



ANATARA  
LIFESCIENCES

# Annual General Meeting

15 November 2016

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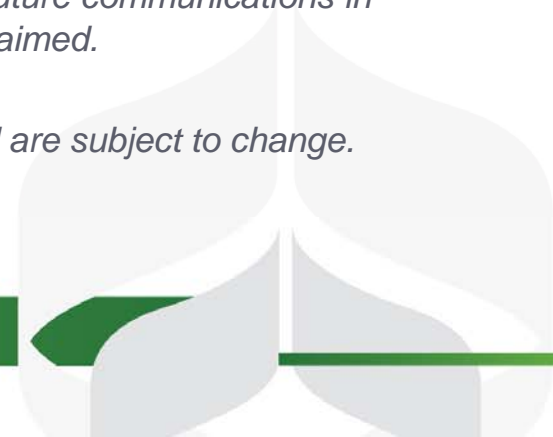
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# Key Financial Details

<b>ASX Code</b> <b>ANR</b>	<b>Market Capitalisation</b> <b>\$54.4 million</b>	<b>Share Price<sup>1</sup></b> <b>\$1.10</b>
<b>Current Cash<sup>2</sup></b> <b>\$13.8 million</b>	<b>Ordinary Shares</b> <b>49,413,236</b>	<b>Share Price</b> <b>up 162%</b> <b>since IPO</b>

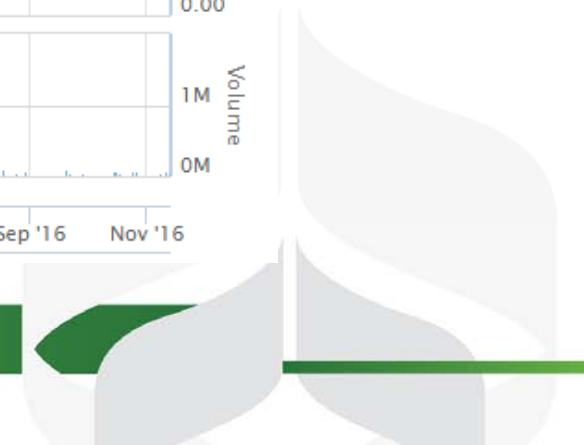
1. As at 14 November 2016
2. Appendix 4E - 30 June 2016



# ANR Share Price Chart



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# Oral therapeutics for gastrointestinal disease in livestock and humans

## Detach™

- Natural, safe, non-antibiotic therapeutic that prevents and treats gastrointestinal diseases, including diarrhoea
- Meets the need to reduce the use of antibiotics in animal production
- Unlike antibiotics, Detach™ will not contribute to antimicrobial resistance



# Need to combat antimicrobial resistance

resistance to antibiotics ‘....*the greatest and most urgent global risk*’

