AGM Presentation ASX: SE1

Ralph Schmitt November 30, 2018



SENSERA KEY ACHIEVEMENTS FOR FY18+

▶ SIGNIFICANT REVENUE GROWTH AND CUSTOMER COMMITS

- ► FY18 US\$6.35M
- Multi-year Contracts finalized with Smartbow and Abiomed

► ACQUISITION TO SUPPORT VERTICAL INTEGRATION AND BUSINESS GROWTH

► Nanotron Location Aware Technology, revenue and customers

▶ LEADERSHIP TEAM ESTABLISHED

- ► Hiring of CEO, CFO, VP of Sales and Dir of Operations
- Two additional seasoned veterans on the Board

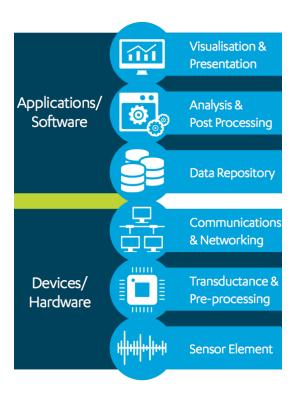
BUSINESS OPERATION IMPROVEMENT

- ▶ Fab production and quality (ISO9000 and ISO13485) standards established
- New supply chain established for Nanotron business
- \$2.3M Credit Facility for Equipment leasing for the fab

BUSINESS DEVELOPMENT

- Decawave UWB Development and Marketing Agreement
- ▶ Joint Software Development for Data Analytics with Clearblade







SENSERA IN FY19

► SIGNIFICANT REVENUE GROWTH SUPPORTING IMPROVED FINANCIALS

- > FY19 >70% growth FY18 US\$6.35M to FY19 US\$10.5M \$11.5M
- ► Contracts in place to support growth
- ► Robust revenue pipeline through Tier 1 channel partners
- On track to operate on a cash flow positive basis by end of FY19

► HIGH GROWTH MULTIBILLION \$ UNDERPENETRATED MARKETS

- Proven commercial adoption in multiple markets -- Medtech, Animal Health and Mining
- ► Low technology risk as deployed in 70+ mines and 400+ farms

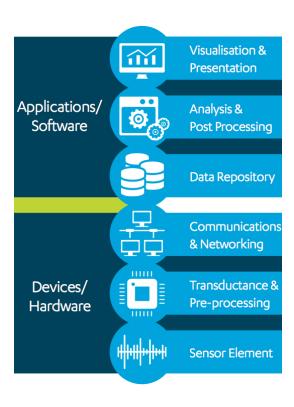
▶ TECHNOLOGY LEADERSHIP IN THE IOT SOLUTION VERTICAL

- ► Innovative and unique MEMS capability
- Innovator in precise, real-time wireless location enabled sensors and systems

► LONGER TERM OPPORTUNITY TO ENHANCE SHAREHOLDER VALUE

- ▶ IoT wireless platform with analytical capability for operation and asset management
- ► Move from product sale model (Capex) to solution service model (Opex)







SENSERA CORPORATE INFORMATION

CAPITAL STRUCTURE AND VALUATION

Ordinary shares on issue	m	244.3
Share price (29 Nov 18)	A\$/share	0.12
Market capitalisation	A\$m	\$29m
Debt (as at 30 Sep 18)	A\$m	-
Cash ¹ (as at 30 Sep 18)	A\$m	\$7.2m
, ,		

TOP SHAREHOLDERS (17 SEP 18)

Name	Shares Held (m)	% of Shares on Issue
HSBC Custody Nominees (Australia)	13.9	5.7%
Triton Systems, Inc	11.9	4.9%
JP Morgan Nominees Australia	11.1	4.6%
Newburyport Capital	10.0	4.1%
Maple Management	9.7	4.0%
Top 20 Shareholders	113.4	46.4%

SHARE PRICE / VOLUME HISTORY (A\$; MILLIONS)



BOARD OF DIRECTORS AND KEY EXECUTIVES

Name	Position	
Ralph Schmitt	CEO and Managing Director	
Allan Brackin	Independent Non-Executive Chairman	
Matthew Morgan	Non-Executive Director	
George Lauro	Non-Executive Director	
Jonathan Tooth	Non-Executive Director	
Camillo Martino	Non-Executive Director	
David Garrison	Chief Financial Officer	



GLOBAL IOT SOLUTION PROVIDER

Sensera designs and manufactures platform hardware and software from unique structures as MicroElectroMechanical Systems (MEMS) and sensors, to wireless networked systems, that when combined drive an entire IOT platform solution.

