## From launch to legacy: Pricing excellence through forecasting & analytics

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#### The business of developing and launching medicines has become increasingly difficult



Adapted from Atlas Venture 2024 Year in Review

#### Now, more than ever, it is important to protect returns (i.e., price) for commercialized medicines

References: 1. Deloitte Annual Report on the Returns from Pharmaceutical Innovation (April 2024); 2. IQVIA report "Rethinking Clinical Trial Country Prioritization" (2024); 3. IQVIA "Global Trends in R&D 2024"; 4. Deloitte Analysis (April 2024); 2. Abbreviations: IND: Investigational new drug; R&D: Research and development

## We are in an era of squeezed healthcare budgets and increased management of drug pricing

Amidst a backdrop of increasing financial pressure on healthcare systems...

...new policies are being introduced to manage pharmaceutical spend and pricing



References: 1. OECD. Accessed at: <u>https://www.oecd.org/en/topics/policy-issues/health-spending-and-financial-sustainability.html</u>; 2. Kings Funds. Accessed at: <u>https://www.kff.org/medicare/issue-brief/explaining-the-prescription-drug-provisions-in-the-inflation-reduction-act/</u> 3. G-BA German Social Code. Accessed at: <u>https://www.g-ba.de/english/benefitassessment/</u>; 4. APM News; 5. UK Government. 2024 voluntary scheme for branded medicines pricing, access and growth. Abbreviations: CEPS: Economic Committee for Health Products; GDP: Gross domestic product; OECD: Organization for Economic Co-operation and Development; SHI: Statutory health insurance; VPAG: Voluntary scheme for pricing, access and growth

## Both launch and life-cycle pricing strategy are critical for sustainable innovation



#### A single percentage point difference in each price erosion event can make a tangible difference

Illustration based on peak annual volume of 1,000 pts with a linear ramp up of 4 years (indication 1) and 2,000 pts with a linear ramp up of 5 years (indication 2). Annual price assumed to be equal across both indications. Market share consistent across scenarios Abbreviations: k: Thousands; L: Launch

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#### History has shown us the dynamism and volatility of price over the product life cycle



References: 1. Dolon data on file – Global data; Abbreviations: ATMP: Advanced therapy medicinal products; DE: Germany; JP: Japan; L: Launch; US: United States

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## History has shown us the dynamism and volatility of price over the product life cycle





(a) Prices were calculated using dosing information from the FDA label and median treatment duration or truncated at 12mo. For drugs with multiple dosage forms/packages, lowest cost dosage was used. All prices were adjusted for inflation using data provided by the Organisation for Economic Co-operation and Development. References: Laube Y, et al. JAMA Health Forum (2024). Abbreviations: L: Launch

Price over the product life-cycle is influenced by several events





**Contract expiry & re-assessments** 



Pressure from evolving competitor pricing and/or entry of new competitors that change the price benchmarks within an indication

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Requests for pre-planned or ad-hoc renegotiations due to time on market or availability of longer-term follow-up data/RWE

#### IRP



Changes in reference markets driving new lower international benchmarks or IRP basket average prices

#### **Indication expansion**

New indications bringing different value propositions, competitive dynamics and/or an increasing eligible population size to the franchise

Abbreviations: IRP: International Reference Pricing; RWE: Real-world evidence;

## The price impact of indication expansions is multi-factorial

Key factors influencing price erosion upon indication expansion							
	▲ Greater price erosion	▼ Lower price erosion					
Unmet need	Low	High					
Political importance	Unknown	Priority					
Evidence quality	Single-arm trial	RCT					
Added value vs. SoC	Symptomatic	Curative					
Increase in eligible population	Negligible	Significant					
Use in combination	Brand-on-brand	Monotherapy					
Price benchmarks	Gx/BSC	High-cost					

Mechanics influencing price evolution upon indication expansion

Lowest indication price applied across all indications

Blended-weighted calculation

Mixed but volume increase important driver

Abbreviations: BSC: Best supportive care; Gx: Generics; RCT: Randomised controlled trial; SoC: Standard of care

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## Understanding the evolution of the competitive space is crucial yet complex



(a) Current prices reflects the price available on 15<sup>th</sup> February 2025. (b) Following exceeding of €50M ODD sales threshold. References: 1. Dolon data on file – Pharmazie & Global data; 2. EMA EPAR Reports: Vyndaqel, Tegsedi, Onpattro, Amvuttra. Abbreviations: AMNOG: Arzneimittelmarkt-Neuordnungsgesetz (Pharmaceuticals Market Reorganisation Act); ATTR: Transthyretin amyloidosis; CM: Cardiomyopathy; K: Thousands

Several	principles allow
us to fo	recast price
effective	ely



Traits of super- forecasters <sup>1</sup>	Assess the external situation	Review recent P&R decisions and changes to the policy environment before making hypotheses		
	Think in degrees of uncertainty	Indicate confidence in price assumptions, including upside and downside cases as appropriate		
	Use multiple sources	Pressure test hypotheses with global, affiliate teams, and primary market research		
	Expose assumptions	Publish hypotheses in a clear and digestible format so they can be easily validated		
	Review and revise frequently	Revisit forecasts periodically (e.g., to align with internal budget cycle)		
	Keep score	Review prior forecasts for accuracy to identify any patterns/errors in underlying assumptions		
	References: 1. Te	tlock & Gardner, 2019 "Superforecasting: The Art & Science of Prediction"; Abbreviations: P&R: Pricing & Reimbursement		

## Tracking and maintaining price evolution assumptions is a complex undertaking



## Analytical tools can provide efficiency while maintaining clarity of insight



#### **Excel efficiency**

**Provides clarity** through digestible interfaces



Efficiency gains via cascading updates



Graphical, easy to interpret outputs



#### Pre-formatted Excel templates provide structure





#### Scenario management effectively captures the inherent complexity of price forecasting

#### **Dolon's Price Evolution Tracker**

Maintain a library of scenarios each with unique pricing event assumptions

Keep track of **revisions** as pricing assumptions evolve across markets

Scenario Base case	e Evolutior	Price type	trom drop-down options	Display costs		Toggle between tabular and graphical views	
Dase case			zotal tarronty		Pri	ce Evolution Price @ Date	
Jan-2027 Variation Society Society Society Competing Comp	Price 270,000 210,000 190,000 92,000	30,000 30,000 Grant 20,000 Grant 20,000 100,000 100,000 0,0	May 2024 Sep	Biefermen Date: 2025 Feb 2027	1 1 Jun 2028	Competitor 1 Competitor 1 Competitor 3 	
Tom analysis							

Track your product as well as competitor pricing landscape

Review credibility of forecasts against actual price evolution

### Price forecasting can be used to inform breakeven analyses and strategic decision-making



# **Case study 1:** Using breakeven analysis to inform indication expansion strategy for an oncology medicine



## Abbreviations: mo: Months

#### **Case study 2:** Using breakeven analysis to inform launch timing strategy



#### Conclusions



#### Price forecasting is essential to robust strategy development

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