General Assembly of the United Nations 2016

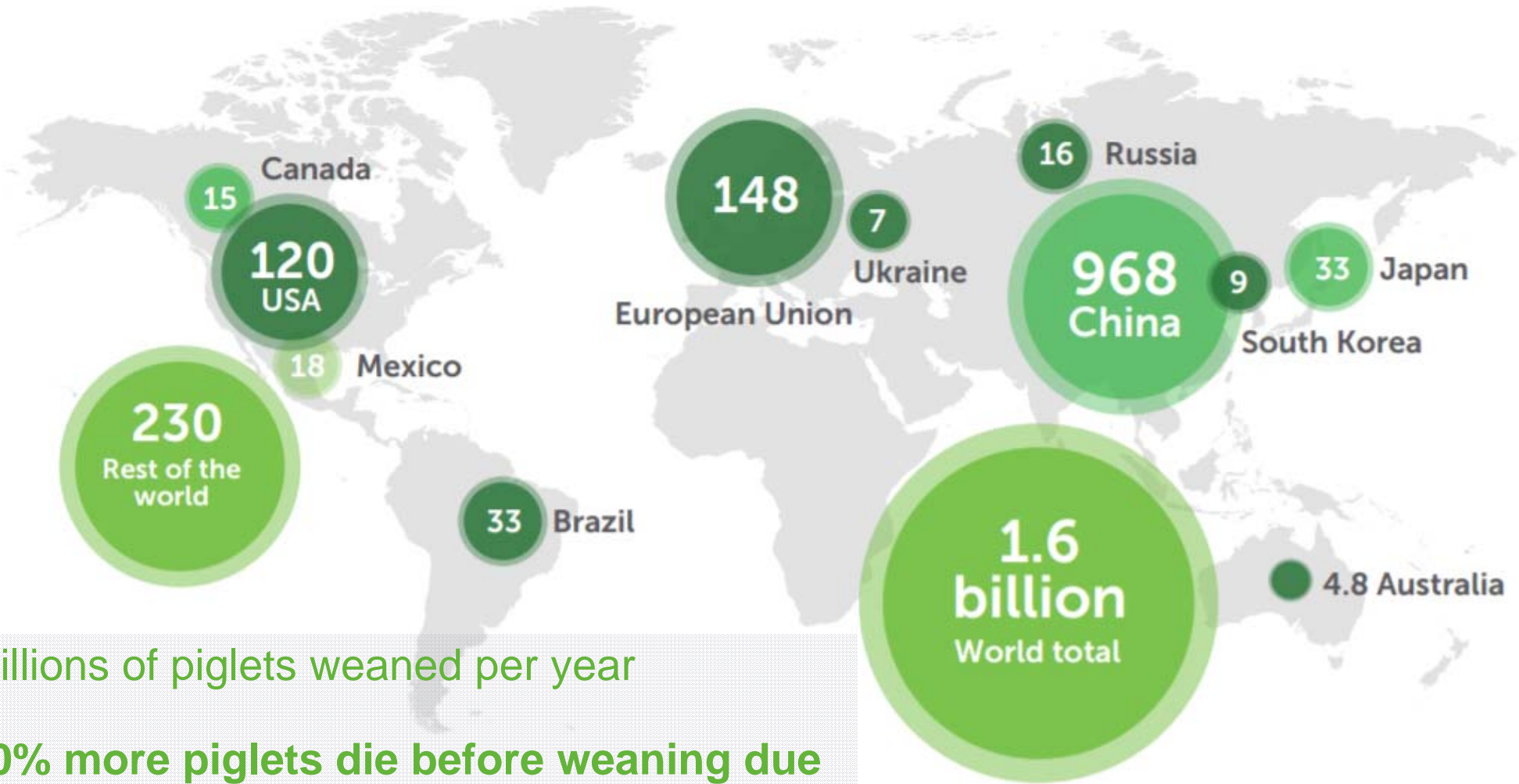
*Antibiotic resistance driven by the overuse of antibiotics*

- **10 million**: the number of people who will die every year due to AMR by 2050
- **\$100 trillion**, the estimated total GDP that will be lost globally by 2050 if AMR isn't tackled



# Lead Indication – Pigs

Diarrhoea affects hundreds of millions of piglets born each year



Millions of piglets weaned per year

**20% more piglets die before weaning due to health issues**

# Market Opportunity is clear

- Detach™ addresses a major need – the livestock industry need effective alternatives to antibiotics to prevent diarrhoea
- Global animal antibiotic market valued at ~ \$4.6 billion in 2014<sup>1</sup>. Production animals 70%. Pigs lead by market share of 25%.
- Pork is #1 consumed meat in the world
- Global demand for meat is rising. More than 85% more meat needed by 2030<sup>2</sup>.
- Governments are banning antibiotics for growth promotion and restricting prophylactic use in animal production
- Consumers want their meat to be safe
- Retailers are pledging to offer '*antibiotic free*' meat





