

### **2021 Annual Presentation** March 2022

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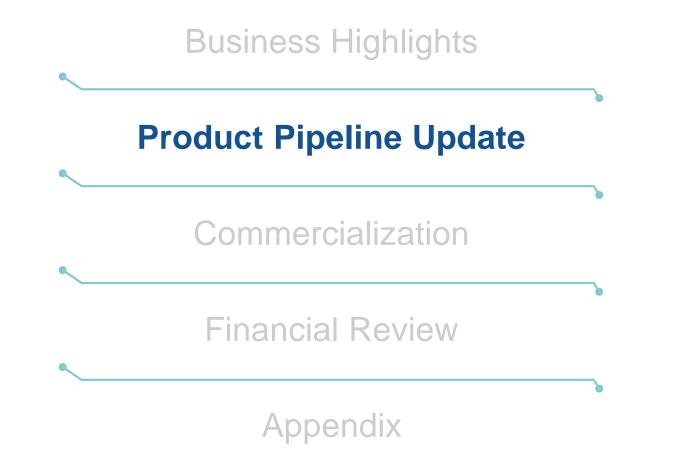
Commercialization

**Financial Review** 

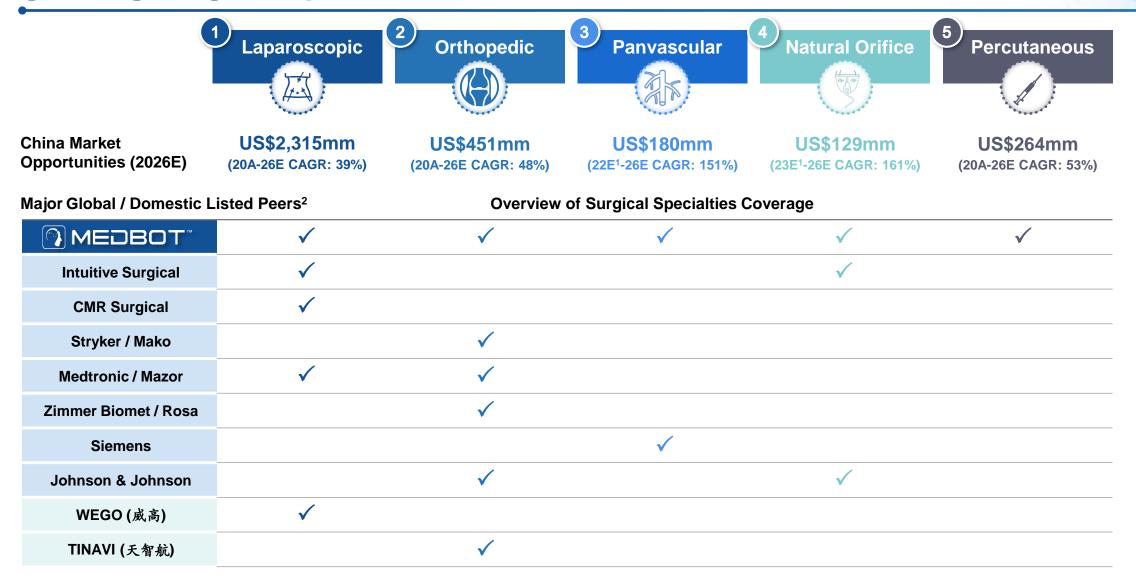
Appendix

### Business highlights in 2021

|                   | Laparoscopic                                                                                                                                                                                                      | Orthopedic                                                                                                                                                                                           |  |  |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                   | Toumai <sup>®</sup> 1 <sup>st</sup> received NMPA approval in Jan 2022                                                                                                                                            | Honghu submitted NMPA registration application for TKA in Jul 2021<br>submitted EDA registration application for TKA in Day 2021                                                                     |  |  |
| <b>~~</b>         | Toumai <sup>®</sup> 2 <sup>rd</sup> completed enrollment of registrational clinical trial covering<br>indications including gynecologic, thoracic and general surgery                                             | submitted FDA registration application for TKA in Dec 2021 Panvascular                                                                                                                               |  |  |
|                   | Toumai <sup>®</sup> single-arm completed first human clinical trial (FIM) of single port<br>laparoscopy cholecystectomy completed in Dec 2021                                                                     | R-ONE <sup>®</sup> commenced the enrollment of the NMPA registrational clinical in<br>Nov 2021                                                                                                       |  |  |
| Product           | <ul> <li>DFVision<sup>®</sup> received NMPA approval</li> <li>Natural orifice</li> <li>Trans-bronchial surgical robot completed the FIM clinical trial in Mar 2022</li> </ul>                                     | <ul> <li>Percutaneous</li> <li>■ Mona Lisa<sup>™</sup> commenced the enrollment of the NMPA registrational clinical in Nov 2021, with most trial surgeries completed as of reporting date</li> </ul> |  |  |
|                   |                                                                                                                                                                                                                   |                                                                                                                                                                                                      |  |  |
| 8 <sup>6</sup>    | <ul> <li>Training:</li> <li>Established 10+ training centers nationwide in 2021, mainly through collaboration with reputable hospitals</li> <li>Provided trainings for nearly 300 surgeons<sup>1</sup></li> </ul> | <ul> <li>Sales:</li> <li>DFVision<sup>®</sup> started to contribute sales from Nov 2021</li> </ul>                                                                                                   |  |  |
|                   |                                                                                                                                                                                                                   | Team:                                                                                                                                                                                                |  |  |