MicroDevices - Boston

- Microfabrication facility for high value bespoke sensor based products (focus on MedTech)
- 1,500 m² facility, including 370m² for ISO certified, Class 100 microsensor fabrication
- Infrastructure to support manufacturing revenues of US\$10's of millions
- Staff base of 24 FTE with engineering, production and QA
- Sales base for US



IoT SystemSolutions - Berlin

- R&D and sales and marketing for market leading location awareness technology (components, anchors and software)
- Market leadership in mining and animal health applications
- 33 FTE professionals with diverse skills in hardware development, software, product management and technical support
- Sales base for Europe & Asia



DIFFERENTIATED POSITIONS IN A FEW KEY MARKETS

MEDTECH



\$1B MEMS TAM 9% AGR

MINING



\$3B Location TAM
7% AGR

ANIMAL HEALTH



\$7B Animal TAM 11 % AGR



MICRODEVICES: MEMS AND SENSORS

MEMS - MICRO ELECTRONIC MECHANICAL SYSTEMS

The physical bridge between the mechanical and electrical world = Critical Component of all Sensors

▶ TECHNOLOGICALLY STRONG IN MICROFLUIDICS AND OPTICAL MEMS

- ▶ 11 Customers in Microfluidics
- ▶ 3 Customers in Optical

▶ KEY FY18 ACHIEVEMENTS

- ► Multiple Customers from prototype to volume
- ► Adding critical tools to bring process in-house
- Micro-assembly capabilities

► KEY FY19 MILESTONES

- ► ISO 13485 Medical Certification
- ▶ New capabilities added to the fab i.e. Plating +
- ▶ Deliver complete Sensors in volume
- ► First Sensera internally built sensor

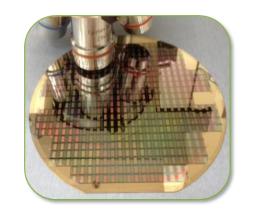


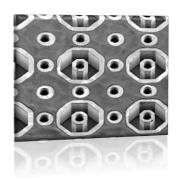


MICRODEVICES: MOVING UP THE VALUE CHAIN

FY18 MEMS for Sensors

Custom and Unique Subcomponent



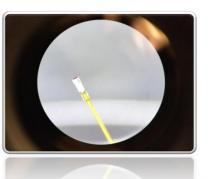


FY19 Sensors (MEMS + Control)

Micro-assembly for Complete Sensor Standard Product: Multiple Gas Sensor

Example: Abiomed Sensor



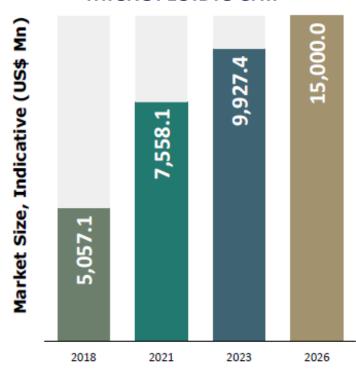






MICROFLUIDIC CHIP GROWTH AND APPLICATIONS

MICROFLUIDIC CHIP



- ► SENSERA PROVIDES THE MEMS COMPONENT TO A \$5B MICROFLUIDIC CHIP MARKET
 - ► Microfluidic MEMS market at \$1B
 - ► Currently providing custom solutions to 11 customers
- ► MICROCHANNELS ARE ETCHED INTO SILICON OR GLASS AND INTEGRATED WITH MEASURING AND SENSING COMPONENTS
 - ► The pattern is dependent of function and application
- ▶ KEY APPLICATIONS
 - ▶ Drug Delivery, Organ-on-a-Chip, Lab-on-a-Chip, Genetic Discovery, Point-of-Care Diagnostics, Cell Biology



MICROFLUIDIC BASED SOLUTIONS



Artificial Lung Device

The goal of this microfluidic device project is an artificial lung as a fully implantable device that will provide blood oxygenation for human patients.



