

HeartWare Limited (ASX: HTW)

Heart Failure Device Company

Corporate Update

August 2005

Stuart McConchie, Chief Executive Officer



Overview

HeartWare's Product Family

- The HVAD the smallest full output pump in development
- The MVAD the next generation in ventricular support

HeartWare's Market Opportunity

- 10 million people have heart failure, with 1 million new cases per year
- Growing clinical acceptance of device-based treatments
- US\$136,000 approved re-imbursement per patient in the US

HeartWare's Positioning

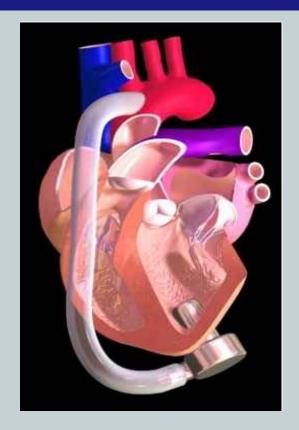
- "Best in Class" technology and outstanding Intellectual Property
- Experienced management and unmatched clinician support
- Aggressive commercialisation path first implant Q1/2006, first revenue 2007



HeartWare's HVAD Device



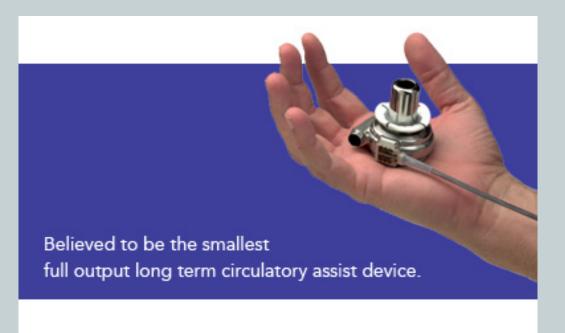
At only 45cc, the HVAD is the smallest full output pump in development



The HVAD is implanted directly in the pericardial space



How the HVAD Works



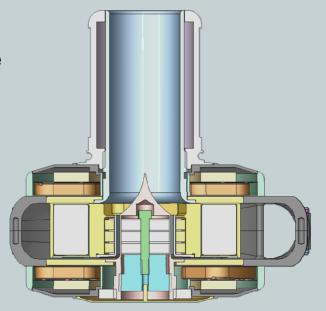
Please see video animation of the HVAD operation, which can be downloaded from HeartWare's website:

www.heartware.com.au



The HVAD's Advantages

- The smallest full output pump in development
 - 45cc / 145g
 - Pericardial placement
 - Shorter and less complex operating procedure
- Fully suspended impeller
 - Only one moving part
 - No mechanical bearings
 - "wearless"
- "Best in Class" Design
 - Proprietary integrated inflow cannula
 - Proprietary wide bladed impeller
 - Superb blood flow characteristics



The MVAD - Next Generation LVAD Technology



- HeartWare's proprietary technology enables the miniaturisation of its devices – one of the company's foremost competitive advantages
- HeartWare's Miniaturised VAD (MVAD) has the potential to revolutionise the LVAD industry:
 - Approximately one tenth the size of the HVAD
 - Implantable by minimally invasive techniques
 - Intra-vascular placement
- The MVAD is approximately 24 months behind the HVAD:
 - Currently in prototype
 - Very promising "bench" performance
 - Animal studies planned to commence this quarter



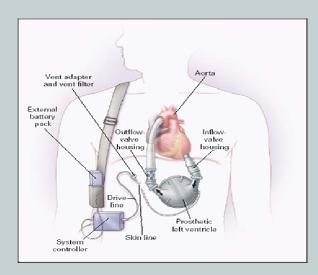
The LVAD Market Opportunity

- Congestive Heart Failure (CHF) will be "the number one cause of death in the world by 2010" (World Health Organisation)
 - 10M people suffer CHF, 5M in the US
 - 1M new diagnoses annually, 0.5M in the US
- The HVAD will address patients in NYHA Class IV (end stage) heart failure
 - 1M patients in NYHA Class IV heart failure
 - Estimated 100,000 patients eligible for an LVAD implant
 - US reimbursement US\$136,000 per procedure (~US\$75,000 for the device)
- The MVAD has potential to target NYHA Class III patients
 - 2.5M patients in NYHA Class III (~1.25M in the US)
 - Generally treated at cardiology centres rather than cardiac surgery centres
 - 250,000 potential additional eligible patients per year