| Commercialization | ■ Toumai <sup>®</sup> Mobile Platform launched in Dec 2021                                                                                                                                                        | A well-trained and experienced marketing team, providing hospitals with<br>training, maintenance for robots, equipment adjustment and other<br>comprehensive services                                |  |  |
|                   |                                                                                                                                                                                                                   |                                                                                                                                                                                                      |  |  |
|                   | Five foundation technologies: robot ontology, control algorithms, electrical engineering, image-based navigation and precision imaging                                                                            |                                                                                                                                                                                                      |  |  |
| ୢୄୣୣୢୖ୳ୢୖ         | Largest surgical robot R&D team in China                                                                                                                                                                          |                                                                                                                                                                                                      |  |  |
| R&D               | 4 R&D centers – Shanghai, Shenzhen, Singapore and Boston                                                                                                                                                          |                                                                                                                                                                                                      |  |  |
|                   | 500+ patents granted or in application globally - No.1 in domestic industry <sup>1</sup>                                                                                                                          |                                                                                                                                                                                                      |  |  |
| <u> </u>          | Successful listed on the Main Board of HKEX on 2 Nov 2021 - First China surg                                                                                                                                      | ical robot company listed on HKEX                                                                                                                                                                    |  |  |
|                   | Raised USD231mm in HK IPO                                                                                                                                                                                         |                                                                                                                                                                                                      |  |  |
| IPO               | Included in Hang Seng Composite Index in Mar 2022                                                                                                                                                                 |                                                                                                                                                                                                      |  |  |



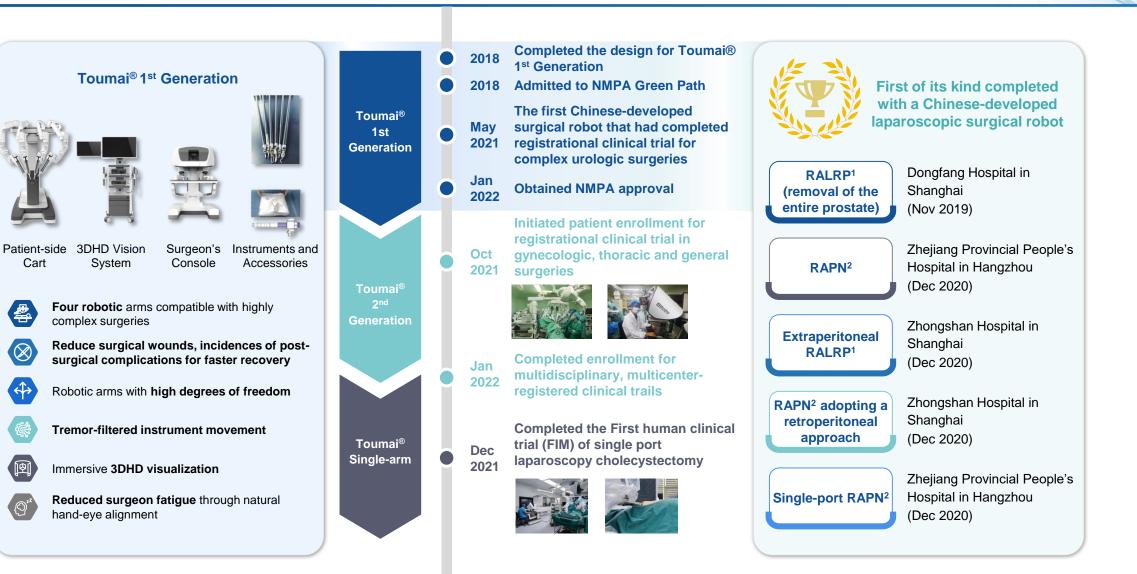
# Only surgical robot company world-wide covering all 5 major and fast-



