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1. Sensera = Wireless Networking Sensor Company





Sensera Corporate Information



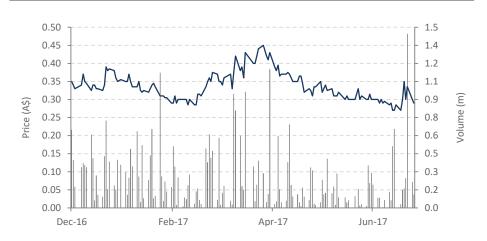
Market Capitalisation and Enterprise Value

Ordinary shares on issue	m	122.1
Share price (8 Aug 17)	A\$/share	0.33
Market capitalisation	A\$m	\$40.3m
Debt (as at 30 Jun 17)	A\$m	-
Cash ¹ (as at 30 Jun 17)	A\$m	(\$5.1m)
Enterprise Value	A\$m	\$35.2m

Top Shareholders (22 Dec 16)

Name	Shares Held (m)	% of Shares on Issue
Triton Systems, Inc	11.8	9.7%
Newburyport Capital	10.0	8.2%
Maple Management	9.7	8.0%
Top 20 Shareholders	63.7	52.2%

Share Price / Volume History (A\$; millions)



Board and Advisers

Name	Position	
Matthew Morgan	Executive Chairman	
George Lauro	Non-Executive Director	
Jonathan Tooth	Non-Executive Director	
Ross Haghighat	Advisory Board Member	

Notes:

At exchange rate of AUD/USD 0.7926.

Source: Bloomberg as at 8 Aug 17, Company Announcements.

Overview



Sensera Limited (ASX: SE1) uses proprietary sensor systems to provide End-to-End products and services to its clients globally.

History	Sensera was spun-out of Triton Systems, the US-based incubator of innovative technologies in 2016, and subsequently listed on the ASX in December 2016
Microsensors	Sensera is an integrated designer and manufacturer of specialised high performance microsensors. Microsensors are complex sensing, processing and transmitting devices comprising components that can be smaller than one micron (1/1000 of a millimetre)
How it Works	Microsensors enable a number of high value add applications into products all around us, from gyroscopes in smartphones, sophisticated medical devices to digital cameras and tyre pressure gauges in vehicles
Market Positioning	Sensera is a provider of value add microsensors and sensor systems (Wireless Network Sensors). Sensera partners with customers early and embeds itself into their supply chain with unique product and service offerings. This delivers high margin and long life cycle products in the medical device and industrial applications.
Target Market	Targeting customers in Industrial, Healthcare and Defence sectors who often have limited capability to engineer their own micro-fabricated product or whose production requirements are mismatched with large commodity high-volume suppliers.

Proposed Transaction





- Sensera proposes to acquire 100% of nanotron Technologies GmBH (Nanotron), a venture capital backed, revenue phase leading provider of location-awareness products and services company serving a global market
- The combination of Sensera plus Nanotron delivers a company with proprietary integrated sensors and software products that enable precise real-time positioning and concurrent wireless data communication in several key markets
- Post transaction, Sensera will emerge as a leading End-to-End sensor and wireless communications company in the rapidly growing global Wireless Sensor Networks, IoT market.
 - A global US\$93 billion market; and
 - US\$8 billion addressable market by 2021

The Sensor Systems Stack and IoT

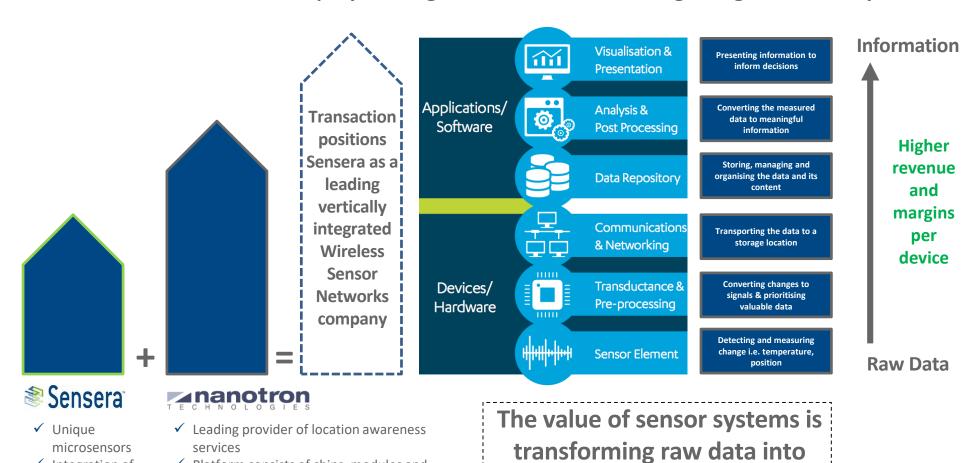
✓ Platform consists of chips, modules and

and wireless communications

software than enable real-time positioning



Wireless Sensors Networks, IoT - Rapidly Growing Market – US\$30bn in 2016 growing to US\$93bn by 2021.



