

Annual General Meeting
CEO Presentation

Brent Barnes

Managing Director & Chief Executive Officer

28th November 2018

ASX code: LBT Ibtinnovations.com

Disclaimer

This document contains certain forward-looking statements that involve risks and uncertainties. Although we believe that the expectations reflected in the forward-looking statements are reasonable at this time, we can give no assurance that these expectations will prove to be correct.

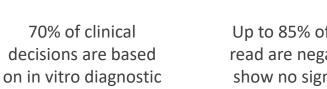
Given these uncertainties, readers are cautioned not to place undue reliance on any forward-looking statements. Actual results could differ materially from those anticipated in these forward-looking statements due to many important factors, risk and uncertainties including, without limitation, risks associated with medical device development and manufacture, risks inherent in the extensive regulatory approval processes mandated by regulatory authorities, delays in clinical trials, future capital needs, general economic uncertainly and other risks detailed from time to time in the Company's announcements to the ASX.

Moreover, there can be no assurance that others will not independently develop similar products or processes or design around patents owned or licensed by the Company, or that patents owned or licensed by the Company will provide meaningful protection or competitive advantages.



Challenges for Microbiology labs

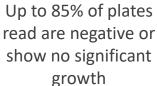


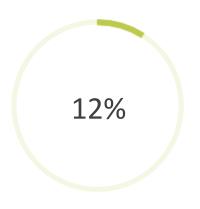


1.

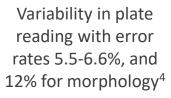


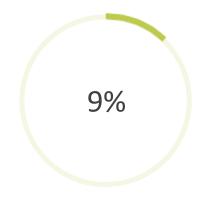
Inefficient resource utilisation





Inconsistent results





Qualified microbiologists

9%³ vacancy rate in the US. Average age of microbiologist is 51 years $(AU)^{1}$, 42 $(US)^{2}$



lab results

- MedVersus http://medversus.com.au/specialty/microbiology/
- 2. Data USA - https://datausa.io/profile/cip/260503/
- 3. ASCP Laboratory Workforce Report, April 10, 2018
- J. Clin. Microbiol. doi:10.1128/JCM.01380-16

Solution: APAS® Independence

The first and only automated culture plate reader. Automated imaging, analysis and interpretation of agar culture. *Powered by AI*.





Improve Time Management

Remove negatives out of the workflow



Accuracy

Higher quality and consistency of results



Workplace Safety

Increase workplace safety by lowering manual handling



Cost Efficiencies

Through more efficient use of staff and reduced risk of injuries



Australia: Launch Market

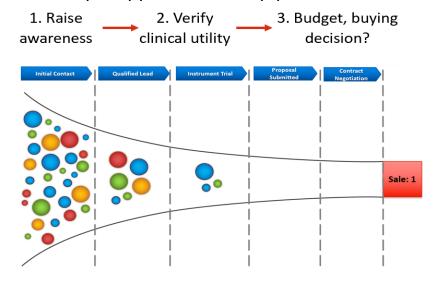


First global sale August 2018



Channel 7 Melbourne, Sunday 8th October 2017 https://www.facebook.com/7NewsMelbourne/videos/10155915549244301/

- Positive market feedback
- Pipeline sales targets identified, exact sales timing difficult to predict, sales cycle 6 – 12+ months
- Multiple opportunities in pipeline





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St. Vincent's Hospital, Melbourne, Australia LBT Innovations, Adelaide, Australia Clever Culture Systems, Switzerland



nethodology at St Vincent's

we automated chemistry and microscopy performed AV Inc., Japan]. In addition, urines are cultured, using it/Drilliance UTI chromogenic agar [Thermo Fisher e and incubated serobically at 350 for 19 hrs. Generally, three levels.

	APAS classification	
units (CFU) dotected	No growth	
CFU/L detected	Doubtful	
CFU/L detected	Probable or Review	

ng compared to standard

I by APAS independence and then assessed and suits reported by St Vincent's were extracted from the analysis variable was bacterial growth enumeration .0°+ CFU/L. Similarly, APAS independence calculated e using the largest enumeration of the two agars, nerated results generated by St Vincent's Pathology es were evaluated using a multiclass composite ant results to be resolved in an unbiased manner via processed and used for investigation of microbiologist

rendence into routine workflow

itory were routinely processed by APAS Independence, istigated and subsequently improved to facilitate ing this time laboratory efficiencies and staff utilization of the both the process of specimen preparation.

Results - APAS Independence vs St Vincent's Pathology standard workflow

Table 1: Confusion matrix outlining average sample classifications by SVP and APAS Independence after the unbiased discrepant resolution method.

			APAS Independence		
		NSG		sig	
SVP	NSG		333		
	SIG		35		

These data demonstrated a high level of agreement [91.6%, Table 1]. Where and APAS NSG disagreement [n-45], a large percentage were unogenital and at low levels above the 10° threshold, and 2 were slow growing alpha hemoly which presented as a hazy growth after 18 hours. In the case of the latter, flagged for review under normal SVP workflow, by virtue of a raised white APAS independence would re-route the plate away from NSG plate class classification.