# FY16 – Key Achievements

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## Milestone

### Partnering

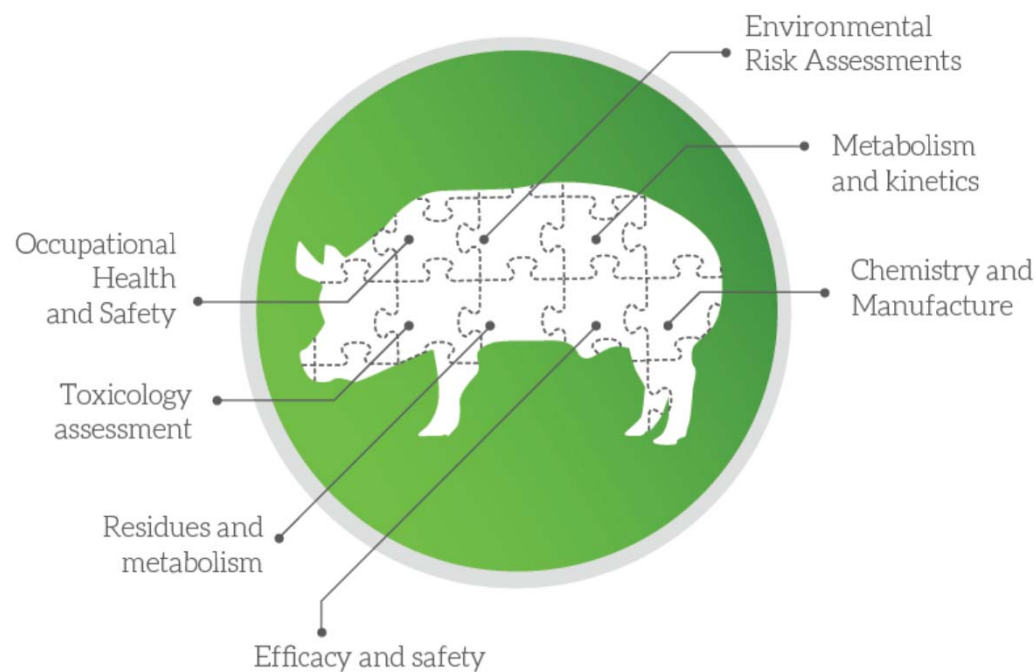
Zoetis have exclusive worldwide right (excl. AU/NZ) to evaluate Detach™ for veterinary use in livestock

### Animal safety trials

Detach™ proven safe in piglets even when administered at 5x and more frequent than the recommended dose

### Submission of dossier to APVMA

Anatara's application for registration of Detach was lodged with the APVMA (post reporting period).



# Detach™

## Poised for swift market entry

Commercially validated, supported by demand

- A clear path to market: Launch in 2017
  - Proven efficacy on commercial pig farms (therapeutic claims)
  - Proven safety (active ingredient is GRAS)
  - Manufacturing complete at commercial scale and global supply confirmed
- Introduction of Detach™ is supported by industry, government, retailer & consumer demand
- Commercially validated
- Detach™ will be supplied in Australia via pre-existing distribution channels (Australian pork industry is heavily consolidated)



Current 50 kg scale  
(≈500,000 doses)



1,000 kg capacity  
(≈8,500,000 doses)





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## Human Applications

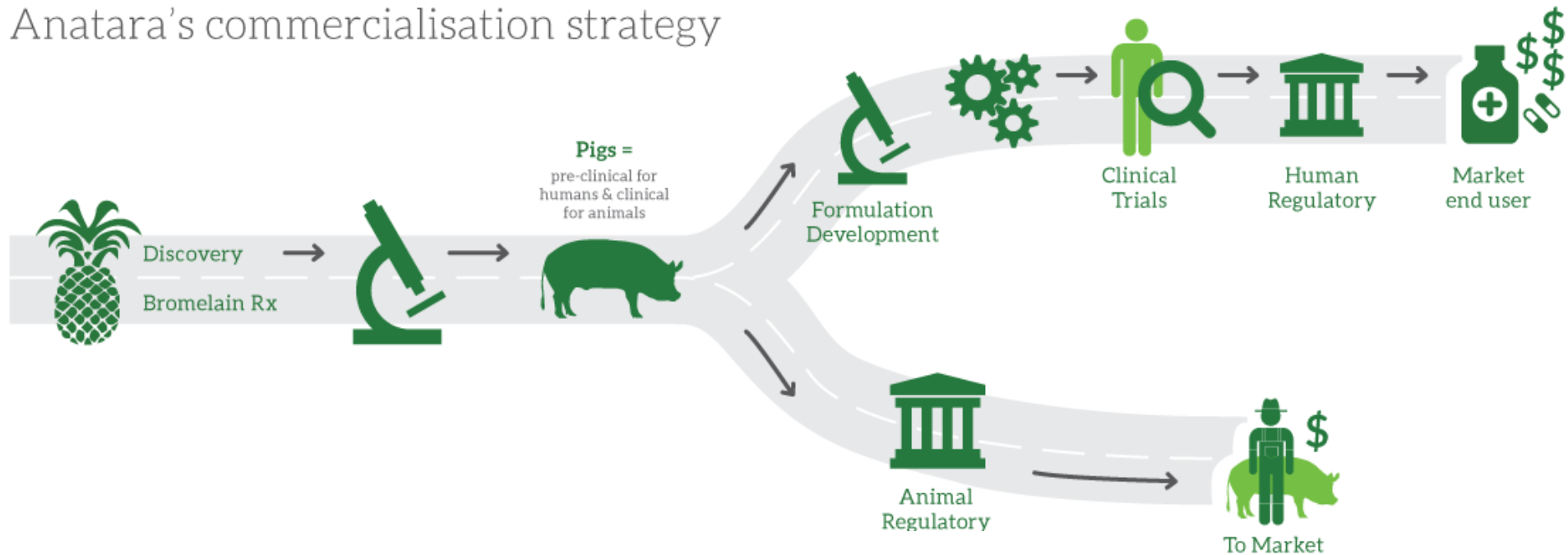
*There are 4 billion episodes of diarrhoea in the world annually.*