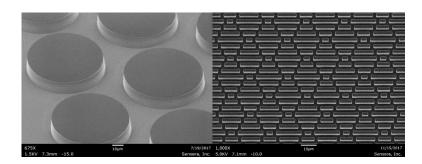
Point-of-Care Diagnostic Devices

These devices use microchannels that are coupled with chambers and reagents in order to detect and measure specific biomarkers.



Lab-on-a-Chip

These devices are used for rapid and sensitive investigation of nucleic acid samples, DNA and RNA, and proteins. Due to an electric field, proteins, DNA and RNA migrate along a separation channel and are measured by a detector.



Cell Separation Devices

These devices use different channel geometries and features, i.e. pillars, to separate cells based on physical properties such as size.



IOT SYSTEM SOLUTIONS (nanotron)

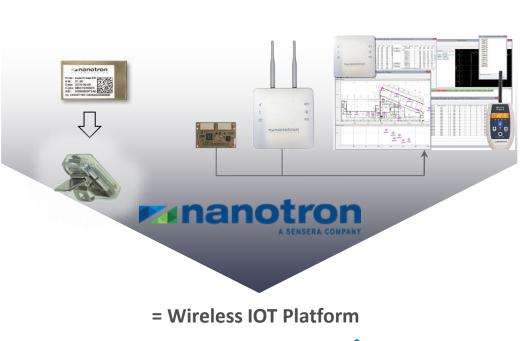
EVERY SENSOR NEEDS TO FIRST KNOW ITS LOCATION

LOCATION AWARE SENSORS

- ▶ Application specific Tags based on our chips and RF Modules currently built by System Integrators
- ► Anchors or Wallpoints based on our design complete the wireless platform

WHY DO WE WIN

- ► The location is very precise (Centimeters)
- ► We operate indoors / underground = harsh and difficult environments
- ▶ Operates wirelessly over large distance with minimal infrastructure
- ▶ When combined with other sensors drives unique solutions



