



A robust generic market: difficulties and complexities

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Agenda slide



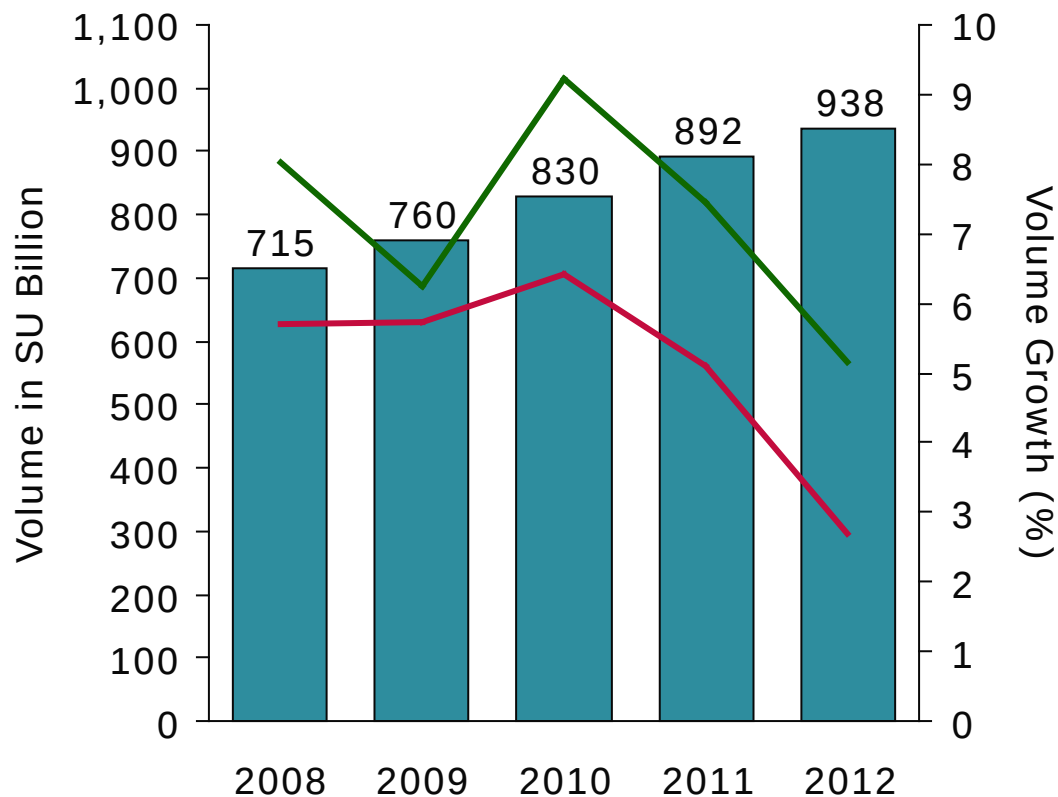
The Global Generics Market

- No Longer Protected Brands
 - Country Environment
-
- Key Factors for a Robust Generic medicines market
 - Net Cost of Treatment
 - Rules and Incentives: INN Prescribing Case Studies
-
- The Future of Generics
 - Where growth will come from?
 - Biosimilars



Generics have seen superior growth performance for a number of years

2008-2012: Global Generic Volume Sales



- Growth is driven by government that under high debt and fiscal deficits are pushing for even greater generication
- In Pharmerging countries growth is underpinned by generic growth
- Fewer, smaller small molecules going forward



5 yr CAGR

Pharma

Generics

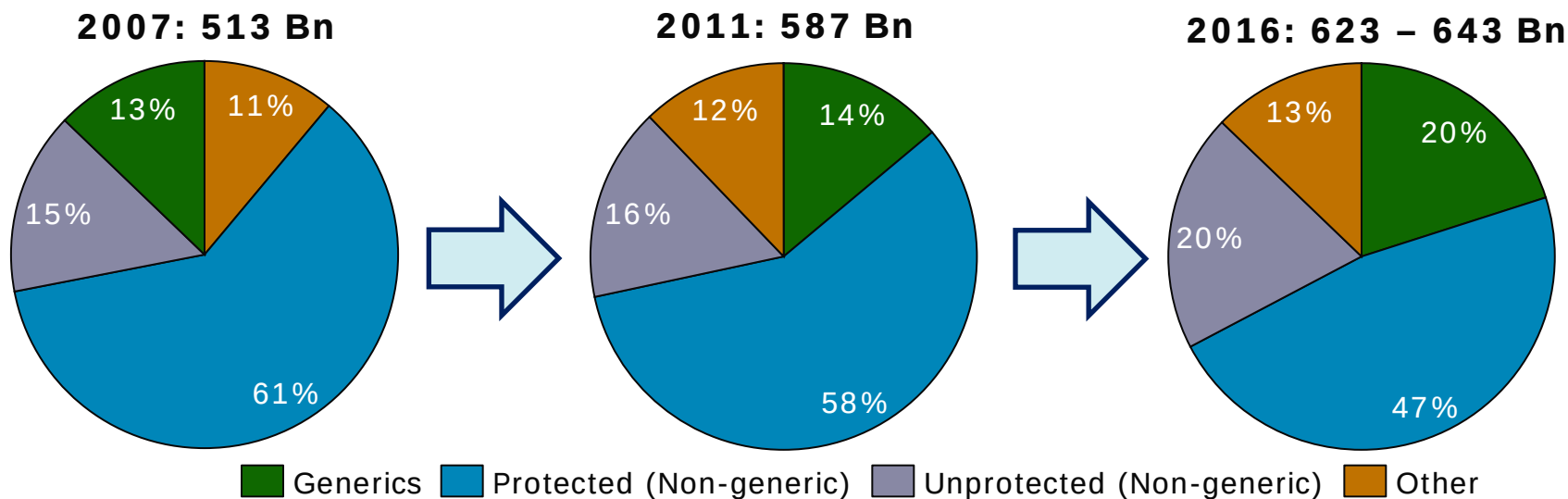
5.0%

7.2%

— Generic Volume Growth — Pharma growth ■ Generic Volume

Source: IMS Health, MIDAS, MAT Sept 2012, Rx only. Market Segmentation + LIC countries

Accelerated shift in spending on generics is expected to continue to 2016 in the mature markets



- Globally, growth between 2012-2016 is forecast to slow to 3-6% CAGR compared to 6% over the past five years.
- Largest growth seen in Generics as a result of increased LOE, payer reforms and growth

