



**31<sup>st</sup> Annual JP Morgan Healthcare Conference**

**January 7-10 2013**

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## **Leading developer of inhaled pharmaceuticals**

- Two late-stage products, partnered with Novartis, in development for COPD
  - NVA 237 (US) & QVA149 (EU/Japan/RoW/US)
  - Comprehensive development programme driven and fully funded by Novartis
- Approved product (Seebri<sup>®</sup> Breezhaler<sup>®</sup>), for COPD in EU & Japan/RoW
  - Marketed by Novartis

## **Three generic respiratory programmes**

- VR315 - Licensed in EU/RoW (Sandoz) and in US (undisclosed partner)
- VR506 - Development ongoing to generate licensing package
- VR632 - Licensed in EU (Sandoz)

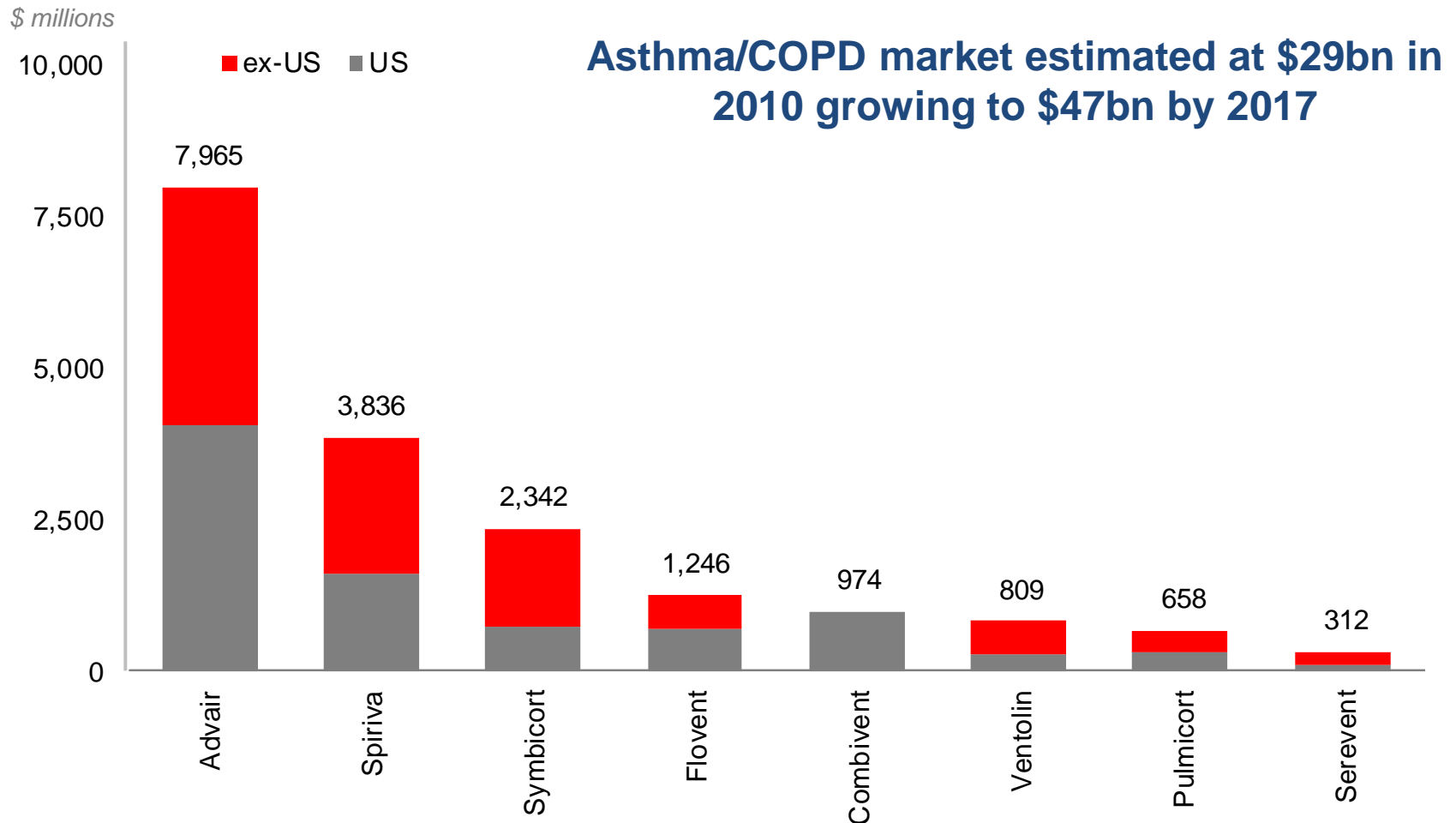
## **Technology platforms, validated by deals, underpin product focus**

