

# The Data and Analytics of the New Life Sciences Marketplace

9<sup>th</sup> International Pharmaceutical Compliance Congress and Best Practices Forum

**Dr. Frank Wartenberg**  
President Central Europe

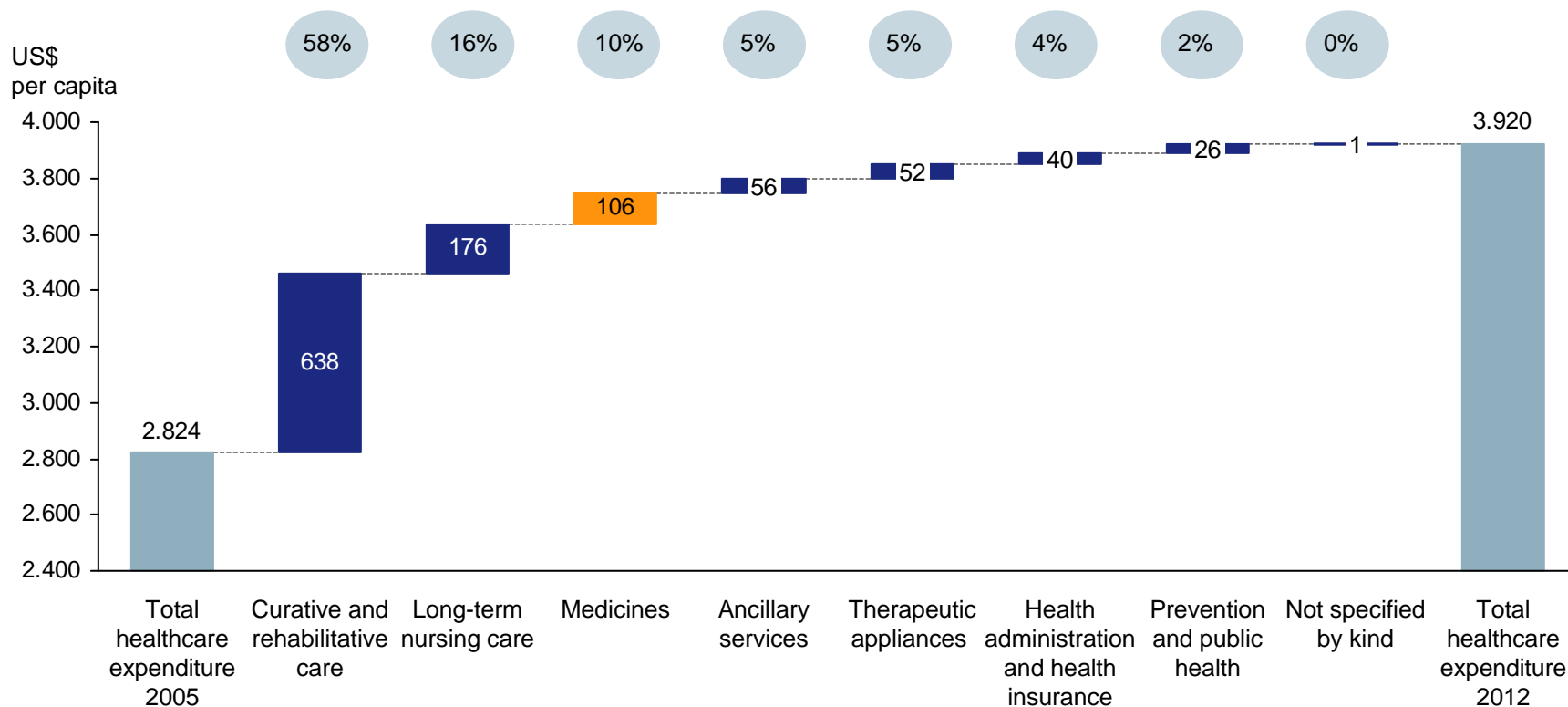
13. May 2015



# Governments must look beyond medicines for real efficiency gains



**Share of Growth per healthcare category**  
 (2005 – 2012, 15 EU OECD Countries\*, population-weighted, current prices, PPP, \$)



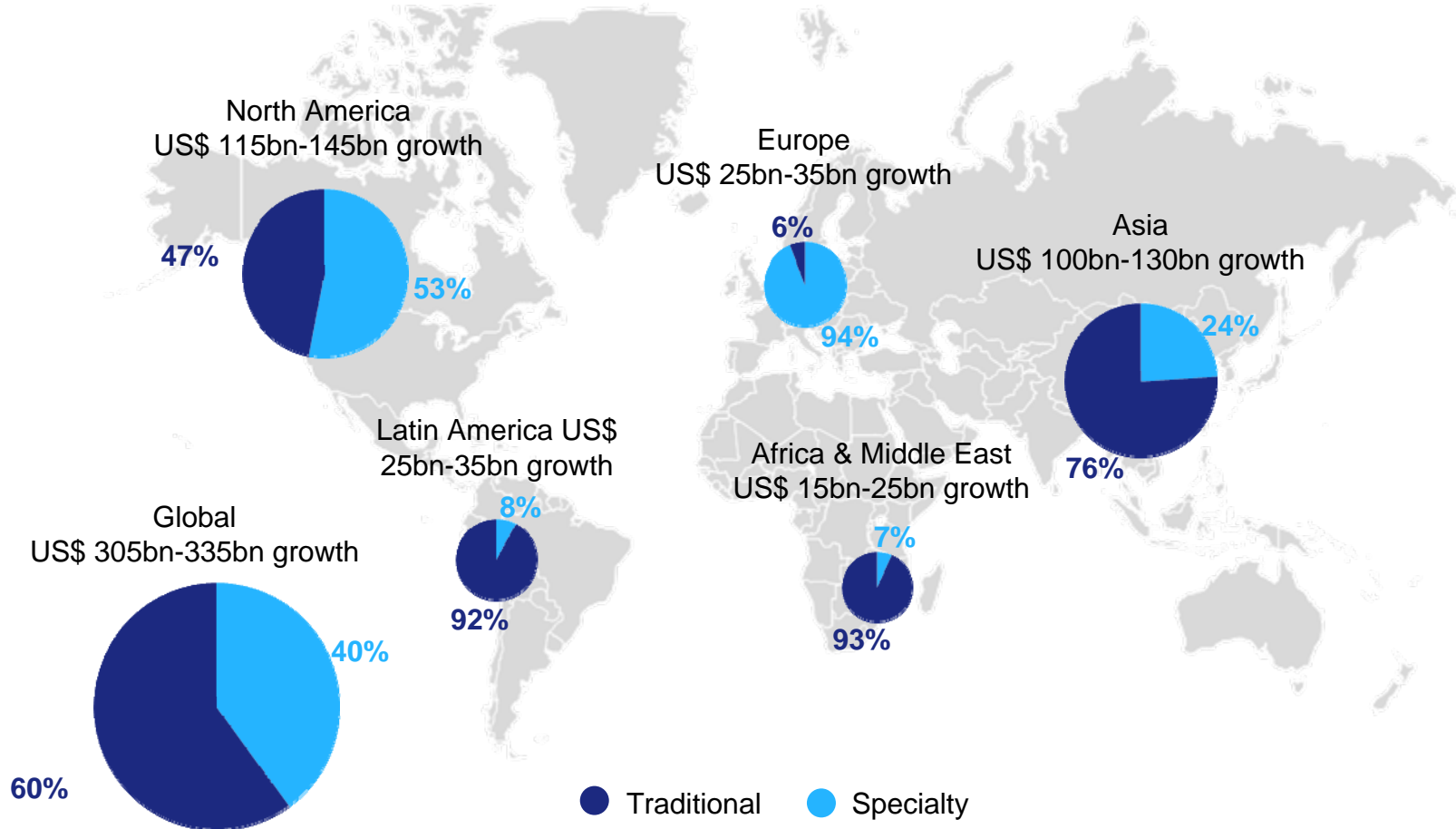
\*Countries included: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Luxembourg, Netherlands, Slovakia, Slovenia, Spain, Sweden