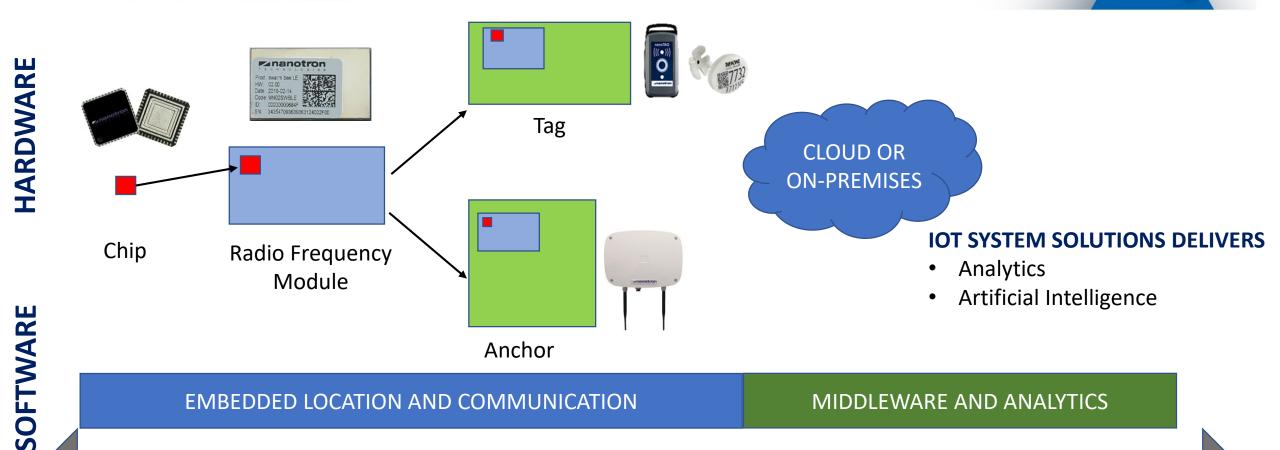
Anchors

Modules/Tags



Software/Tools

BUSINESS MODEL ENHANCEMENT



CAPEX

SENSORS AS A SERVICE

OPEX

FY19

- Hardware: Chip, Modules and Anchors
- Software: Location

FY20

- Hardware + Tags
- Software + Analytics

FY21

- Business Intelligence
- Automation



FY19: THE ANATOMY OF A TAG THE INSTRUMENT FOR KNOWING WHERE AND WHEN

SPECIALIZED TAGS Sensor Fusion Contextual Information by Adding Sensor "Intelligence" to the Tag Radio Frequency Module

THE WORLDS MOST DEPLOYED TAG



Application Specific Tags

Location: Chirp or Ultra Wideband (UWB)
Sensors: Gyro, Accelerometer → Gas

Mobile Phone = Commodity Tag

Location: GPS, WIFI or Bluetooth Sensors: Gyro, Accelerometer



GO-TO-MARKET FOR LOCATION BASED SENSORS

Animal Health Mining Industrial Healthcare

Chips Anchors RF Modules Anchors Tags Anchors Anchors Anchors

Wireless IOT Platform

System
Integrator +
Distribution
Partner

System
Integrator +
Direct
Sales

System
Integrator +
Direct
Sales

System Integrator

► Industrial and Healthcare open new opportunities to produce more of the solution and model change

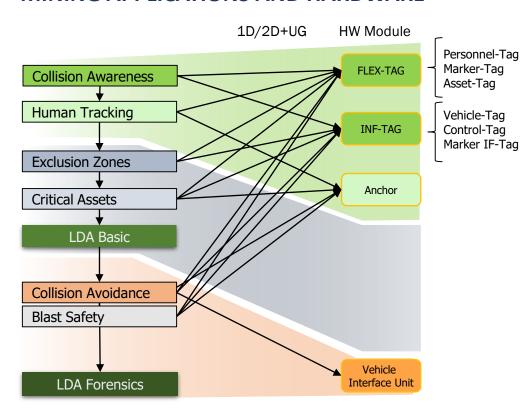


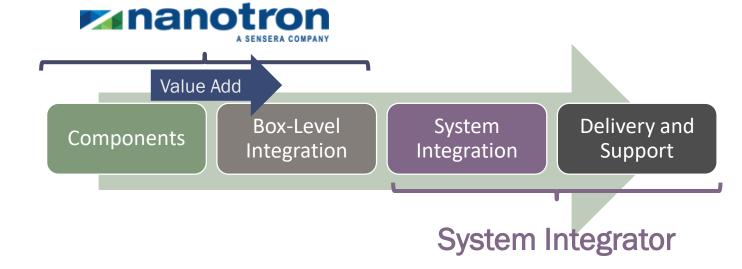
Sensera

MINING BUSINESS MODEL SHIFT

DIRECT TO MINE GTM CHANGE DRIVING OUR PRODUCT ROADMAP

MINING APPLICATIONS AND HARDWARE







FY19 OUTLOOK

▶RAMP FY19 REVENUES SIGNIFICANTLY

- ► Meet contractual demand for existing animal health, mining and Medtech customers
- ► Ensure robust and cost-effective supply chain

▶ OPERATING CASH FLOW POSITIVE BY THE END OF FY19

- ► Revenue and profit growth ahead of opex
- ▶ Prudent spending whilst meeting existing demand and filling the pipeline

▶ CLOSE ON PARTNERSHIPS FOR KEY CAPABILITIES

- ► Software infrastructure and applications
- ► Expansion of RF capabilities
- ► Movement to full solution provider