- Number two globally in respiratory patent filings (DPI technology & formulation)
- “Big Pharma” validation e.g. current deals with Novartis, Sandoz and GSK

## **Strong balance sheet with £72.1m in cash**

- Supported by existing royalty streams and a disciplined approach to cost control

# Significant Respiratory Market Opportunity



Source: Sell side analyst reports; BCC Research (2012)

## ❖ Three major COPD drugs drive current sales of ca. \$10bn

- Advair<sup>®</sup>/Seretide<sup>®</sup> (ICS/LABA combination) \$3.5bn COPD sales in 2011
- Symbicort<sup>®</sup> (ICS/LABA combination) \$1.2bn COPD sales in 2011
- Spiriva<sup>®</sup> (LAMA) \$4.4bn COPD sales in 2011

## ❖ Treated according to GOLD guidelines

- 2011 update classifies patients according to two key attributes:
  - Symptoms
  - Exacerbation risk

## ❖ Current inhaled therapies

- Bronchodilators
  - Long acting muscarinic antagonists (LAMA)
  - Short/long acting beta agonists (SABA/LABA)
- Inhaled corticosteroids (ICS)

- ❖ **Single LAMA products to remain an important product class (NVA237)<sup>1</sup>**
  - ~ 30% volume share within 7 years
  - Upside opportunity from use of LAMAs in asthma
    - Encouraging exacerbation data in severe asthmatics using Spiriva (ERS 2012)
  
- ❖ **LAMA/LABA combinations will redefine the standard of care in COPD (QVA149)**
  - The combination is synergistic over its components
  - Combination products expected to alter market dynamics<sup>1</sup>
  
- ❖ **Conclusion: Vectura is poised to capture significant value**
  - Seebri<sup>®</sup> Breezhaler<sup>®</sup>
  - QVA149
  - Generic products

<sup>1</sup>Source: Sell-side analyst research

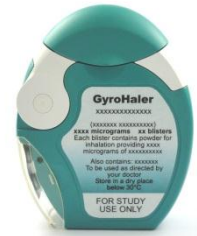
- ✔ **Once-daily maintenance bronchodilator treatment for COPD licensed to Novartis**
- ✔ **Seebri<sup>®</sup> Breezhaler<sup>®</sup> approved in EU, Japan, Australia & Canada**
  - US filing expected Q1 2014
- ✔ **Comprehensive Phase III clinical trial programme**
  - Being undertaken by Novartis
- ✔ **Market roll out is underway**
  - Launched in Germany, UK & Japan by Novartis

- ✔ **Significantly derisked: component drugs and device already approved for COPD**
  - Indacaterol maleate - Onbrez<sup>®</sup> Breezhaler<sup>®</sup>
  - Glycopyrronium bromide - Seebri<sup>®</sup> Breezhaler<sup>®</sup>
  
- ✔ **Regulatory filing recently submitted by Novartis in EU (Oct. 2012)**
  - Japan regulatory filing submitted by Novartis in November 2012
  
- ✔ **Novartis expected to file in US by end 2014**
  
- ✔ **Comprehensive COPD registration trial programme undertaken by Novartis (IGNITE)**
  - > 7,000 patients across 42 countries
  - Significant improvements over
    - Placebo
    - Tiotropium bromide
    - Salmeterol/fluticasone
    - Individual components