Source: Frost & Sullivan analysis

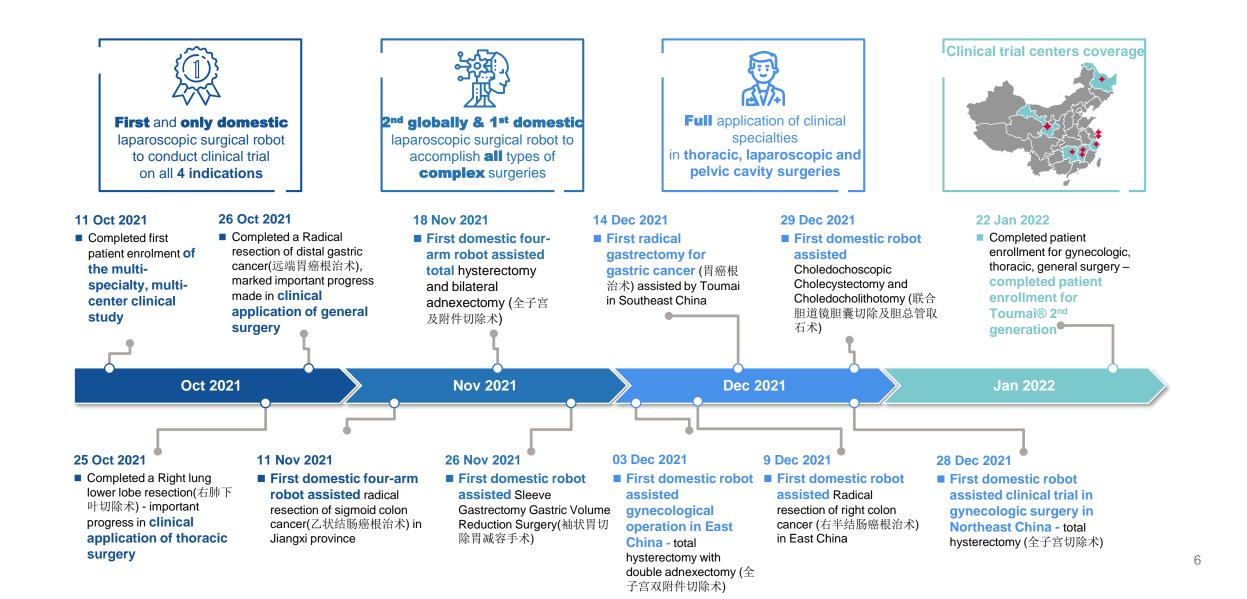
Notes: 1 Expect to have first commercialized surgical robot product in that year; 2 Refers to peers with market cap of over US\$1bn

### Laparoscopic surgical robot Flagship product – Toumai<sup>®</sup> Laparoscopic Surgical Robot



### Laparoscopic surgical robot (cont'd)

### Toumai<sup>®</sup> 2<sup>rd</sup> generation – clinical trial milestone surgeries



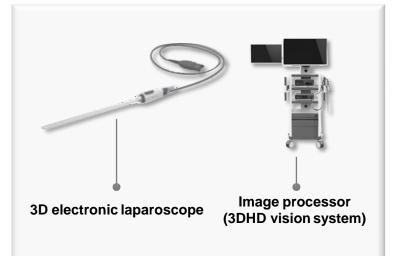
### Laparoscopic surgical robot (cont'd) Flagship product – DFVision® 3D Electronic Laparoscope

- The first Chinese-developed 3D electronic laparoscope admitted to the NMPA Green Path in Apr 2019
- The first surgery completed with Chinese-developed 3D electronic laparoscope in China in Oct 2019
- DFVision<sup>®</sup> I received NMPA approval in Jun 2021
- DFVision<sup>®</sup> II at prototype testing stage, will submit NMPA application in 2022E



#### Light weight

- DFVision<sup>®</sup>'s dual objective lenses are placed at the tip of the borescope
- Easier for surgeons to manipulate precisely, particularly in small surgical fields



**Commercialization Progress** 



#### **Stereo visualization**

The natural depth of field allows the surgeon to have intuitive observation



#### High-definition, real-time image transmission

- Strong image transmission and processing capabilities
  - High magnification feature enables surgeons to zoom in the view smoothly, observe minute blood vessels clearly and operate with greater precision