US\$	Expected FY19	FY19 vs. FY18	Comments
Revenue	\$10.5M - \$11.5M	+70%	 Location - SmartBow contract and mining growth Microdevices - Abiomed contract and multiple customer ramps
Ор Ех	\$11.5M - \$12.5M	+10%	R&D: Further chip and software dev.GTM* staff increases
Profit/ Loss	(\$5.5M - \$6.0M)	-50%	 End of FY19 expect to be operating at cash flow positive

^{*}Go to market



F19 REVENUE AND BEYOND - BUILDING THE PIPELINE

- ► FY19 REVENUE FORECAST = \$10.5M \$11.5M
 - ► Existing Customers = 85%
 - ▶ Of which Contracted Customers is 62% of total
 - ► New Customers = 15%

► FY20 REVENUE PREVIEW

- ► Current New Business Pipeline is 5X the FY18 Pipeline
 - ▶ Pipeline of 41 Customers worth \$19M/Year (Yield TBD)
 - ► Additional 32 Customers with validated opportunities worth \$21M/Year
- ▶ 20%+ Increase on F19 Contracts



SUMMARY

▶ ATTRACTIVE FY19 AND FY20 GROWTH TRAJECTORY

- Existing book of business; plus established contracts (SMARTBOW and Abiomed)
- ► Sales FY19 vs FY18 >70%
- ► Cash flow positive late FY19

▶ DIFFERENTIATED AND DEFENSIBILE TECHNOLOGY

- ▶ Develop hardware further with new sensor IP
- ► Add software to offer complete data analytics
- ► Emerge with higher recurring revenue from a hosted solution

► INVESTMENT IN GO-TO-MARKET (GTM)

- ► Proven Products = Lower technology risk
- ► Team built to leverage technology adoption through investment in Go to Market

▶ COMPELLING STOCK VALUATION

< 2x FY19 revenue</p>















CONTACTS

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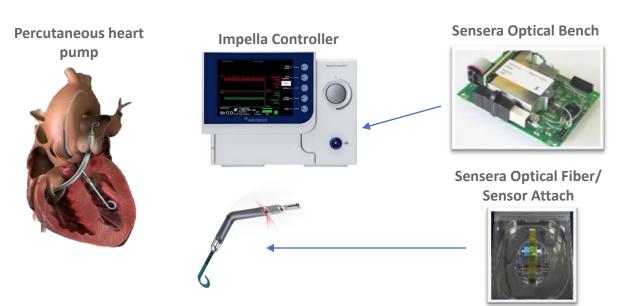
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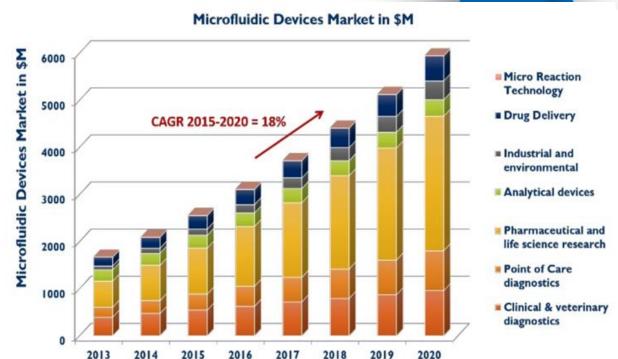


APPENDICES

LEAD MARKET: MEDTECH

- Provide R&D and bespoke manufacturing service. Class 100, 1,000 and 10,000 cleanrooms for wafer processing and fiber optic and electro-optical micro assembly
- Commercialized Microfluidics devices (microstructures that capture fluids and analyze liquids) and organ-on-achip (enable test on devices instead of animals)
- Example win: Abiomed Impella® heart pump -- FDA approved April 2018





Microfluidics Device Market SAM \$4B in 2018

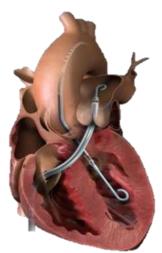
√ 3-year multimillion \$ supply agreement



ABIOMED ENGAGEMENT

Percutaneous heart pump technologies

Pump



Impella CP®

The Impella® heart pump pulls blood from the left ventricle through an inlet area near the tip and expels blood from the catheter into the ascending aorta offering hemodynamic support to the heart and organs including the brain and kidneys.

