

Debt Investor Presentation

November 2018

Updated as of Nov 14



Important Notice

This document has been prepared solely for the purpose of presenting relevant information regarding Takeda Pharmaceutical Company Limited ("Takeda"), including its proposed acquisition (the "Shire Acquisition") of Shire plc ("Shire"). This document does not constitute an offer to sell or the solicitation of an offer to buy any security in the United States, Japan or any other jurisdiction. The securities of Takeda referred to herein have not been and will not be registered under the U.S. Securities Act of 1933, as amended, and may not be offered or sold in the United States absent registration or an applicable exemption from registration requirements.

You agree to refer to the preliminary offering circular dated November 8, 2018 (the "Preliminary Offering Circular") and any amendments or supplements hereto for further and more complete information about the offering. The information contained herein is qualified by the contents of the Preliminary Offering Circular, and you should read the Preliminary Offering Circular before making an investment decision.

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Takeda presents its results in accordance with International Financial Reporting Standards ("IFRS"), while Shire presents its results in accordance with accounting principles generally accepted in the United States ("U.S. GAAP"). IFRS and U.S. GAAP differ in significant respects, and the results of Takeda and Shire are therefore not directly comparable.

These materials contain non-IFRS financial measures of Takeda, including Adjusted EBITDA and certain non-U.S. GAAP measures of Shire, including non-GAAP EBITDA. These non-IFRS and non-U.S. GAAP financial measures should not be considered in isolation or as a substitute for the most directly comparable financial measures presented in accordance with IFRS or U.S. GAAP, respectively. Furthermore, Takeda and Shire use, define and calculate their respective non-IFRS and non-GAAP measures differently, and the definition and calculation of these measures differ significantly from, and therefore may not be directly comparable to, similarly-titled measures of other companies. Please refer to reconciliation tables for details.

Takeda's results are presented in Japanese yen, while Shire's results are presented in U.S. dollars. Unless otherwise noted, where results of Takeda are presented in U.S. dollars, or where results of Shire are presented in Japanese yen, an exchange rate of \$1.00=\frac{112.359}{112.359}, the average rate for the 12 months ended December 31, 2017, has been used.

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Medical Information

This presentation contains information about products that may not be available in all countries, or may be available under different trademarks, for different indications, in different dosages, or in different strengths. Nothing contained herein should be considered a solicitation, promotion or advertisement for any prescription drug including the ones under development.



Offering summary

Indicative terms and conditions					
Issuer	Takeda Pharmaceutical Company Limited				
Security type	Senior Unsecured Notes				
Offering Size	EUR Benchmark				
Format	144A/Regulation S for life				
Expected ratings	Moody's A2 / S&P A- (Both Neg Watch)				
Tenors	2-year FXD/FRN, 4-year FXD/FRN, 8-year FXD, 12-year FXD				
Denomination	€100,000 x €1,000				
Special Mandatory Redemption	101%, if (i) the Shire Acquisition has not been consummated on or prior to the Long Stop D or (ii) the Company otherwise publicly announces that the Shire Acquisition will not be consummated				
Optional Redemption	Optional tax redemption; Make-whole call only on fixed rate notes; 1 month par call on 4-year, 3 month par call on 8-year and 12-year notes				
Use of Proceeds	To fund a portion of the cash consideration to be paid in connection with the Shire Acquisition				
Listing	Singapore Exchange Securities Trading Limited				
Governing Law	State of New York				
Active Bookrunners	J.P. Morgan, SMBC Nikko, Morgan Stanley, Barclays, BNP Paribas, HSBC				

Notes: ¹The "Long Stop Date" means May 8, 2019, or such later date as may be agreed upon in accordance with the Co-Operation Agreement, dated May 8, 2018, between Takeda Pharmaceutical Company Limited and Shire plc.; provided, however, that any such later date shall not extend beyond May 8, 2020

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Acquisition of Shire - Key transaction terms and take-out financing

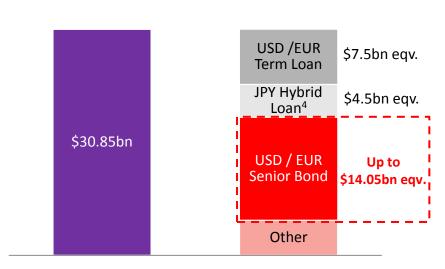
Key transaction terms¹

- Agreement to acquire Shire for an implied value of £46bn² (\$62bn)
- Shire shareholders entitled to receive, per Shire share:
 - \$30.33 cash; and
 - Either 0.839 new Takeda shares or 1.678 Takeda ADSs

Key transaction process/timeline

- The transaction is subject to 1) Shire and Takeda shareholder approval and 2) certain customary closing conditions, incl. regulatory approvals
 - Shire and Takeda shareholder meetings to approve the transaction will be held on December 5, 2018
 - Anti-trust approvals³
 - Obtained: US, Brazil, China, and Japan, etc.
 - Pending: EU, etc.
- Expected to close on January 8, 2019 or as soon as practicable thereafter following approval from the EC to proceed to completion and sanction of the scheme of arrangement by the court

Take-out financing (as of Nov. 8, 2018)



Bridge Credit Facility

Take-out financing

- Takeda already completed financing arrangements for a USD/EUR term loan (\$7.5bn eqv.) and JPY hybrid loan (\$4.5bn eqv.)
- Up to \$14.05 bn equivalent to be raised through issuances of new EUR and USD senior bonds

Notes: ¹The transaction is structured as a Jersey law Scheme of Arrangement. ² Based on the closing price of ¥ 4,923 per Takeda Share and converted using the £:¥ exchange rate of 1:1.51.51 and £:\$ exchange rate of 1:1.3945 on April 23, 2018 (the day prior to the extension of the Offer Period). ³ The countries shown are listed in 2.7 announcement on May 8 ⁴ Announced the execution of Senior Short Term Loan Facility Agreement ("SSTL") and Subordinated Syndicated Loan Agreement ("JPY Hybrid Loan") on October 26, 2018. The SSTL will finance a portion of the funds necessary for the Shire acquisition and reduce commitments of the bridge facility, and JPY Hybrid Loan will be used to refinance the debt to be borrowed pursuant to the SSTL.

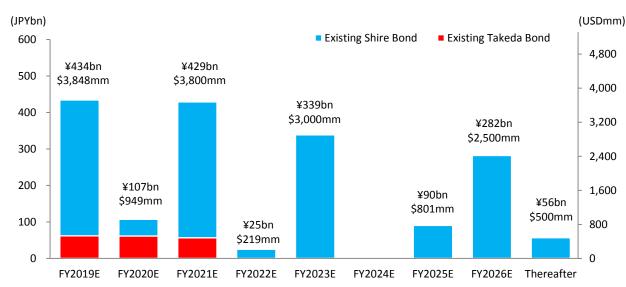


Pro-forma capitalization and maturity ladder

Pro-forma capitalization¹

Pro-forma maturity ladder of existing bonds⁶

<u>-</u>	As of March 31, 2018		
	JPYbn	USDmm	
Cash and cash eqv. ²	476.9	4,225	
Existing bonds	2,103.9	18,640	
Takeda	172.9	1,532	
Shire	1,931.0	17,108	
Existing loan	1,054.7	9,344	
Takeda	812.8	7,201	
Shire	241.9	2,143	
Pro-forma adjustment to bonds and loan ³	3,303.4	29,267	
USD/EUR Senior Bond ³	1,576.6	13,968	
Others ^{3, 4}	1,726.8	15,299	
Total debt	6,462.0	57,251	
Net debt ⁵	5,985.0	53,026	
Total equity	5,320.6	47,138	
Total Capitalization	11,305.6	100,164	



- Takeda plans to repay bonds and loans using the ample cashflow of the combined company post Shire acquisition
 - Takeda will accelerate reduction of prepayable loans using excess cash
- Takeda will consider accelerating the deleveraging process by selling noncore assets

Notes: ¹ Based off of pro forma balance sheet that combines Takeda as of March 31, 2018 and Shire as of December 31, 2017, converted using the \$/¥ of 1:112.871, the exchange rate as of March 31, 2018. Pro forma balance sheet does not reflect Shire's sale of its oncology business to Servier for \$2.4 bn in August 2018 and \$2.3bn cash tender offer to repurchase certain of its outstanding senior notes in September 2018. ¹ Includes pro forma adjustment to cash and cash equivalents ³ USD portion of the pro-forma adjustment to bonds and loan is converted using the \$/¥ of 1:112.214, the exchange rate as of October 12, 2018 to prepare pro-forma innancials in JPY in the Preliminary Offering Circular. Pro-forma capitalization table in USD above is simply converted from pro-forma capitalization in JPY, using the \$/¥ of 1:112.871, the exchange rate as of March 31, 2018. ⁴ Consists of Term loan, SSTL (JPY Hybrid Loan will be used to refinance the debt to be borrowed pursuant to the SSTL), Remaining bridge financing, less estimated debt issuance costs ⁵ Net debt = total debt – cash & cash equivalent ⁶ Financials converted using the \$/¥ of 1:112.871, the exchange rate as of March 31, 2018.