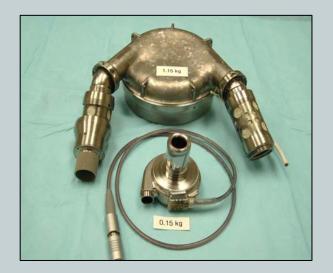


Limitations of Current Devices

- Thoratec's HeartMate XVE is the only LVAD with FDA approval for destination therapy
 - Abdominal placement
 - Long and complex surgical procedure
 - Mechanical Wear 1 to 2 years working life
 - Large size Impacts patient quality of life

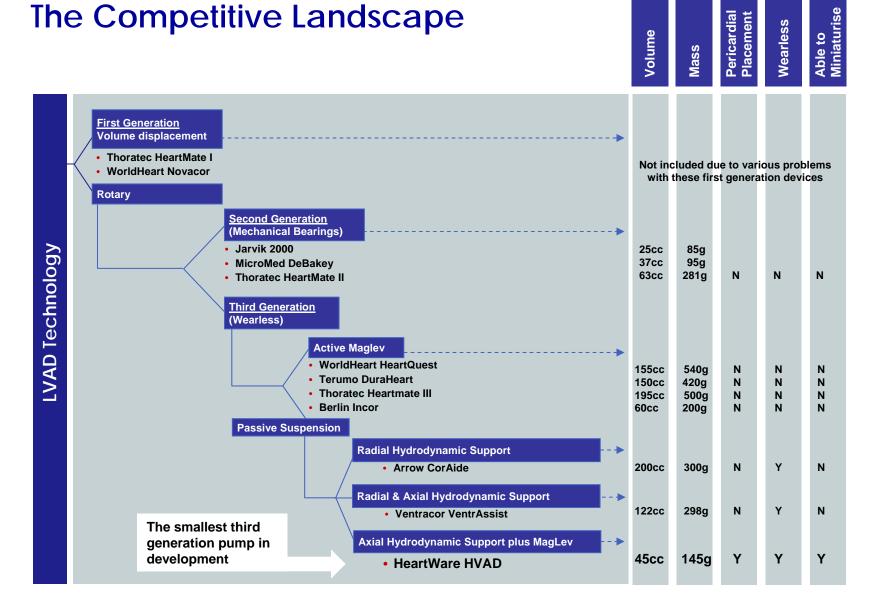


The HeartMate (and all competing full-output pumps) are implanted below the diaphragm



The HVAD is approximately one tenth the size of the HeartMate device

The Competitive Landscape





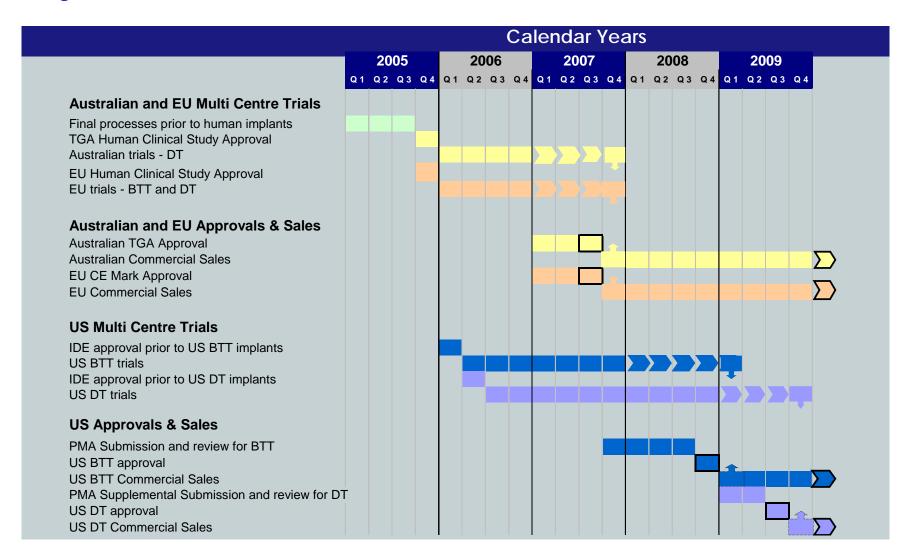
The Competitive Landscape (Cont'd)

