

#### **October 2015 New York**

# Uscom (UCM) – Global Medical Devices and Revenue Growth

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Executive Chairman/CEO

### The Measure of Life

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## Disclaimer





## Uscom

"A rapidly growing Australian medical device company with world leading products and a strategic global vision..."



## **Uscom**

### "Products generate profit"

Outstanding science Experienced and sector leading people High growth (+50% pa), innovative medical device company Key cardiovascular pulmonary markets with multiple products De-risked technology Strategic growth from recent acquisitions Valuable IP with high margins (75+%) Growth from US focus and reimbursement Marketing of new product lines Fundamentals to drive value Value investment







## Uscom vision

Company of the Year, 2014
Johnson & Johnson Innovation Industry Excellence Awards

"A milestone driven, rapidly growing global medical device company, with real products, real revenue, real growth and an aggressive growth strategy"

Johnson Johnson Innovation





## **Current Business**

- Premium noninvasive cardiovascular and pulmonary monitoring devices
- Addressing the growing threat of superbugs, heart failure, hypertension and asthma
- Validated, clinically accepted, cost and life saving devices with critical applications
- IP protected with regulatory approvals
- Uscom BP+ for market 2016 \$7m over 5years Chinese contract in place
- +50% revenue growth in Asia and Europe, with US market ahead

#### **Corporate**

- ASX listed (UCM)
- Headquartered in Sydney
- Market cap of \$15m
- 92m shares on issue
- Rob Phillips, Founder and CEO, holds 20% of company

#### **Board & Management**

- Rob Phillips, Chairman & CEO
- Sheena Jack, Director (HCF, Moneytime Health)
- Christian Bernecker, Director (Stream)
- Nick Schicht, General Manager

#### **Financials**

- Sales +59% 2015
- Revenue +48% 2015 (\$2+m)
- Cash consumption <\$1m</li>
- Gross Margins ~ 78%
- Cash ~ \$2m



## Strategic growth

Complementary products and technology

#### Fluid, Sepsis & Heart Failure

- US 1.3bn market \*
- CAGR of 7.6%\*
- CE, FDA, TGA, CFDA

## USCOM 1A Cardiac Output Monitoring



## Hypertension & Vascular Health

- US 1.7bn market \*
- CAGR of 11.5% \*
- CE, FDA, TGA

## **BP+**Blood Pressure Monitoring



## COPD & Asthma

- US 400m market \*
- CAGR of 6.5%\*
- CE, TGA, FDA

## **Thor** Pulmonary Monitoring





## USCOM 1A

### Non invasive, accurate, compact technology platform solution Heart failure, hypertension, sepsis

Accurate cardiac output

Cardiac stroke volume

Systemic vascular resistance

Left + right heart measurement



Works with all other hospital equipment

Intuitive touch screen

Real time data

Platform technology with multiple uses

Non invasive, real time, beat-to-beat haemodynamics



## Uscom BP+



# Central BP - New Wave Supra-systolic Oscillometry Central Blood Pressure and Pulse Pressure Wave Analysis The new standard for hypertension

- FDA, CE Mark, TGA approvals
- Supra-systolic Central BP+
- Reliable and
- accurate
- Central and
- Brachial BP
- Replaces sub-systolic methods (cuff)



- Home or clinic
- PPW Analysis
- Results in 30 seconds
- No training required
- Platform technology with multiple uses

Stand alone, non invasive, accurate, compact system

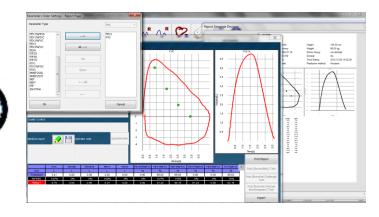


## **Uscom Thor Spirometry**

## Thor (Uscom) – High fidelity digital Ultrasonic spirometry For asthma, COPD, and drug compliance monitoring

- Digital ultrasonic spirometry
- Dual path ultrasonic sensing
- FDA, CE, and TGA approvals
- Reliable and accurate
- Auto calibration
- Research, home and clinic
- Wireless transmission
- Thorsoft analysis software
- FloFree tube low resistance
- Software guided examination and report
- Simple disinfection
- Platform sensors with medical and industrial applications