## GyroHaler® - competitive product design

- Performance engineered to match brand-leaders
- Easy to use
- Inexpensive, minimalist design
- Accurate, reproducible dosing through excellent protection of the powder formulation



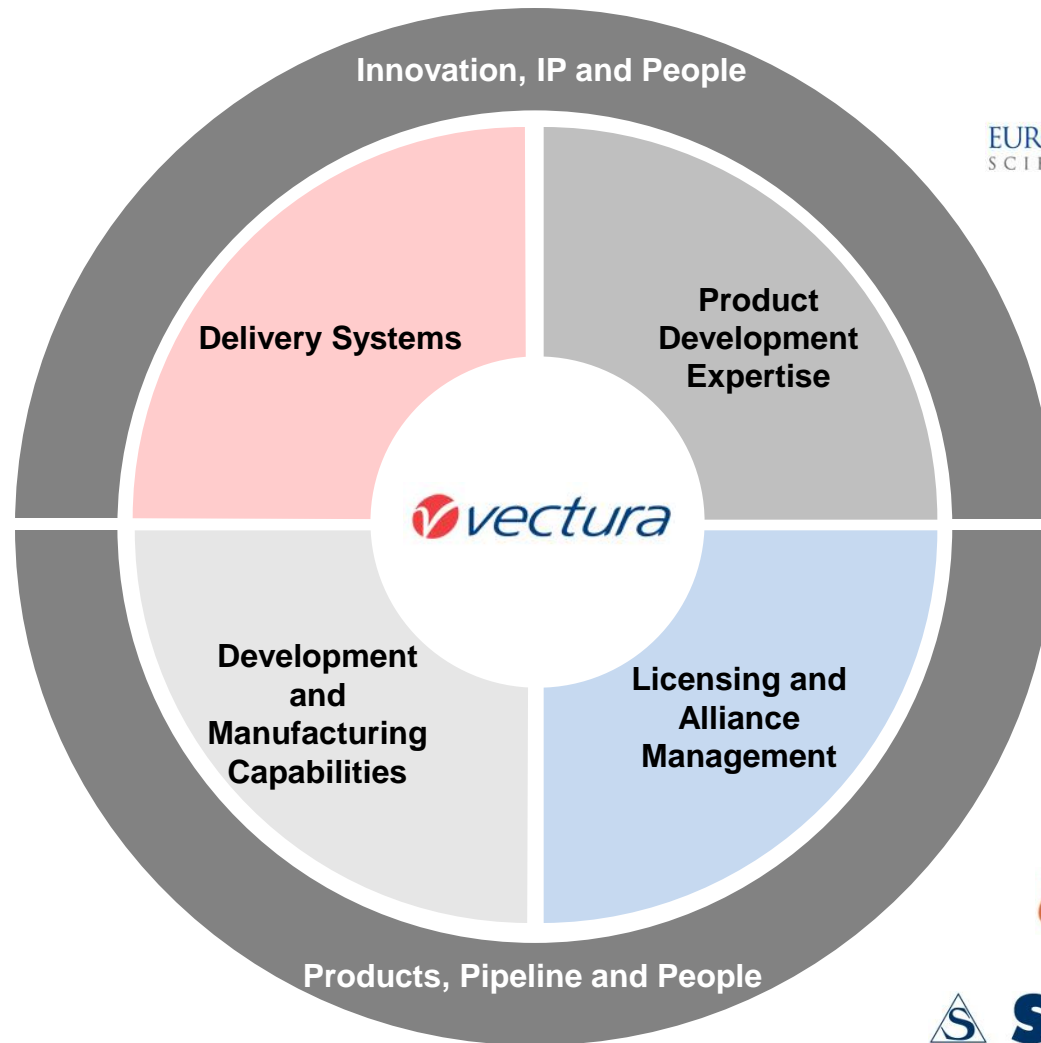
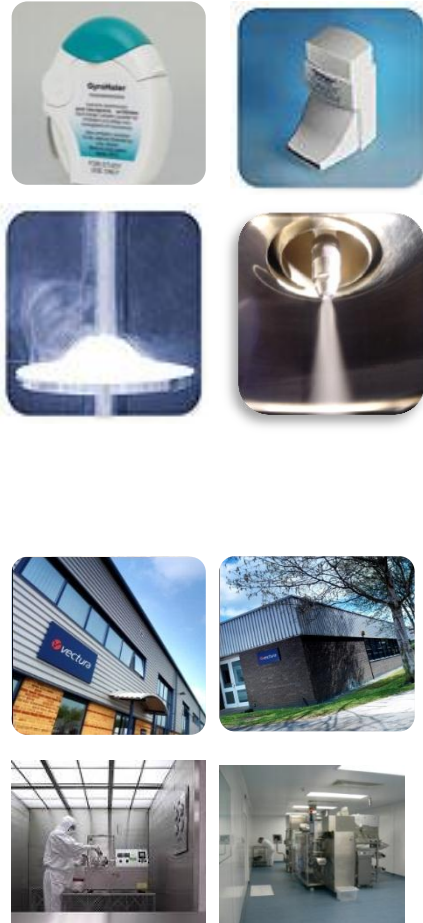
## Focus on promising, high value products