Preserving balance sheet strength and financial flexibility

- Commitment to maintaining investment grade credit ratings
- Significant combined cash flows to de-lever quickly
- Capital enhancement by hybrid finance to improve credit profile
- Target net debt to adjusted EBITDA ratio of 2.0x within three to five years
- Takeda will consider accelerating the deleveraging process by selling non-core assets

S&P Global (Nov. 8, 2018)

"Downgrade To 'BBB+' Is Likely On Shire Deal We intend to resolve the CreditWatch placements when Takeda's acquisition of Shire closes. We will likely lower our ratings on Takeda only one notch if we determine that large asset sales will be sufficient to ease its financial burden.... We believe Takeda is likely to go through with these asset sales because it has sufficient noncore assets to reduce debt significantly and it has a record of making selective asset sales and repaying debt."

S&P Global (Nov. 8, 2018)

"Even after the company closes and finances the acquisition, we currently do not expect a substantial rise in subordination risk in existing long-term senior debt we rate or new debt issuance, because we do not expect its priority debt (secured debt and debt at subsidiaries, including debt at Shire) to rise much beyond about 30%. Therefore, we equalize the issue rating with our long-term issuer credit rating on Takeda."

Moody's

(Nov. 2, 2018)

"Though still at an early stage without any definitive agreements, the divestment plan is credit positive because the proceeds will accelerate the repayment of acquisition debt following the ¥7 trillion (\$64 billion) Shire plc (Baa3 review for upgrade)deal. The company's progress toward closing this deal so far continues to support our expectation that the ratings review will ultimately result in ratings in the mid to high Baa range"

Notes: ¹ Source: S&P report (Nov. 8, 2018) "Takeda Still On Watch Negative"; Moody's report (Nov. 2, 2018) "Takeda's potential divestment of non-core businesses is credit positive";

Current Takeda ratings: A2 review for downgrade (Moody's); A- Credit Watch Negative (S&P)

Moody's downgraded Takeda in May 2018 and that S&P put Takeda on watch for a downgrade in May 2018.



Takeda / Shire at a glance



No.1 Japanese pharmaceutical player

Takeda is a R&D driven global pharmaceutical company with the highest global Rx sales among Japanese pharmaceutical companies¹

More than **27,000** employees

Operating in more than **70** countries

Senior management team includes 11 nationalities

Oncology, GI, Neuroscience, plus Vaccines are core therapeutic areas

3 candidates in Phase 3/Filed

JPY 1,771bn / USD 15.8bn

in Revenues

3 blockbuster² drugs

JPY 378bn / USD 3.4bn

in Adjusted EBITDA

Shire

Leading biopharma in rare diseases

Shire is a rare diseases-focused leader committed to differentiated and high patient-impact medicines

More than 23,000 employees

Operating in more than

60 countries

Immunology, Hematology, Neuroscience, Internal Medicine, Genetic Diseases, and Ophthalmics

are key therapeutic areas

6 candidates in Phase 3/Filed

JPY 1,703bn / USD 15.2bn

in Revenues

3 blockbuster² drugs

JPY 729bn / USD 6.5bn

In Non-GAAP EBITDA

Notes: All data as of March 31, 2018 for Takeda and December 31, 2017 for Shire except the pipeline candidate information, which is as of October 31, 2018 for Takeda and as of September 30, 2018 for Shire; EBITDA of each of the companies are not comparable because EBITDA calculation and accounting standards differ among the companies; Adj. EBITDA and Non-GAAP EBITDA adjust for items not core to their ongoing operations such as the effect of taxes, certain cash and non-cash items. For the definition and reconciliation of Adj. EBITDA, please see Pg 44, 45, For the definition and reconciliation of Non-GAAP EBITDA please see Pg 46 12017 global prescription drug sales data from EvaluatePharma® November 2018, Evaluate Ltd, www.evaluate.com; data as of Nov. 1 2 Drugs that generate annual sales of at least JPY 100 billion; Takeda – Velcade, Entyvio, Leuprorelin, Shire – Vyvanse, Gammagard Liquid, combined sales of Advate and Adynovate



Key post-closing combined company highlights

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A global, values-based, R&D-driven biopharmaceutical leader headquartered in Japan

Focus

Robust presence in core therapeutic areas

Diversification

Attractive geographic footprint aligned with market opportunities

Growth

Recently launched innovative drugs drive cash generation and growth

Value-creation

Strengthened pipeline and expanded R&D capacity leveraging Boston and Shonan R&D hubs

Significant margin expansion opportunities through continuing cost-saving initiatives and further cost savings from integration

Discipline

Diligent financial management policy with a focus on maintaining investment grade credit rating

A global, values-based, R&D-driven biopharmaceutical leader headquartered in Japan



The combined company: A global, values-based, R&D-driven biopharmaceutical leader

Revenue¹



¥1,771bn

\$15.8bn

Shire

¥1,703bn

\$15.2bn

Key Growth Products

Ninlaro

Trintellix

- **Adcetris**
- **Entyvio** Alunbrig
- Takecab

- **Shire**
- Vyvanse
- Takhzyro
- Immunoglobulin therapies

Adj. EBITDA (Takeda) / Non-GAAP EBITDA (Shire)³



Cost Synergy (by year 3)²

¥157bn

\$1.4bn

¥378bn

\$3.4bn

Shire²

¥730bn

\$6.5bn

Expected further growth areas

- Key growth products
- Additional revenue /cost synergies
- Cost control initiatives

R&D Spend (excl. Synergies)



Shire

¥325bn

\$2.9bn

¥198bn

\$1.8bn

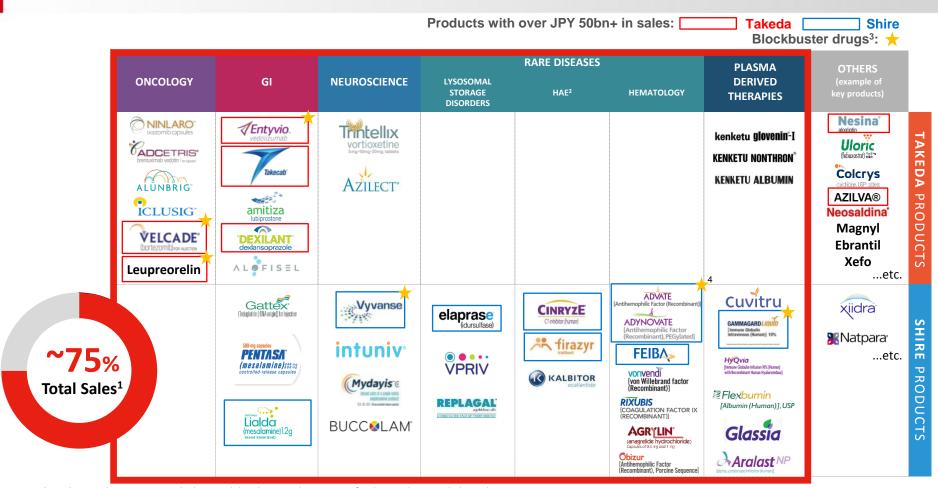
Certain rationalization

Notes: 1 the historical revenue figures represent (a) the amount for the 12 months ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/¥ of 1:112.359, the average rate for the 12 months ended December 31, 2017. These results are historical and do not take into account any divestures or other events that may have occurred since these dates. 2 the historical EBITDA figures represent Adjusted / Non-GAAP EBITDA (a) for the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017 for Shire, converted using the \$/\frac{1}{2}\$ in the 12 month period ended on March 31, 2018 for Takeda and December 31, 2017; Synergies are expected to be realized by the end of the third year after closing of the Shire Acquisition and have been reported on under Rule 28.1 of the Takeover code; related reports can be found in the Rule 2.7 Announcement made by Takeda on May 8, 2018, as well as information regarding the method of calculation of the synergies and the costs to achieve such synergies. ³ EBITDA of each of the companies are not comparable because EBITDA calculation and accounting standards differ among the companies; Adj. EBITDA and Non-GAAP EBITDA adjust for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition and reconciliation of Takeda's Adj. EBITDA, please see Pg 44, 45, for the detailed definition and reconciliation of Shire's Non-GAAP EBITDA, please see Pg 46.