Stand alone, non invasive, accurate, compact system



## De-Risked technology

#### Featured in 400+ peer reviewed publications and presentations





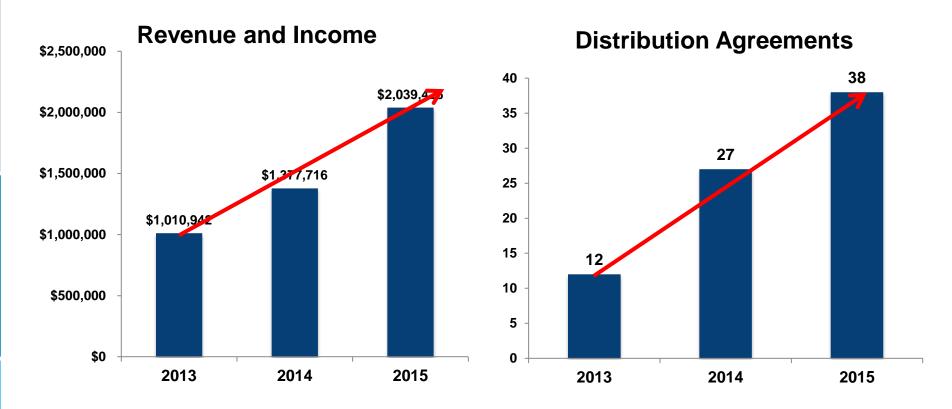
## Global People





**Uscom** 

## Results - Growth



Current revenue only from USCOM 1A BP+ and Thor revenue in 2016 Distribution – sales – revenue



## **New Acquisition**









### Uscom has acquired 100% of Thor Laboratories - Asthma

#### **Company Overview**

- High fidelity digital Doppler spirometers
- Established manufacturing 15 years
- Global reach
- Reimbursement in multiple markets
- Strong R&D and grant history
- Seeking partners in US Home Care + Asthma

#### **Uscom benefits**

- Cash flow positive, revenue of \$500k
- Accredited international manufacturing
- 4 + 3 products, CE, FDA, TGA approvals
- Global distribution
- Technical R&D team 16 engineers
- Marketing and management

Synergy of science, operations and strategy



## New Products – Asthma & COPDs

#### **Products in Market**

#### **Digital Doppler Spirometer**

Home use

#### With Diagnostics and WIFI

Digital wifi spirometer



#### **Professional System**

Desktop with advanced software analytics



#### **New Products**

#### **New - SpiroSpacer**

Drug delivery measure Telemetry to iPhone app Smart spacer Patient interactive



#### **New - SpiroNet**

Digital wifi spirometer Remote clinical monitoring Cloud diagnosis



#### **New - Whistler**

Neonatal Asthma diagnostic





## Thor Manufacturing



- ✓ Global approvals
- ✓ Manufacturing and R&D
- Experienced engineers
- ✓ Established reputation
- ✓ USCOM and BP+ reserve
- ✓ University Budapest links