- VR315 - Licensed in EU/RoW (Sandoz) and in US (undisclosed partner)
- VR506 - Development ongoing, strong out-licensing candidate
- VR632 - Licensed in EU (Sandoz)

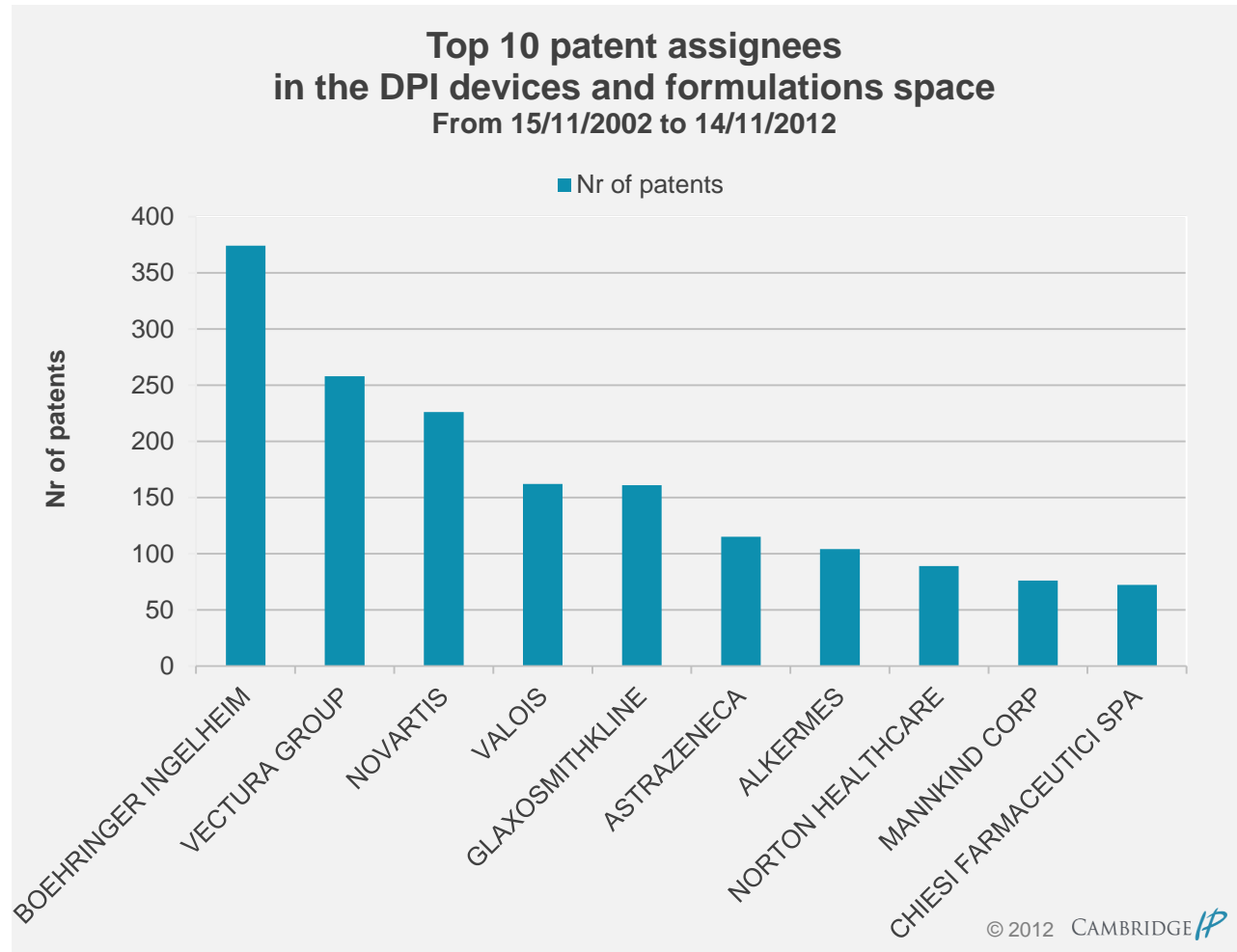
## Comprehensive understanding of complex regulatory requirements