Impella Console Automated Controller



"Abiomed Receives FDA
Approval for Impella CP®
with SmartAssist™ and
Optical Sensor"

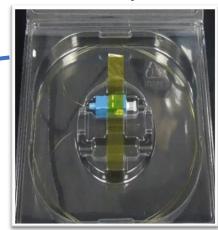
Optical Sensor" April 2, 2018

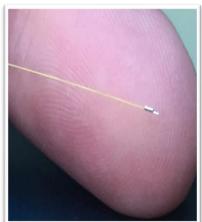
Sensera Products Sold



1. Optical Bench converts optical sensor read out to electronic pressure value

2. Optical sensor/fiber attach





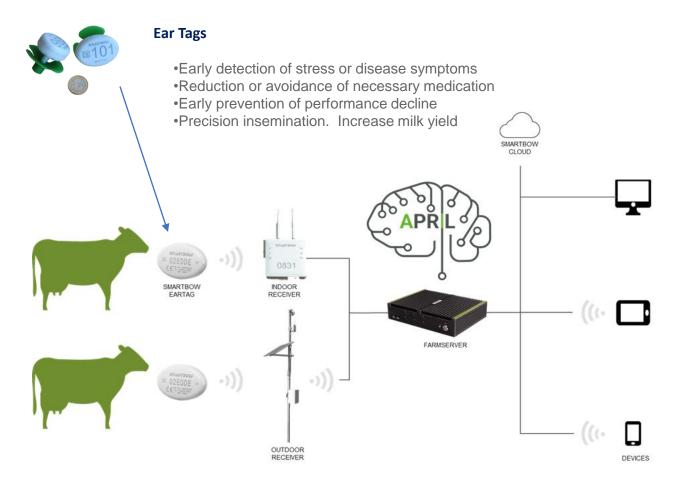
Inserts into catheter

Optical Sensor allows placement w/o imaging for faster set up and more accurate positioning simplifying patient management for physicians, cath lab staff and ICU staff.



LEAD MARKET: ANIMAL HEALTH

Exclusive provider of core technology to SMARTBOW
 GmbH/Zoetis Eartag LIFE product. Sensera is installed and live in hundreds of farms today





Current Serviceable Addressable Market (dairy cows)

- US\$3.8B
- US\$0.8B in tags
- US\$3B in location awareness anchors and software



LEAD MARKET: MINE SAFETY AND PRODUCTIVITY

- Provide real-time high accuracy positioning for Collision
 Avoidance System (CAS) and Tracking of people and
 assets in harsh environment. Save lives and cost. Driving
 the Digital Mine thru improve equipment efficiency and
 automation.
- Installed and live in over 70 mines worldwide. Expanding to open cut mines and railway safety.
- Example wins: Turkey Park Thermic Mine 2,360 miners, 10km tunnels, 4 excavation blocks. Mexico Tizapa Silver Mine 650 miners, NOM-023-STPS-2012 compliance



Enabling the Digital Mine With Scheduling of

Trucks and Workers for Efficient Hauling

Tags provided upon entering the mine



Readers connected through mine network to central control room



Automatic monitoring of asset movement and safety incidents



Current TAM

- US\$3Bn
- 62K sites
- 10M miners

Current SAM

- US\$0.5Bn
- Underground coal and hard rock



PARK THERMIC MINE COMPLEX IN TURKEY

This implementation is one of the most advanced systems of its type anywhere in the world



"Mechanized mining has been the driving force for cost savings through automation and process optimization as well as fulfilling the most critical moral responsibility we have of proving better protection and safety for the mine workers in their daily working environment."

Michal Szebesta, Project Lead at the Park Thermic Coal Mine and Member of the Board of ATUT.

Mining Company: Ciner Group System Integrator: Atut



Following a major disaster in 2014 the Turkish government mandated human tracking at coal mines.

Benefits of the Park Thermic Real-time tracking:

- Tracking 2,360 miners
- Scalability: Tens of km of tunnels and four excavation blocks
- 24/7 operation, no interruption