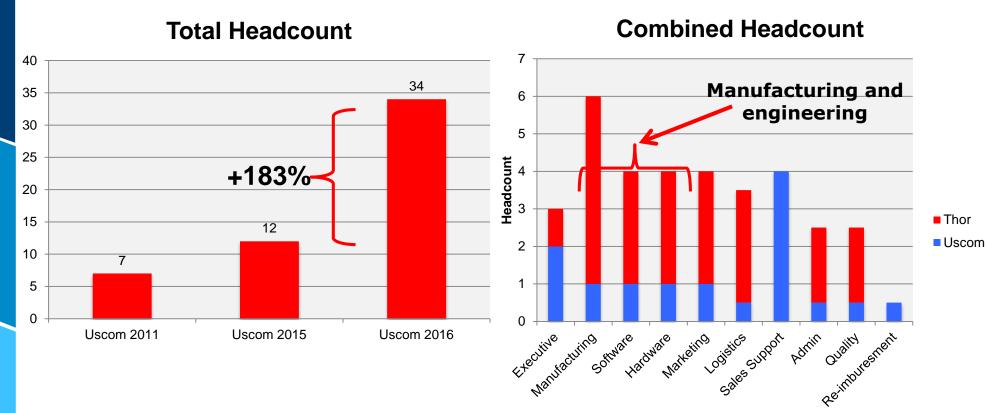






## People and Manufacturing

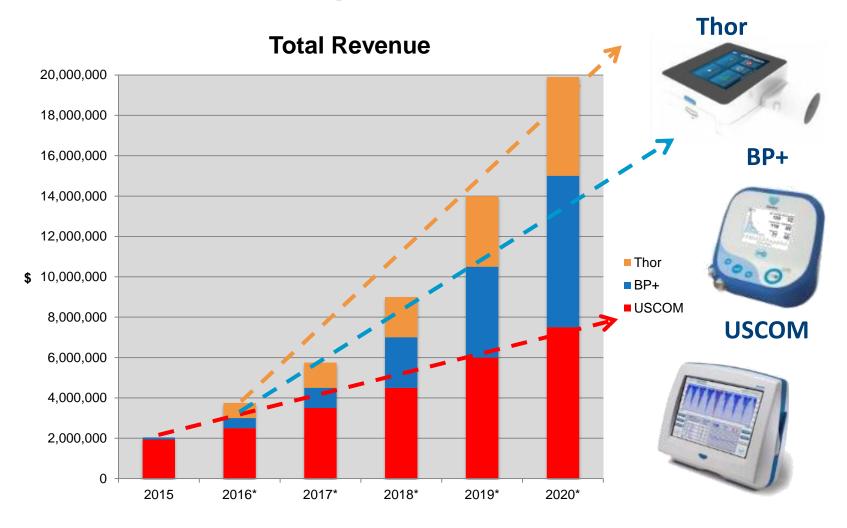
Post acquisition headcount



More people and More Manufacturing = More Revenue



## Revenue Targets





## Maintaining growth

### **Operations growth**

- 1. Uscom Aus
- 2. Uscom UK
- 3. Uscom Budapest
- 4. Uscom USA

#### **Key Markets**

- 1. AsiaPAC 65%
- 2/3. Europe 27%
- 4. Nth America 8%

#### **US Focus 2016**

Stephen Wilson – Former VP Corporate
Development Welch Allyn appointed



## **US Marketing**





@IDEGEN (₹) of



monitoring device for use by general practitioners and patients. Otthon is a compact and mobile solution to screening COPD and asthma.



#### Additional ontions:

#### Integrated Pulse Oximete

#### **Specifications**

- Flow measurement principle: Multiple-path sensor
- · 30mm (OD) flow tube diameter
- Dead Space: 16.8 mL • Flow resolution: 8 mL/s
- Flow range: +-18 L/s
- Dimensions: 35 x 80 x 150 mm
- · BlueTooth connection to mobile devices
- USB connectivity
- Touch screen LCD display
- · Automatic internal calibration

setups and are not in general characteristic for all the provided products and/or technologies



#### Specifications:

- Easily integrated to Hospital
- Automatic internal calibration
- Software upgrade options
- Pharmaceutical testing subsystem
- Easily disinfected with InstruMed
- Flow tube diameter: 30mm

- Flow range: +- 18 L/s . Connection: USB to PC



PC Software

Preliminary specifications, subject to change without prior notice. The listed parameters / featu-setups and are not in general characteristic for all the provided products and/or technologies, Document Rev 0001 Draft 3

#### **SPIRODESK**

WIDEGEN (1)





· Communication options: Bluetooth or USB · Animated medical visualization system . Configurable medical report system with built-in report editor

