

GSS snapshot



GENETIC SIGNATURES DEVELOPS AND MANUFACTURES MOLECULAR DIAGNOSTICS KITS BASED ON ITS PROPRIETARY 3BASETM TECHNOLOGY

Established revenues

Track record of revenues de-risks development and sales expansion

Focus on profitability

High margin, high volume sales with multiple patents issued (expire 2031+)



Strong sector tail-winds

Surging global MDx market growing from US\$6bn to US\$12bn in 2022

Strong portfolio growth

Substantial product growth with 5 products expected by end of 2018

Geographic expansion

Expansion underway into key US and EU markets

The science behind *3base™* technology



THE 3BASE™ TECHNOLOGY WAS PIONEERED BY GSS FOUNDERS IT GREATLY REDUCES COMPLEXITY IN GENETIC TESTING ALLOWS TESTING FOR MORE DISEASES WITH HIGHER ACCURACY

3base[™]technology

- 3base[™] platform technology converts original 4base microbial genome to 3-base
 - Reducing complexity in molecular testing
- Conversion occurs during standard procedures with no additional steps for the technician

3base[™] MDx testing is focused solely on the detection of infectious diseases

- √ 3base[™] MDx can identify a wider array of patient infections than current diagnostics
- ✓ Reduces time to results (5 vs 24+ hours for conventional methods)
- ✓ Provides greater testing accuracy

3base[™] technology in the detection process

Regular cell Lysis and preparation steps

Original genome



1,048,576 combinations for a 10 digit number with 4-base

3base[™] conversion



Converted 3base™ genome



59,049 combinations for a 10 digit number with 3-base

Standard Real-Time PCR instrument



EasyScreen[™] products built on **3base[™]** technology

GSS is commercialising a range of MDx tests based on 3base[™] and branded as EasyScreen[™]

EasyScreen™ kits offer faster and more effective detection of infectious disease

- ✓ Four product families available covering enteric microorganisms, respiratory viruses (including influenza), ESBL & CPO "Superbugs" and STIs
- √ Target customers are high-volume hospitals and pathology laboratories

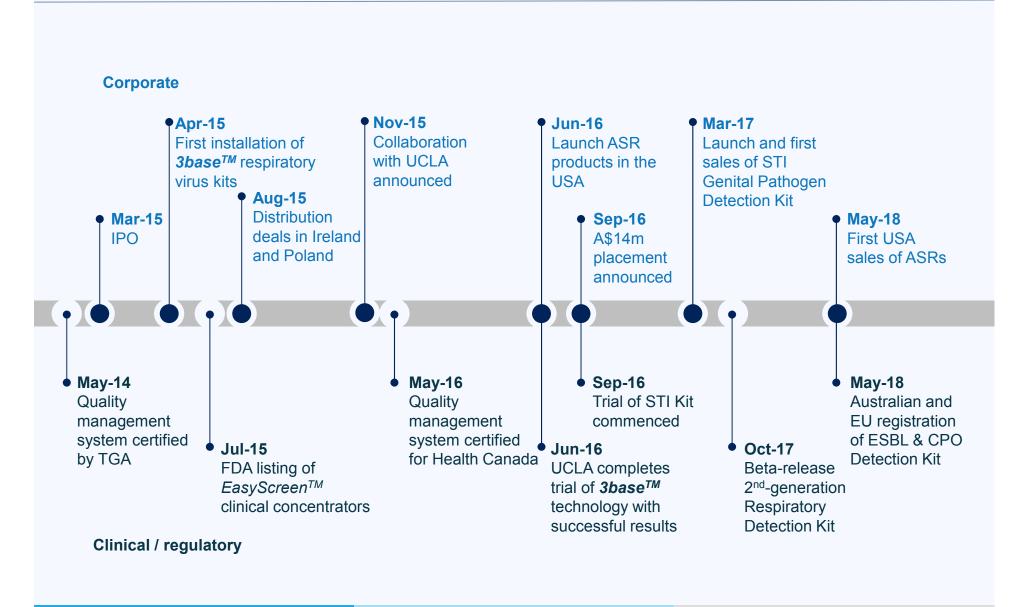


- ✓ Common Workflow all tests work under identical conditions
- ✓ Platform agnostic compatible with common existing laboratory equipment
- ✓ High specificity superior accuracy of results
- ✓ Rapid time to result (4 5 hours) would traditionally take 4 - 5 days