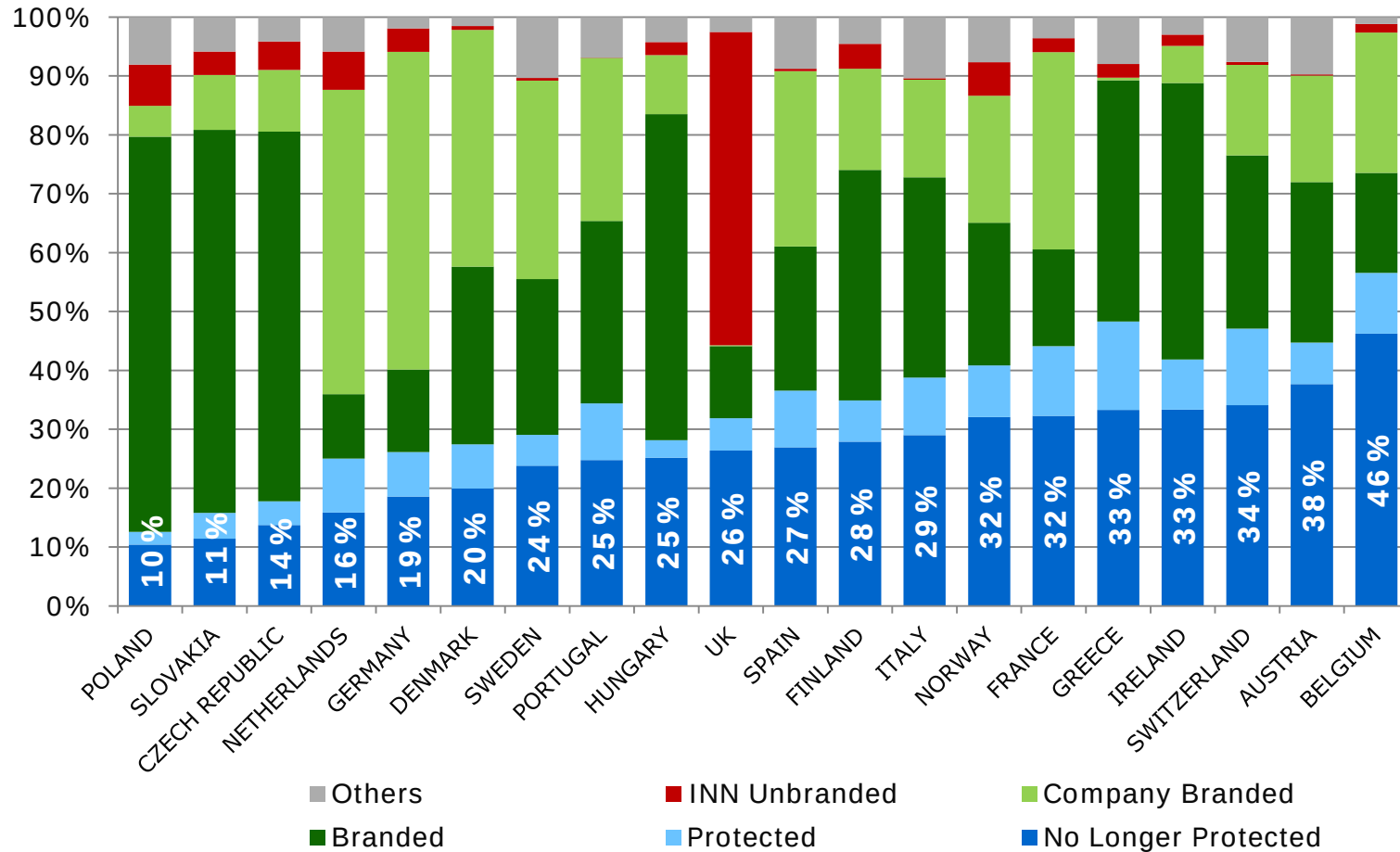
5 Yr CAGR		
Region	2007 -2011	2012-2016
Top 8 Mature	4%	0 - 3%
<i>Protected (Non-Generic)</i>	3%	(4) – (1) %
<i>Generics</i>	9%	8 – 11%
<i>Unprotected (Non-Generic)</i>	4%	4 – 7%

Source: IMS Health Market Prognosis, Sept 2012 (*) at ex-manufacturer price levels, not including rebates and discounts. Audit data only. Market size represented in constant US\$. All CAGR calculations are 5 years



Each country shows a unique pattern of products in the protected and un-protected sector

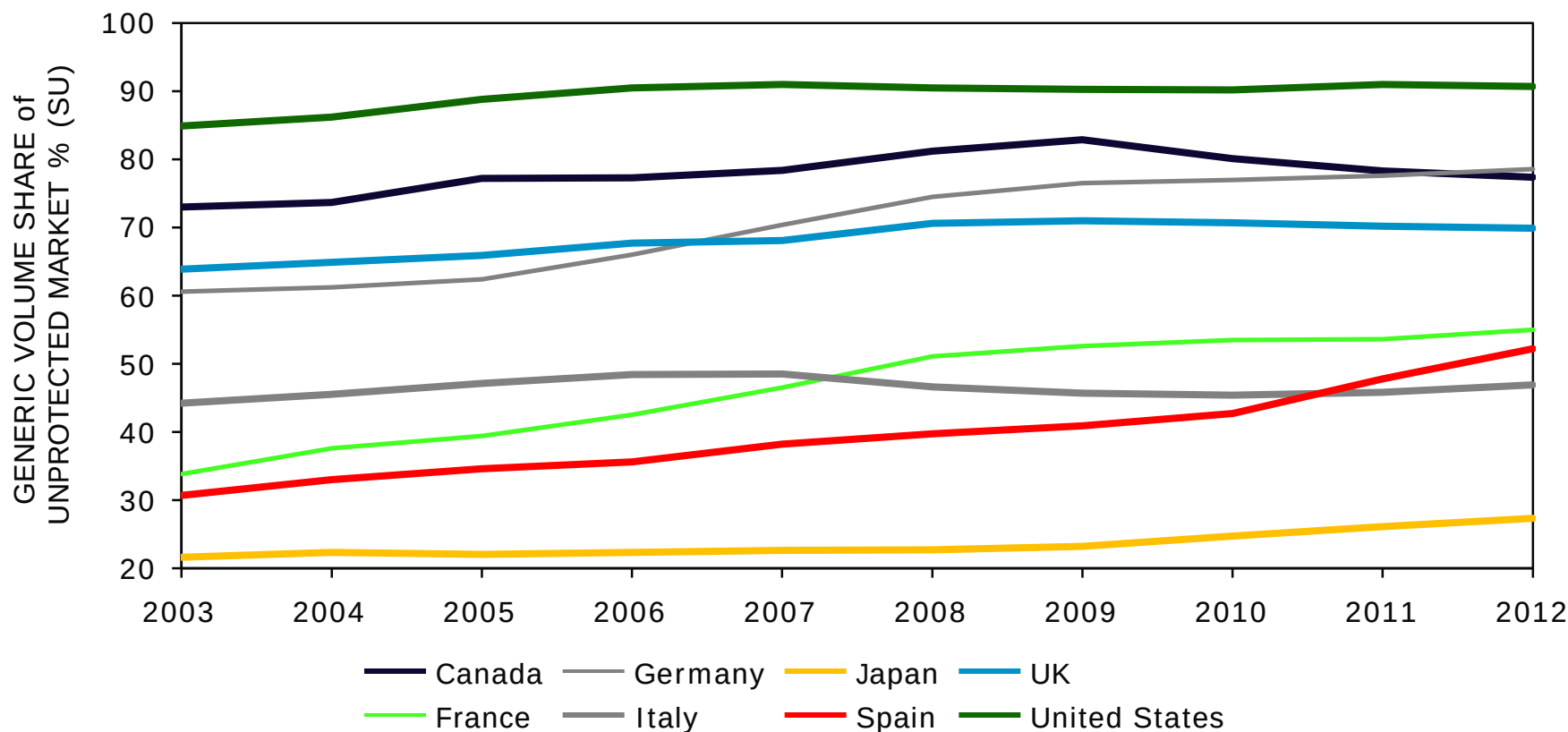
Market share segmentation ranked by no longer protected brands