*Diarrhoea is the second cause of death in children under 5 years, and the leading cause of malnutrition.*



# Detach™ from Pigs to People

Anatara's commercialisation strategy



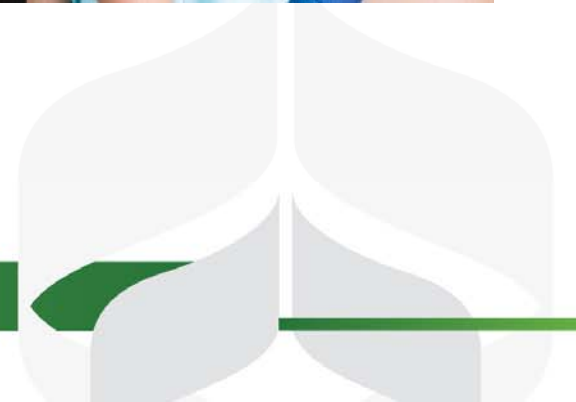
Detach™  
- From Pigs  
to People

- Same mechanism of action for treatment of disease in pigs and humans
- Pre-clinical program for animals complete therefore development for humans de-risked
- Clinic ready (CMC, Toxicology, Pharmacology well developed)
- Ready to Partner/Develop



# Anatara technology – for humans

- Detach™ technology to treat human gastrointestinal conditions, such as:
  - Inflammatory bowel disease and
  - Irritable bowel syndrome
  - Traveller’s Diarrhoea
- Significant unmet need not addressed by current products



# Human gastro related disorders/disease

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## Traveller's diarrhoea

**50 million**  
travellers at risk per year.  
Rising to 100 million by 2020.



TD is a threat to military efficiency and preventative treatment is a priority for the US Army



## Developing countries

**#2** cause of death in under 5's  
(1.3 million kids per year.)



## United States of America



~ 211-375m episodes of diarrhoea p.a.  
116m people use anti-diarrhoea medication (31%).

# Detach™ for Humans

## Status

- Mode of action clearly understood, based on decades of research
- Pre-clinical efficacy database is very strong due to leverage of Detach™ data from pig studies
- Proof of concept in several animal models
- Confirmed efficacy in rabbit models with human diarrhoea pathogens
- Proof of concept in mouse model of inflammatory bowel disease
- Margin of safety studies (1x, 3x and 5x dose) in piglets completed (TAS study)
- Human Safety studies (Phase I) in healthy volunteers completed
  - 28 day treatment was very well tolerated



# Thank you

***Anatara's naturally derived substances offer a safe but effective alternative to antibiotics for gastrointestinal diseases and the Company is uniquely positioned to fulfil a currently unmet need in the huge, global animal health market.***

Dr Mel Bridges, CEO & Chairman, Anatara Lifesciences

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