- Significant experience of interaction with regulators, particularly the EMA and FDA

# Success Factors Underpinning our Product Development



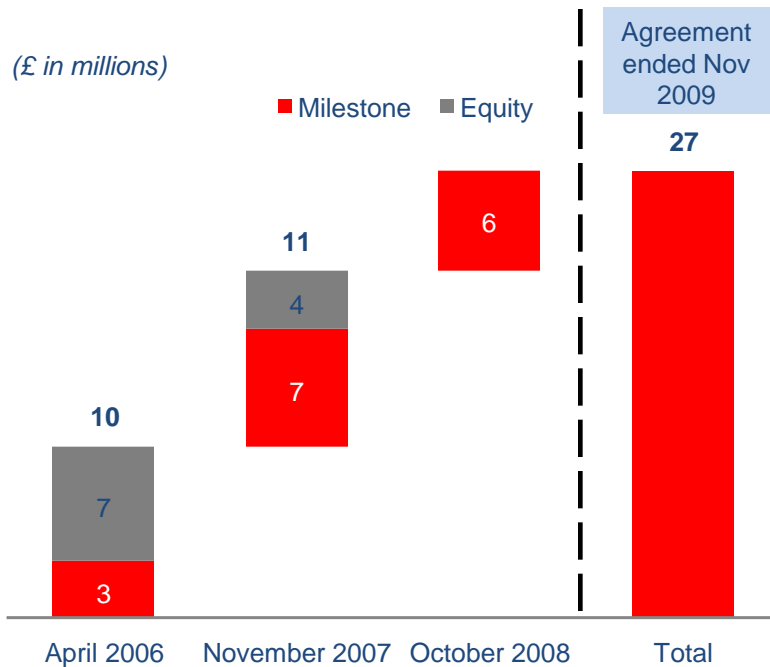
# Significant IP Generation within DPI Space