Diagnostics Desktop Station. It can be connected to BlueTooth or USB. SpiroDesk features a large It then archives measurement results to an integrated database, print spirometry reports and

SpiroDesk is a complete standalone Pulmonary SpiroDesk can be upgraded to a stand alone Cardio-Pulmonary Diagnostic Desktop Station, SpiroTube Mobile Edition and SpiroTube PC via complete with an Oximeter, built-in Thoriax EKG and Cardiax Cardiology Diagnostic Software. touchscreen, an optional integrated Thermo Printer The Cardio-Pulmonary Diagnostic Desktop Station and the ThorSoft Pulmonary Diagnostics Software performs Forced Vital Capacity, Relaxed Vital with an audible automatic decision support system. Capacity, Maximum Voluntary Ventilation, Oximetry and 12-channel ECG with stress tests.

 Device weight: 2500g Dimensions: 290 x 260 x 67 mm
Power Supply: Battery (7200 mAh)
or 9.5V DC adapter

+612 9247 4144

Preliminary specifications, subject to change without prior notice. The listed parameters / features may be for unique setups and are not in general characteristic for all the provided products and/or technologies. Document Rev 0001 Draft 3



## The Future

#### Value Cascade

#### **Products**

**USCOM 1A** 

Uscom BP+

Spirotube

Otthon

SpiroDesk

SpiroSpacer

SpiroNet

ThorSoft

#### Sales

New appointments

Current distribution

Thor distribution

New distribution

Major partners

Re-imbursement

**US** market focus

#### **Operations**

Global operations

Increased products

Increased scale

Cost effective

manufacture

Revenue growth

Profitability

#### **Opportunities**

Share price growth

Dividend

Transaction





## Multiple Products

### Three product ranges entering profit phase

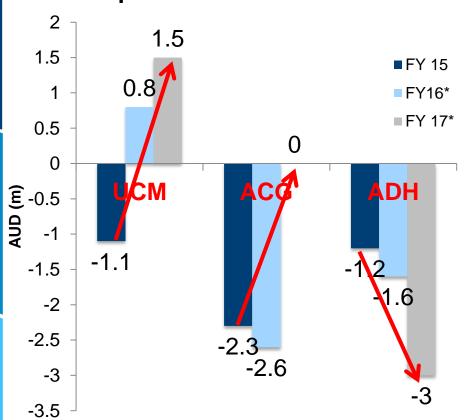
	Concept	Product	Pilot	Validation	Regulatory	Revenue	Global Distribution	Profit 2016
USCOM	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	±✓
Uscom BP+	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	±✓
Thor	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>√</b>