Robust presence in core therapeutic areas



Approx. 75% of total sales concentrated in five areas post acquisition¹



Source: Shire plc Annual Report 2017, Takeda Consolidated Financial statements for the Fiscal Year Ended March 31, 2018

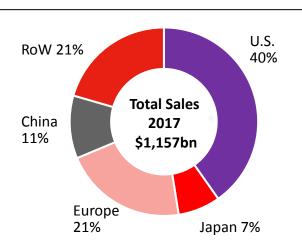
Notes: Percentage calculated using the amount for the 12 month period ended on March 31, 2018 and (b) the amount for the 12 month period ended on December 31 2017 and converted using the \$/\frac{1}{2}\$ 1:112.359, the average rate for the 12 months ended December 31, 2017 Management Data. Advate and Advate a

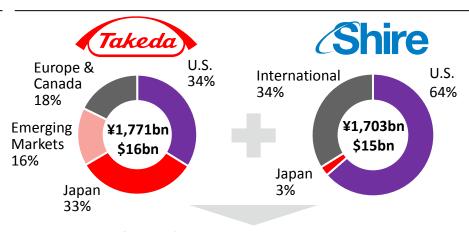




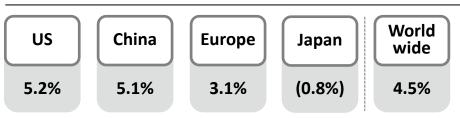
Attractive geographic footprint aligned with market opportunities

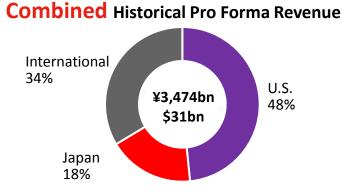
Global prescription drug market by region (2017)¹ Geographic breakdown of Takeda + Shire (2017)²





Expected market growth by region (CAGR:2017-27)1





Source: Shire Annual Report 2017 and management information, Takeda consolidated financial statements for the fiscal year ended March 31, 2017; OC; IQVIA (market data)

Notes: Percentages for the combined group are calculated by aggregating the respective revenues of Takeda and Shire by each geographic area ¹Sales data from IQVIA based on calendar year ² Revenue amounts are (a) Takeda's revenue for the 12 months ended on March 31, 2018 and (b) Shire's revenue for the 12 months ended on December 31, 2017 converted using the \$/¥ of 1:112.359, the average rate for the twelve months ended December 31, 2017. Percentages shown for Takeda and Shire do not add up to 100% due to rounding.

Recently launched innovative drugs drive cash generation and growth



Key growth products drive cash generation

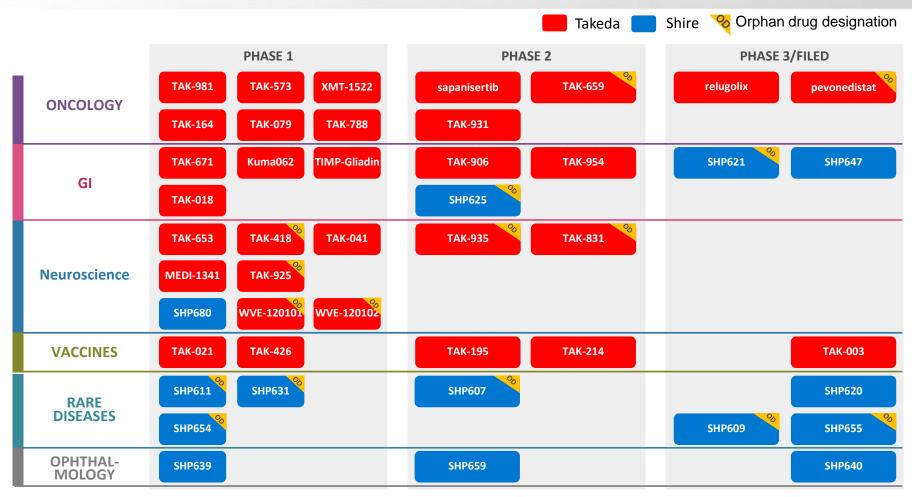
	Therapeutic	First l			t launch in key region		Product sales		
	Area	Product	Key indications	US	JPN	EU	FY2016 ¹	FY2017 ¹	YoY
Takeda	Oncology	NINLARO I Ixazomib capsules	Multiple Myeloma	2015	2017	2016	¥29.4bn /\$262mm	¥46.4bn / \$413mm	58.1%
		ALUNBRIG	Non-small cell lung cancer	2017	-	Not yet launched	-	¥2.8bn / \$25mm	N/A
		PADCETRIS* brentuximab vedotin w repeater	Hodgkin's lymphoma	-	2014	2012	¥30.1bn / \$268mm	¥38.5bn / \$343mm	27.8%
	GI	Entyvio . vedolizumab	Ulcerative colitis, Crohn's disease	2014	Not yet launched	2014	¥143.2bn / \$1,274mm	¥201.4bn / \$1,792mm	40.6%
		Takecab'	Acid-related diseases	-	2015	-	¥34.1bn / \$303mm	¥55.1bn² / \$490mm²	61.7%
	Neuroscience	Tintellix vortioxetine sory time; zime; takis	Major depressive disorder	2014	Not yet launched	-	¥31.9bn / \$284mm	¥48.4bn / \$431mm	51.6%
		Vyvanse	ADHD	2007	-	2013	¥226.3bn / \$2,014mm	¥242.8bn / \$2,161mm	7.3%
Shire	HAE	TAKHZYRO* (lanadelumab-flyo) injection	Hereditary angioedema	2018	-	2018	N/A	N/A	N/A
	Plasma derived therapies	Immunoglobulin ³	-	-	-	-	¥212.3bn ⁴ / \$1,890mm ⁴	¥251.3bn / \$2,237mm	18.4%
						Total	¥707.3bn / \$6,295mm	¥886.7bn / \$7,892mm	25.4%

Notes: ¹ Takeda: fiscal year ended March 31, 2018; Shire: fiscal year ended December 31, 2017 ² Effective from the fiscal year ending March 31, 2019, sales of certain products in Japan are disclosed on a net basis, deducting items such as discounts and rebates, in alignment with the global managerial approach applied to individual product sales. Sales of individual product for the fiscal year ended March 31, 2018 and for the six months ended September 30, 2017 have been revised retroactively on a net basis to enable year-on-year comparisons. This reclassification has no impact on Takeda's financial statements and does not represent a correction of figures from the prior fiscal years. Figures for the fiscal years ended March 31, 2016 and 2017 have not been reclassified retroactively. ³ Includes various immunoglobulin products including Gammagard Liquid. ⁴ 2016 Immunoglobulin therapies revenue represents Baxalta pro forma product sales Exchange rate: \$/¥ of 1:112.359, the average rate for the 12 months ended December 31, 2017.

