

Sensera Limited

IP Commercialisation - Market Update

For personal use only

“Microfabrication & MEMS for the next generation of healthcare, industrial and defense applications”

April 2017

For Information Only



Disclaimer



For personal use only

This presentation is issued by Sensera Limited (ASX: SE1) ("Sensera" or "the Company") and is general background information about the Company's activities current as at the date of this presentation. The information is given in summary form and does not purport to be complete.

Sensera have made every effort to ensure that the information in this presentation is accurate. However, its accuracy, reliability or completeness cannot be assured. To the maximum extent permitted by law, we and our associates, respective officers, employees and agents, do not accept any liability for any error or omission or for any loss suffered as a result of others acting on the basis of the information contained in this document.

In particular you are cautioned not to place undue reliance on any forward looking statements regarding our belief, intent or expectations with respect to the Company's businesses, market conditions and/or results of operations, as although due care has been used in the preparation of such statements, actual results may vary in a material manner.

These statements are based on an assessment of past and present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this Prospectus, are expected to take place.

Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, its Directors and management.

Although the Company believes that the expectations reflected in the forward looking statements included in this presentation are reasonable, none of the Company, its Directors or officers can give, or gives, any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this document will actually occur or that the assumptions on which those statements are based will prove to be correct or exhaustive beyond the date of its making. Investors are cautioned not to place undue reliance on these forward-looking statements. Except to the extent required by law, the Company has no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this presentation.

The forward looking statements contained in this presentation are subject to various risk factors that could cause actual results to differ materially from the results expressed or anticipated in these statements.

- Information in this presentation, including financial information, should not be considered as advice or a recommendation to investors or potential investors in relation to holding, purchasing or selling securities. Before acting on any information you should consider the appropriateness of the information having regard to these matters, any relevant offer document and in particular, you should seek independent financial advice.

For personal use only

About Sensera



Sensera Market Strategy



1. High performance MEMS partner

Revenue generating with two anchor contracts in place and four additional customers

Located in heart of Boston biotech and technology hub close to major customers

Growing pipeline of 30+ companies

Highly efficient MEMS design + wafer fabrication facility with manufacturing infrastructure supporting US\$40m annual revenue

Embedded in process locks clients to long term relationships and revenue

Experienced team with extensive network to facilitate sales

2. Intellectual Property commercialisation

Team with broad global experience and track record of commercialising MEMS technologies

Leverage internal capability of team of engineers, designers and know-how

State of the art facilities to develop own products with US\$10m+ invested to date providing estimated 3 year barrier to competition

Ability to produce its own intellectual property matching solutions to market need

Several potential products in the pipeline, and acquisition candidates magnifies opportunity

For personal use only

First Internal IP Project “Towakon”



Towakon - Water Saving Device



The Water Drip Problem

- Slow drips waste up to 75 litres of water per day
- Water leaks of just 1 drop per second (0.3ml) can waste 10,000 litres per year
- In an apartment building of 400 units each with one drip per second leak = >USD20,000 wasted per year.
- In a 3 bathroom home you could save hundreds of dollars per year.

The Sensera Solution - "Towakon"

- Uses sensing expertise to detect ultra low leak rates of 1 drip per second
- Initial application is a water conservation product that will be a wireless connected technology that notifies of ultra low leaks and initiates auto shutoff on overflow
- Patent pending low leak detection technology is unique to the industry

Case Study - Residential

Water Rates

- For the average²American family of four, water rates in the USA range from 0.108 cents to 0.718 cents per litre

Home/apartment toilet leaks

- Average leak is 37,854 litres per year (USD40 to USD270 per year)
- 2,700 litres/day typical (caused by typical leaky flapper)
 - Wasted water = 312,000 litres/year for single toilet
 - Cost = USD88 to USD586 per month
- Average insurance cost for overflow event > USD5,000 to insurance companies after homeowner pays typical deductible of USD1,000.

Towakon Solution

- Home owner alerted of the leak (text or email)
- Corrective actions can be taken
 - Repair leak
 - Automatic turn off of water supply



Towakon Financial Benefit

- Annual Savings of USD1,000 to USD6,000 per continuously leaking toilet
- Eliminate risk of high damage cost from runaway overflow

Towakon Features

Communicates with your cell phone or the internet

Stay connected with the status of your home appliance. Is your toilet running and you don't know about it? Look it up on your mobile phone.



Detects continuous flow situations and warns you by audio, email or text

Audible alarm for overflow. Your toilet will email you if an emergency overflow occurs.



Autonomous emergency shutoff capability

Can be configured to shut down the water supply to your toilet if a run away situation is detected. Your protector is at home.



Self powered – no electrical hookup required

Ingenuous design derives power from water flow and requires no AC voltage.



Detects low leakages of 1 drop per second & less

Patent pending technology allows the detection of leaks as low as 0.3ml per second! This can result in 10,000 litres per year. In an apartment building of 400 units this can mean USD20,000 per year and the cost of water is rising every year as it becomes more scarce and expensive to supply.



Detects leaky flapper valve

Sometimes you don't even know your toilet flapper is leaking, but it is causing you to lose hundreds of litres of water.



Standard wrench to install or install by hand

Inserts between the supply valve and your toilet by hand!



Planned Design Options

For personal use only

Model	Battery	Generator*	Cutoff valve	Alarm	Bluetooth	Wifi	Function
Basic	X		X				Turns off water if toilet continuously runs
Basic +	X		X	X			As above and sounds audible alarm
Home enthusiast		X	X	X	X		As above and reports leak rates to cell phone app
Professional Superintendent walkaround		X	X	X	X		As above B2B version of above, superintendent walks around bldg. to query toilets
Professional Cloud Connected		X	X	X	X	X	B2B or consumer – capable of pushing information out over the internet to end user or management console computer

Least Expensive



Most Expensive

*Generator version has rechargeable battery

Towakon - Status



For personal use only

Project Status

- Manual prototype completed
- Miniaturisation of prototype underway
- Patent pending technology
- Q4 2017 - Finish prototype including full connectivity
- Q1 2018 - Commence marketing trials within relevant markets

Commercialisation Model

- Sensera applies sensor engineering expertise and microfabrication know how to develop and enhance innovative technologies and products
- Q4 2018 - Seek Corporate Partners for Towakon
- Multiple channels therefore one or more partners - e.g. Hotel and Hospitality, plumbing service and supply, building management, insurance companies and connected home

Why hasn't this been done before?

For personal use only

- Historically fresh water has not been expensive, now it is becoming a scarce global resource. **This will be the resource crisis of the 21st century.**
- The development of rapid prototyping equipment in conjunction with new low power wireless embedded technology leveraged off of the personal health technology industry – in 2016 a computer and wireless interface cost less than \$5. The drop in prices of enabling technology like 3D printing has allowed rapid development.
- The Towakon Invention uses a transformation of a previously undetectable event into a measurable phenomenon resulting in the ability to measure one drop per second.



For further information contact Matthew Morgan Executive Chairman Sensera Limited at mmorgan@sensera.com