Sensitivity and specificity were estimated and 95% confidence limit Wilson score method [1] within the unbiased discrepant resolution a is defined as the probability of APAS Independence detecting signifihas determined significant growth, and specificity as the probabily reporting non-significant growth where SVP has determined nonanalysis was performed in R 3.4.3 [3] and the results can be seen Table 2: Singlify while processing sitivity of APAS

valuation, APAS Independence was not interfaced to the labora.

Considering that approximately 70-80% of urine cultures return results

significant growth, there exists a potential for significant reduction (up to an estin

Operator feedback

Microbiologists rated the instrument's usability on a scale from 1 to 5, with 1 being "very complex to use" and 5 being "very easy to use". Three of the four microbiologists rated APAS independence usability as 5, whilst the other rated it as 4. They considered the availability of imaged cultures to be a key feature, along with the speed of APAS independence in both sorting and reading agar plates. Both the microbiologist and laboratory assistant groups cited the benefits of a simplified workflow, particularly in specimen set-up, as a major advantage of the instrument.

Published confirmation of clinical utility and efficiency in a lab

Significant growth Review Microbiologist Assessment No growth or no significant growth growth

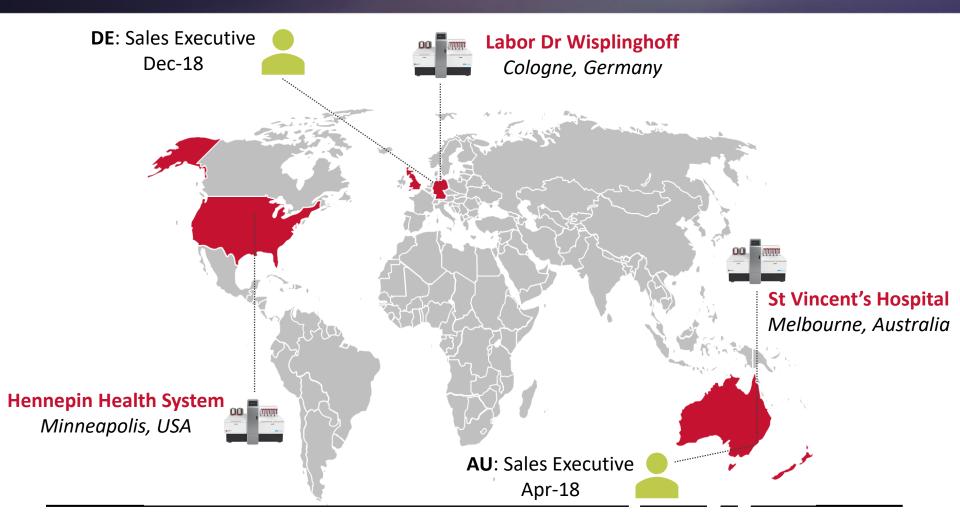
Conclusions

APAS Independence performed with a high level of sensitivity and specificity and facilitated operational efficiencies in both specimen processing and culture reading.

By removing the negative and non-significant urine cultures from the hands of microbiologists, APAS Independence allows for the redirection of microbiologist time to more complex tasks. Users reported a high level of engagement with the technology, most frequently citing the instrument's ease of use, high-quality image resolution and accuracy as the primary benefits.



Strategic placements: centre of excellence





Innovating Al and intelligent imaging for the future of healthcare



Future: Building Strategic Capability

Transitioning from outsourced development to internal capability. Critical to develop future analysis modules

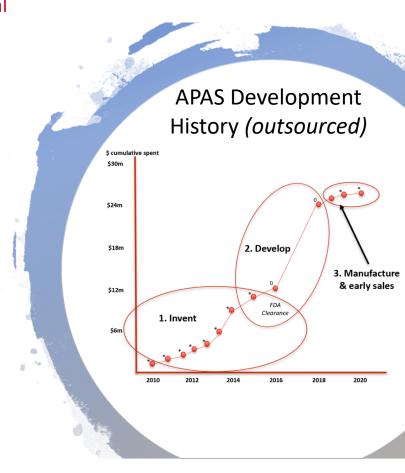
Our Values:







- People investment: Artificial intelligence, software engineering, science. Unique value proposition.
- Technology proven -> insourcing increases efficiency and reduces cost
- Directly control development of additional analysis modules in sustainable way



Outlook

Submit 510(k) for APAS Independence (update to be Regulatory 2019 given by 31-Dec-18) FDA clearance **Present publications** ECCMID ASM Market Development **Expand reference sites** Analysis module development Develop international sales pipeline, leading to local distributor(s) placement Sales Activity Modest sales – building



adoption during CY2019



Brent Barnes

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