Strengthened pipeline and expanded R&D capacity leveraging Boston and Shonan R&D hubs



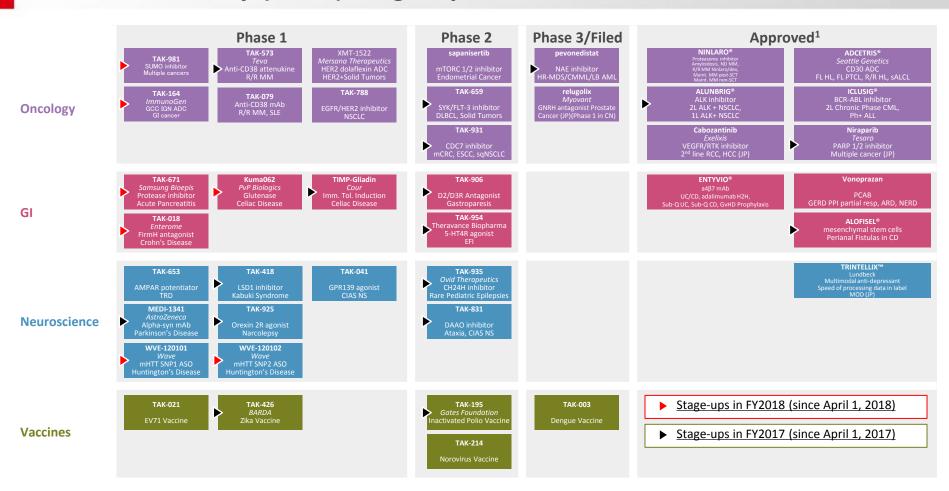
Takeda + Shire provides a complementary, robust and modality-diverse pipeline with an expected combined annual R&D spend of \$4bn+1



Notes: Pipeline as of October 31, 2018 for Takeda and September 30, 2018 for Shire; SHP652 is classified as "other" and not shown here. ¹ The greater than 400bn JPY annual R&D budget is a reference to the combined historic R&D spend for the period ending March 31, 2017 for Takeda and December 31, 2017 for Shire, less the expected R&D cost synergies.



Takeda achieved significant progress since FY2017 with 24 New Molecular Entity (NME) stage-ups

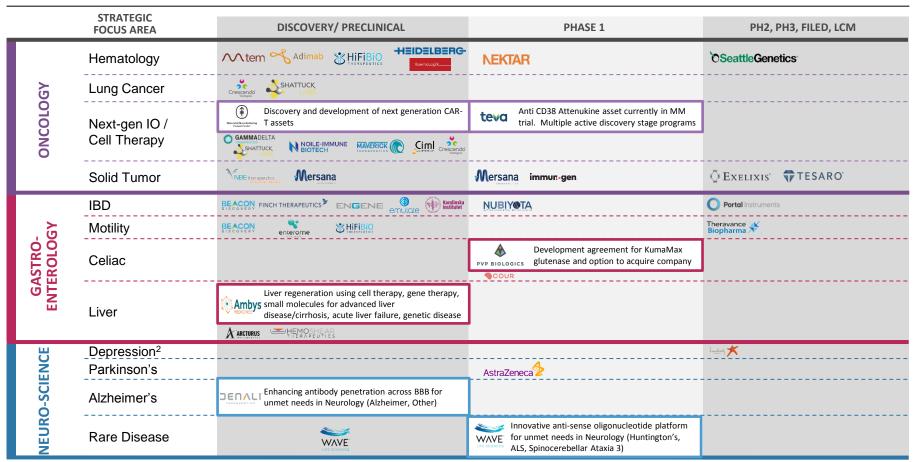


Note: Pipeline as of October 31, 2018; region abbreviations: GL = global (USA, Europe, Japan, China) ¹ With active development seeking new or supplemental indications, or approvals in new territories. For glossary of disease abbreviations please refer to appendix on Pg 49.



Takeda accelerates development of innovative R&D projects utilizing collaborations and its strong R&D hubs in Boston and Shonan

c.180 active collaborations with external partners¹



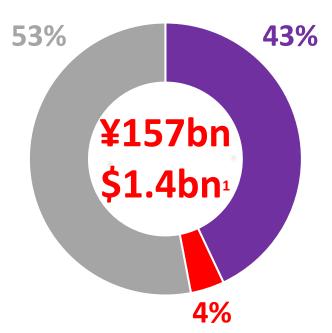
¹ Not inclusive of all partnerships; ² Depression – Focus on MDD (major depressive disorder) and TRD (treatment-resistant depression)

Significant margin expansion opportunities through continuing cost-saving initiatives and further cost savings from integration



Takeda has a clear plan to generate values by realizing synergies from Shire acquisition

Takeda plans to achieve at least \$1.4bn / ¥157bn p.a. in recurring cost synergies¹ by the end of the third fiscal year following completion of the Shire acquisition





SG&A

- Sales and marketing efficiencies
- Consolidation of overlapping office locations
- Elimination of duplicate IT systems
- Reduction of duplicate costs across central support functions

R&D

- Rationalization of ongoing research and early stage pipeline programs
- Reduction of overlapping resources

Manufacturing & Supply

- In-sourcing Oral Solid Dose manufacturing through Takeda excess capacity
- Operational procurement spending efficiencies
- Reduction of overhead

Other synergy opportunities

Revenue synergy upside

Further pursuit of cost-reductions to realize lean operation

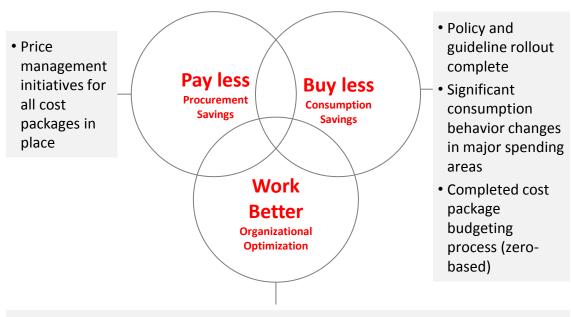
- Leverage market presence (e.g. Japan)
- Enhance position in key therapeutic areas
- Implement Takeda's ongoing Global Opex Initiative on the combined company

Notes: ¹The Takeda directors expect recurring pre-tax cost synergies for the Combined Group to reach a run-rate of at least \$1.4 billion per annum by the end of the third fiscal year following completion of the Shire Acquisition, converted using rate: \$/¥ of 1:112.359. Reported under Rule 28.1 of the Takeover Code, related reports can be found in the Rule 2.7 Announcement made by Takeda on May 8, 2018, as well as information regarding the method of calculation of the synergies and the costs to achieve such synergies



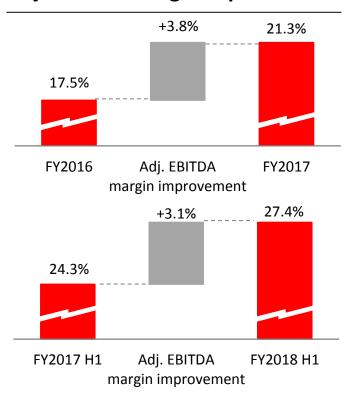
Our Global Opex Initiative has achieved material margin expansion

Activities under Our Global Opex Initiative



- Opportunities for optimization identified; functional transformations initiated
- Takeda Business Services formed with HR, Finance and Procurement in scope

Adj. EBITDA margin expansion



Notes: Adj. EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition and reconciliation of Takeda's Adj. EBITDA, please see Pg 44, 45

Diligent financial management policy with a focus on maintaining investment grade credit rating



Diligent financial management policy with a focus on maintaining investment grade credit rating

Generate & unlock cash

- Sustainable profit growth
- Reduce working capital
- Disposal of assets
 - Considering potential sizable divestitures
 - Divested Multilab (July 2018) and Guangdong Techpool Bio-Pharma (August 2018)
 - Divested real estate
 - Tokyo Takeda building and adjacent property (approx. JPY 50bn / USD 0.5bn) (majority of cash to be received in the 2H of FY2018)
 - Divested marketable securities (approx.
 JPY38.2bn /USD338mm¹ in the 1H of FY2018)

Financial and capital allocation policies

- Internal investment in R&D and product launches
- Committed to an investment grade credit rating
 - Target net debt to adjusted EBITDA² ratio of
 2.0x within three to five years
- 2018 dividends consistent with last 9 years
- Disciplined M&A / BD activities