## Kick

Kicked off marketing campaigns for *DFVision*® in 2H 2021



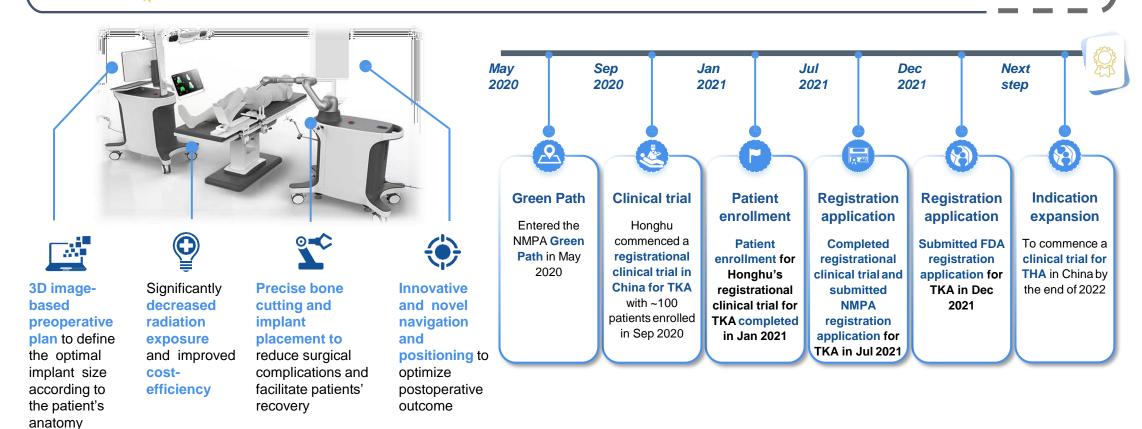
**Commercial launch with sales contribution since 4Q 2021** and promote product awareness among target hospitals and surgeons



To help surgeons gain familiarity with the product and collect feedbacks

### Orthopedic surgical robot Flagship product – Honghu Orthopedic Surgical Robot

The only Chinese-developed joint replacement surgical robot with a self-developed robotic arm. © Expected to be the first Chinese-developed surgical robot to obtain FDA approval



### Natural Orifice Surgical Robot



## Robot-assisted natural orifice surgery

#### Surgery application

- Natural orifice surgical robots refer to robots that deliver surgical instruments to the target anatomy through natural pathways of the human body and control them for diagnosis or surgery
- Natural orifice surgical robots are applied in natural orifice transluminal laparoscopic surgeries, such as







(examination of

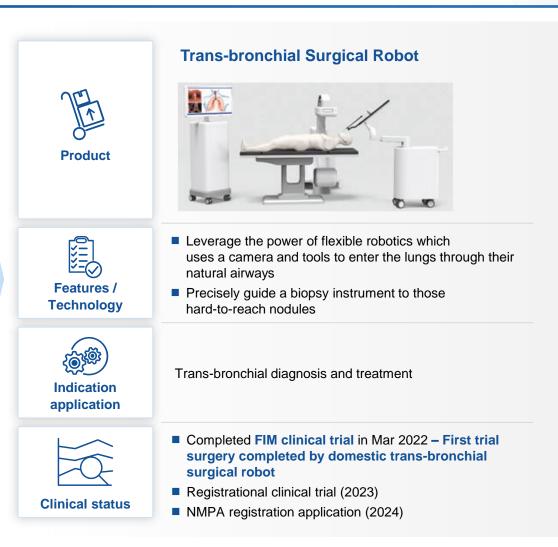
the stomach)

Bronchoscopy (examination of the lungs)

Colonoscopy (examination of the bowel)

#### Competitive landscape

- Globally there are only 3 FDA approved natural orifice surgical robots
- In China, there is no NMPA approved natural orifice surgical robots



### Panvascular Surgical Robot

### R-ONE® Vascular Interventional Surgical Robot



#### **Surgery application**

- Panvascular surgical robots are used to treat diseases of the vasculature or related organs in the heart, the brain or the peripheral vascular system
- Panvascular robots not only move surgeons outside the operating room, but more importantly achieve better precision and controllability of operations

#### Competitive landscape

- Globally there are only 4 panvascular surgical robots approved by FDA or obtained CE Marking
- In China, there is no NMPA approved panvascular surgical robots



### **Percutaneous Surgical Robot**

### Mona Lisa Robotic Transperineal Prostate Biopsy System

#### **Robot-assisted** percutaneous surgeries Surgery application Partner/ Product Percutaneous surgical robots are indicated for percutaneous surgeries, which are primarily procedures to collect tissue samples for diagnostic purposes, such as the detection of early-stage lung cancer, breast cancer and Features / prostate cancer Technology Competitive landscape Indication Globally there are only 4 percutaneous surgical application

- robots approved by FDA or obtained CE Marking
- In China, there are only 2 NMPA approved percutaneous surgical robots

iSR'obot<sup>™</sup> Mona Lisa Robotic **Transperineal Prostate Biopsy** System ("Mona Lisa")