✓ Integration of

sensors into devices

meaningful information

2. Strategy Implementation: Nanotron Transaction





Transaction Overview





Transaction	 Sensera has agreed to acquire 100% of Nanotron Technologies GmbH based in Berlin, Germany Acquisition price of €6.4m (A\$9.4m), €3.0m (A\$4.4m) on completion with balance payable over 15 months Completion is expected to occur in August 2017
Nanotron Overview	 Nanotron is a venture capital backed fabless sensor and location-awareness company The Nanotron platform delivers a complete integrated sensor's system consisting of chips, modules and software that enable precise real-time positioning and concurrent wireless communication Established core markets, servicing large blue chip end-users in the mining and agricultural sectors with Tier 1 customers representing A\$850 million market opportunity Forecast CY17 revenues of ~A\$5.3m (€3.6m or US\$4.2m)¹ with strong forward orders expected for CY18 and CY19 Highly experienced leadership team Staff base of 25 FTE professionals with diverse skills in location chips, radio hardware and embedded software development, IoT product creation and technical customer support Significant suite of patented technology and IP

Notes:

At exchange rate of EUR/AUD 1.47 and EUR/USD 1.17.

Transaction Rationale





Leading wireless communications and IoT platform	Platform delivers a complete integrated sensors system consisting of chips, modules and software that enable precise real-time positioning and concurrent wireless communication	√
Proven suite of patented products and software	Acquisition provides a suite of proven products, based on patented solution and technologies Nanotron has sold more than 950,000 location chips (2 nd generation product) to date	\checkmark
Adds substantial revenue pipeline including ~US\$4.2m1 in forecast CY17 revenue	Established core markets, servicing large blue chip end-users in the mining and agricultural sectors Strong forward orders expected for CY18 and CY19	√
Addition of a world-class team	World-class leadership team and will add 25 full-time employees to Sensera's existing core team Nanotron's team are experts in location-awareness product engineering and marketing	√
Transaction to leverage Sensera's existing fab facility	Nanotron to leverage Sensera's fab facility for initial production runs for new markets Access to fab allows Nanotron to delay outsourcing to partners saving material cost and time	√
Expanding Sensera's integrated technology stack	Post transaction, Sensera will emerges as a leading vertically integrated sensor and wireless communications company in the rapidly growing global Wireless Sensor Networks, IoT market	√

Notes:

At exchange rate of EUR/USD 1.17.

Acquisition Terms





Highly attractive transaction structure, with low upfront cash and share consideration paid. Balance of consideration settled via a series of payments for a total consideration of €6.4 million.

	Timing	Form of Consideration	Amount (€000s)	Amount (A\$000s)
Upfront Consideration	On Completion	Cash	3,000	4,464
Total Upfront			3,000	4,464
Deferred Consideration	Payable 31 Oct 17	Cash	700	1,042
	Payable 31 Oct 17	Scrip	835	1,243
	Payable 1 Jul 18	Cash	765	1,138
	Payable 1 Oct 18	Cash	1,100	1,637
Total Deferred			3,400	5,060
Total Consideration			6,400	9,524

Note 1. At exchange rate of AUD/EUR 0.672

Delivering On Our Strategy



Post transaction, Sensera will emerge as a leading End-to-End sensor and wireless communications company in the rapidly growing global Wireless Sensor Networks, IoT market.



Sensera	Sensera + nanotron	Organic Growth Supported by Existing Customer Pipeline	Consolidate and Grow Platform
2016/2017	Today (August 2017)	2018 - 2019	Ву 2020
 Listed on the ASX (23 Dec 16) Integrated designer and manufacturer of specialized high performance microsensors Provides value-add solution for high margin industries Fortune 500 anchor clients Product pipeline supports path to sustained revenue growth (on target to achieve A\$2.5m (US\$2.0m) in revenue for CY17 & substantially higher in CY18) 	 The combination positions SE1 as a world-class sensor and location awareness business Nanotron platform delivers a complete integrated sensors systems consisting of chips, modules and software Builds a solid foundation on which to expand integrated technology stock Adds substantial revenue pipeline including ~A\$5.3m (US\$4.2m) in revenue in CY17 	 Existing customer demand supports shift to high volume manufacturing New verticals support launch of Gen III sensor system with value add functionality Continue to embed solutions further into customer supply chain Leverage presence in heath care market to on-board additional customers 	 Integrate solution stack such as software, algorithms and big data analytics Increase revenue and gross margins per device by controlling the technology stack Grow recurring revenue base List on global exchange

3. Overview of Sensera





Sensera Microsensor Capabilities Supports Strategy



Sensera operates a 1,500 m² facility, including 370m² of micro fabrication ("fab") space outside Boston, USA.