Source: IMS Health, MIDAS, Market Segmentation, MAT Sep 2012, Rx only.

Historically generic penetration moves slowly even in large markets: recently Spain has accelerated

2003-2012: Generic volume penetration dynamics in the top 8 markets



Source: IMS MIDAS Sep 2012 Ethical Total Market based on SU.

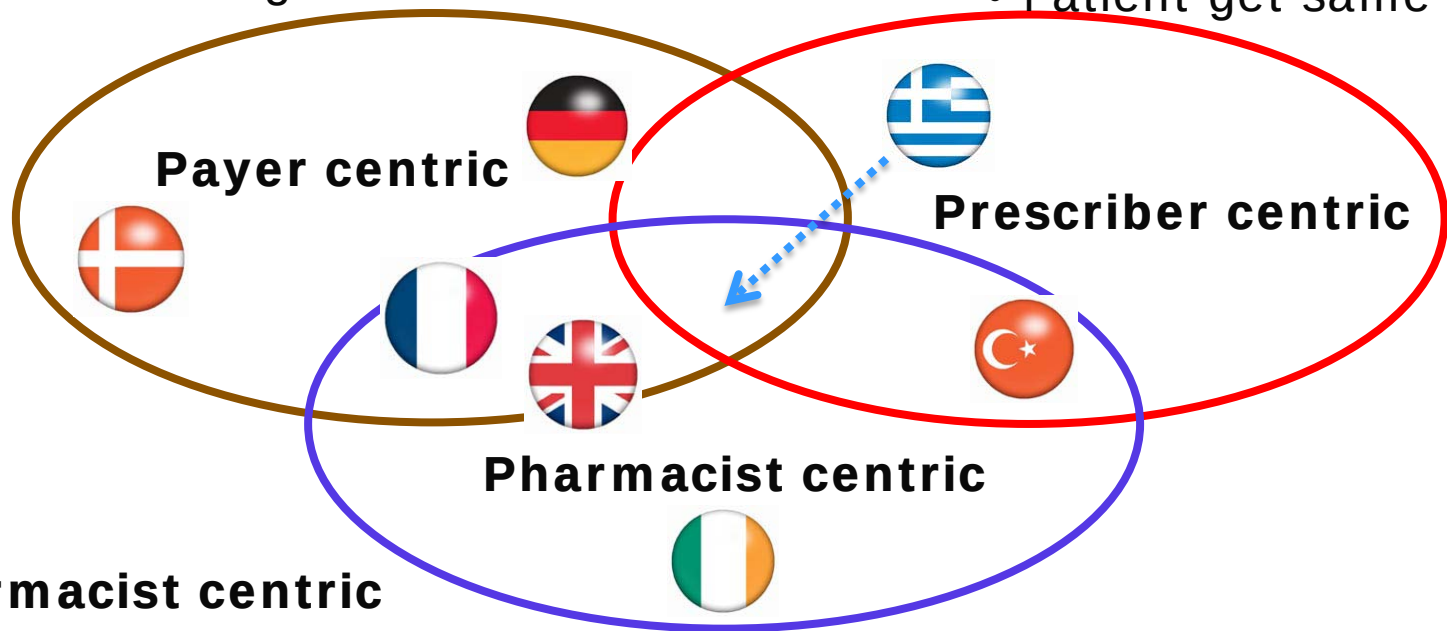
We have several different models of generic systems

Payer centric

- Low prices
- Patient get different mfg
- Logistic challenges

Prescriber centric

- High prices
- No/low discounts
- Patient get same mfg



Pharmacist centric

- Varied prices
- High discounts
- Patient get same mfg

Generic companies are in a period of significant opportunity, but there are challenges

Geography

Which are the most promising countries to focus on?
Country profitability and Geo-expansion

Therapy area

Which areas hold the greatest promise?
Movement to specialty

Molecules

Which are the molecules which will undergo least price erosion over time?
Vertical integration and API control

Technologies

What technologies will provide competitive edge and sustainable margins?
Devices and delivery systems

And not forgetting

Evolving structures, changing regulations, role of stakeholders and scope of new players in generics