- Real-time 2D ultrasound images displayed on the monitor during the biopsy procedure
- The surgeon manually inserts the needle into the prostate to collect the biopsy cores

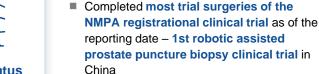
Transperineal prostate biopsy<sup>1</sup> Expect to cooperate with Toumai<sup>®</sup>, providing integrated solutions in urology

FDA approval & CE Marking (2017)

Expect to submit NMPA registration

application in 2022E

China:



#### **Clinical status**





### Cutting-edge technology



**Technology** 

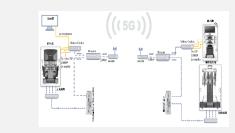


#### Characteristic



#### Progress

#### Remote surgery



- 5G dedicated network, low delay operation
- Multilevel safety mechanism for remote surgery to ensure the safety
- Real-time communication by multi-patry
- Remote control, core parameter return

#### ■ Toumai<sup>®</sup>

- Completed the first 5G Remote animal experiment at three locations

#### Honghu

- Completed the first 5G Remote Joint Replacement Surgery



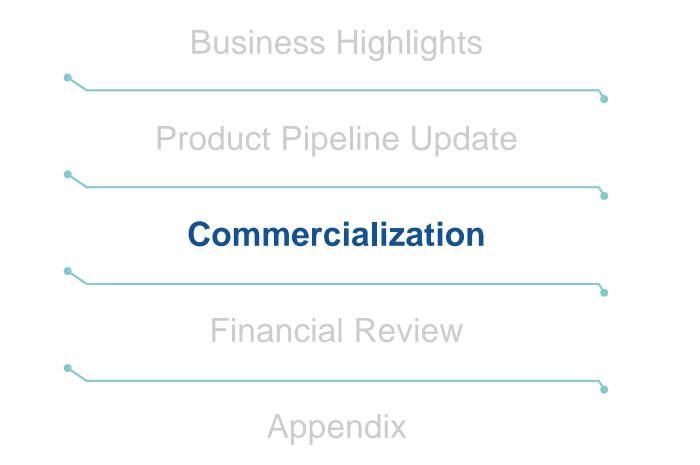




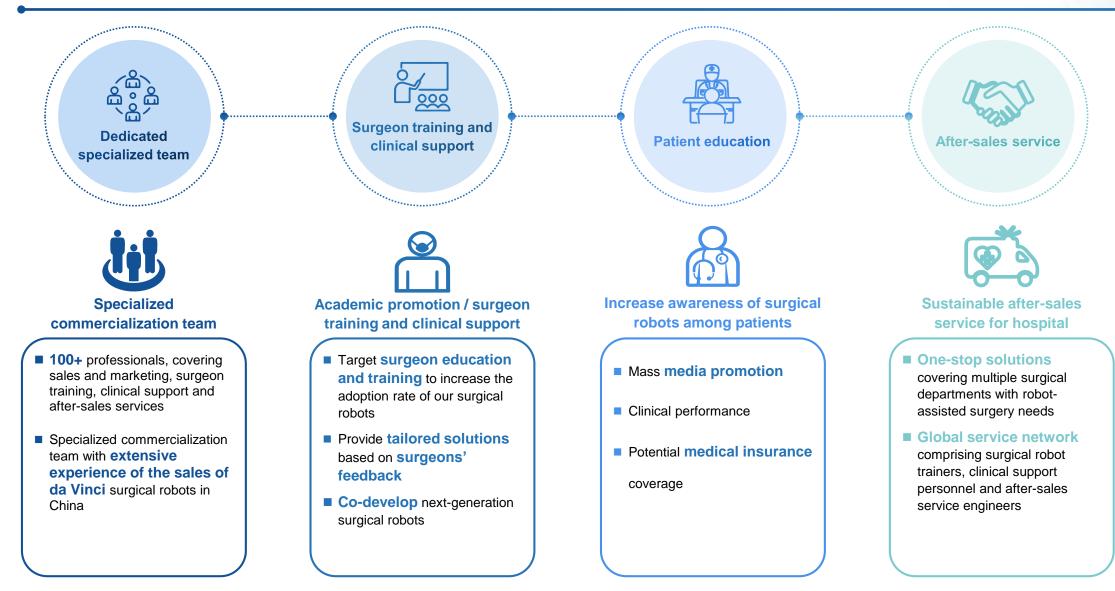
- Intelligence image diagnosis Automatic cutting, diagnosis and positioning
- Intelligence surgery planning Automatic learning to avoid key autonomy structure and establish safe & efficient surgery planning
- Automatic precision treatment precision control of equipment to drive surgery operation and completed automatic surgery closed loop
- Successfully conducted animal testing using unmanned, fully automated surgical platform Madame Curie<sup>™</sup> in Dec 2021