- There are 10 second and third generation devices under development, none FDA approved
- Market shares will be determined over the next 5 years by competing devices' relative technical and clinical performances
- The HVAD is expected to demonstrate significant clinical advantages over competing LVAD's

| Company | LVAD | | Ownership | EU Trial | CE Mark | US BTT Trial | US DT Trial | FDA Approva | Notes |
|----------------|---------------|----|--------------|----------|---------|--------------|-------------|-------------|--------------------------------------------------------------|
| Jarvik Heart | Jarvik 2000 | 2G | Private | | | | | | May-05 CE mark for BTT and DT. US BTT trial underway. |
| MicroMed | DeBakey | 2G | Private | | | | | | May-01 CE mark for BTT and DT. US BTT and DT trial underway. |
| Thoratec | HeartMate II | 2G | NASDAQ | | | | | | US trial commenced Nov 03. First to include both BTT and DT. |
| Berlin Heart | Incor | 3G | Private | | | | | | April-03 CE mark based on 26 patients. No US trials. |
| Terumo | DuraHeart | 3G | Tokyo EX | | | | | | EU trial commenced Jan-04. |
| Arrow | Coraide | 3G | NASDAQ | | | | | | EU trial suspended, resumed in Feb-05. |
| Ventracor | VentrAssist | 3G | ASX | | | | | | May-05 First EU implant. Jul-05 First US implant |
| Thoratec | HeartMate III | 3G | NASDAQ | | | | | | Early preclinical development. |
| WorldHeart | HeartQuest | 3G | NASDAQ | | | | | | Aims to start trials in 2006. |
| HeartWare | HVAD | 3G | ASX | | | | | | Trials to commence early 2006. |
| Stage Complete | | | Stage Underv | vay | | | | | BTT - Bridge to Transplant DT - Destination Therapy |



Key Milestones to Market





Advancing Towards the Clinic

HVAD GLP Studies Nearing Completion

- Six sheep successfully implanted under the GLP program
- Four studies complete, with the devices removed after 90 days
- Fifth study due for completion in August 2005
- Over 12 months cumulative GLP experience
- Pathology tests confirm that the devices are performing well
- Data to support applications to commence clinical trials

Life Cycle Testing Underway

- Test platform to simulate long term real world operating conditions
- Platform operational and pumps performing well
- Data accumulating in support of regulatory submissions



Advancing Towards the Clinic (Cont'd)

Participation of Clinical Trial Centres Confirmed

- Parallel participation of up to 7 hospitals
- Five European Centres UK, Germany, Austria and Italy
- Two Australian Centres

Trial Protocol Established

- Refined in collaboration with investigators and Advisory Board
- Submission to ethics committees in Q4 2005

Clinical Timeline Remains on Track

- Q1 2006: First implant in Europe / Australia
- Q2 2006 : First implant in the US



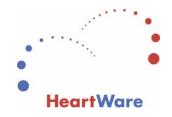
Update on Patent Dispute

Developments

- Dec 04: Ventracor initiates legal action against HeartWare subsidiary HeartWare, Inc., alleging infringement of two patents in the US
- Feb 05: HeartWare files "Motion to Dismiss" on grounds of "Safe Harbour" exemption
- June 05: Court orders Discovery
- August 05: HeartWare lodges its defence and counterclaims

HeartWare's Position

- HeartWare denies any infringement of Ventracor patents
- HeartWare claims that the Ventracor patents are invalid and unenforceable
- HeartWare has filed six counterclaims and is seeking costs and damages
- HeartWare has an exceptionally strong IP portfolio including 25 issued patents in the US, Europe and Australia, with 1996 earliest priority dates



Board of Directors

| Name | Role | Relevant Experience |
|----------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rob Thomas | Non Executive Chairman | 30 years experience in securities industry Previously Chairman, Citigroup Australia, CEO of Salomon Smith Barney, CEO of County NatWest Securities Directorships include Deputy Chairman of Benitec Limited |
| Seth Harrison, MD | Deputy Chairman, Non-Executive Director | Qualified surgeon, Presbyterian Hospital, New York 14 years in life science venture capital 8 years with HeartWare as an investor Number of successful biomedical and biotech start ups |
| Stuart McConchie | CEO, Managing Director | 25 years in medical device industry internationally Over a decade in heart failure devices – Jarvik Heart Inc Based in Sydney |
| Dr Christine Bennett | Non Executive Director | Qualified paediatrician and previous advisor to Health Dept Currently CEO of Research Council of Australia Limited Previously CEO Westmead Hospital, Head of KPMG Health Number of directorships including Resonance Health Limited |
| Dr Denis Wade AM | Non Executive Director | Formerly Managing Director J&J Research Former Foundation Professor of Clinical Pharmacology, UNSW |