Notes: ¹ Converted using the \$/¥ of 1:112.871, the spot rate at December 31. 2017 ² Adj. EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition and reconciliation of Takeda's Adj. EBITDA, please see Pg 44, 45



Our Commitment

- 1 Maintain investment grade credit rating
- 2 Realize early deleveraging
- 3 Deliver synergies from the Shire acquisition
- 4 Generate strong cash flow

Appendix



Transformation momentum is backed by Takeda's values and culture

Value Driven: Takeda-ism

• Patient → Trust → Reputation → Business

Global, Agile and Committed to Innovation

- Created global organization and capabilities
- Driving patient-centricity and local empowerment
- Therapeutic area focus: Oncology, GI, neuroscience, plus Vaccines

World-class Governance & Diverse Leadership

- Majority of BOD external, with Audit & Supervisory committee
- Diverse & experienced Takeda Executive Team
- Comprehensive talent development programs

Grow Portfolio

Rebuild Pipeline

Boost Profitability



Takeda: Agile, Global, R&D-driven, Headquartered in Japan

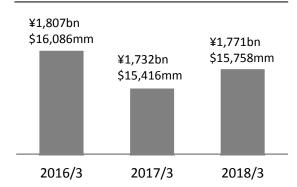
Key summary

Delivering on an ambitious company-wide and R&D-focused transformation Agile & R&D-Growth through organic transformation and acquisitions Driven Led by a highly experienced and diverse executive team with a proven track **Transformation** record Diverse board with majority of external directors Presence in 70+ markets Global More than 27,000 employees worldwide **Footprint** Incorporated and headquartered in Japan Successful global launches of key products (e.g. launch of ENTYVIO, **NINLARO and ALUNBRIG)** Pipeline progression is accelerating (24 stage-ups since April 2017) toward late stage **180 active partnerships** in R&D across Oncology, GI, neuroscience, plus **R&D Engine** vaccines Focus on highly innovative medicine: 41 clinical stage assets with active development programs, of which more than one third have orphan drug designation indications **Strategy** Growing through Oncology, GI, and neuroscience growth drivers **Driving**

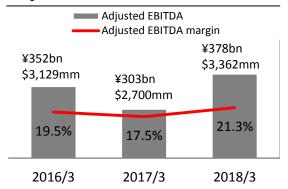
311bps adjusted EBITDA margin improvement¹ in FY2018 Q2

Strong underlying business positioned for sustainable growth

Revenue²



Adjusted EBITDA²



Notes: ¹ Change from 2Q 2017 to 2Q 2018; Adj. EBITDA growth reported in the Takeda Consolidated Financial Statements for the Three Month Period Ended June 30, 2017 and 2018. Adj. EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition and reconciliation of Takeda's Adj. EBITDA, please see Pg 44, 45 ² Financials converted using the \$/¥ of 1:112.359, the average rate for calendar year 2017

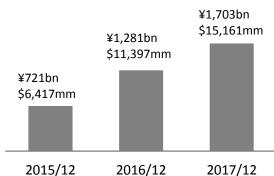
Financial

Performance

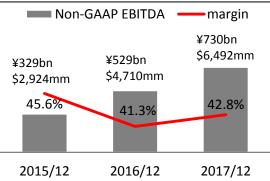


Shire: Leading biopharma in Rare Diseases

Key summary Revenue Innovative, rare diseases-focused leader committed to differentiated and Rare Diseases high patient-impact medicines Leader ¥721bn **Biotech profile** – majority of 2017 sales from rare diseases \$6.417mm 5 franchises (immunology, hematology, neuroscience, internal medicine, genetic diseases) deliver \$1bn+ annual revenues1 for each **Strong Portfolio** 2015/12 Multiple leading brands in neuroscience and rare diseases Rich, modality-diverse, clinical development pipeline Late-Stage **Pipeline** One third of programs in late phases of development ¥329hn \$2.924mm 66% of revenue in U.S.² and commercial presence in more than **60 countries** 45.6% Geographic Global company headquartered in Ireland with R&D hub in Boston and International hub in Switzerland **Footprint** More than 23,000 employees worldwide



Non-GAAP FBITDA³



Source: Shire plc Annual Report 2017, Shire plc Third Quarter 2018 Results

Notes: 1Each of the Immunology, Hematology, Neuroscience, Internal Medicine and Genetic Disease franchises reported revenues in excess of \$1 billion in the 2017 financial year; 2 For the nine months ended September 30, 2018: 3 Non-GAAP EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the detailed definition and reconciliation of Shire's Non-GAAP EBITDA, please see Pg 46 Financials converted using the \$/¥ of 1:112.359, the average rate for calendar year 2017



Shire is the Right Transaction for Takeda

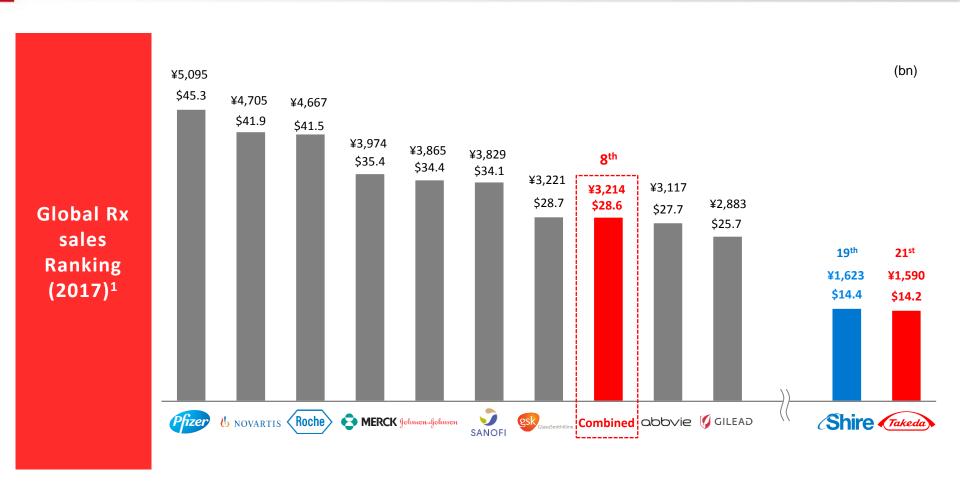
- Global, values-based, R&D-driven biopharmaceutical leader headquartered in Japan
- Attractive geographic footprint and scale
- Inspires and enables **people** to collaborate and move Takeda forward, guided by **Takeda's values** and unwavering **patient focus**
- Strengthens **GI** and neuroscience. Provides leading positions in rare diseases and plasma derived therapies to complement strength in oncology and focused efforts in vaccines
- Highly complementary, robust, modality-diverse pipeline and a strengthened R&D engine
- At least \$1.4bn expected annual pre-tax cost synergies1
- **ROIC expected to exceed Takeda's cost of capital** within first full fiscal year following completion
- Well-established dividend policy and investment grade credit rating



Notes:. ¹ The Takeda Directors expect recurring pre-tax cost synergies for the Combined Group to reach a run-rate of at least \$1.4 billion per annum by the end of the third fiscal year following completion of the Acquisition. Reported under Rule 28.1 of the Takeover Code; related reports can be found in the Rule 2.7 Announcement made by Takeda on May 8, 2018, as well as information regarding the method of calculation of the synergies and the costs to achieve such synergies.