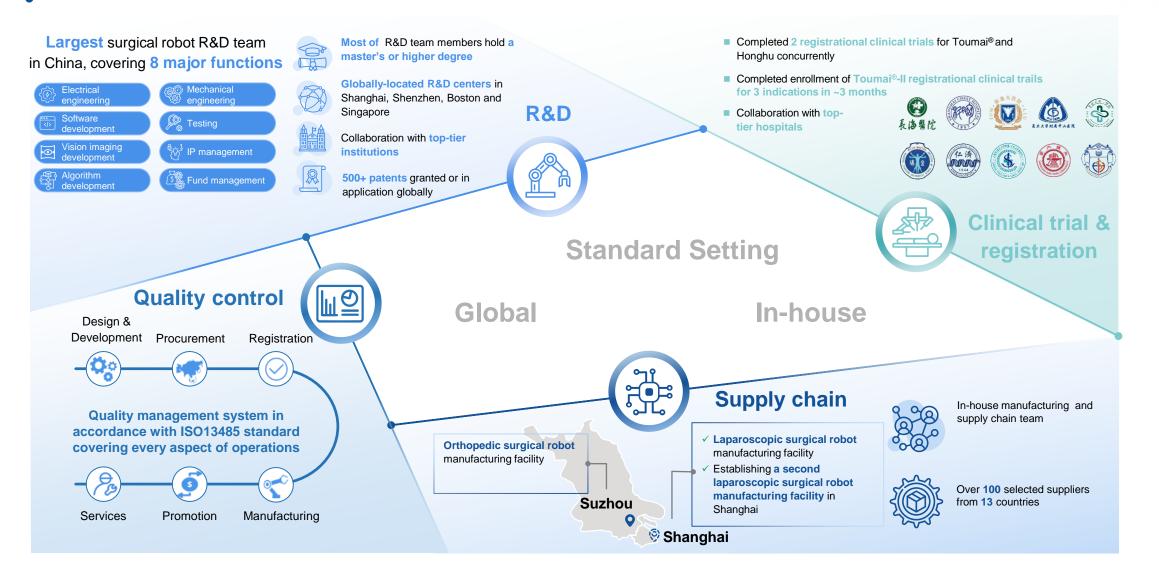


### Experienced team and well-planned strategies for commercialization



#### CONFIDENTIAL

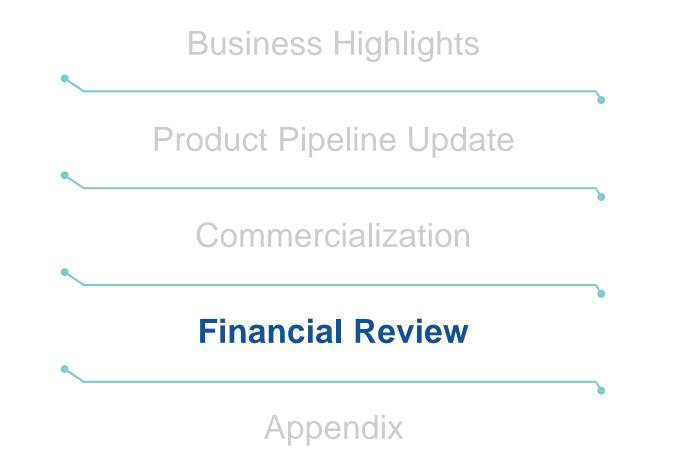
#### Strong industrial operation capabilities for surgical robots



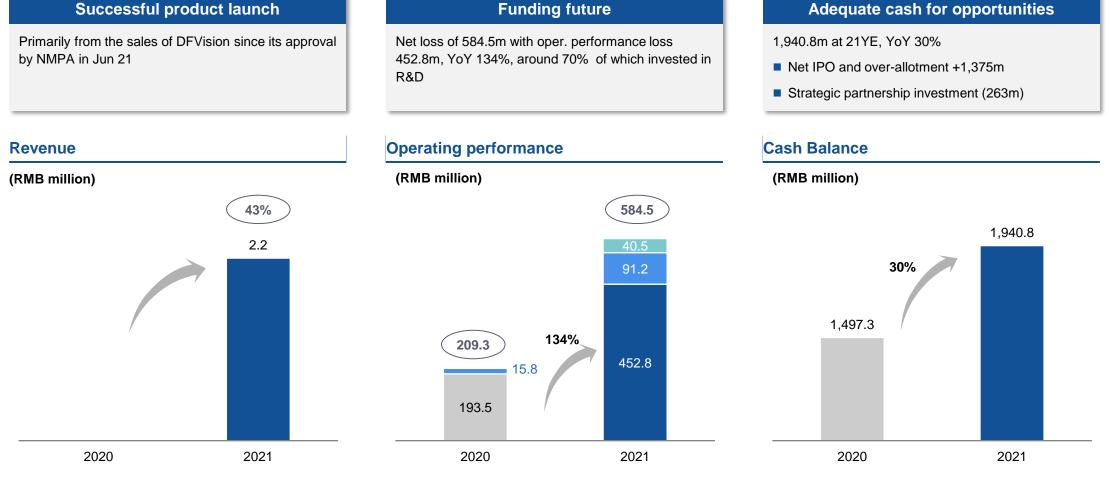
#### Clear global vision and established footprint