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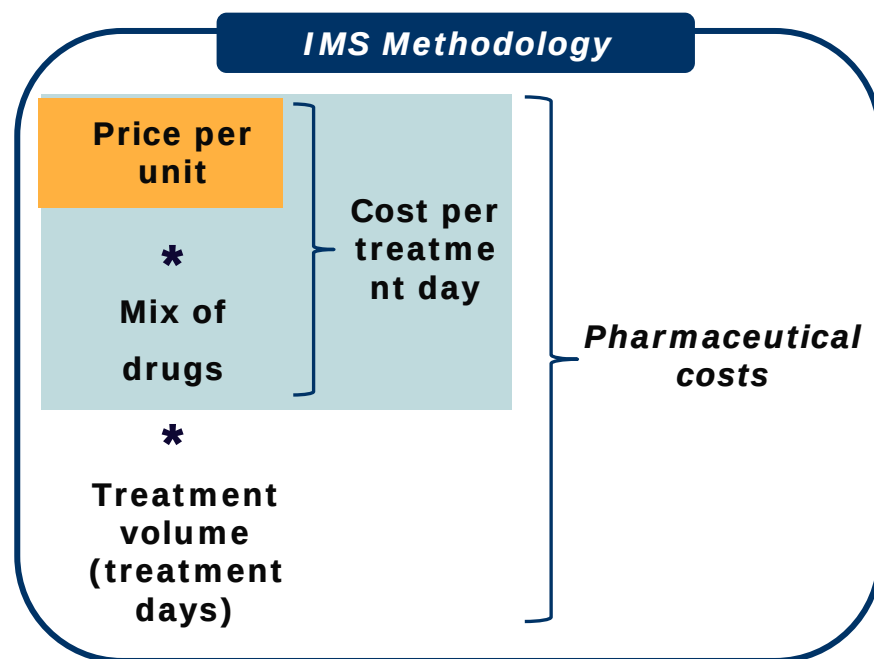
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Payers tend to focus on price, however, medicine mix is key to cost reduction

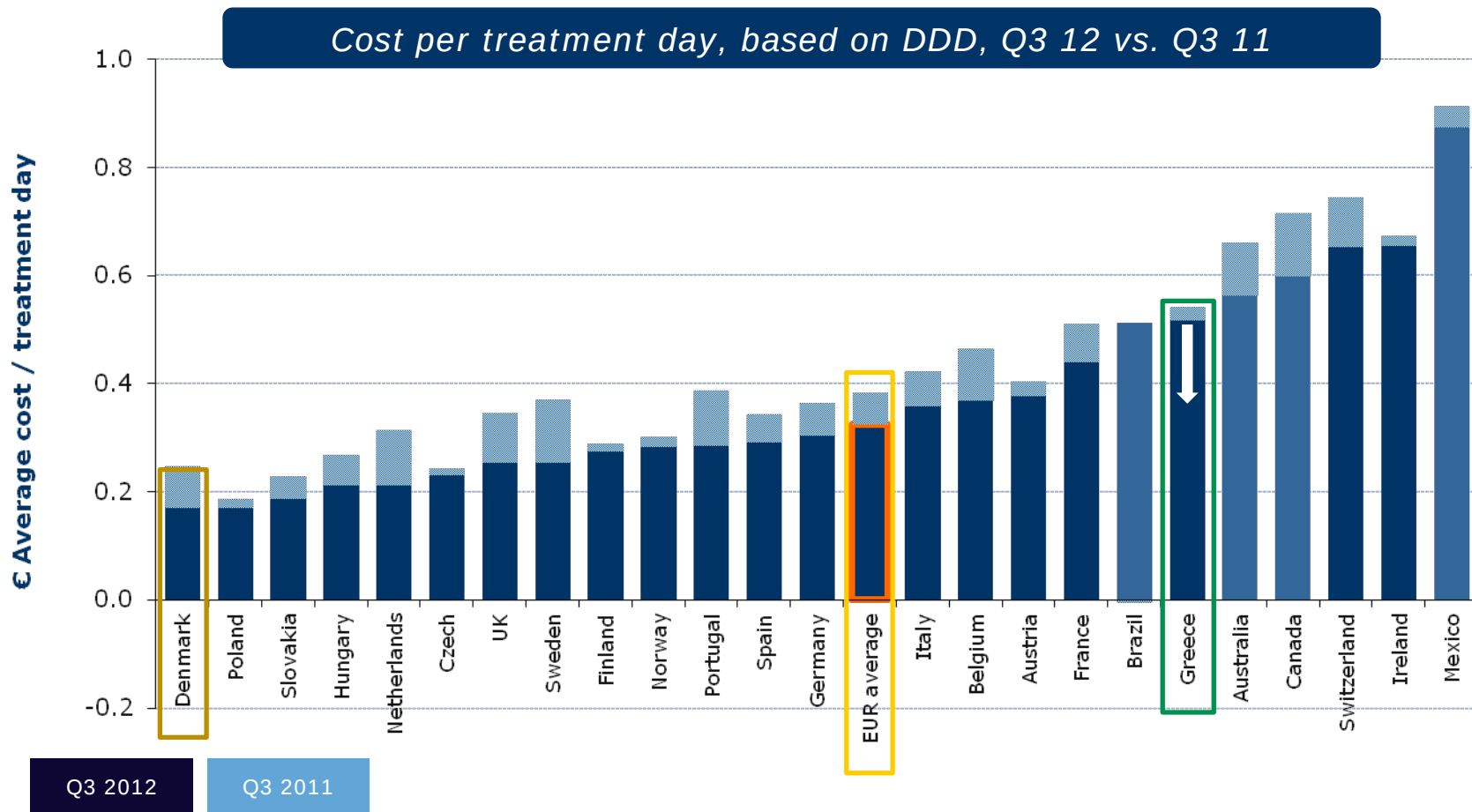
IMS developed a methodology to assess drug mix and prices across countries...

...based on a basket of medicines including seven therapy areas



- Angiotensin II antagonists, anti-depressants, anti-epileptics, anti-psychotics, anti-ulcerants, cholesterol regulators and oral anti-diabetics.
- The cost is calculated as each country's mix of patented/ NLP, and generic products
- The TA weights are the same for all countries

Greece has historically higher cost/daily dose than the EU average but recent reforms change this

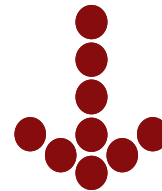
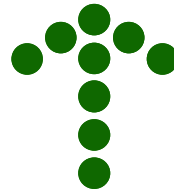


Selected therapy areas: Angiotensin II antagonists, anti-depressants, anti-epileptics, anti-psychotics, anti-ulcerants, cholesterol regulators and oral anti-diabetics. Source: IMS MIDAS, Q3 2012 and Q3 2011

Factors that have been shown to drive generic utilisation and factors that inhibit generic utilisation

Drivers

- Mandatory INN prescribing
- Generic first dispensing and prescribing
- Large price differential between generic and originator
- Reimbursement levels
- Patient Co-payments
- Incentives for dispensing/prescribing generics