EASYSCREEN™ KITS IDENTIFY MORE PATHOGENS IN LESS TIME



Significant operational progress since IPO in 2015





GENETIC SIGNATURES HAS A CLEAR FOCUS ON REVENUE GROWTH IN 2018 DRIVEN BY ITS INTERNATIONAL EXPANSION AND NEW PRODUCT RELEASES

Roll-out of expanded product suite

- Current expectations of 5 product groups to be approved in the near term across target regions
- Continued progress with international registrations

Targeted international sales expansion

- Sales expansion into North America (US\$4.6bn market)
 and Europe (US\$1.6bn market)
- Strong customer pipeline with +12 trials underway

Capitalise on the growing MDx opportunity

- Independent projections of total MDx revenue reaching >US\$12bn by 2022
- Substantial current corporate activity within the MDx sector several acquisitions underway



STRONG REVENUE GROWTH CONTINUES WITH SOME SEASONALITY

3Q FY18 Revenue Update

- ✓ Strong quarterly revenue of A\$714k in 3Q FY18, representing a +55% increase on pcp
- ✓ Repeat orders of
 Flavivirus/Alphavirus
 (Dengue, Zika etc) and
 Respiratory kits sold to the
 Kenya Medical Research
 Institute

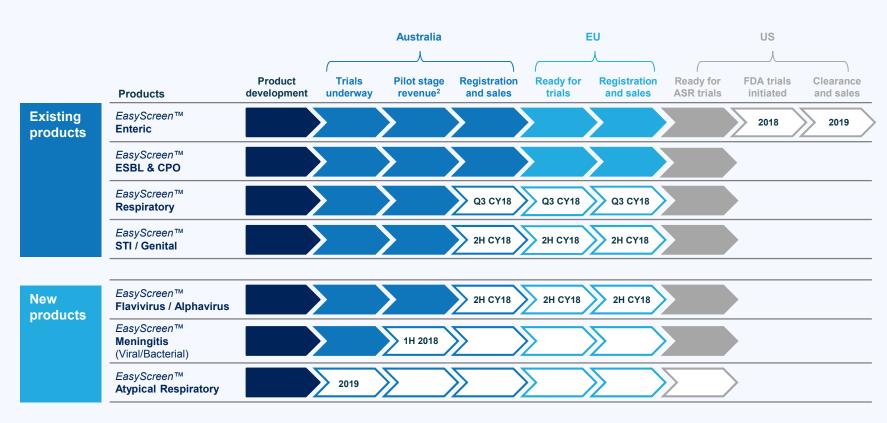
3Q performance continues consistent quarter-on-quarter revenue growth since listing in 2015

Quarterly revenue (A\$000)





Clear path to global commercialisation for all products



Notes:

- 1: Each of the product suites may contain multiple different individual products, requiring multiple regulatory submissions and registrations for a suite of products
- 2. Pilot stage revenue generated from sales for research use only (medical professionals may use products for diagnosis only where they validate results with independent testing)
- 3. Sold as individual Analyte Specific Reagents (ASR) for a number of pathogens in the USA

GSS HAS MADE SUBSTANTIAL PROGRESS ON ALL PRODUCTS SINCE IPO

US\$1.2bn market opportunity for 3 existing products





ENTERIC



RESPIRATORY



STI

Commercialisation underway with full regulatory registration in Europe received

3base[™] advantages:

- Tests for over 20 potentially deadly enteric pathogens including salmonella, C. difficile Bacteria and Protozoan
- Successful trials and validation with higher accuracy, sensitivity and detection rates

Market opportunity:

US\$380m

Global addressable market (2017)

Significant growth opportunity with Registrations in Australia and Europe in progress

3base[™] advantages:

- Simultaneously identifies 15 of the most common respiratory viral infections
- Rapid screening across high volume sample sets
- Detects significantly more respiratory infections compared to existing methods

Market opportunity:

US\$290m

Global addressable market (2017)

pathogens contracted by 1 million people daily

Innovative STI detection kit testing

3base[™] advantages:

- Proven market (sales underway)
- Highly successful clinical trials and validation
- Rapid testing for 12 pathogens
- Uses existing lab equipment
- Higher accuracy, sensitivity and detection rates compared to existing techniques

Market opportunity:

US\$550m

Global addressable market (2017)

Sources.