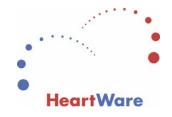
Advisory Board

| Name | Relevant Experience |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bud Frazier, MD (Texas Heart Institute) | Chairman of Advisory Board Chief of Transplant Services, Texas Heart Institute Implanted almost 300 LVADs |
| Steven Boyce, MD (Washington Hospital Centre) | Director of Heart Transplantation, Washington Hospital Centre Involved with the development of HeartWare devices since 1996 |
| Leslie Miller, MD (Lillehei Heart Institute University of Minnesota) | Director of Heart Failure/Heart Transplant Program at the University of Minnesota Past President of the International Society for Heart and Lung Transplantation |
| Laman A. Gray, Jr., MD (University of Louisville School of Medicine) | Professor of Surgery and Director of Thoracic and Cardiovascular Surgery at the University of Louisville School of Medicine Was the original investigator for the Novacor VAD System, and implanted the first AbioCor Implantable Replacement Heart |
| Stephen Westaby MD, PhD (John Radcliffe Hospital, Oxford) | Cardiothoracic surgeon, John Radcliffe Hospital Over 500 cardiac operations annually Implanted the longest surviving LVAD patient, Peter Houghton |
| Georg Wieselthaler, MD (Vienna General Hospital) | Clinical Director of Mechanical Circulatory Support, Vienna General Hospital Secretary General of the International Society of Rotary Blood Pumps |



Other Senior Management

| Name | Role | Relevant Experience |
|-----------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| David McIntyre | Chief Financial Officer, Company Secretary (Sydney) | Previously CFO & General Counsel for a listed medical device company Served as a corporate and commercial law specialist at an international law firm, plus senior financial roles at multinationals |
| Jeff LaRose | Chief Technical Officer | Inventor of HeartWare's platform technology 18 years in hydraulic design and blood pump development Leader in Computational Fluid Dynamics modelling |
| Janice Piasecki | VP Regulatory Affairs (Consultant) | 30 years of regulatory experience FDA compliance officer for heart devices Responsible, as VP Regulatory, for bringing Abiomed's TAH to market |
| Jane Reedy | VP Clinical Affairs | 20 years experience in directing clinical affairs, sales and marketing in the circulatory assist device industry Former Director of Clinical Services and market development for Thoratec – integrally involved in bringing HeartMate I to market |
| Bill Rissmann | VP Manufacturing and Product Development | 25 years experience in medical device engineering and manufacturing Involved in the development of over 20 FDA approved medical devices Previous roles with Guidant, Medtronic and St Jude |
| Howard Leibman | Director, Corporate Development (Sydney) | Previously corporate finance executive for a life-sciences investment bank 10 years experience in engineering, venture capital and corporate finance |



HTW Market Statistics

• **IPO, 31 January 2005:** Raised AU\$32.4M / US\$24.95M at

AU\$0.50 per share

Shares on Issue: 155.70 million

Market Capitalisation:
 AU\$70 million (at 45c Share Price)

Cash:
 AU\$23.5 million (at 30 June 2005)

Cash Burn: ~AU\$1.5M per month

• 10 largest holders: 73.9% of total stock

Cornerstone shareholder: Apple Tree Partners

(59.1%, escrowed to Feb 2007)



Important Notice

Not an Offer for Securities

This Presentation does not constitute nor does it contain an offer to buy or subscribe for securities in HeartWare Limited (the "Company").

Restrictions on US Persons

The Company's shares are listed for quotation on the Australian Stock Exchange ("ASX") with a 'FORUS" restriction. The Company's securities have not been registered under the United States Securities Act of 1933 (as amended) and they may not be offered, sold or delivered in the United States, or to, or for the account or benefit of, any US Person, as such term is defined in Regulation S of the US Securities Act. In addition, hedging transactions with regard to the shares may not be conducted unless in accordance with the US Securities Act.

Forward looking Statements

This Presentation contains 'forward looking statements' which involve subjective judgment and analysis and are subject to significant uncertainties, risks, and contingencies, many of which are outside the control of, and are unknown to the Company and its subsidiary. In particular, these forward looking statements are made only as of the date of this Presentation, they assume the success of the Company's business strategies, and are subject to significant regulatory, business, competitive and economic uncertainties and risks. No representation, warranty or assurance (express or implied) is given or made in relation to any forward looking statement by any person (including the Company). In particular, no representation, warranty or assurance (express or implied) is given in relation to any underlying assumption or that any forward looking statement will be achieved. Actual future events may vary materially from the forward looking statements and the assumptions on which the forward looking statements are based. Given these uncertainties, recipients are cautioned to not place undue reliance on such forward looking statements. Subject to any continuing obligations under applicable law or any relevant listing rules of the ASX, the Company disclaims any obligation or undertaking to disseminate any updates or revisions to any forward looking statements in this Presentation to reflect any change in expectations in relation to any forward looking statements or any change in events, conditions or circumstances on which any such statement is based. Nothing in this Presentation shall under any circumstances create an implication that there has been no change in the affairs of the Company since the date of this Presentation.



Thank You