Source: OECD Health Statistics Database, Eurostat Database

# Specialty medicines drive growth in developed regions; globally, primary care dominates



Share of absolute growth 2013-2018 by region, specialty and traditional

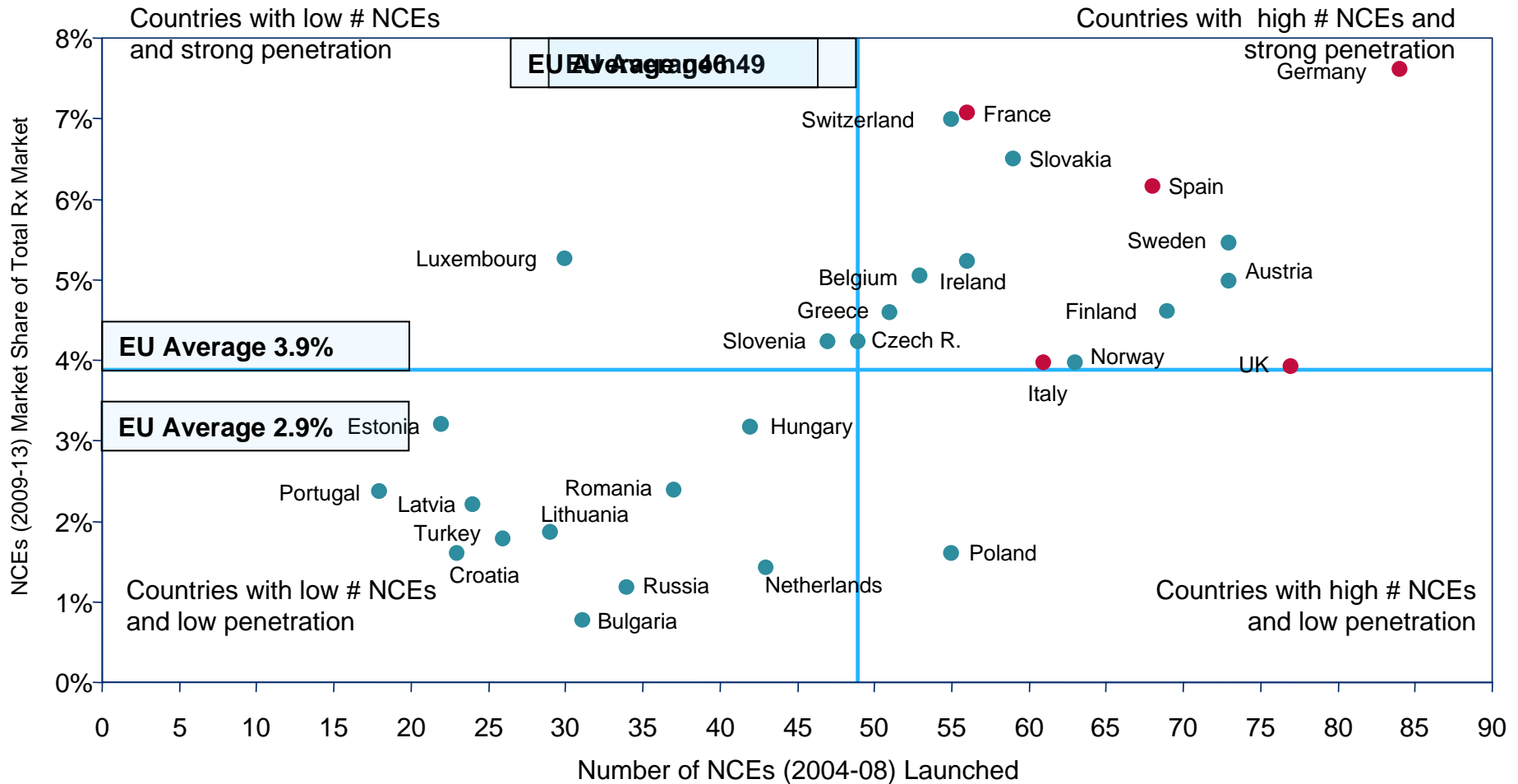


Source: IMS Health Market Prognosis, September 2014; IMS Institute for Healthcare Informatics, Oktober 2014