## Examples of Vectura IP deals

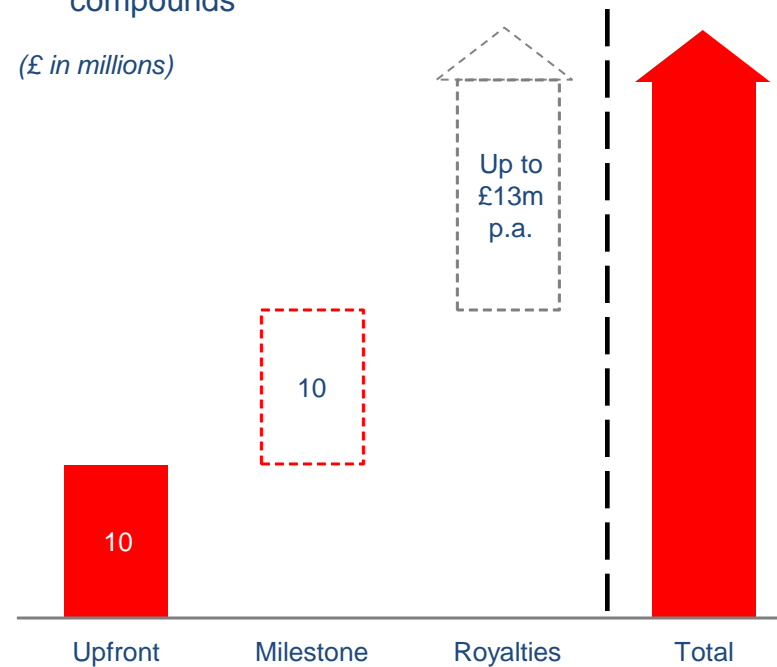
### Boehringer Ingelheim (April 2006)

- Worldwide collaboration, development and licence agreement



### GSK (August 2010)

- Licensing of Vectura's drug formulation patents in relation to two late stage development compounds



No additional investment required to generate these returns

Vectura invests approx. £3m per annum on its patent portfolio

Attractive returns from IP portfolio and know-how

- ✔ Strong cash balance of £72.1m
- ✔ Supported by recurring revenue
- ✔ Prudent approach to overall cost management

£m	H1 2012/13	H1 2011/12	FY 2011/12
Revenues	17.0	21.1	33.0
Gross profit	16.9	19.7	30.8
EBITDA	2.6	4.9	(4.2)
Profit/(loss) after tax	0.9	2.6	(4.4)
<b>Cash</b>	<b>72.1</b>	<b>80.2</b>	<b>75.5</b>

# Anticipated Near-term Catalysts



NVA237	QVA149	VR315	VR632	VR506
<ul style="list-style-type: none"><li>• EU &amp; Japan approval &amp; launch</li></ul> <p style="text-align: center;">✓</p>	<ul style="list-style-type: none"><li>• EU &amp; Japan filing</li></ul> <p style="text-align: center;">✓</p>	<ul style="list-style-type: none"><li>• US development milestones</li></ul> <p style="text-align: center;">✓</p>	<ul style="list-style-type: none"><li>• Further development progress</li></ul>	<ul style="list-style-type: none"><li>• Clinical progress</li></ul>
<ul style="list-style-type: none"><li>• Filing in US</li><li>• Approval in US</li></ul>	<ul style="list-style-type: none"><li>• Approvals in Europe &amp; RoW</li><li>• Approval in Japan</li><li>• Filing &amp; approval in US</li></ul>	<ul style="list-style-type: none"><li>• Further development milestones</li><li>• Approvals in Europe &amp; RoW</li><li>• Approval in US</li></ul>	<ul style="list-style-type: none"><li>• Approval in Europe</li><li>• Licensing for other territories</li></ul>	<ul style="list-style-type: none"><li>• Out-licensing and approval</li></ul>

- ✔ **Significant clinical and regulatory success with key branded programmes**
  - Driven by Novartis
  - First launches of Seebri® Breezhaler® are now underway
  - QVA149 filed for approval in Europe and Japan
  
- ✔ **Generic programmes continue to make progress**
  
- ✔ **Robust financial position**
  - Supplemented by multiple royalty streams and additional milestones
  - Tight cash control through product development prioritisation
  
- ✔ **Future strategy will continue to focus on value creation in a prudent manner**
  - Products assessed on suitability to add value
    - Strategy does not envisage spend on highly attritional discovery projects
  - Emerging market opportunities may be suitable for “value brand” offering
    - Local strategies with local players are key