- Fully commissioned Class 100 micro fabrication production facility for microsensor production
- Installed infrastructure to support revenues of US\$40m p.a.
- Facility has combined design and manufacturing areas and as a result is optimised for complex small scale production as designs can be tested and validated in the manufacturing area, and microsensor prototypes that are manufactured can be refined in the design area

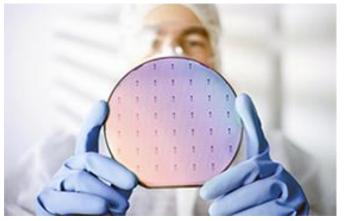


Facility is optimised for complex small scale production

- ✓ Nanotron to leverage Sensera's capabilities for initial production runs for new markets
- Access to fab allows Nanotron to delay outsourcing to partners saving material cost and time



Nanotron to retain low cost global partners for existing large scale production



Commercial Progress



Sensera affirms its two anchor clients are expected to successfully transition to the manufacturing phase in 2H CY17. The first of the two anchor clients is scheduled to place purchase orders for commercial production volumes in the September quarter (Q3 2017).

- ✓ Late stages of process development sign off from first anchor client
 - Sales forecast have been received from client for the next 24 months
- ✓ Received 12 month sales forecast from second anchor client

- Revenues from anchor clients substantially de-risks the business model
- ✓ Pipeline of 50+ similar customers in the Boston biotech and tech hub

Customer	Description	Status	Anticipated Manufacturing Revenues
Customer A	US-based Security and Surveillance Company (NASDAQ, Mkt Cap: US\$5.0 billion)	Design & Prototyping Phase	Q4 2017
Customer B	US-based Surgical Products Company (NASDAQ, Mkt Cap: US\$5.0 billion)	Qualification Stage	Q3 2017
Customers C, D, E	Healthcare / Medical Device Companies	R&D phase + initial small scale manufacturing	Q1 2017
Customer F, G & H	Healthcare / Diagnostics	Design & Prototyping Phase + initial small scale manufacturing	Q1 / Q2 2017

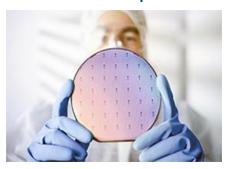
Case Study: Sensors for Healthcare



One of Sensera's anchor clients, a US-based Surgical Product Company (NASDAQ listed, Mkt Cap: US\$5bn).



Sensera's proprietary MEMS chips



An SE1 representative sensor



- Sensera design and fast turn manufacturing capability helps to transform an idea to Low Rate Initial Production in record time
- Anticipate Co-Exclusive source supplier to support global expansion in 2H 2017

Example of SE1 sensor integrated device



application method¹



Notes:

Device undergoing FDA clearance.

2017 Goals Review



Continued delivery and progress on stated 2017 goals.

	Goals	Status
	Appoint a Senior Business Development Executive	✓ Completed
	Identify and complete first acquisition	✓ Announced
Corporate Goals	Build out engineering and microfabrication team	80% complete
	Appoint CEO	2H CY17
	Appoint additional Director	1Q CY18
	Increase sales pipeline to 50 prospects and secure an additional 5 customers by end CY17	✓ Completed
Sales Goals ¹	Secure an additional long term blue chip client	2H CY17
Sales Goals	Achieve minimum of US\$2m (~A\$2.5m) in revenue for CY17	On target
	Achieve minimum of US\$7m (~A\$8.8m) in forecast orders by end of CY17	In process
Customer Goals	Grow the number of smaller clients	Completed & ongoing
Customer Goals	Successfully transition 2 anchor customers to manufacturing phase in 2H CY17	2H CY17

Notes:

At exchange rate of AUD/USD 0.7926.

4. Acquisition of Nanotron





Overview of Nanotron

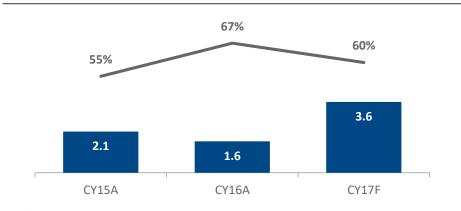


Nanotron is a leading provider of location-awareness services based in Berlin, Germany. Nanotron specialise in the design, development and sale of chips, modules and software that enable precise real-time positioning and concurrent wireless communication.