# EU countries vary significantly in the number and uptake of NCEs over the last years



**Country Innovation profile  
(NCEs launched vs. Market Share achieved)**



Source: IMS Health, MIDAS, Year 2013, Rx only

# Europe illustrates the importance of biologic therapies



## Europe Top 10 products 2009-14

	2009	2010	2011	2012	2013	2014
1	LIPITOR	LIPITOR	LIPITOR	HUMIRA	HUMIRA	HUMIRA
2	SERETIDE	SERETIDE	SERETIDE	SERETIDE	SERETIDE	ENBREL
3	PLAVIX	HUMIRA	HUMIRA	ENBREL	ENBREL	SERETIDE
4	ENBREL	ENBREL	ENBREL	LIPITOR	HERCEPTIN	HERCEPTIN
5	HUMIRA	HERCEPTIN	HERCEPTIN	HERCEPTIN	MABTHERA	REMICADE
6	HERCEPTIN	LOVENOX	LOVENOX	LOVENOX	REMICADE	AVASTIN
7	LOVENOX	AVASTIN	AVASTIN	MABTHERA	LOVENOX	MABTHERA
8	ZYPREXA	ZYPREXA	MABTHERA	REMICADE	AVASTIN	LOVENOX
9	PANTOZOL	PLAVIX	REMICADE	AVASTIN	LUCENTIS	LYRICA
10	SYMBICORT	REMICADE	ZYPREXA	SPIRIVA	LYRICA	LUCENTIS

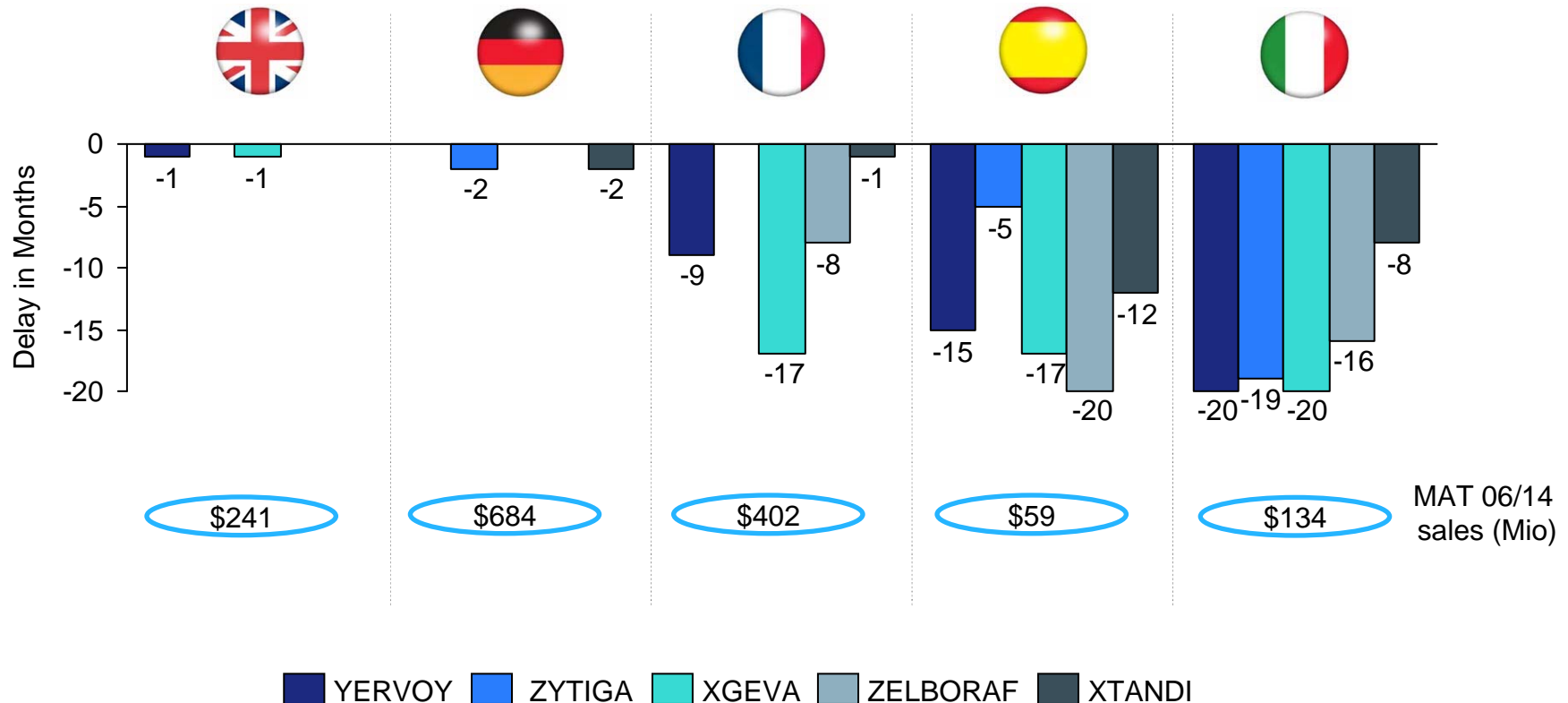
Small molecule products
  Biologic products

Source: IMS Health MIDAS, MAT June 2014, Rx bound. Europe does not include Russia and Turkey