1: World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas) Kalorama Information, Published: 1/9/2013, page 168

Executing a global strategy for commercialisation



12+ TRIALS PLANNED GLOBALLY INCLUDING 3 DOMESTIC TRIALS



Europe: Rapidly increasing footprint to be ready for product approvals

Trials underway

- ✓ Increasing direct sales and support staff
- ✓ Distributors appointed (Italy, Israel, Ireland and Poland)
- ✓ CE-IVD approvals granted (2 product groups: enteric and ESBL & CPO)
- ✓ Appointment of a field scientist based in Europe Plan to appoint additional distributors in short term Product trials underway



Trials underway

- √ First ASR sales achieved in the US
- ✓ Sales permitted through US FDA listing and ASRs
- ✓ Certified for Health Canada

Immediate focus on securing trials with larger pathology labs

ASR product trials underway



Australia: Continued rapid growth

Small base of customers with a number of trials underway

- ✓ Establish foothold
- ✓ Proven product traction

Further customer acquisitions planned in 2018



Estimated MDx market size (2017)

Source: World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas) Kalorama Information, Published: 1/9/2013, page 94.

Board of Directors have a track record of success





Michael Aicher Executive Director

- Currently based in the US
- Has significant experience in driving US sales
- Founder of National Genetics Institute
- Led Lab-Corp's esoteric business generated US\$1bn revenue p.a.





Anthony Radford Non executive Director

- Significant sales experience
- Co-Founder and CEO of Cellestis until acquired by Qiagen for c.A\$400m
- Proven track record of executing a sales strategy into Europe



Nick Samaras Non executive Chairman

- Significant experience leading international sales teams
- Former Managing Director of Applied Biosystems (Thermo Fisher)
- Senior executive roles at Perkin Elmer and AMRAD Corporation (CSL)



Phillip Isaacs

Non executive director

- Former Managing Director of Australian subsidiary of Technicon Equipment
- · Former Managing Director of Beckman Instruments in Australia





John Melki

Managing Director and CEO

- Led global commercialisation efforts of GSS since 2011 and the product development team since 2003
- Led the commercialisation of two research products worldwide and seven diagnostic products in Australia and Europe



Australia: continue rapid growth



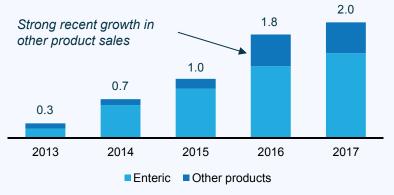
AUSTRALIA IS THE PLATFORM FOR INTERNATIONAL SALES

Commercialisation progress

Established foothold

- Recent relocation to larger facilities to accelerate next phase of operational growth
- Secured relationships with top tier customers in NSW and Victoria
- Established customer relationships increase ease of new product sales
- Platform in NSW and Victoria has driven strong revenue growth over last 4 years

Revenue (A\$m)

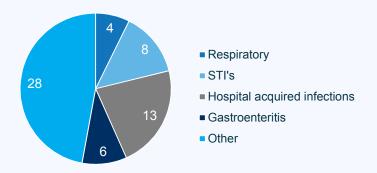


Next steps

Rapid customer acquisitions

- Targeting trials with large hospitals and clinical labs in Australia to provide significant domestic revenue growth
- Focus on new customer acquisitions
- New Australian Sales Marketing and Support manager appointed
- Target customers include pathology labs, hospitals and large research laboratories

Australia MDx market potential (US\$m)



Sources:

1: World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas) Kalorama Information, Published: 1/9/2013, page 94.