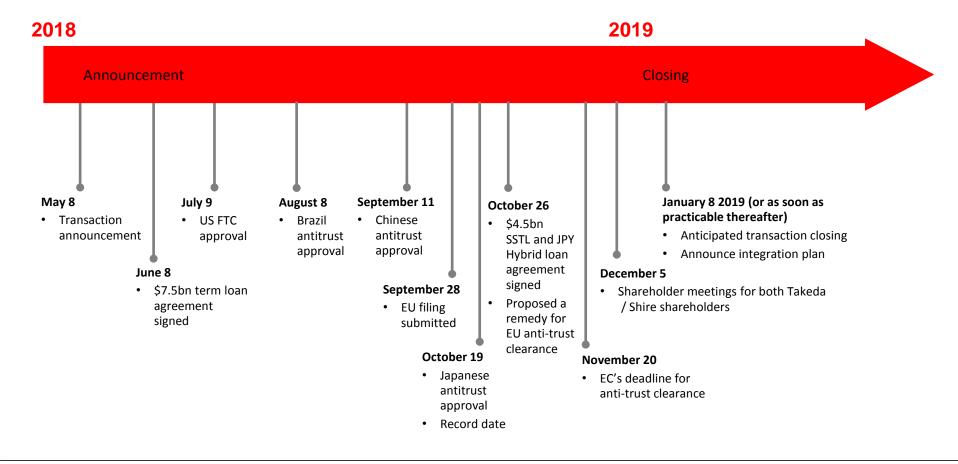
Combined company in global pharmaceutical market



Notes: ¹Source: EvaluatePharma® November 2018, Evaluate Ltd, www.evaluate.com; data as of Nov. 1, converted using rate: \$/¥ of 1:112.359, RX sales for fiscal year 2017, the average rate for the 12 months ended December 31, 2017. Excludes non-prescription drug sales in each case



Progress since deal announcement





Experienced Board of Directors with a majority of external directors

Internal directors



Christophe Weber Representative Director President & CEO



Masato Iwasaki Director, JPBU President



Andrew Plump
Director, Chief Medical
& Scientific Officer

Compensation committee





Nomination Committee Chair

External directors



Masahiro Sakane
External Director
Chairman of the Board



Michel Orsinger External Director



Toshiyuki Shiga External Director



Emiko Higashi External Director



Yoshiaki Fujimori External Director

Directors on the Audit & Supervisory Committee (A&SC)



Yasuhiko Yamanaka Director, A&SC member



Shiro Kuniya External Director, Chair A&SC



Koji Hatsukawa External Director, A&SC member



Jean-Luc Butel
External Director,
A&SC member

Notes: Current Takeda board structure



A global, diverse and experienced future leadership team



CHRISTOPHE WEBER President & CEO



COSTA SAROUKOS Global Finance



HARUHIKO HIRATE
Corporate
Communication &
Public Affairs



YOSHIHIRO NAKAGAWA Global Legal



PADMA THIRUVENGADAM Global Human Resources



MILANO FURUTA Corporate Strategy



MWANA LUGOGO Global Ethics & Compliance



RAMONA SEQUEIRA U.S. BU



MASATO IWASAKI Japan Pharma BU



GILES PLATFORD Europe & Canada BU



RICARDO MAREK Emerging Markets BU



CHRISTOPHE BIANCHI Global Oncology BU



RAJEEV VENKAYYA Global Vaccine BU



JULIE KIM¹ Global Plasma-Derived Therapy BU



ANDY PLUMP R&D



WOZNIEWSKI
Global Manufacturing
and Supply



GERARD (JERRY)
GRECO
Global Quality



CAMILLA SOENDERBY¹ Global Patient Value & Product Strategy



MARCELLO AGOSTI Global Business Development



HELEN GIZA Integration

¹ New executive members from Shire plc

Neuroscience



Takeda's Oncology business goals



We endeavor to deliver novel medicines to patients with cancer worldwide through our commitment to science, breakthrough innovation and passion for improving the lives of patients.



HEMATOLOGIC MALIGNANCIES



LUNG CANCER



IMMUNO-ONCOLOGY (I/O)

External collaboration

** Pivotal trial for Japan



An innovative pipeline* enhanced with external partnerships in oncology

	Discovery/ preclinical	Phase 1	Phase 2	Phase 3	Approved
Hematologic Malignancies	↑ tem TAK-169 CD38 SLTA	TAK-079 RR MM, SLE CD38 <i>mAB</i>	TAK-659 Lymphoma SYK, FLT-3 Small Molecule Alisertib AML AURORA A Small Molecule	Pevonedistat HR-MDS/AML NEDD 8 Small Molecule	NINLARO Amyloidosis, ND MM, R/R MM dara combo, R/R MM Ninlaro/dex,, Maint. MM post-SCT PROTEASOME Small Molecule OSeattleGenetics ADCETRIS FL HL, FL PTCL, CTCL (JP) R/R HL (CN), SALCL (CN) CD30 m/AB ADC
Lung Cancer		TAK-788 NSCLC exon 20 EGFR/HER2 Small Molecule	Sapanisertib Endometrial Cancer Lung Cancer mTORC1/2 Small Molecule		ALUNBRIG ALK+NSCLC (EU, JP, CN), FL ALK+ NSCLC ALK Small Molecule
Immuno- Oncology	TAK-252 PD-1/ OX40L TAK-676 STING	TAK-573 RR MM CD38 Attenuking MAB Fusion Protein TAK-981 SUMOYLATION Small Molecule	è		
Solid Tumors		Mersana Solid Tumors HER2 MAB ADC TAK-164 Solid Tumors GCC MAB ADC	TAK-931 Solid Tumors CDC7 Small Molecule	relugolix Prostate Cancer (JP) GnRH antagonist Small Molecule	niraparib** Ovarian TESARO' Cancer. PARP 1/2 Small Molecule Cabozantinib** 1L/2L RCC, 2L EXELIXIS' HCC Multi-RTK Small Molecule

* Assets shown in Discovery/preclinical and Phases 1-3 explicitly refer to new molecular entities

Takeda Pharmaceutical Company Limited



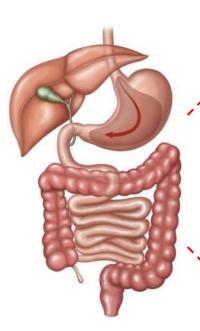
Takeda's strategy expands the portfolio across core disease areas supported by platform technologies

IBD

- Build upon success of Entyvio with new formulations
- Expand treatment options with Alofisel

Motility disorders

 Focus on select high unmet medical need areas including gastroparesis and enteral feeding intolerance



Celiac disease

 Advance approaches for the prevention of immune responses to gluten

Liver diseases

 Target early-stage investments in liver fibrosis

Luminal platforms

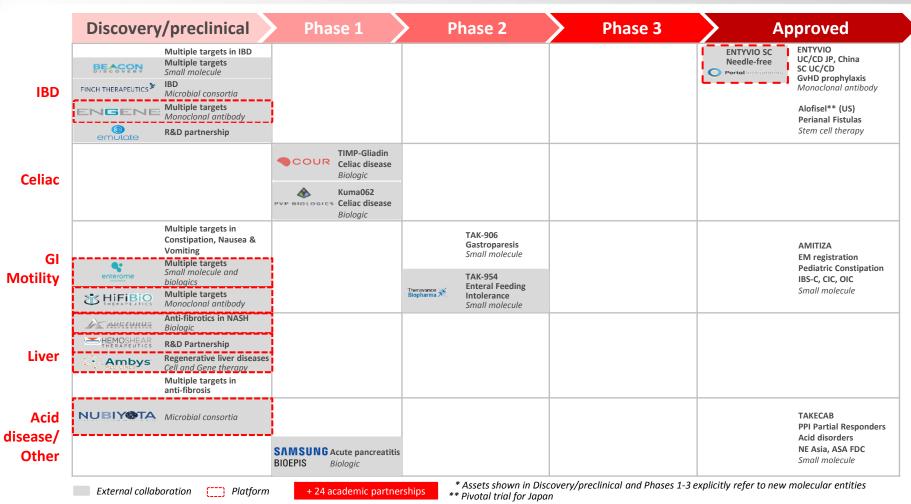
- Accelerate microbiome investments
- Invest in selective drug delivery technologies

Acid related diseases franchise will continued to be supported, but new pipeline investment will be deprioritized relative to above disease areas

Abbreviations: IBD, Inflammatory Bowel Disease e.g., Ulcerative Colitis, Crohn's disease



Takeda is executing on its strategy through a rich, diversified pipeline* fueled by strong external partnerships in GI



Abbreviations: IBD, Inflammatory Bowel Disease e.g., Ulcerative Colitis (UC), Crohn's disease (CD); SC, Subcutaneous; PPI, Proton pump inhibitor