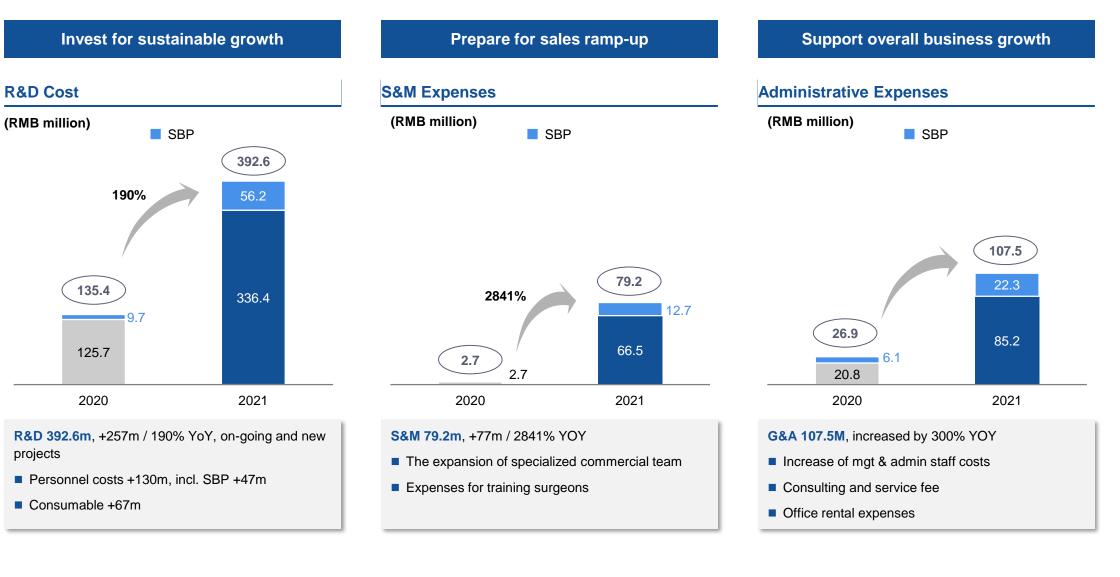
#### Successful product launch, funding future and adequate cash balance



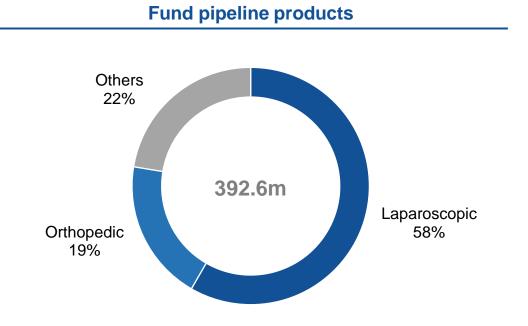
SBP Listing fee

18

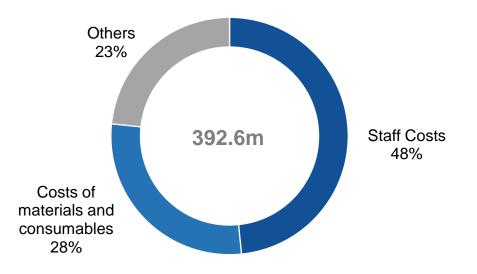
### Investment on future – Operating Expenses



### **Research and Development Cost**



Invest in foundation technologies



- Laparoscopic: Toumai®1st received NMPA approval in Jan 22; Toumai®2rd completed enrollment of registration clinical trial; Single-arm completed FIM
- Orthopedic: Submitted NMPA & FDA registration application for TKA
- Others: Natural orifice and other products

- Staff Costs the largest surgical robot R&D team in China
- Cost of materials and consumables, 4 R&D centers, foundation tech platform and cutting-edge technology progression