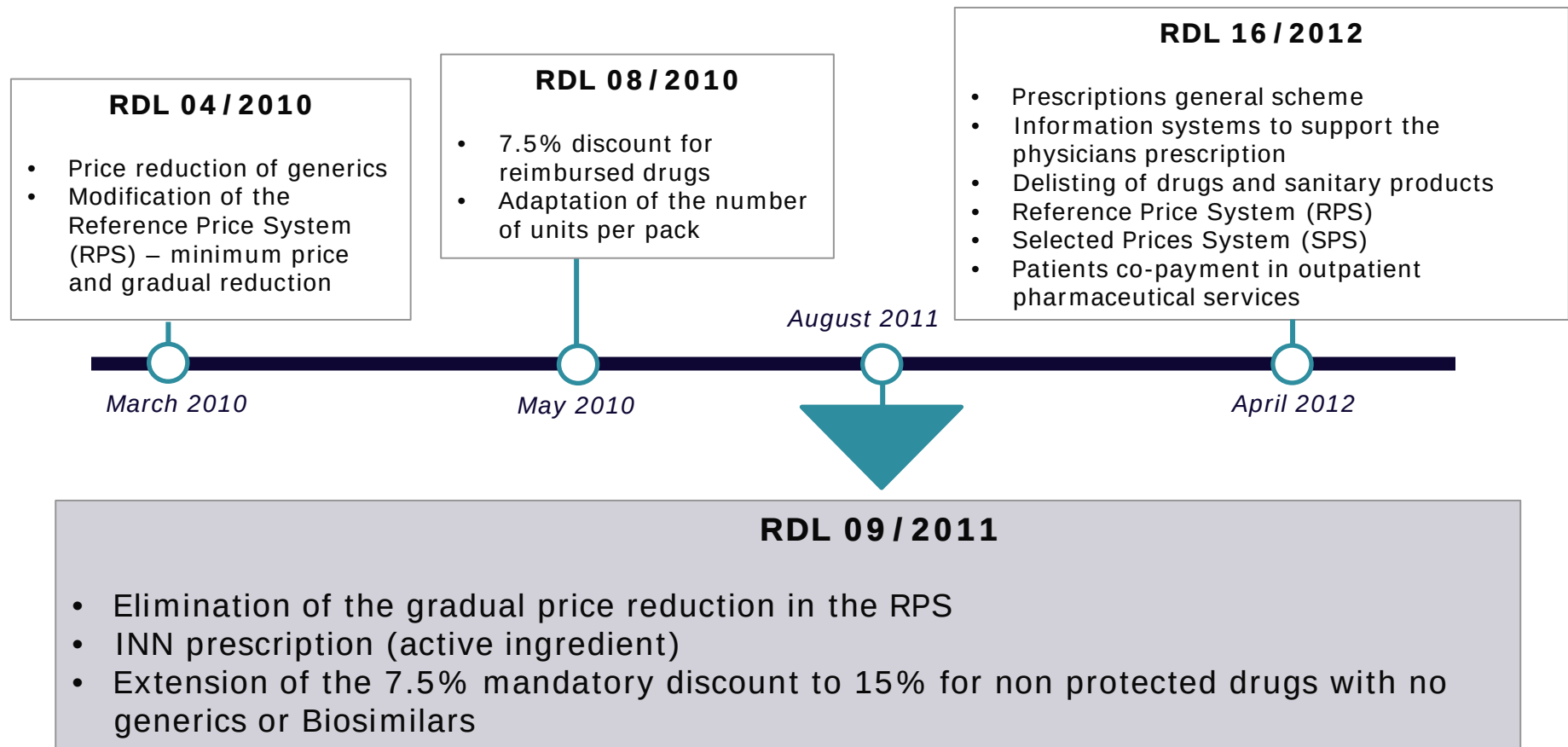


Constraints

- Cultural resistance from doctors
- Lack of incentives for pharmacists to dispense
- Lack of margin for wholesalers to distribute
- Preference for brands in certain markets
- Across the board price cuts



In last years the Spanish healthcare environment has experienced continuous change driven by RDLs
The most crucial being the Royal Decree Law (RDL) 09/2011

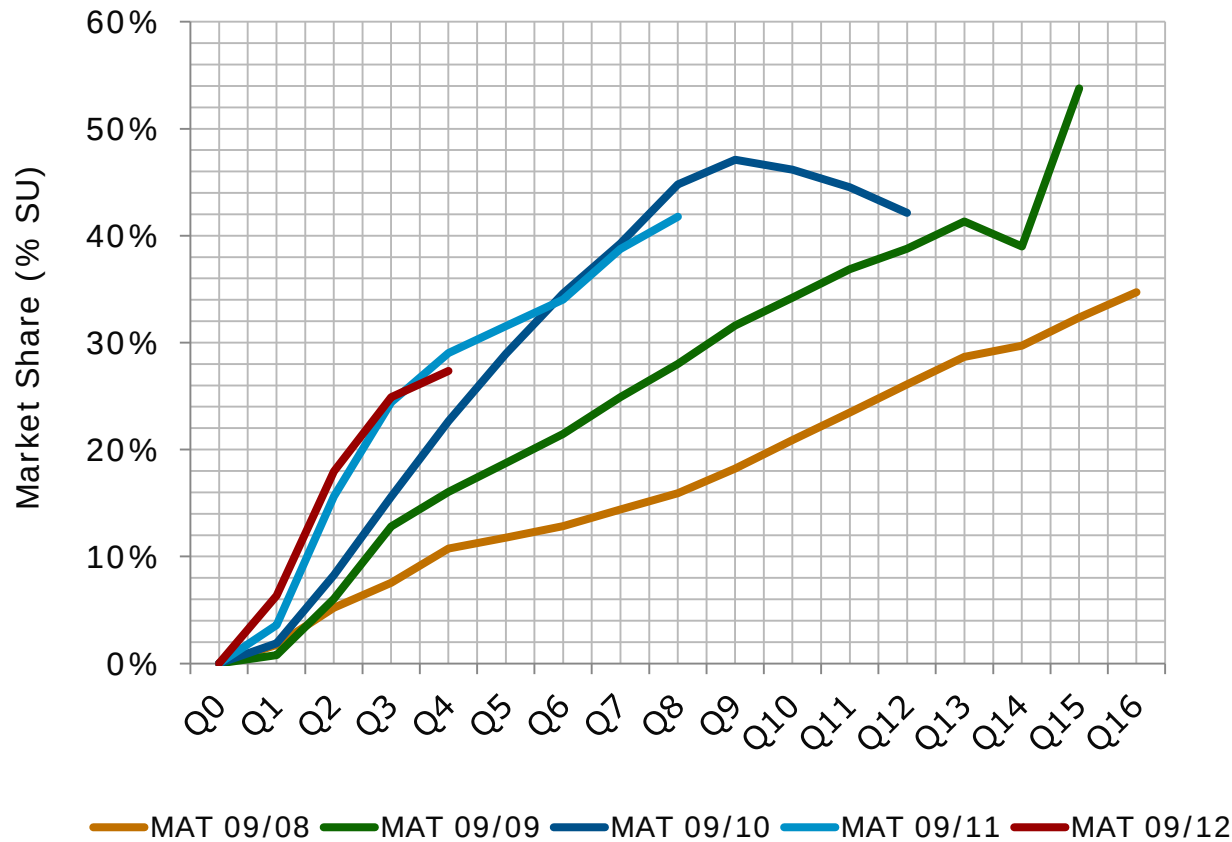


Note: Main measures of each RDL (non exhaustive list)



Generics' penetration velocity has considerably increased during the last years

Comparison of generics' penetration evolution depending on generics' launch date (MS – % SU)



- Generics penetration at a molecule level is much more aggressive the more recent the generics' entrance.
- The yearly evolution of generics' penetration keeps an ascendant trend since 2008
- Despite the short historic available, molecules with generics entrance in the last MAT present higher generics penetration achieving a 37% MS the third quarter after the first generic launch.