Takeda has executed on the roadmap presented in 2016 for neuroscience

2016 Roadmap Long-Term Near / Mid-Term Innovation-driven growth Expand psychiatry/ build neurology TRINTELLIX innovation Psychiatry Expand TRINTELLIX Progress early psychiatry pipeline Partnership/co-development Create anchor in Neurology

KEY COMPONENTS OF ROADMAP

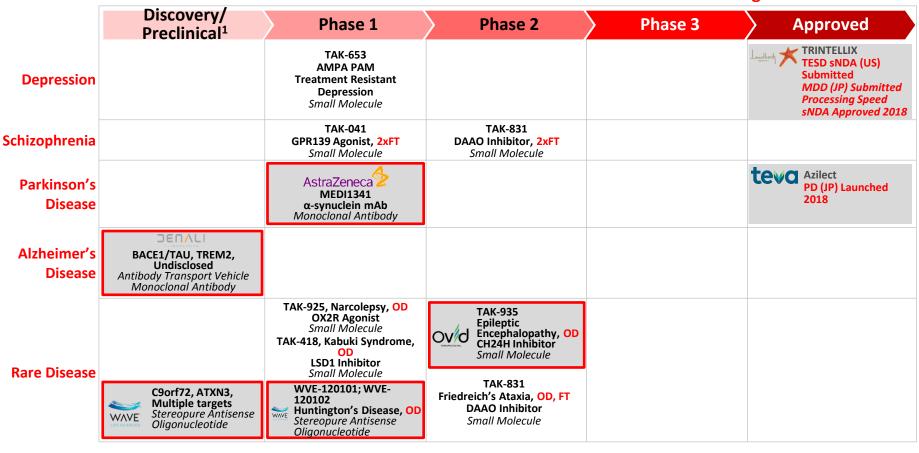
- Differentiate TRINTELLIX
- Advance early pipeline towards POC¹
- Expand in neurology and CNS rare diseases through partnerships





Building an innovative pipeline* enhanced with external partnerships in neuroscience

Progress since June 2016



New partnerships since June 2016

FT = Fast Track

OD = Orphan Designation

External collaboration

¹Only external collaborations shown, does not include internal programs

^{*} Assets shown in Discovery/preclinical and Phases 1-3 explicitly refer to new molecular entities



Summary of historical Takeda balance sheet

4,346.8

IFRS As of March 31

(bii yeii)					
<u>Assets</u>	<u>2017</u>	<u>2018</u>	Liabilities and Net Assets	<u>2017</u>	<u>2018</u>
Current assets	1,260.4	1,078.8	Current liabilities	1,366.3	737.5
Cash and cash equivalents	319.5	294.5	Bonds and loans	545.0	0.0
Trade notes and other receivables	423.4	420.2	Trade and other payables	240.6	240.3
Inventories	226.0	212.9	Other	580.7	497.2
Other	291.5	151.1			
Non-current assets	3,086.4	3,027.7	Non-current liabilities	1,031.5	1,351.5
Property, plant and equipment	527.3	536.8	Bonds and Loans	599.9	985.6
Goodwill	1,019.6	1,029.2	Deferred tax liabilities	153.4	90.7
Intangible assets	1,063.0	1,014.3	Other	278.2	275.2
Investment accounted for using the			Equity	1,949.0	2,017.4
equity method	126.4	107.9	Equity attributable to owners of the		
Other financial assets	176.6	196.4	Company	1,894.3	1,997.4
Other	173.4	143.0	Minority interest	54.7	20.0

4,106.5

Total liabilities and net assets

4,346.8

4,106.5

Total assets

(Bn ven)



Summary of historical Takeda results of operations

	<u>Ful</u>	IFRS I year ended March	<u>31</u>
(Bn yen)	<u>2016</u>	<u>2017</u>	<u>2018</u>
Revenue	1,807.4	1,732.1	1,770.5
% growth	1.7%	(4.2%)	2.2%
Research and development expenses	(335.8)	(312.3)	(325.4)
Operating Profit	130.8	155.9	241.8
% margin	7.2%	9.0%	13.7%
Adjusted EBITDA ¹	351.6	303.4	377.7
% margin	19.5%	17.5%	21.3%
Net profit for the year	83.5	115.5	186.7
% margin	4.6%	6.7%	10.5%

¹ Adj. EBITDA growth reported in the Takeda Consolidated Financial Statements for the Three Month Period Ended June 30, 2017 and 2018. Adj. EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition and reconciliation of Takeda's Adj. EBITDA, please see Pg 44, 45



Definition of Takeda's EBITDA / Adjusted EBITDA

We present EBITDA and Adjusted EBITDA because we believe that these measures are useful to investors as they are frequently used by securities analysts, investors and other interested parties in the evaluation of companies in our industry. We further believe that Adjusted EBITDA is helpful to investors in identifying trends in its business that could otherwise be obscured by certain items unrelated to ongoing operations because they are highly variable, difficult to predict, may substantially impact our results of operations and may limit the ability to evaluate our performance from one period to another on a consistent basis.

EBITDA and Adjusted EBITDA should not be considered in isolation or construed as alternatives to operating income, net profit for the year or any other measure of performance presented in accordance with IFRS. These non-IFRS measures may not be comparable to similarly-titled measures presented by other companies.

The usefulness of EBITDA and Adjusted EBITDA to investors has limitations including, but not limited to, (i) they may not be comparable to similarly titled measures used by other companies, including those in our industry, (ii) they exclude financial information and events, such as the effects of an acquisition or amortization of intangible assets, that some may consider important in evaluating our performance, value or prospects for the future, (iii) they exclude items or types of items that may continue to occur from period to period in the future and (iv) they may not exclude all items which investors may consider to be unrelated to our long-term operations, such as the results of businesses divested during a periods. These non-IFRS measures are not, and should not be viewed as, substitutes for IFRS reported net income (loss). We encourage investors to review our historical financial statements in their entirety and caution investors to use IFRS measures as the primary means of evaluating our performance, value and prospects for the future, and EBITDA and Adjusted EBITDA as supplemental measures.

EBITDA and Adjusted EBITDA

We define EBITDA as net profit before income tax expenses, depreciation and amortization and net interest expense. We define Adjusted EBITDA as EBITDA further adjusted to exclude impairment losses, other operating expenses and income (excluding depreciation and amortization), finance expenses and income (excluding net interest expense), our share of loss from investments accounted for under the equity method and other items that management believes are unrelated to our core operations such as purchase accounting effects and transaction related costs.



Reconciliation from net profit to EBITDA / Adjusted EBITDA of Takeda

_	Full yea	r ended Mar	6 months ended Sep 30		
(Bn yen)	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2017</u>	<u>2018</u>
Net profit for the year	83.5	115.5	186.7	172.7	126.5
Income tax expenses	37.1	27.8	30.5	60.3	126.5
Depreciation and amortization	182.2	171.4	182.1	93.4	78.0
Interest expense, net	3.0	5.5	6.8	3.3	3.4
EBITDA	305.8	320.2	406.1	329.7	242.2
Impairment losses	15.2	51.4	13.5	(9.2)	0.7
Other operating expense (income), net, excluding depreciation and amortization	17.0	(78.3)	(61.1)	(105.5)	(17.5)
Finance expense (income), net, excluding interest income and expense, net	7.3	5.4	(14.4)	(1.4)	11.8
Share of loss on investments accounted for under the equity method	0.0	1.5	32.2	(0.5)	(4.0)
Other adjustments:					
Loss on deconsolidation	6.3	_	_	_	_
Transaction costs related to the acquisition of ARIAD	_	3.2	_	_	_
Impact on profit related to fair value step up of inventory in ARIAD acquisition	_	-	1.4	0.8	-
Acquisition costs related to Shire	_	_	_	_	7.9
Adjusted EBITDA ¹	351.6	303.4	377.7	213.8	241.0

¹ Adj. EBITDA growth reported in the Takeda Consolidated Financial Statements for the Three Month Period Ended June 30, 2017 and 2018. Adj. EBITDA adjusts for items not core to their ongoing operations such as the effect of taxes, profit / loss attributable to equity method affiliates, impairment losses, certain restructuring and transaction costs, financing income and loss and certain other cash and non-cash items. For the full definition of Takeda's Adj. EBITDA, please see Pg 44



Reconciliation from U.S. GAAP Net income to Non GAAP EBITDA of Shire

This presentation contains the Non GAAP EBITDA of Shire, which is a financial measure not prepared in accordance with U.S. GAAP. Non GAAP measures exclude the effect of certain cash and non-cash items, which Shire's management believes are not related to the core performance of Shire's business. Shire's Remuneration Committee uses these Non GAAP measures when assessing the performance and compensation of employees, including Shire's Executive Directors. The most directly comparable measure under U.S. GAAP for Non GAAP EBITDA is U.S. GAAP Net income.