Overview of Nanotron

- Nanotron is a venture capital backed fabless sensor and locationawareness services company based in Berlin, Germany
- Nanotron platform consists of chips, modules and software that enable precise real-time positioning and concurrent wireless communication
- Established core markets, servicing large blue chip end-users in the mining and agricultural sectors
- Sold over 950,000 location chips (2nd generation product)
- Forecast CY17 revenues of ~ A\$5.3m (€3.6m)¹ with strong forward orders expected for CY18 and CY19
- Highly experienced leadership team
- Staff base of 25 FTE professionals with diverse skills in location chips, radio hardware and embedded software development, IoT product creation and technical customer support

Revenue (€ millions) / Gross Margin (%)



Select Nanotron Investors

Top tier venture capital and corporate investors











Notes:

At exchange rate of EUR/AUD 1.47.

Leadership Team



Acquisition brings a world-class leadership team and will add ~ 25 full-time employees to Sensera's existing core team. Nanotron's team are experts in location-awareness product engineering and marketing.



Dr. Jens Albers

Chief Executive
Officer

- Ph.D. in Electrical Engineering from Ruhr-University Bochum, Germany
- As a serial entrepreneur, Jens has extensive experience in identifying and developing new technology in the semiconductor market under management, board and investor roles
- Co-founder, Co-Chairman, and EVP of Multilink Technology Corp. MLTC attained revenues of US\$135m in just 5 years. IPO on NASDAQ in June 2001 that raised US\$72m with >300 employees



Dr. Thomas Foerste

Vice President Sales & Marketing

- Ph.D. in Semiconductor Devices from Technical University Dresden, Germany
- Over 15 years in senior sales and marketing roles with AT&T, Lucent Technologies & Agere Systems
- Focused on accounts in the telecom, consumer electronics and automotive industry. Application areas included long haul and metro transport, access networks and wireless communication and mobile phones



Rainer Hach

Chief Technology Officer

- M.Sc. in Electrical Engineering from Technical University Berlin
- Developed fundamental technologies and patents for Nanotron
- Profound knowledge in digital signal processing, systems design as well as software development
- Acknowledged authority and technical editor for IEEE and ISO standards

Wireless Sensor Network



Nanotron's End-to-End sensor and wireless communication network



Lead Markets: Revenue Drivers



Nantoron's lead markets cover clients operating the mining and agricultural sectors.

Livestock Monitoring





- Complete system solution for dairy and beef farms
- Smartbow, an Austria based company, market an intelligent, lightweight ear tag for cattle that is used for animal identification, real-time location and health monitoring purposes in partnership with Nanotron
- System provides benefits across the full spectrum of cattle farming operations (productivity gains, quality assurance and reduced need for proactive medication)
- Estimated addressable market of US\$572m per year

Mine Safety and Productivity





- Nanotron is becoming a dominant provider of collision avoidance (CAS), exclusion zone and real-time location tracking of people and mining equipment
 - 1) Collision avoidance: vehicle to vehicle and vehicle to people
 - 2) Exclusion zone around heavy machinery: operator safety
 - 3) Tracking of people and assets in real time
- Estimated addressable market of US\$105m per year

Overview: Livestock Market



Long term relationship with world-class partners that have positioned Nanotron for growth.





- Smartbow is a world-leading remote animal wellness monitoring company
- Partnership is based on 4 years of development of data analytics by Smartbow based on Nanotron's solution
- Nanotron delivers a scalable solution with location chips for tags, anchors and location software that monitor the movement of a large number of animals







Nanotron's channel partner, SmartBow enters exclusive global distribution agreement with Zoetis

- Zoetis is the global market leader for animal health products and services
- A former division of Pfizer, listed on the NYSE in 2013
- Market Cap: US\$30bn, 2016 Revenue: US\$4.9bn

Distribution Alliance:

- In February 2017, Smartbow announced an exclusive worldwide distribution alliance with Zoetis
- Global market sizing: 250 million diary cows, 1 billion cattle
- Smartbow and Zoetis are targeting an 8% penetration of the dairy and beef cow market (100 million installed ear tags)

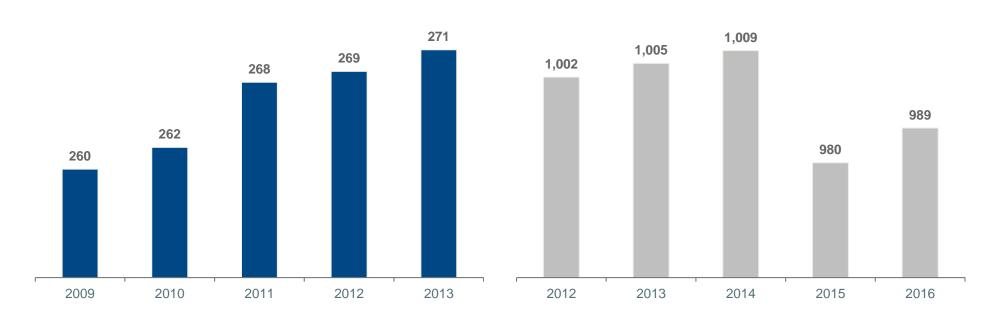
Overview: Livestock Market



Estimated total addressable market of US\$7.8 billion (A\$10 billion)