# Launch rollouts across EU5 diverge greatly: Germany is key



Top 5 onco drugs (since 2010), delay from 1<sup>st</sup> country's launch, EU5

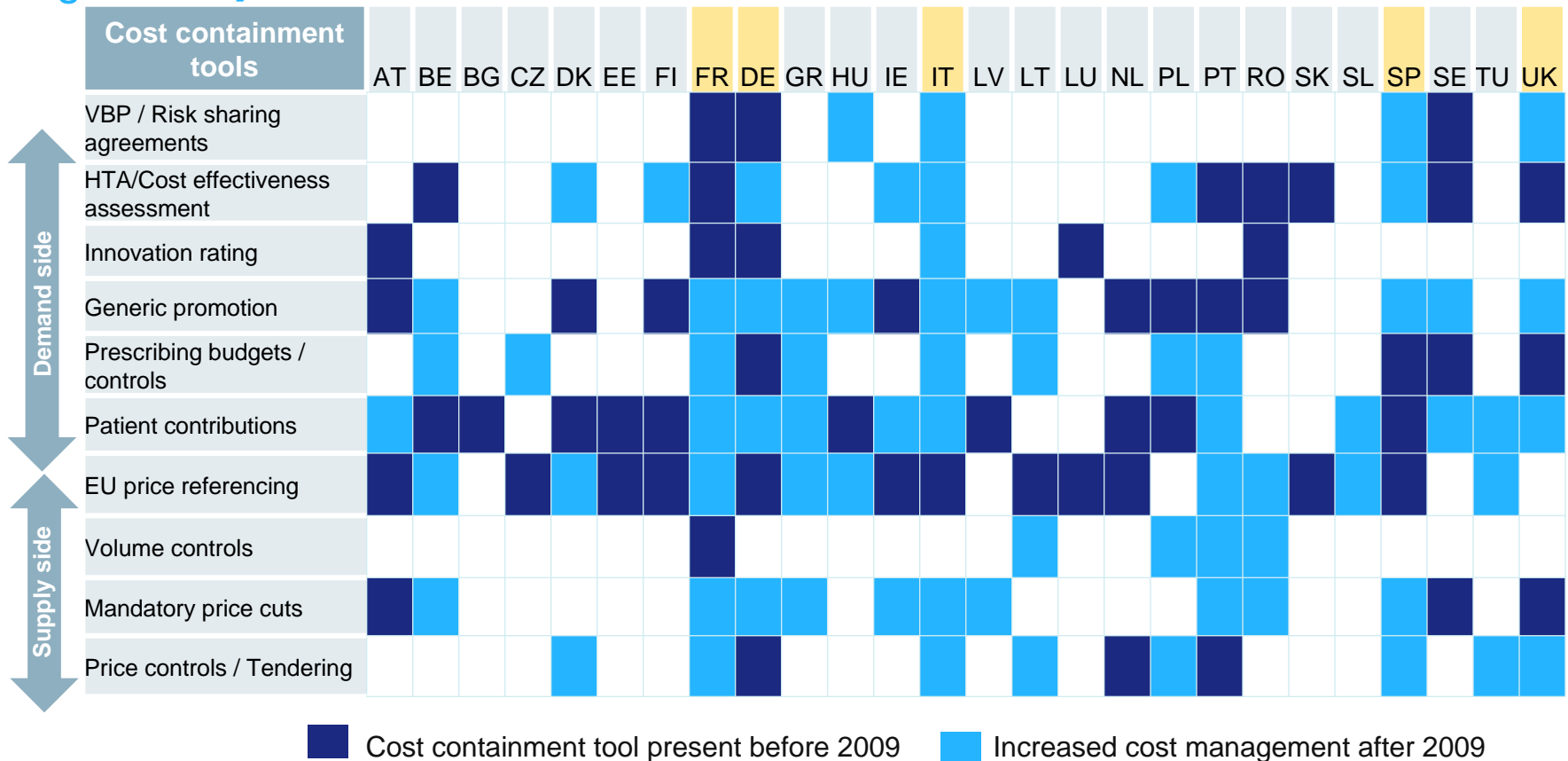


Source: IMS Health, MIDAS monthly Jul 2014, Rx only. Delay calculated from 1<sup>st</sup> country's launch in one of the EU5 markets. Country ranked by months of delay since first launch; drugs ranked by first date of launch in one the EU5 markets. Xtandi not launched yet in Spain (the 12 months equal the time between first launch and Jul'14)

# Before the crisis, most countries had implemented some cost containment measures



However, the frequency and strength of such measures has increased significantly










AT: Austria, BE: Belgium, BG: Bulgaria, CZ: Czech Republic, DK: Denmark, EE: Estonia, FI: Finland FR: France, DE: Germany, GR: Greece, HU: Hungary, IE: Ireland, IT: Italy, LV: Latvia, LT: Lithuania, LU: Luxembourg, NL: Netherlands, PL: Poland, PT: Portugal, RO: Romania, SK: Slovakia, SL: Slovenia, SP: Spain, SE: Sweden, TU: Turkey, UK: United Kingdom

# In Europe, value plays an ever more important role as a criterion for pricing and reimbursement



## Before launch

 applied  
 applied indirectly

					
National regulatory authority	ANSM	BfArM, Paul-Ehrlich Institut	AIFA	AEMPS	MHRA
Price and reimbursement setting	Negotiation with transparency committee (within HAS), CEPS decides on reimbursement	Price setting through negotiation within one year after market launch	Negotiation with P&R committee, plus negotiation with regions	Negotiation with commission of prices of medicines, plus negotiation with regions	Free price setting within range in Pharmaceutical Price Regulation Scheme (PPRS), negotiation with CCGs
Value based pricing / HTA	Added therapeutic benefit as basis for negotiation	Benefit dossier mandatory for every new subst.	Value and innovation criteria in negotiation	Value considered for reimbursement decision	Value based assessment by NICE
EU price referencing	Prices should be similar to those in DE, ES, IT, UK	If no add. benefit, 15 European reference countries	Supportive decision criterion, average of reference countries	lowest price in EU ref. countries, 10-50% lower than ref. prod.	
Mandatory price cuts	Clawbacks, if cost of p.-v. agreement is exceeded	7% rebate for innovative medicines	Rebates when cap for reimb. med. spend. exceeded	7.5% rebate for new drugs, 4% rebate for orphan drugs	Price cut of 15% if not in PPRS
Price controls / tendering	Hospital care	Mainly generics and biosimilars	Generics, biosimilars	anti -TNFs and EPOS, some medicinal products	Hospital: Vaccines, communicable dis., pandemics
Risk sharing agreement	Higher price, after 2 <sup>nd</sup> eval. maintain or pay back diff.	Since 2007 between manufacturer and insurance	Discount on initial therapy cycles, pre-set time frame	Reimbursement by manufacturer in case of failure	Patient access schemes

CEPS=Comité économique des produits de santé, HAS=Haute autorité de santé, CCGs=Clinical Commissioning Groups, NICE=National Institute for Health and Care Excellence

Source: Desktop research March 2015



# National requirements for health economic evidence differ between P&R processes in EU-5



National level stakeholders and evidence requirements							
Key P&R decision-makers requiring direct engagement			CT, CEPS	G-BA, IQWiG, GKV-SpV	CTS, CPR (AIFA)	AEMPS, DGCBSF, CIPM	DoH, SMC, NICE
Evidence requirements	Clinical	Basic clinical trial data	✓	✓	✓	✓	✓
		Comparative clinical analysis	✓	✓	✓	✓	✓
	Economic	Basic pricing data	✓	✓	✓	✓	✓
		Budget impact data	<i>Health economic data is currently optional</i>	✓	✓	✓	✓
		Cost-effectiveness data		✗	✓	✓	✓