	Full yea	9 months ended Sep 30			
(USDmm)	2015	<u>2016</u>	2017	2017	2018
U.S. GAAP Net income	1,303.4	327.4	4,271.5	1,166.1	1,703.3
(Deduct) / add back:					
Loss / (gain) from discontinued operations net of tax	34.1	276.1	(18.0)	(18.6)	_
Equity in losses / (earnings) of equity method investees, net of taxes	2.2	8.7	(2.5)	(0.1)	(11.2)
Income taxes	46.1	(126.1)	(2,357.6)	44.6	371.0
Other expense/(income), net	33.7	476.8	561.8	412.9	417.2
U.S. GAAP Operating income from continuing operations	1,419.5	962.9	2,455.2	1,604.9	2,480.3
Revenue from upfront license fee	_	_	(74.6)	_	_
Expense related to the unwind of inventory fair value					
adjustments	31.1	1,118.0	747.8	688.7	40.9
Inventory write down related to the closure of a facility	_	18.9	_	_	_
One-time employee related costs	_	20.0	(4.0)	_	_
Impairment of acquired intangible assets	643.7	8.9	20.0	20.0	10.0
Costs relating to license arrangements	_	110.0	131.2	123.7	10.0
Legal and litigation costs	9.5	16.3	10.6	8.6	_
Amortization of acquired intangible assets	498.7	1,173.4	1,768.4	1,280.5	1,375.3
Integration and acquisition costs	39.8	883.9	894.5	696.7	512.0
Reorganization costs	97.9	121.4	47.9	24.5	268.9
Gain on sale of product rights	(14.7)	(16.5)	(0.4)	0.4	267.2
Depreciation	138.5	292.9	495.8	363.5	432.8
Costs related to AbbVie's terminated offer	60.1	_	_	_	_
Non GAAP EBITDA	2,924.1	4,710.1	6,492.4	4,806.7	4,866.3



Pro forma organizational / parent guarantee structure: Takeda / Shire / Baxalta / SAIIDAC

- Takeda currently expects to provide a parent guarantee over the Baxalta/SAIIDAC¹ bonds at or soon after the closing of the Shire Acquisition
- · Takeda expects that the Baxalta/SAIIDAC bonds will receive ratings no higher than the new Takeda senior bonds

Current Structure Pro Forma After M&A Closing Takeda Pharmaceutical Takeda Pharmaceutical Company Company **Takeda Existing bonds** Takeda new bonds \$14.05bn 100% Shire plc Shire plc 100% 100% 100% 100% SAIIDAC SAIIDAC Baxalta Inc. Baxalta Inc. Baxalta bonds **SAIIDAC** bonds Baxalta bonds **SAIIDAC** bonds \$1.9bn \$12.1bn \$1.9bn \$12.1bn Ownership Guarantee

¹ SAIIDAC: Shire Acquisitions Investments Ireland DAC



Existing Baxalta/SAIIDAC bonds

ISIN	Name	Currency	Announce	Maturity	Next Call Date	Coupon	Amt Issued (\$mm)	Amt O/S (\$mm)	Moody's	S&P
US07177MAN39	Baxalta Inc	USD	4/28/2016	6/23/2045	12/23/2044	5.250%	1,000	500	Baa3 *+	BBB- *+
US07177MAB90	Baxalta Inc	USD	4/28/2016	6/23/2025	3/23/2025	4.000%	1,750	800	Baa3 *+	BBB- *+
US07177MAD56	Baxalta Inc	USD	4/28/2016	6/23/2020	5/23/2020	2.875%	1,000	404	Baa3 *+	BBB- *+
US07177MAL72	Baxalta Inc	USD	4/28/2016	6/23/2022	4/23/2022	3.600%	500	219	Baa3 *+	BBB- *+
US82481LAA70	Shire Acquisitions Investments Ireland DAC	USD	9/19/2016	9/23/2019	_	1.900%	3,300	3,300	Baa3 *+	BBB- *+
US82481LAB53	Shire Acquisitions Investments Ireland DAC	USD	9/19/2016	9/23/2021	8/23/2021	2.400%	3,300	3,300	Baa3 *+	BBB- *+
US82481LAD10	Shire Acquisitions Investments Ireland DAC	USD	9/19/2016	9/23/2026	6/23/2026	3.200%	3,000	3,000	Baa3 *+	BBB- *+
US82481LAC37	Shire Acquisitions Investments Ireland DAC	USD	9/19/2016	9/23/2023	7/23/2023	2.875%	2,500	2,500	Baa3 *+	BBB- *+
							21,847	14,026		



Abbreviations

ADC	antibody drug conjugate	LCM	lifecycle management
ADHD	attention deficit hyperactivity disorder	LSD1	Lysine specific demethylase 1
ALK	anaplastic lymphoma kinase	mAb	monoclonal antibody
ALM	acute myeloid leukemia	MDD	major depressive disorder
ALS	amyotrophic lateral sclerosis	MM	multiple myeloma
ARD	acid-related diseases	mTORC	mammalian target of rapamycin complex
BBB	blood brain barrier	MTCL	mature T-cell lymphoma
CAR-T	chimeric antigen receptor-T	NAE	NEDD8 activating enzyme
CD CAN-1	Crohn's disease	NASH	non-alcoholic steatophepatitis
CIAS	cognitive impairment associated with schizophrenia	ND	newly diagnosed
CIAS	chronic idiopathic constipation	NDA	new drug application
CML	·		0 11
CMML	chronic myeloid leukemia	Neg NERD	negative non-erosive reflux disease
CNS	chronic myelomonocytic leukemia central nervous system	NME	new molecular entity
CTCL	cutaneous T-cell lymphoma	NS	•
DDAO	D-amino acid oxidase	NSCLC	negative symptoms
			non-small cell lung cancer
DLBCL	diffuse large B-cell lymphoma	OIC	opioid induced constipation
EFI	enteral feeding intolerance	PARP PCAB	poly (ADP-ribose) polymerase
EGFR	epidermal growth factor receptor	_	potassium competitive acid blocker
FL	esophageal squamous-cell carcinoma	Ph+ALL	Philadelphia chromosome-positive acute lymphoblastic leukemia
FLT-3	FMS-like tyrosine kinase 3	PPI	proton pump inhibitor
GCC	guanylyl cyclase C	PTCL	peripheral T-cell lymphoma
GERD	gastroesophageal reflux disease	R/R	relapsed / refractory
GI	gastrointestinal	RCC	renal cell cancer
GnRH	gonadotropin-releasing hormone	RTK	receptor tyrosine kinase
GvHD	graft versus host disease	sALCL	systemic anaplastic large cell lymphoma
HAE	hereditary angiodema	SCT	stem cell transplant
H2H	head to head	SCZ	schizophrenia
HCC	hepatocellular carcinoma	SLE	systemic lupus erythematosus
HER2	human epidermal growth factor receptor 2	SR	steroid refractory
HL	Hodgkin's lymphoma	SYK	spleen tyrosine kinase
HR MDS	high-risk myelodysplastic syndromes	TESD	treatment emergent sexual dysfunction
IBD	inflammatory bowel disease	TRD	treatment resistant depression
IBS-C	irritable bowel syndrome with constipation	UC	ulcerative colitis
10	immuno-oncology	VEGFR	vascular endothelial growth factor receptor
LB AML	Low-Blast Acute Myeloid Leukemia		