Global Dairy Cow Population (million)¹

Global Cattle Population (million)²



- Nanotron ear tags (location chip technology) and anchor infrastructure addressing a US\$7.8 billion opportunity
- Smartbow and Zoetis targeting 8% penetration, translating into a serviceable addressable market of US\$572m

Notes:

Source: Statistika 2017.

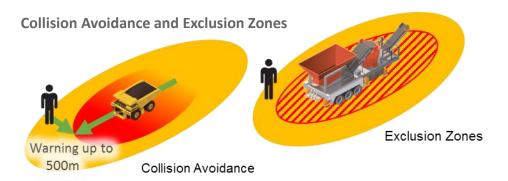
Source: FARM DATA – World Cow Numbers.

Overview: Mining Market



Nanotron is becoming a dominant provider of collision avoidance ("CAS"), exclusion zone and real-time location tracking of people and mining equipment.

Nanotron Solutions



 The distance between people and machines is continuously monitored in real-time. If pre-set safety zones are violated the vehicle stops or the machine shuts down automatically

Tracking of People and Assets



 Tracking people and assets in mining tunnels/shafts and evacuation areas in real-time provides visibility of the production process and dramatically improves mine safety

System Integrators

SCHAUENBURG













Emerging Markets



The need for smart real-time positioning and wireless communication is imminent with Nanotron well placed to penetrate new large global markets.

Markets where Nanotron has volume or pilots

Market	Stage
1. Sports monitoring	Existing volume business with Catapult Sports (ASX:CAT)
2. Rail CAS and track-worker protection	Volume production ramp
3. Smart cargo import control	Proof of concept, pilot
4. Healthcare	Proof of concept, pilot
5. Airport cargo handling	Proof of concept, pilot









Other potential markets

Market	
1. Oil & Gas	7. Wearable devices
2. Retail	8. Medical devices
3. Aerospace & Defence	9. Lighting control systems
4. Industrial	10. Smart meters
5. Automotive & transportation	11. Hvac control systems
6. Security & access systems	12. Fire protection systems



Nanotron technology

Nanotron's low energy swarm bee module works in collision avoidance and in tracking applications simultaneously and is uniquely suited for industrial applications

Nanotron Financial Summary



Nanotron's existing platform of wireless communication products and software is forecasted to generate revenues of €3.6m during CY17 with gross margins ~60%. Nanotron continues to invest in its operating base to enable rapid inventory delivery and volume production with global foundry partners.

Item	Units	CY15A	CY2016A	CY2017E
Revenue	€000	2,122	1,579	3,580
COGS	€′000s	(965)	(518)	(1,439)
Gross Margin	€000	1,157	1,061	2,141
Gross Margin	%	55%	67%	60%
OPEX	€000	(2,360)	(2,528)	(2,779)
R&D	€000	-	-	(1,420)
EBITDA	€000	(1,203)	(1,466)	(2,058)

- Strong sales growth expected in CY17 driven by livestock vertical after a period of product development/deployment
- Smartbow (OEM partner), recently completed product development program and has entered in to a commercial partnership with Zoetis (NYSE listed, Mkt Cap: US\$30bn) an animal health business spun-off from Pfizer
- Significant forward orders expected for CY18 and CY19 as part of a global roll out
- R&D represents spend on nanoLOX chip development and re-instigation costs for nanoLOC chips
- The figures are derived from management accounts and are neither audited or reviewed

Established Verticals Competitive Landscape Sensera



Nanotron well positioned with unique offering of location-awareness solutions.

		Techn	ology			Verticals	
Competition	Location Awareness Provider	Accuracy	Scalability	Tag Battery Life	Livestock Health	Mining	Industrial
nanotron TECHNOLOGIES	✓	✓	✓	✓	✓	✓	✓
BeSpoon	Chip Only	√	(√)	√	×	×	√
Decawave	Chip Only	✓	(√)	(√)	×	×	✓
Time Domain (5G Robotics)	Module Only	✓	×	×	×	×	✓
Ubisense	Closed System	✓	√	✓	×	×	✓

 $^{(\}checkmark)$ = only in conjunction with Nanotron's Sea of Anchor technology.