- ✓ Mandatory
- ✓ Not mandatory but recommended
- ✗ Not required

Source: Country-specific sources

# In addition, various cost containment measures are implemented in most EU-5 countries



## After launch

 applied  
 applied indirectly



National spend ceiling	ONDAM set by parliament every year		Outpatient < 13% / overall < 16% of total healthcare exp.		
Prescribing budgets / controls	Indicative (plans to move to obligatory)	Obligatory	Indicative	Indicative	Indicative
Prescription quotas	Generics	Biosimilars			
Patient contributions	100%, 65%, 35% or 15% reimbursement	10% of price as contribution (min. 5€, max. 10€)	Depending on region 1-4€/ prescription	100%, 90%, 60% reimbursement	£8,05/prescription, £29,10/3 months, £104,10/12 months
Hospital procurement (in-patient)	Tendering, discounts possible	Tendering, discounts possible	Tendering, 50% mandatory discount	Tendering, discounts possible	Tendering, discounts possible
Generic promotion	Generic price link (60% less than orig.), generic substitution due to quota, substitution of certain biosimilars possible	10% mandatory rebate, generic substitution obligatory	Generic price link, generic substitution obligatory (including patient consent)	Generic price link, generic substitution obligatory (depends on price)	Students taught to prescribe by INN, subst. only allowed, if prescribed by INN

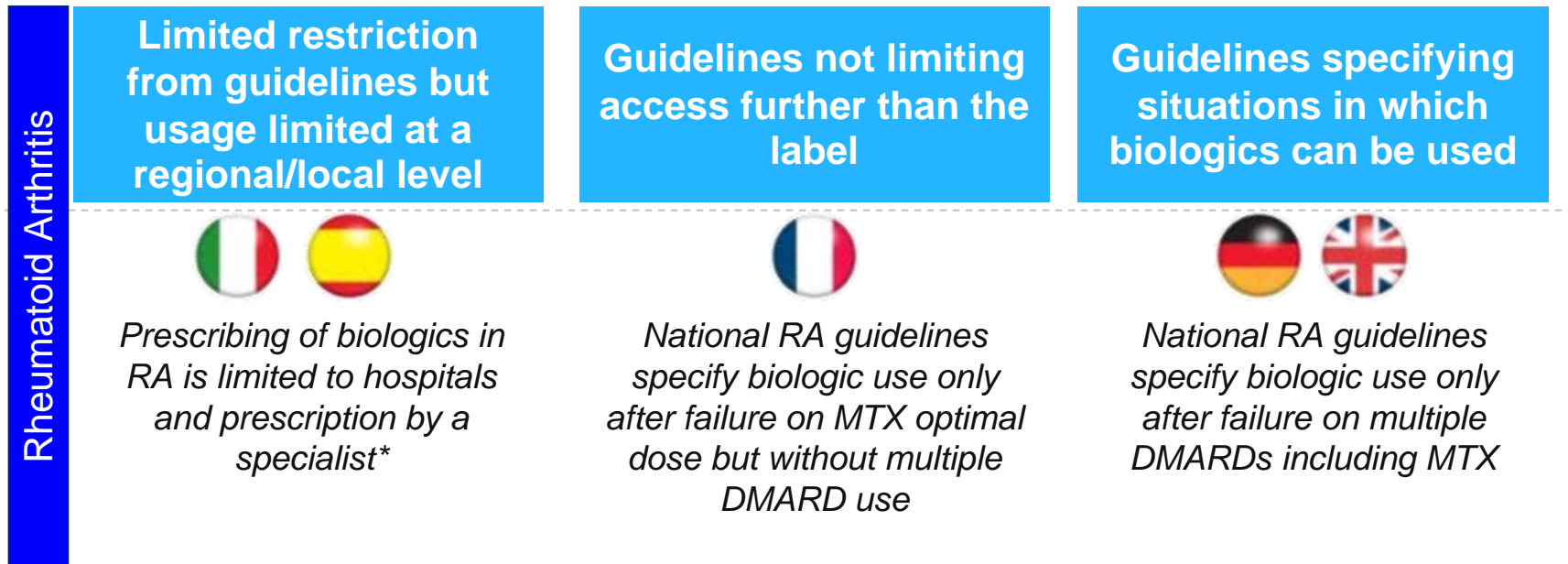
ONDAM=L'objectif national des dépenses d'assurance maladie, INN=International Non-Proprietary Name

Source: IMS Health March 2015

# In Europe, most countries restrict biologic prescribing in rheumatoid arthritis

Different markets taking different approaches

## *The different levels of restriction placed on biologic prescribing in RA*

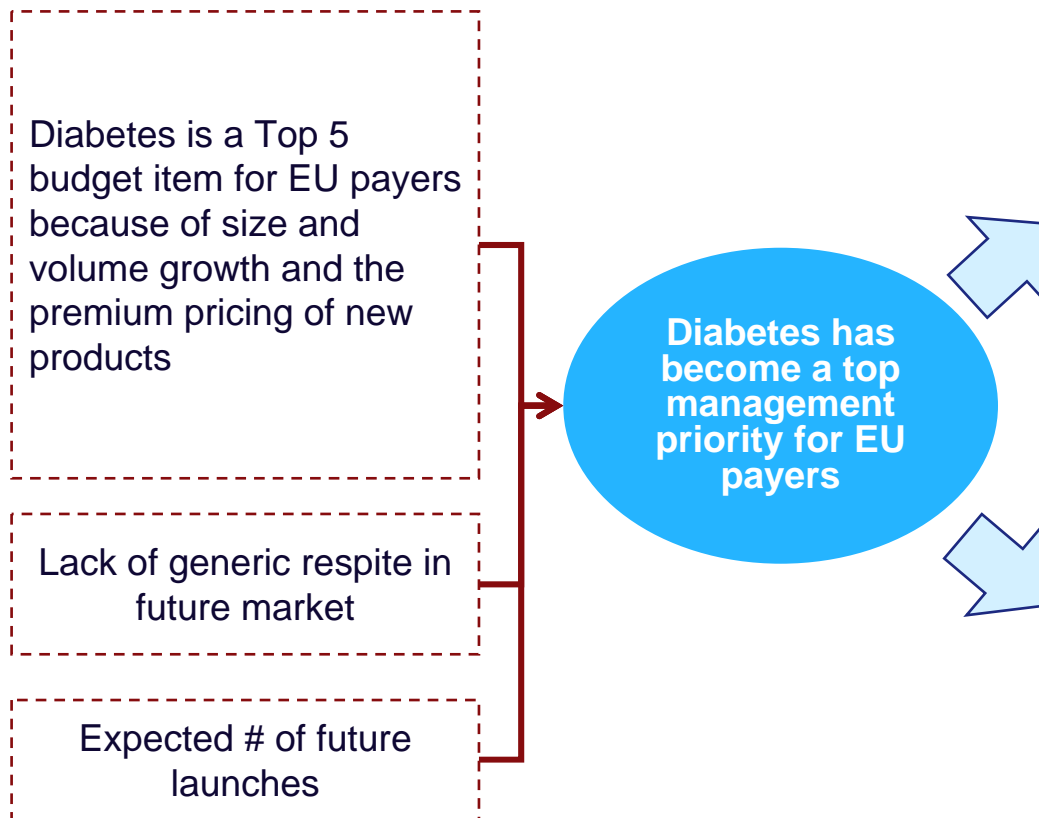


Source: IMS internal expertise, country specific websites. \*this may vary by region, some regions may have further guidelines