### Financial Statement – P&L

| Unit: RMB'000                                                                                | 2021      | 2020      | Var.   |
|----------------------------------------------------------------------------------------------|-----------|-----------|--------|
| Revenue                                                                                      | 2,150     | -         |        |
| Cost of sales                                                                                | (1,231)   | <u> </u>  |        |
| Gross profit                                                                                 | 919       | -         |        |
| Other net income                                                                             | 24,675    | 9,777     | 152%   |
| Selling and marketing expenses                                                               | (79,188)  | (2,693)   | 2841%  |
| Administrative expenses                                                                      | (107,477) | (26,884)  | 300%   |
| Research and development costs                                                               | (392,649) | (135,378) | 190%   |
| Net gain/(loss) on financial instruments carried at fair value through profit or loss (FVPL) | 45,523    | (3,250)   | -1501% |
| Other operating costs                                                                        | (43,498)  | <u> </u>  |        |
| Loss from operations                                                                         | (551,695) | (158,428) | 248%   |
| Finance costs                                                                                | (5,435)   | (49,187)  | -89%   |
| Share of losses of equity-accounted investees                                                | (27,377)  | (1,675)   | 1534%  |
| Loss before taxation                                                                         | (584,507) | (209,290) | 179%   |
| Income tax                                                                                   | -         | -         |        |
| Loss for the year                                                                            | (584,507) | (209,290) | 179%   |
| Attributable to:                                                                             |           |           |        |
| Equity shareholders of the Company                                                           | (582,921) | (208,874) | 179%   |
| Non-controlling interests                                                                    | (1,586)   | (416)     | 281%   |
| Loss for the year                                                                            | (584,507) | (209,290) | 179%   |
| Loss per share (RMB)                                                                         |           |           |        |
| Basic and diluted (RMB)                                                                      | (0.63)    | (0.27)    | 133%   |

#### Financial Statement – Balance Sheet

| Unit: RMB'000                     | 31 Dec 2021 | 31 Dec 2020 | Var.  |
|-----------------------------------|-------------|-------------|-------|
| Non-current assets                |             |             |       |
| Property, plant and equipment     | 361,000     | 38,710      | 833%  |
| Intangible assets                 | 3,074       | 565         | 444%  |
| Goodwill                          | 1,482       | 1,482       | 0%    |
| Equity-accounted investees        | 123,537     | 85,430      | 45%   |
| Financial assets measured at FVPL | 136,586     | 38,366      | 256%  |
| Derivative financial instruments  | -           | 12,676      | -100% |
| Other non-current assets          | 71,979      | 12,075      | 496%  |
| Total Non-current assets          | 697,658     | 189,304     | 269%  |
| Current assets                    |             |             |       |
| Derivative financial assets       | 8,958       | -           |       |
| Inventories                       | 109,881     | -           |       |
| Trade and other receivables       | 24,955      | 16,742      | 49%   |
| Pledged deposits                  | 9,607       | 982         | 878%  |
| Cash and cash equivalents         | 1,940,825   | 1,497,326   | 30%   |
| Total Current assets              | 2,094,226   | 1,515,050   | 38%   |
| Current liabilities               |             |             |       |
| Trade and other payables          | 181,510     | 221,620     | -18%  |
| Provisions                        | 96          | -           |       |
| Lease liabilities                 | 52,863      | 7,288       | 625%  |
| Total Current liabilities         | 234,469     | 228,908     | 2%    |
| Non-current liabilities           |             |             |       |
| Contract liablities               | 102         | -           |       |
| Provisions                        | 397         | -           |       |
| Lease liabilities                 | 151,813     | 11,593      | 1210% |
| Deferred income                   | 14,951      | 22,401      | -33%  |
| Total Non-current liabilities     | 167,263     | 33,994      | 392%  |
| NET ASSETS                        | 2,390,152   | 1,441,452   | 66%   |

| Unit: RMB'000                                                   | 31 Dec 2021 | 31 Dec 2020 | Var. |
|-----------------------------------------------------------------|-------------|-------------|------|
| CAPITAL AND RESERVES                                            |             |             |      |
| Share capital                                                   | 958,594     | 900,000     | 7%   |
| Reserves                                                        | 1,434,548   | 542,856     | 164% |
| Total equity attributable to equity shareholders of the Company | 2,393,142   | 1,442,856   | 66%  |
| Non-controlling interests                                       | (2,990)     | (1,404)     | 113% |
| TOTAL EQUITY                                                    | 2,390,152   | 1,441,452   | 66%  |



## Thanks!



微创机器人 MedBot Surgical (服务号) (订阅号)