Current model needs to change for generics to grow

The potential for generics will rely on how key stakeholders and generic players shape the market

DRIVERS

- ✓ **Healthcare reforms** expanding access to the population with generics uptake benefiting in volume terms
- ✓ Introduction of **incentives** to increase generic prescribing and utilisation
- ✓ Incentives to the distribution system
- ✓ **Increasing penetration** in added value segments such as **specialist driven**; injectables; Biosimilars

CHALLENGES

- ✗ **Diminishing levels** of near term patent expiries and future revenue potential
- ✗ Increasingly competitive environment as **traditional branded pharma looks towards hybrid models** encroaching on the generic market space
- ✗ Delays in approvals and high regulatory costs
- ✗ Further scrutiny of pricing and margins as governments look towards ever more complex **cost containment** measures

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The Future of Generics

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Twelve of the world's top twenty products are small molecules that have or will genericise by 2016

Rank	Product / Company	2011 Sales (US\$ Bn)
1	LIPITOR (Pfizer)	\$12.5bn
2	PLAVIX (BMS / Sanofi)	\$9.3bn
3	SERETIDE (GSK)	\$8.7bn
4	CRESTOR (AZ)	\$8.0bn
5	NEXIUM (AZ)	\$7.9bn
6	SEROQUEL (AZ)	\$7.6bn
7	HUMIRA (Abbott)	\$7.3bn
8	ENBREL (Amgen)	\$6.8bn
9	REMICADE (J&J)	\$6.8bn
10	ABILIFY (BMS/Otsuka)	\$6.3bn

Rank	Product / Company	2011 Sales (US\$ Bn)
11	SINGULAIR (MSD)	\$6.1bn
12	ZYPREXA (Lilly)	\$5.7bn
13	MABTHERA (Roche)	\$5.7bn
14	LANTUS (Sanofi)	\$5.5bn
15	AVASTIN (Roche)	\$5.4bn
16	HERCEPTIN (Roche)	\$4.8bn
17	CYMBALTA (Lilly)	\$4.7bn
18	SPIRIVA (BI)	\$4.7bn
19	NEULASTA (Amgen)	\$4.2bn
20	GLIVEC (Novartis)	\$4.1bn

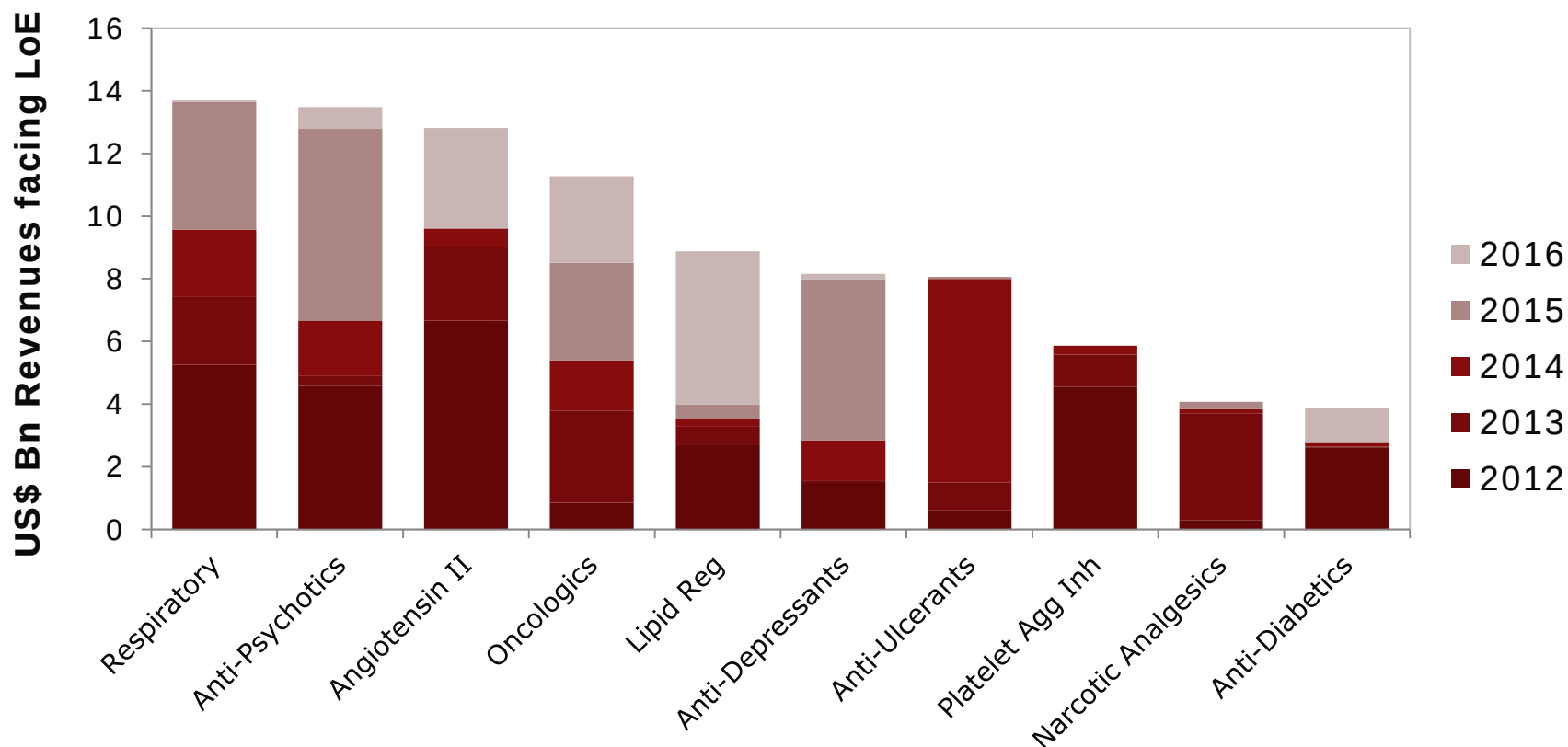
Products off-patent or going off-patent by 2016