# Payers have identified diabetes as a budget management priority in Europe



The challenge will be positioning and sustained evidence



## Impact on new launches

- Increased **scrutiny of clinical and HECON data** in pricing and reimbursement negotiations
- **Increased demand for incremental improvements** in efficacy and safety data from 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> to market launches
- **Increased use of access restrictions** from national / regional payers

## Impact on inline products

- Increased push to use insulins as last resort in T2D through protocols and guidelines
- **Push** for pharmacists and hospitals to negotiate **larger rebates and discounts** from competitive ATCs

# European regulators and payers have taken unprecedented measures against Sovaldi



Agreement to refund the cost of Sovaldi for any patient not cured; this type of agreement is **not common** in France



Confidential discount with some sickfunds prior to the GKV-SpV negotiation outcome, which is **ground-breaking**



NHS England have delayed Sovaldi's introduction by 4 months; this is **unprecedented**



MSSSI set population maximum expenditure caps for each recent innovative HCV launch separately (€125M/year for Sovaldi)



AIFA set up an ad hoc fund of €750mn to treat a maximum of 50,000 patients with Sovaldi in 2015





# Relative „value“ assessments are used to justify price and/or reimbursement


... but there are NO systematic methodologies YET to appraise value and link it to price in any HTA system

## Recent EU5 developments suggest move towards value based pricing

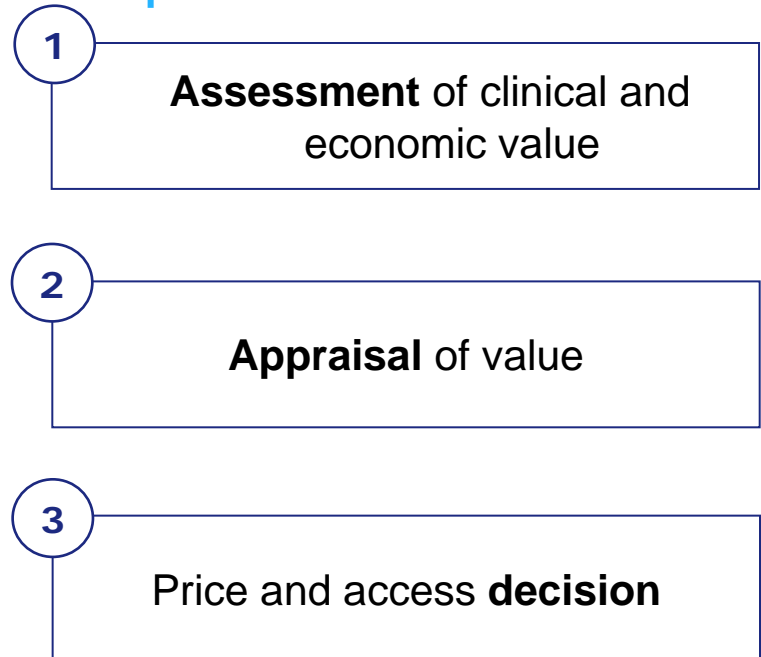
 Move to adopt ITR system delayed

 Law back on free pricing and refining orphan drug assessment

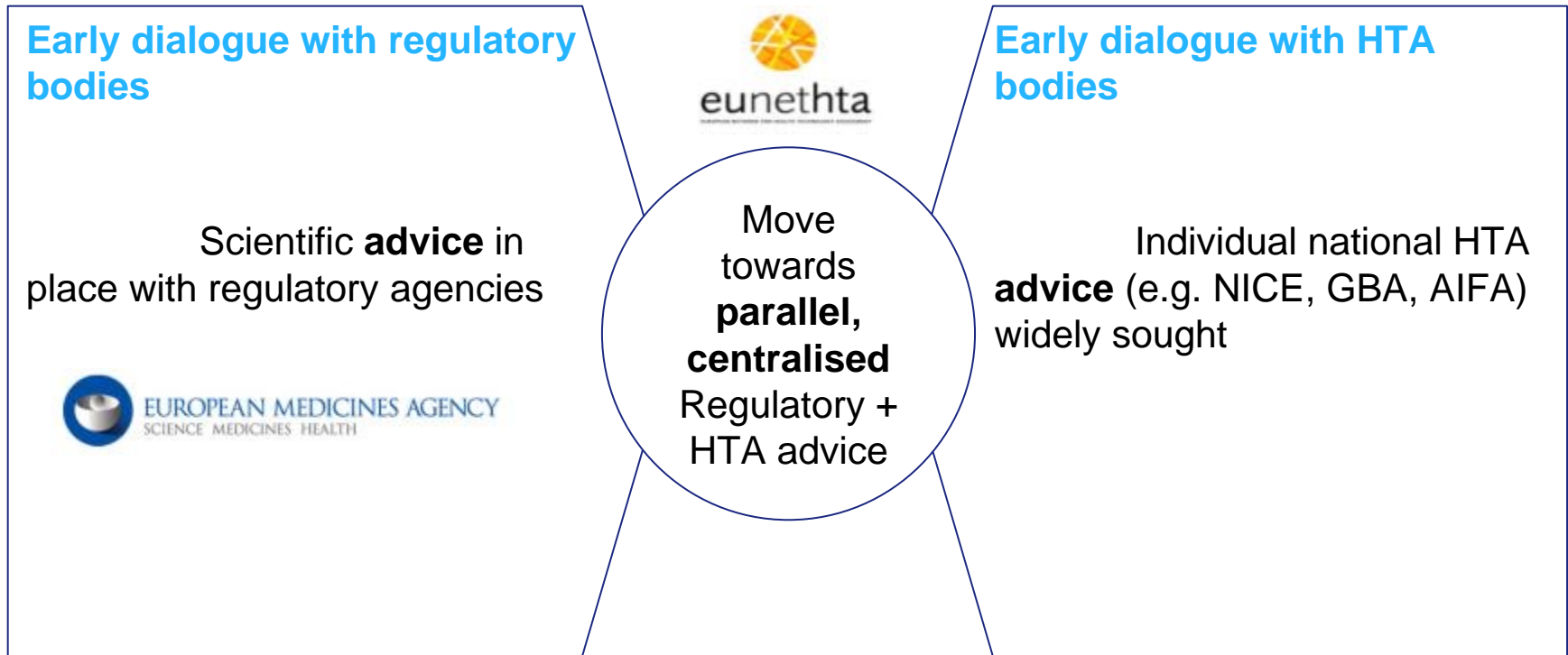
 Move to adopt a new innovation algorithm delayed

