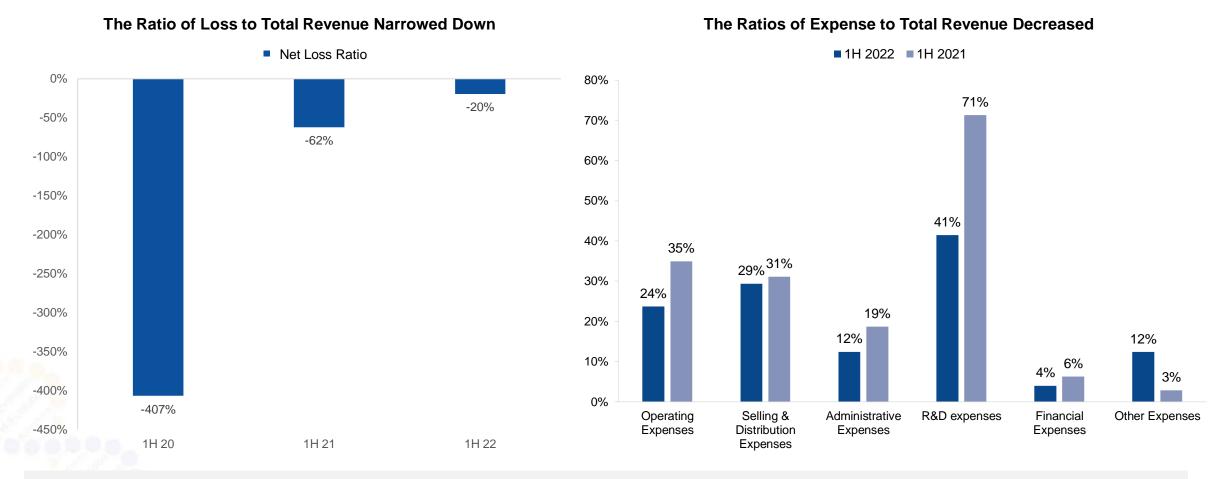


Note: Internal Data



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## 1H22 Profitability: Net Loss Ratio & Expense Ratio Decreased



Losses gradually narrowed and the ratio of loss to total revenue decreased significantly: net loss in 1H22 decreased by RMB 141.7 million to RMB 252.1 million compared with that of 1H21. As revenues rose sharply, the net loss ratio in 1H22 dropped significantly to only 20%.



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## **2H22 Top Priorities for Henlius**

- Registration, R&D and BD
- Well prepared for FDA BLA submissions of HLX02 and HLX10 in 2023
- Global positioning: accelerate clinical trial progresses of HLX10, HLX208, HLX07, HLX22, HLX11/14, HLX04-O across the globe
- Efficient/differentiated early-stage R&D strategy including ADC, multi-specific antibody, and bispecific antibody
- Further optimise R&D strategy, continuously improve mechanisms and capabilities
- BD: Actively seeking license-in to improve company portfolio, keeping up with licenseout for global deployment in the meantime

#### Manufacturing, Quality and Technical

#### Speed up SJ2 Construction; Optimise the efficiency of Xuhui&SJ1

- Speed up SJ2 construction progress to ensure entering commercial production phase in 2024
- Further apply lean management method to maximise the capacity of SJ1
- Optimise overall arrangement of production capacity to improve capital return
- Promote the development of next-generation technology to improve efficiency
- > Promote local sourcing of key materials

#### **Commercialisation**

#### HANQUYOU becomes a market leader HANSIZHUANG exceeds the targets

- > HANQUYOU:
  - Leads the market in HER2 + BC
  - Gains full market access for different specifications (150mg/60mg)
- > HANSIZHUANG:
  - Plans ahead for 2023 to become a toptier player of IO
  - Aims to become China's SCLC market leader in 2023



## Rapidly Evolving from *Biotech* to *Biopharma...*

**2H22 Performance Guidance** 





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Reliable Quality Affordable Innovation