Investment to Profit

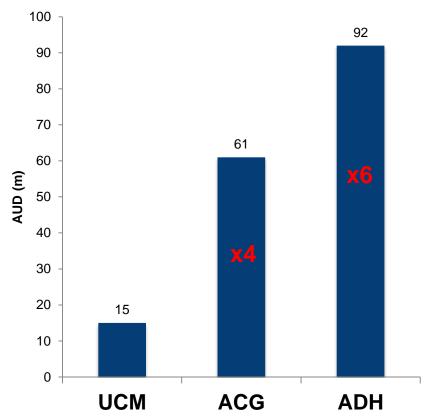


## Industry comparators

#### **Reported and Predicted EBITDA**



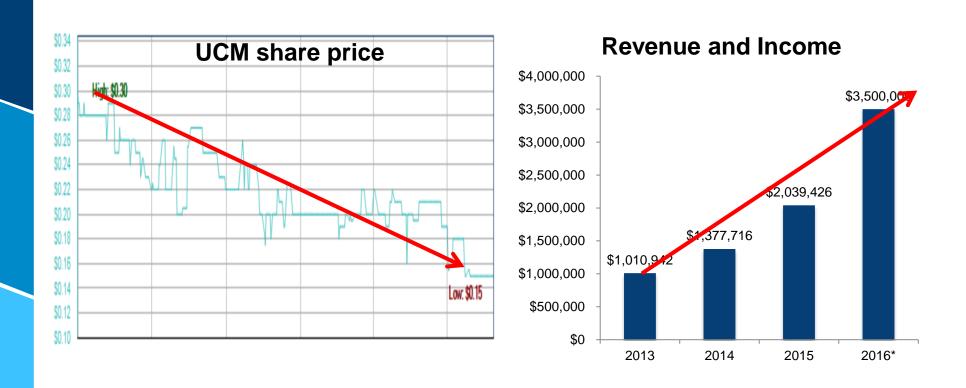
#### **Capitalilsed Value**





## **ASX:UCM**

#### Disconnect between performance and price!





## New Research

**USCOM LIMITED** 



Research Note

GLOBAL LAUNCH OF EXPANDED PRODUCT PORTFOLIO

**Investment Highlights** 

5 October 2015

5 <sup>th</sup> Oct 2015	5 <sup>th</sup> Oct 2016	12mth Change		
0.14c (14m)	0.42c (42m)	+200%		

