

## **Innovative Pipeline**

Sir Andrew Witty

3 November 2015

### **Cautionary statement regarding forward-looking statements**

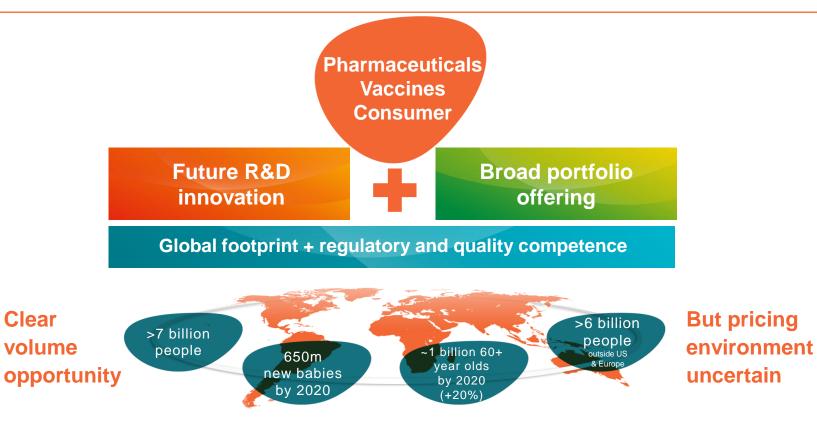
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# Innovation is critical to maximising the potential of GSK in the current environment





## R&D Strategy: Reliable fill & flow with greater novelty and improved return on investment



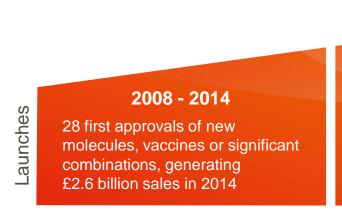
Accelerate	Focus where science is innovative	Improve balance	Reduce fixed cost
Discovery output		internal vs external	and improve ROI
<ul> <li>Now have 30 DPUs, of which two thirds are from the original 2009 set. Average 20% turnover every 3 year cycle</li> <li>65% of NMEs* in the clinic were either discovered or worked on by the DPUs</li> <li>Average of 60-65 publications annually in world class journals across pharma and vaccines</li> </ul>	<ul> <li>Of the ~40 assets profiled today, 80% of new molecules, biologicals and vaccines are potentially 1<sup>st</sup> in class</li> <li>Almost 50% of clinical stage NMEs* are biopharm, CGT, or oligos. i.e. non-traditional white pill</li> <li>Competitive advantage through epigenetics, cell &amp; gene technology, adjuvants, self amplifying RNA, inhaled technology, chimp adenovector</li> </ul>	<ul> <li>60% of NMEs* in the clinic are home-grown, 40% partnered or in-licensed</li> <li>&gt;1,500 collaborations inclusive of academic, public-private partnerships, biotech and pharma</li> </ul>	<ul> <li>20% faster study execution times^</li> <li>Pharma R&amp;D headcount reduced from 12,000 to 8,500 since 2008, reduced to 2 global pharma R&amp;D hubs</li> <li>Balance discovery and development (pharma split 38% Discovery; 62% Development)</li> <li>Divested marketed oncology portfolio for \$16bn</li> </ul>

#### To deliver multiple launches per year

\*NMEs: Phase I – III/submitted, per pipeline chart; † Pipeline = Phase I-III/submitted; ^ comparison vs peers based on CMR data.

# New product contribution increasing as generic exposure reduces





#### 2015 - 2020

11 new products\* with at least £6bn expected sales, with 9 marketed products generating £1.3 billion in 2015 YTD

+ 5 additional Phase III NMEs/PLEs

#### 2021 - 2025

- ~ 30 Phase II NME/PLE starts in 2016/17
- ~ 20 Phase III NME/PLE starts in 2016/17

~£6bn loss to generics + Avandia

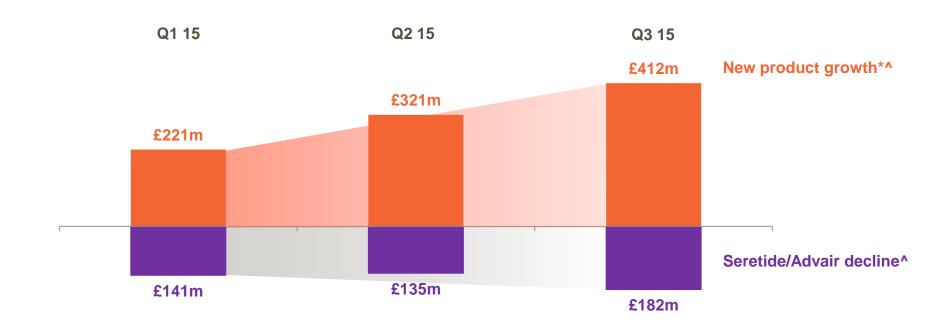
Avodart (Q4 2015), Advair<sup>†</sup>

Reduced generic exposure

\* Includes key recent and near-term launches plus late-stage assets. Rx: Breo, Anoro, Incruse, Arnuity, Tanzeum, Nucala, Tivicay, Triumeq. Vx: Menveo, Bexsero, Shingrix. † A number of assets in the portfolio will face generic competition in this time frame, the most significant of which is Advair PLE= New formulations or combinations

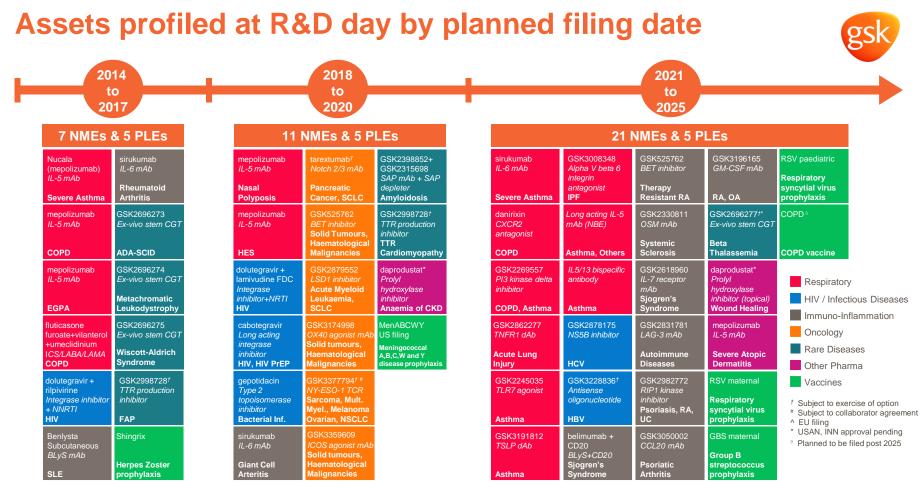
## New product growth more than offsets Advair decline





\* New products defined as: Rx: Breo, Anoro, Incruse, Arnuity, Tanzeum, Tivicay, Triumeq. Vx: Menveo, Bexsero

^ Growth and decline in the respective quarters on a Sterling basis



See www.gsk.com for full clinical pipeline

# Focus on delivering innovative and sustainable presence in 6 key areas





## Focus for today: Innovation to deliver products of value



### Patrick Vallance President, Pharmaceuticals R&D

### Moncef Slaoui Chairman of Vaccines