Source: IMS Health MIDAS, December 2011



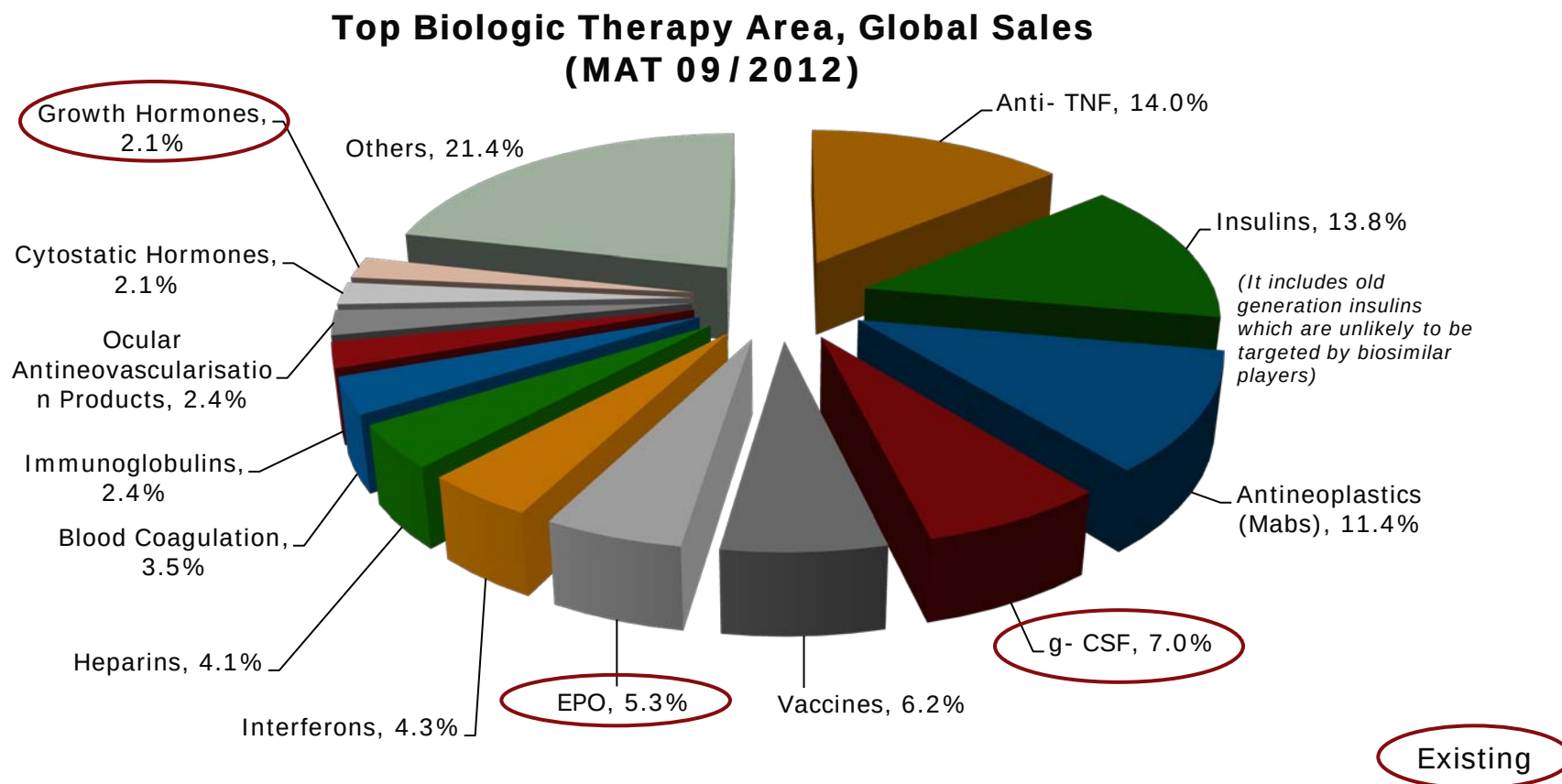
Generic players will see some new potential from select therapeutic areas

Top 10 Small molecule Therapeutic groups facing LoE 2012-2016



Source: IMS MIDAS Q3 2012. Based on ethical market. Revenues based on MAT 9/2012

For Biosimilars, anti-TNF and MAb are the key ones
Along with insulins, another key investment area for biosimilar players, they account for more than 40% of the overall biologic market