 Still no agreement on value based assessment

## Key challenges facing value based HTA process



# In the EU, there is a move towards harmonizing technical assessments



- Provide HTA **advice** to define **relevant evidence** and try to **accelerate time to access**
- Stakeholders discuss the planned development early, including **patient populations, comparators, trial design, endpoints,**



# Recent most successful launches are mostly specialist and for focused patient populations

EU launch successes are specialist lead, often for smaller patient populations

Achieving >\$540mn within 5 years of launch\* MAT 06 2014:



Zytiga (J&J)  
Aug 2011  
(\$1.07bn)



Gilenya (Novartis)  
Feb 2011  
(\$817mn)



Victoza (Novo Nordisk)  
July 2009  
(\$554mn)



Prolia/Xgeva (Amgen/GSK)  
June 2010  
(\$540mn)

All launched into areas of high unmet need:

- Prostate Cancer
- Multiple Sclerosis
- Diabetes
- Rheumatoid / Psoriatic Arthritis
- Antipsychotic depot formulation
- Osteoporosis
- Hep C
- Macular Degeneration

Achieving >\$400mn within 5 years of launch\* MAT 6 2014:



Invega Sustenna (J&J)  
April 2011  
(\$536mn)



Simponi (J&J / MSD)  
October 2009  
(\$536mn)



Eylea (Bayer/Regeneron)  
Launch October 2012  
(\$462mn)



Afinitor (Novartis)  
Aug 2009  
(\$424mn)

Specialty Products dominate

Source: IMS MIDAS June 2014



# Question is... are we defining value in the same way?

Pharma  
Exec



Payer  
Exec

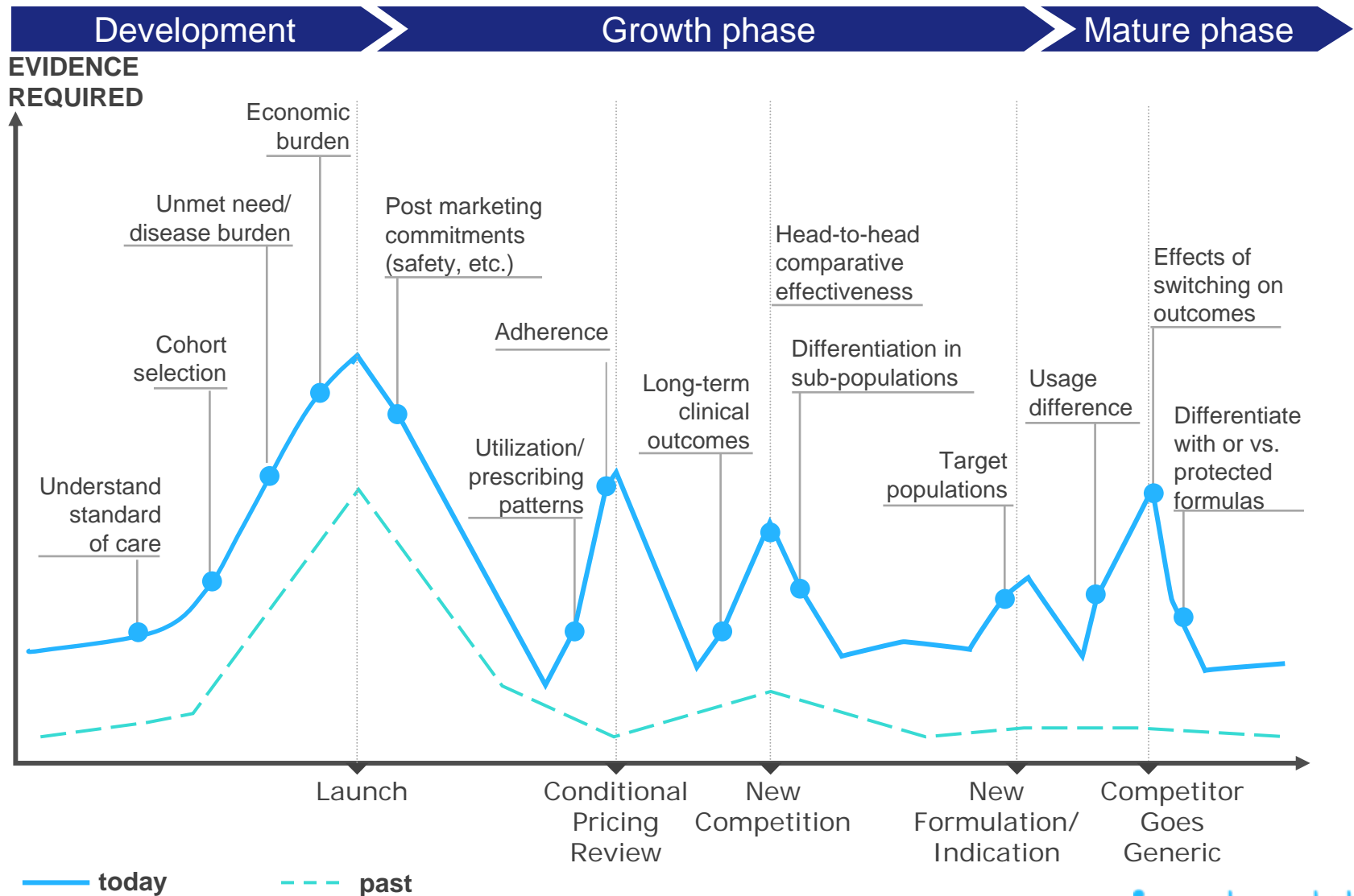
## Product X Launches in Category Y

*"**PRODUCT X** had one of the largest clinical programs ever. Today's approval for this devastating disease is **significant for patients and physicians**, since the launch of **CATEGORY Y** products over a decade ago." – Senior Executive*

*"**Not all drugs need to be covered.** There are a number of choices in some classes like **CATEGORY Y**, with **many products costing more with no additional health benefit.**" – US PBM*

Source: Fiercepharma.com; „Product X“ investor relations

# Real World Evidence can now be an essential value driver



# Disputes over price versus value is the biggest challenge for Pharma in developed markets

## Price

Additional clinical benefit is not the only factor that influences prices, context is key

## Symptoms

While relieving unaddressed symptoms is a common field of play, curing a disease or restraining its progression would change perceptions and interaction with payers

## Standard of care

SoC varies between and within countries. Patient behaviors can also influence value propositions. Think nationally but invest locally.