Nanotron Patents and IP



Formula for achieving competitive advantages

Patent	Value Proposition	Market Relevance	Patent
Ranging and Location Awareness (SDS-TWR)	 Protects a technique for time base offset compensation for measuring the time of flight between RF devices Enhanced ranging stability over the entire operating temperature range using inexpensive components 	 Patent widely used by ranging products Nanotron has not take legal action against infringement yet as the underlying markets are evolving Maybe a potential source of royalties 	All ranging products e.g. <i>swarm</i> bee (Chirp, UWB)
Method and System for multipath reduction for wireless synchronizing and/or locating (Over-the-air-time- synchronization)	 Enables truly scalable time-difference-of arrival (TDOA) location solutions by creating a sea-of-anchor infrastructure that avoids cells and hence the need for cell-handover 	 Only method for linear build-out of location- infrastructure, the most efficient and cost-effective way to achieve scalability. 	nanoLES (Chirp, UWB today. WiFi the future)
Ranging Diversity	 Protects the utilization of multiple receive antennas for enhancing the accuracy of time-of-arrival measurements in multipath environments Applicable for any location radio-technology including Chirp, UWB, WiFi FTM etc. 	 Efficient method to significantly improve location accuracy (by 40%) Currently used in all multi-channel anchor devices 	nanoANQ (Chirp, UWB,and WiFi FTM in the future)
Time-difference-of- arrival (TDOA) location technology	 Applicable for any location radio-technology including Chirp, UWB, WiFi etc. 	 Works with any location radio-technology across industry verticals Scalable for location-awareness with common APIs 	Chirp, UWB today WiFi in the future

Impact on equity interest



Impact of the acquisition on the equity interest of Sensera:

Current shares on issue	122,100,000
Shares to be issued from capital raising	14,330,000
Shares to be issued to Nanotron Vendors	3,975,952
Enlarged capital	140,405,952
New shares issued (%)	Approx. 13.0%
New market capitalisation (@ \$0.330 per share)	46,333,964

Notes:

1. In accordance with the draft Share Purchase Agreement, it is proposed that Sensera will issue 3,975,952 ordinary shares (based on a value of €834,950 converted to AUD at an exchange rate of AUD/EUR A\$0.32/Euro 0.21 per share)

Combined Financial Outlook



Nanotron brings a substantial revenue pipeline including ~US\$4.2m¹ in forecast CY17 revenue. This combines with Sensera's strong pipeline and anchor clients which underpin Sensera's previously announced CY18 revenue objective of US\$7.0m.

Revenues	CY17F	CY18F
Sensera [™]	US\$2.0m	~US\$7.0m
nanotron TECHNOLOGIES	US\$4.2m	>US\$5.0m
Total	>US\$6.0m	>US\$12.0m

- Sensera expected to commence commercial production in Sep 17.
 This will ensure CY17 revenue forecasts
- Sensera's two anchor client underpin US\$7.0m revenue objective (both clients onboarded in 2H 2017)
- Nanotron brings growing pipeline of revenue with strong forward orders expected in CY18 and CY19
- Combined low cash burn as a result of revenue growth forecasts
- Goal to achieve sustained EBITDA profitability during CY2019

Notes:

At exchange rate of EUR/USD 1.17.

Pro-forma Consolidated Profit & Loss



	Sensera Actual (US\$)	Nanotron Pro Forma (US\$)	Pro-forma Position (100% interest) (US\$)
Revenue	536,077	1,693,909	2,229,986
Expenses	(2,451,765)	(3,426,795)	(5,878,560)
EBITDA	(1,915,688)	(1,732,885)	(3,648,573)
Other expenses	(4,927)	(622,784)	(627,711)
Net loss before tax	(1,920,615)	(2,355,669)	(4,276,284)

Notes:

- 1. The data forms a consolidated picture and draws no forecasts
- 2. Sensera results represent the period from 6 July 2016 (date of incorporation) to 31 December 2016 which have been reviewed by Sensera's auditors
- 3. Nanotron results represent the pro forma management accounts for the 12 months ended 30 June 2017 which have been derived on a pro rata basis from the actual results for CY2016 and forecast CY2017. These have not been reviewed or audited.

Proforma Consolidated Balance Sheet



	Sensera 31 Dec 2016 Actual (US\$)	Nanotron 30 June 2017 (100% interest) (US\$)	Pro-forma Position 31 Dec 2016 (US\$)
Current Assets	7,931,433	1,066,135	8,977,568
Non Current Assets	93,964	-	93,964
Total Assets	8,025,397	1,066,135	9,901,532
Current Liabilities	446,096	85,557	531,653
Non Current Liabilities	-	-	-
Total Liabilities	446,096	85,557	531,653
Net Assets	7,579,301	980,578	8,559,879

Notes:

- 1. The data forms a consolidated picture and draws no forecasts
- 2. The balance sheet is not a valuation of the entity post Transaction. The information included is an estimate only and has not been subject to detailed review or analysis of accounting treatments by Sensera's auditors
- 3. This information contains unreviewed information and is not prepared in accordance with the accounting standards

Combined Entity Milestones



Corporate	 Complete acquisition and integration of Nanotron Capture more of the value chain in the IoT landscape; sensor to network to analytics
Capability	 Enhance leadership team Appoint Group CEO to execute on growth and integration plan Appoint an additional NED to add relevant industry experience to the Board
Execution	 Transition key sensor customers from current low rate initial production (LRIP) state to full production, confirming our business plan of being imbedded in our customer's supply chain in the coveted healthcare sensing market Commercialise the Towakon project
Market Penetration	 Facilitate partners growth in the animal health sector to enable them to deploy 500,000 ear tags on route to 2m by 2020 Increase the number of mine sites using the Nanotron system and expand the deployments at existing sites including the successfully piloted Tracking of People and Assets in Real Time
Competitive Advantage	 Unveil Gen 3 product and solution roadmap, including location chips (nanoLOX) for enhanced precision, longer distance, greater bandwidth and energy efficiency

5. Appendix: Sensera

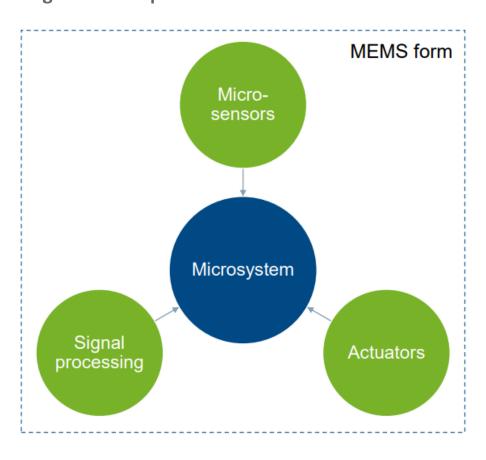




What are MEMS?



Micro Electro-Mechanical Systems (MEMS) are a technology field that can be defined as microscopic implementations of mechanical and electro-mechanical elements (i.e. devices and structures) that are made using the techniques of Microfabrication.



 Complex sensing, processing and transmitting devices that can be smaller than one micron (1/1000 of a millimeter)

What are MEMS?

- Whereas a microsensor only 'senses' MEMS integrate:
 - Microsensors: that senses; and
 - Actuators: that acts on the senses information; and
 - Signal-processing components: for processing and transmission of information
- These three elements combine to create the MEMS device

Key Market Differentiators



Sensera is positioned as the integrated specialist to provide rapid solutions to complex problems in high value markets (healthcare, industrial and defence).

	Sensera [™]	Competitors (Contract Manufacturer)
Approach	Specialised	Commodity
Volume	Low volume	High volume
Margin	High margin (+80%)	Low margin (20-30%)
Complexity	High	Low
Contribution	Full service	Single service
Design	Yes – Complex	Limited
Prototyping	Rapid	Slow
Company	Nimble, responsive	Large, slow
Market	Healthcare, Industrial & Defence	Consumer / telco
Customer	Embedded in the supply chain	Supplier contracts

Investment Highlights



- ✓ Fortune 500 anchor clients transitioning from Low Rate Initial Production to manufacturing phase in 2H 2017
- ✓ Growing high value microsensor market and associated IoT applications
- ✓ On target to achieve US\$2m in revenue for CY17 (>150% YoY Growth)
- ✓ Aiming to secure US\$7m in forward orders by end of CY17
- ✓ Operate highly efficient microsensor design + wafer fabrication facility with installed infrastructure to support revenues of US\$40m p.a.
- ✓ Highly experienced R&D, design, manufacturing and sales team
- ✓ Strong balance sheet with A\$5.1m¹ (US\$4.0m) in cash as at 30 June 17

Vertically integrated company allowing Sensera to capitalise on massive IoT growth market by capturing and networking data, analytics and value generated from sensors

Notes:

1.

At exchange rate of AUD/USD 0.7926.

6. Appendix: Nanotron





Collaborative vs Fixed Location Technology

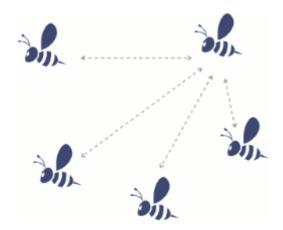


Nanotron's proven, commercial technologies for collaborative and fixed location applications.