12 month Projections and price and cap value targets



### Uscom

```
Value investment ✓
             Experienced management 

✓
             Strong underlying business ✓
               Strong growth phase ✓
             Invested in future growth ✓
              Premium global markets ✓
        Diversified and lifesaving technologies ✓
         Aggressive global growth strategy ✓
Two new product ranges for market in the next 12mths√
       Right time − Q1 2016 results imminent ✓
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## **Thanks**

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## **USCOM 1A Competitive Advantage**

Method	Manufacturer	Technology	Rel+Rep	Non- invasive	Simple	Cost	Portable	SV beat to beat
USCOM 1A	Uscom	Doppler	<b>/</b>	<b>/</b>	<b>/</b>	<b>✓</b>	<b>/</b>	<b>/</b>
BioZ	Samsung	BioImpedance	Х	<b>✓</b>	1	Х	1	Х
NiCOM	Cheetah	BioReactance	Х	1	1	×	1	х
Nexfin	Bmeye	APP	Х	<b>√</b>	1	1	1	Х
CardioQ	Deltex	Doppler	<b>&gt;</b>	×	<b>✓</b>	×	<b>✓</b>	×
LiDCO	LiDCO	LiCl dilutio +APP	✓	×	×	×	×	×
LiDCOrapid	LiDCO	APP	×	×	1	×	×	Х
PiCCO (mod Tx + PP)	Pulsion	APP	<b>&gt;</b>	×	×	×	×	X
FloTrac	Edwards	APP	×	×	×	×	×	×
PAC (Tx)	Many	Thermodilution	×	×	×	×	×	×



## **Testimonials**

"This machine is saving lives, there are no two ways about it."

Professor Brendan Smith, Anesthetist, Intensivist and Emergency Physician, N.S.W. Dept of Health, Australia

"USCOM has changed the way I look at the cardiovascular status of my patients.

It's part of the initial shock evaluation and monitored regularly thereafter.... USCOM has now been established as the standard of care."

Dr Akash Deep, Director of Paediatric ICU, King's College Hospital, London

"The USCOM device is a simple method of accurately and noninvasively measuring central circulation, a goal of cardiology for many years. The device has the potential to change the way we approach management of sepsis, heart failure and hypertension."

Professor Malcolm West, Cardiologist, Mayne Professor of Medicine at The University of Queensland School of Medicine, Brisbane, Australia and Uscom Medical Advisory Board Member.

"I have used USCOM for over 5 years now on our very sick children, and use it to guide management. We are now beginning multi-centre, global research which will define the way USCOM is used in Paediatric Departments across the world."

Dr Joe Brierley, Consultant Intensivist, Great Ormond Street Hospital for Sick Children, London, UK.

"The USCOM device is really good; I use it in all my aneasthetics. I think there should be one on every ICU bed and on every anaesthetic patient."

Dr Steve Woodford, Consultant Anaesthetist, circulatory researcher at Australian School of Advanced Medicine, and Uscom Investor,

"To parents and doctors this machine, USCOM, is priceless. This machine is thought to have saved baby Abbie's life.

BBC Documentary "New machine helps save babies life", 2010, Nottingham Children's Hospital



## **BP+ Competitive Advantage**













Uscom

Uscom BP+	TensioMed	BPLab	IEM	Centron	AtCor	
Australia	Hungary	Russia	Germany	UK	Australia	
USD 3,500	USD 6,000	USD 7,000	USD 7,000	USD 6,300	USD 20,000	
1 min	2 min	2 min	2 min	1 min	1 min	
Stand-alone	ABP, needs computer	ABP, needs computer	ABP, needs computer	Stand-alone	Needs computer	
CE, FDA, TGA	CE, FDA, TGA CE		CE, FDA	CE	CE, FDA	
Aortic + brachial Central systolic BP waveform		Rough waveform	Rough waveform	Rough waveform	Rough waveform	
Physical model	Statistical regression	Transfer function	Transfer function	Transfer function	Transfer function	



### Independent research from Cambridge University, Weill Cornell, University of California, Wales Heart Institute — BP+ = Four stars

Method of waveform recording	Device	Company	Method of calibration	Method of estimation	Clinical applicability
Radial tonometry	BPro <sup>86,87</sup>	HealthSTATS	Brachial-radial cuff BP	GTF (radial-aortic)	++
	SphygmoCor <sup>12,88</sup>	AtCor Medical	Brachial-radial cuff BP	(i) GTF (radial-aortic)	+
				(ii) Late systolic shoulder	+
	HEM9000AI <sup>39,77</sup>	Omron	Brachial cuff BP	(i) Algorithm	++
				(ii) Late systolic shoulder	++
Brachial cuff PVP	*ARCsolver <sup>89,90</sup>		Brachial cuff BP	GTF (brachial-aortic)	+++
	Centron cBP301 <sup>35,91</sup>	Centron Diagnostics	Brachial cuff BP	GTF (brachial-aortic)	++++
	Vicorder <sup>92</sup>	Skidmore Medical	Brachial cuff BP	GTF (brachial-aortic)	+++
	XCEL	AtCor Medical	Brachial cuff BP	GTF (brachial-aortic)	+++
	Method of Sung et al. 42		Brachial cuff BP	Algorithm	++
Suprasystolic	Arteriograph 37,93	TensioMed	Brachial cuff BP	Late systolic wave amplitude	+++
brachial cuff PVP	Cardioscope II <sup>36,94</sup>	Pulsecor	Brachial cuff BP	Algorithm	++++

PVP, pulse volume plethysmography; GTF, generalized transfer function.

#### BP+ is on the international space station



<sup>\*</sup>Incorporated in Mobil-O-Graph PWA device (IEM GmbH).

Personal view based on experience, operator-dependency, need for computer/software interface, with + indicating limited applicability to routine clinical practice and + + + + indicating high applicability.

## Thor Competitive Advantage

















Uscom Thor	Welch Allyn	Schiller	Sibelmed	Vitalograph	MIR	Carefusion	NDD
Australia	USA	Switzerland	Spain	USA	Italy	USA	Switzerland
SpiroSonic	SpiroPerfect	Spirovit SP-1	Dataspir Touch	Pneumotrac	Spirodoc	Microloop	EasyOne PLus
USD 1,890	USD 2,100	USD 1,850	USD 2,300	USD 2,030	USD 1,580	USD 2,180	USD 1,990
Dual Path Ultrasound	Diff Pressure	Diff Pressure	Turbine	Diff Pressure	Turbine	Turbine	Single Path Ultrasound
Accurate Auto calibration SpiroReporter Fully digital FreeFlo sensor Hygeinic SpO2 Bluetooth Rechargeable	Multiple iterations	Multiple iterations	Multiple iterations	Multiple iterations	Multiple iterations Conssumable turbines	Multiple iterations	Accurate Consumable tube