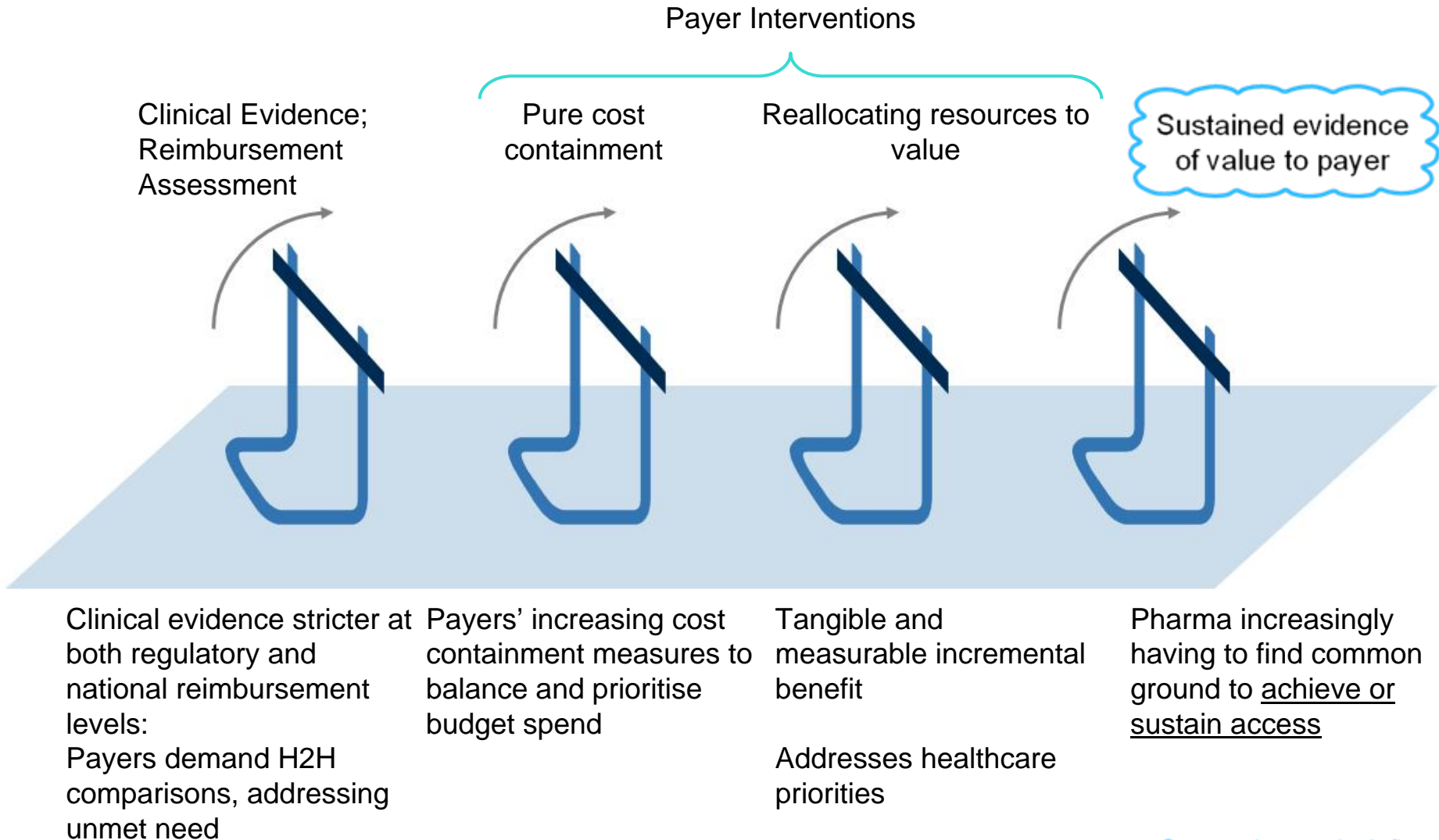
## Public/payer perception

Greater communication is needed. Pharma shouldn't be regarded as a pill supplier but as an integrated part of healthcare

## Evidence/ RWE

Sustained evidence is critical to supporting the value proposition and thanks to the explosion in data sources the opportunity has never been greater

# A restricted funding environment challenges Pharma to demonstrate value



# Efficiency and cost saving needs will drive healthcare to more virtual service

By 2020 virtual consultations may exceed face to face



*“Targeted investment in healthcare technology can deliver both better care for patients, whilst at the same time freeing up more money to provide that care...”*

Dr. Dan Poulter, UK Health minister, Nov 2014



March 2014 - British **hospital to become first in Europe to use Skype for consultations.** GPs are also being encouraged to introduce e-consultations to patients as part of the £50m GP Challenge Fund.



# Tomorrow is likely to see the rise of new mechanisms to limit spending growth

- 1 In the next 5 years there will be a dramatically reduced level of savings from shifting usage to generics
- 2 Are payers prepared adequately to cope with growing demand?... the patent 'dividend' is declining
- 3 If payers take holistic view of healthcare budgets they may be selective in allowing access to innovation
- 4 If they savings ignored across healthcare, actions will place more severe limits on access or prices for innovative medicines
- 5 If there are more restrictions on innovation, the consequence could mean higher healthcare costs in the medium term
- 6 In any of these scenarios, manufacturers can expect new mechanisms to limit spending growth, and innovation will suffer

Source: Harbingers of change in healthcare: Implications for the role and use of medicines

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**ims**health<sup>TM</sup>

INTELLIGENCE APPLIED.



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