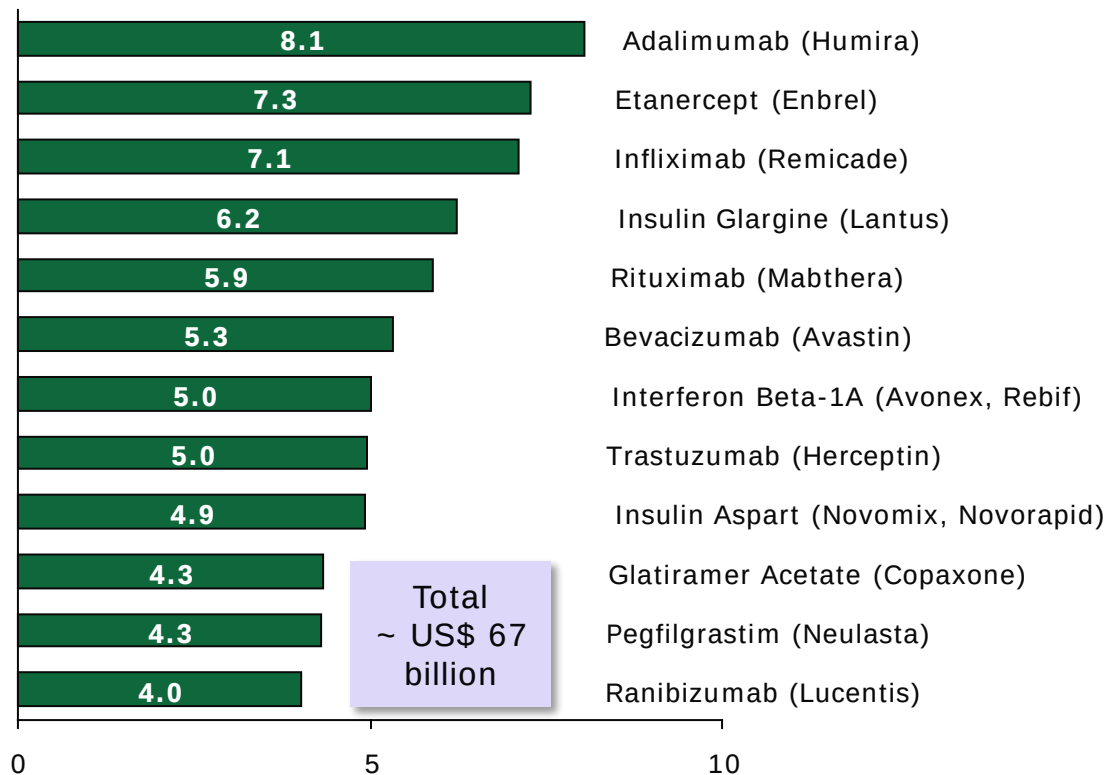


Source: IMS MIDAS, 09/2012

Twelve compounds will present a US\$ 67 billion opportunity

All these products will lose patent protection by 2020, but Enbrel whose US patent has been extended until 2028

Global Sales (MAT 09/2012), US\$ billion



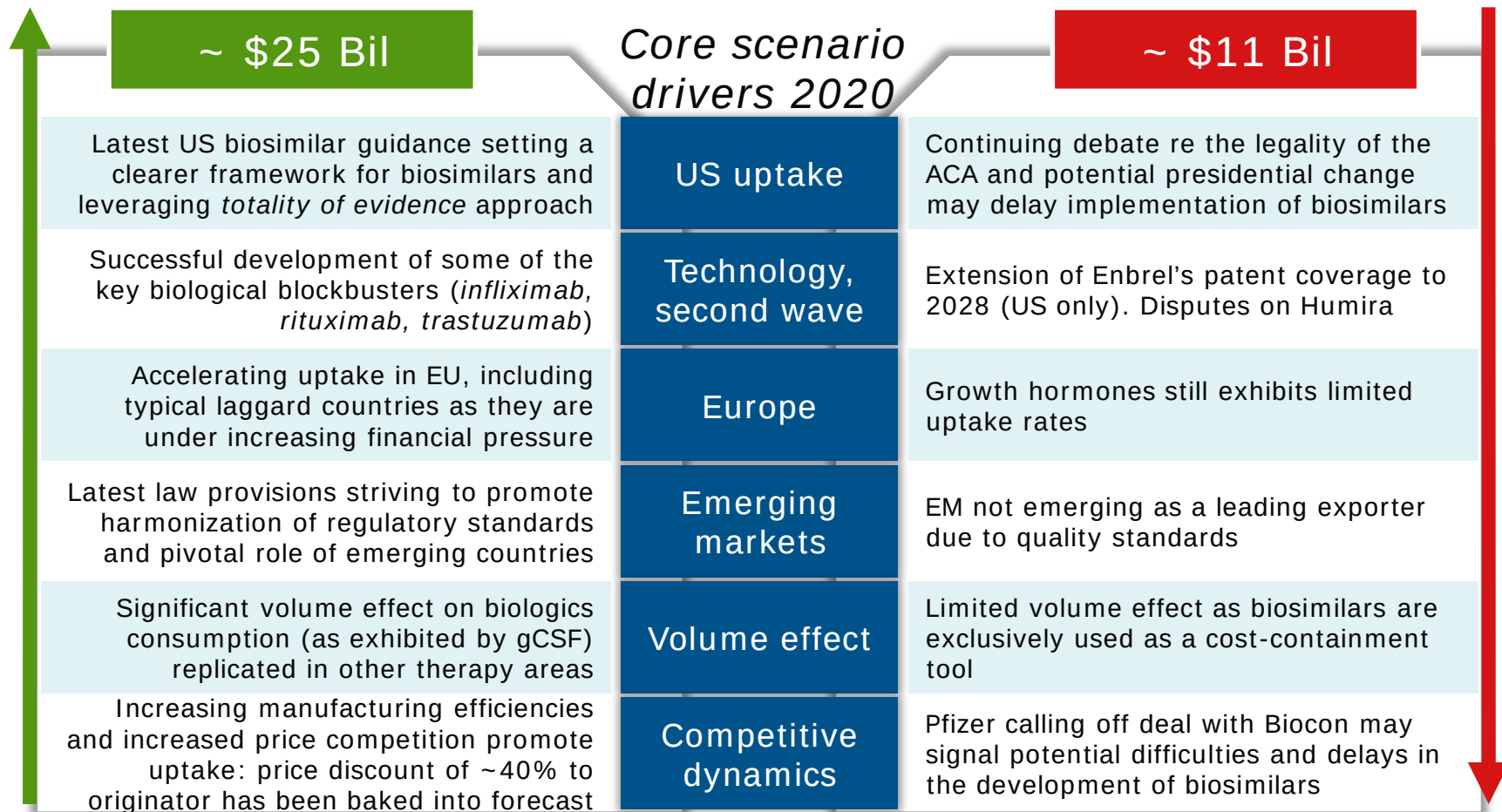
EU expiry date	US expiry date
2018	2016
2015	2028 (extended)
2014	2018
2014	2014
2013	2016
2019	2017
2012	Expired
2015	2015
2014	2019
2017	2015
2015	2014
2016	2016

Not considered existing biosimilars such as Epoetin Alfa expired in EU, but still patent protected in US

Source: IMS MIDAS, 09/2012, IMS Patent focus

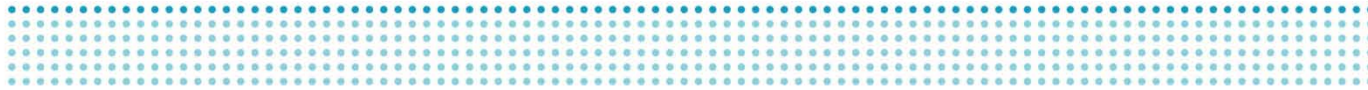
Multiple factors will determine success or failure for biosimilars

The verdict on the new wave of biosimilars will act as a cornerstone for this market



10 things to consider for generics

- 1 More commoditization in Generics
- 2 Fewer, smaller small molecule opportunities going forward
- 3 More specialist small molecule opportunities
- 4 Success lies in moving up the value chain
- 5 The Quality of Innovation in value add is improving
- 6 Incremental improvements in innovation need strong case
- 7 Price pressure creates margin challenges
- 8 Countries favour local generics opportunities
- 9 Health care reform and more government involvement
- 10 Delisting and reimbursement changes impact



Thank you!

IMS Health