Collaborative Location



 Collaborative location uses relative positions to provide locationawareness

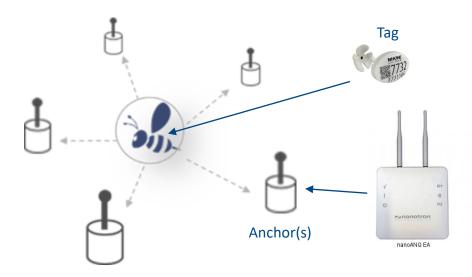


- Radio nodes determine the distance between two objects by exchanging packets and measuring their time of flight at the speed of light
- Example: Collision avoidance where vehicles are fitted with "swarm" radios. Radios are instructed to automatically detect other radios coming into proximity and to range with each other



Fixed Location

- Fixed location uses fixed reference points or "anchors" to provide location awareness
- Anchors are connected to a standard network, and a central computer or server tracks the positions of the tags
- Example: Smartbow ear tag connected to cows which transmits data to anchors. These anchors receive data from tags and forward them to a location sever



Product Portfolio (1/2)



Location Chip

Tags





- High performance, highly integrated mixed single chip utilizing Nanotron's unique wireless communication technology
- 2.4 GHz RF Transceiver operating in the worldwide ISM Band
- Low energy with unique ranging capability
- >950,000 2nd generation "nanoLOC" location chips sold to date
- 3rd generation chip expected to launched in 2018 with increased ranging capability, energy benefits and resolution
- 3rd generation ranging capability of up to 10km









- Tags are wireless devices which send out blinks
- Blinks are received by anchors and forwarded to the location server for calculating tag positions
- Together with anchors, tags form the basis for monitoring presence and movements of both people and assets in real time location applications

Product Portfolio (2/2)

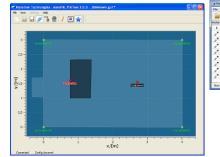


Anchor / Modules

nanoANQ EA nanoANQ XT

- Fixed devices
- Anchors receive data from tags and forward them to a location sever "nanoLES"
- Nanotron provides several variants of anchor to meet different application requirements
- Application type will control how many anchors are required to get reliable location data (1D vs. 2D)

Location Software





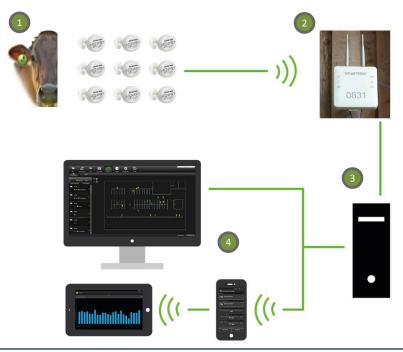
- nanoLES is the central software component developed by Nanotron
- nanoLES receives data packets of tags from anchors and calculates tag positions
- Location results are delivered to VisTool or a similar application developed by customer for visualization
- The main function of VisiTool is to provide a graphical display of the tag positions delivered by nanoLES

Overview: Livestock Market



Established animal identification, real-time location and health monitoring solution.

How the technology works



- Smartbow ear tag (location chip, nanoLOC) collects real-time location and health data
- Readers (anchors, nanoANQ) forward tag data to local server at farm
- Data from each animal is analysed by Smartbow proprietary algorithms at the server
- On PC, smartphone or tablet farmers are informed about heat and changes in rumination (digestion process) behaviour. The current position of animals is displayed on a digital map of the farmer's farm

Need for solution?

- System provides benefits across the full spectrum of farming operations
 - Correlating animal movement to animal health status
 - Detecting heat, rumination, lameness and infections
 - Works for both dairy and beef farms
- System saves farmers time in terms of behaviour monitoring, general animal husbandry tasks and quality assurance

Partnership provider

 Nanotron have been in partnership with Smartbow, an Austria based company since 2010

Nanotron outlook

- Proven solution with over 60 commercial installations across Europe,
 North America and Russia
- Smartbow commercial partnership with Zoetis expected to drive growth
- Smartbow and Zoetis are planning to initially deploy 1 million active ear tags per year
- Global market sizing: 250 million diary cows, 1 billion cattle

Manufacturing and Sourcing Partners



Nanotron is at commercial scale and currently outsources the fabrication ("fab") and assembly of its devices to large, global companies with operations across Europe.

- Established long term relationships with large, low cost sourcing, manufacturing and assembly partners
- Sensera to leverage its existing Boston fab facility during Nanotron's initial expansion in to new verticals

Silicon suppliers for 2nd and 3rd Assembly of **Manufacturing of anchors** generation location chips anchor modules **Panasonic** MKW® GLOBAL FOUNDRIES electronics Semiconductor Listed electronics German based Relationship with Materials and foundry business and semiconductor provider of electric Panasonic Industrial process technologies Devices for product based in Santa Clara, manufacturing manufacturing company USA manufacturing at services company Nanotron anchor Panasonic's facility Majority owned by Europe's largest modules assembled located in Slovakia Mubadala semiconductor chip in Austria maker

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