Europe: strong progress on multiple fronts



ACTIVELY INCREASING FOOTPRINT TO BE READY FOR PRODUCT APPROVALS

Commercialisation progress

Distributors hired and testing underway

- Currently adding to European team
- Field scientist appointed based in Europe
- Recent CE-IVD registration for ESBL & CPO "superbug" Detection Kits
- Sales logistics being finalised with EUbased warehouse in final legal review
- Building traction with customers with sales
 order received across a number of products
- Established VAT deferment program

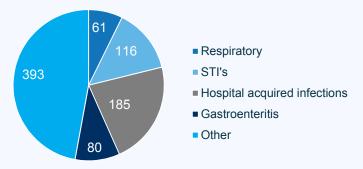
Genetic Signatures is developing a mix of direct sales and partnerships with distributors across Europe to optimise the sales network

Next steps

Strategic market with large opportunity

- Europe has an addressable MDx market of c.**US\$435m** - c.20% of the global market¹
- Continue to drive revenue growth and regulatory registration for STI and respiratory products in Europe
- Actively recruiting for sales and support staff in multiple countries
- Advanced discussions with new distributors in other European countries

European MDx market potential (US\$m)



Sources:

1: World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas) Kalorama Information, Published: 1/9/2013, page 94.





SALES STRATEGY TO ACCELERATE FOLLOWING FDA CLEARANCE

Commercialisation progress

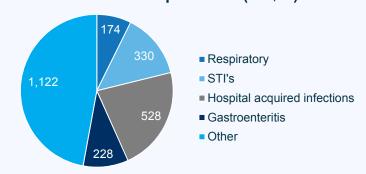
Largest market for MDx globally

- Addressable market of approximately
 U\$\$1,265m, c.55% of the global market
- Over 5,600 registered hospitals in the USA and 11,000 CLA certified laboratories

Next steps

 FDA listings of Clinical Concentrators in place to allow initial sales

North American MDx potential¹ (US\$m)



Increasing traction with ASR approach

- First ASR sales contract received with US pathology laboratory
- Several labs assessing the potential for ASR products available for sale in the USA
- Initial trials established with local clinical labs using GSS supplied products in FY17
 - Trials reaching conclusion
- Also progressing towards securing FDA clearance for Enteric Protozoan Detection Kit
- 3base[™] technology has patents issued in the US
- Quality Management System certified for Health Canada

Sources:

1: World Market for Molecular Diagnostics, 5th. Edition (Infectious Disease, Oncology, Blood Screening, Pre-Natal and Other Areas) Kalorama Information, Published: 1/9/2013, page 94.



Near terms focus on product range and sales growth



Corporate summary



REVENUE STAGE HEALTHCARE COMPANY LISTED ON THE ASX

Genetic Signatures Limited (ASX: GSS)

A specialist molecular diagnostics company

- Focused on becoming a global leader in the supply of molecular diagnostic solutions
- Developing and commercialisation its proprietary platform technology, 3base™
- Implementing its commercial strategy through a team of 30+ across Australia, Europe and North America

Financial information

Enterprise value	A\$32.0m
Debt (31-Mar-18)	Nil
Cash (31-Mar-18)	A\$10.6m
Market capitalisation	A\$42.6m
Shares on issue	103.9m ¹
Share price (21-May-18)	A\$0.410



Top shareholders	%
Asia Union and Christopher Abbott	39.6
Deutsche Bank AG	14.2
Directors, management & advisors	>6.0

Notes.

^{1:} Excludes 1.05m unquoted options (various expiration dates and prices)

Investment highlights



A REVENUE-STAGE HEALTHCARE COMPANY ACCELERATING THE GLOBAL COMMERCIALISATION OF ITS UNIQUE DIAGNOSTIC PRODUCTS

- Genetic Signatures (GSS) designs and manufactures Molecular Diagnostic products that have substantially greater efficacy than traditional solutions
- Domestic customer base generated A\$2m+ revenue in FY17
- Scalable business model with high gross margins
- Strong revenue growth pipeline driven by sale of existing products to new customers and supported by complementary new product releases
- Sales expansion planned in FY18 across North America and Europe to capture part of the US\$2bn addressable global market opportunity
- Valuable intellectual property portfolio with 100%-owned 3base™ technology and key patents issued, some expiring 2031
- Strong balance sheet with cash of A\$10.6 million at 31 March 2018

Notes:

All Medical Diagnostics (MDx) tests are solely focussed on the identification of infectious diseases

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