

Creating a Values based, R&D driven Global Biopharmaceutical Leader

December 5, 2018

Christophe Weber

President & CEO

Takeda Pharmaceutical Company Limited



Better Health, Brighter Future

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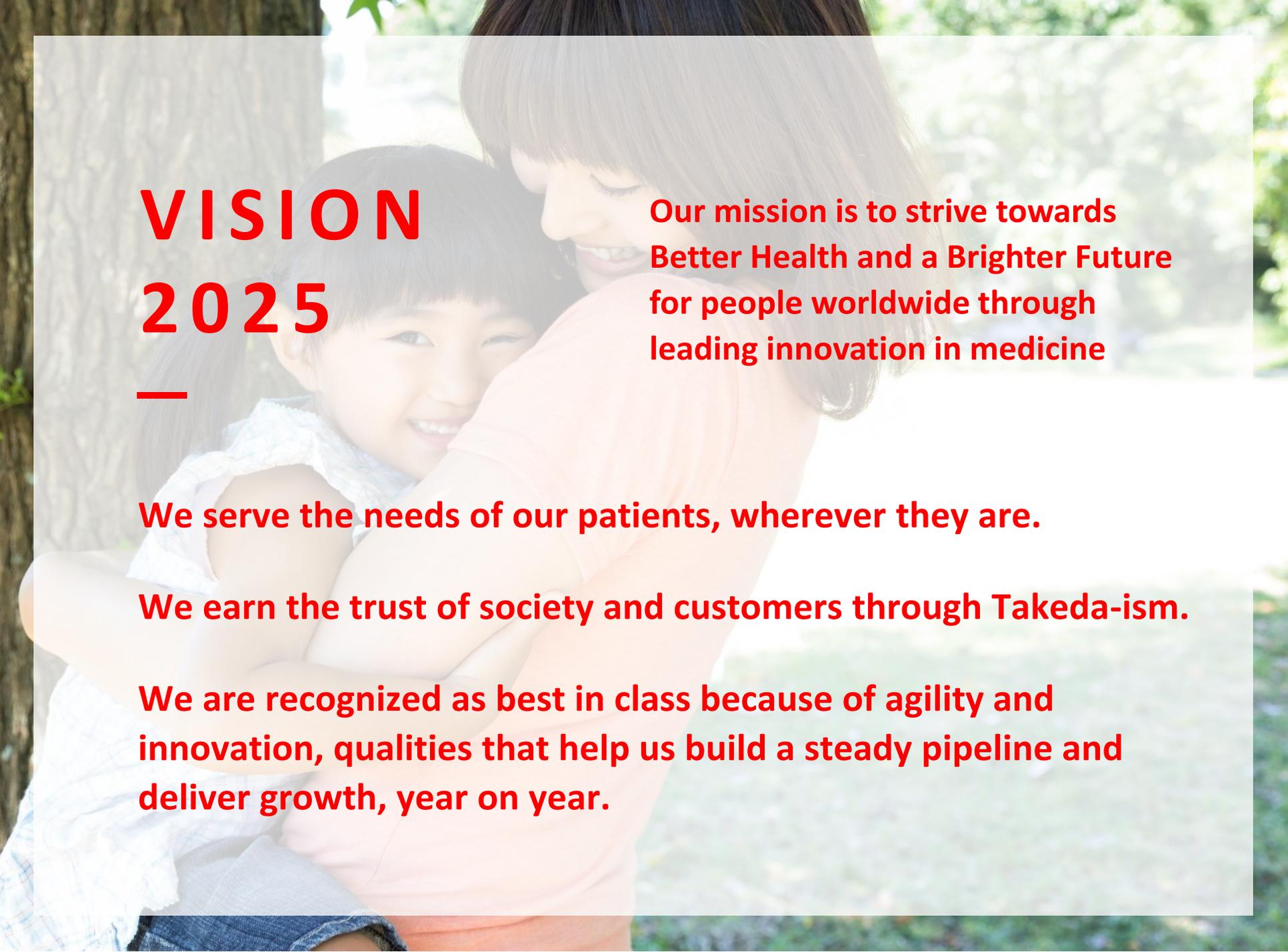
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Profit Forecast for Takeda for the year ending March 31, 2019

Takeda is currently in an offer period (as defined in the City Code on Takeovers and Mergers (the “Code”)) with respect to Shire plc. Pursuant to Rule 28 of the Code, statements made regarding Takeda’s guidance for FY2018 (including statements regarding forecasts for FY2018 revenue, Core Earnings, Operating profit, Profit before income taxes, Net profit attributable to owners of Takeda, Basic earnings per share, R&D expenses, Amortisation and impairment and other income/expense, Underlying Revenue, Underlying Core Earnings and Underlying Core EPS) constitute a profit forecast for the year ending March 31, 2019 (the “Takeda Profit Forecast”).

For additional information regarding the Takeda Profit Forecast and the required statement by its Directors that such profit forecast is valid and has been properly compiled on the basis of the assumptions stated and that the basis of accounting used is consistent with Takeda’s accounting policies, please see page 9 of Takeda’s Summary of Financial Statements (Tanshin) for the Six Months Period Ended September 30, 2018.

A photograph of a woman with dark hair, wearing a light orange shirt, hugging a young girl with dark hair, wearing a white lace-trimmed top. They are outdoors, with a tree trunk visible on the left and a blurred green background. The image is overlaid with a semi-transparent white rectangle containing text.

VISION 2025

**Our mission is to strive towards
Better Health and a Brighter Future
for people worldwide through
leading innovation in medicine**

We serve the needs of our patients, wherever they are.

We earn the trust of society and customers through Takeda-ism.

**We are recognized as best in class because of agility and
innovation, qualities that help us build a steady pipeline and
deliver growth, year on year.**

Our long history since 1781 has shaped the values that are fundamental to the success of Takeda in the long term

VALUES



We take action and make decisions by focusing on our four priorities, in order of:

1

Putting the patient
at the center



2

Building trust
with society



3

Reinforcing
our reputation



4

Developing
the business

Takeda has created a unique R&D engine

THERAPEUTIC AREA FOCUS
Oncology, Gastroenterology, Neuroscience plus Vaccines

PARTNERSHIPS & CAPABILITIES

TRANSFORM OUR CULTURE

R&D TRANSFORMATION KEY IMPERATIVES

- Agile and lean
- Dynamic and sustainable research and early development engine
- Transformative advances via reciprocally advantageous partnerships
- Laser-focused on purposeful execution

With a very focused and lean footprint freeing up resources for pipeline development



BOSTON, MA

R&D Center
Oncology, GI Research

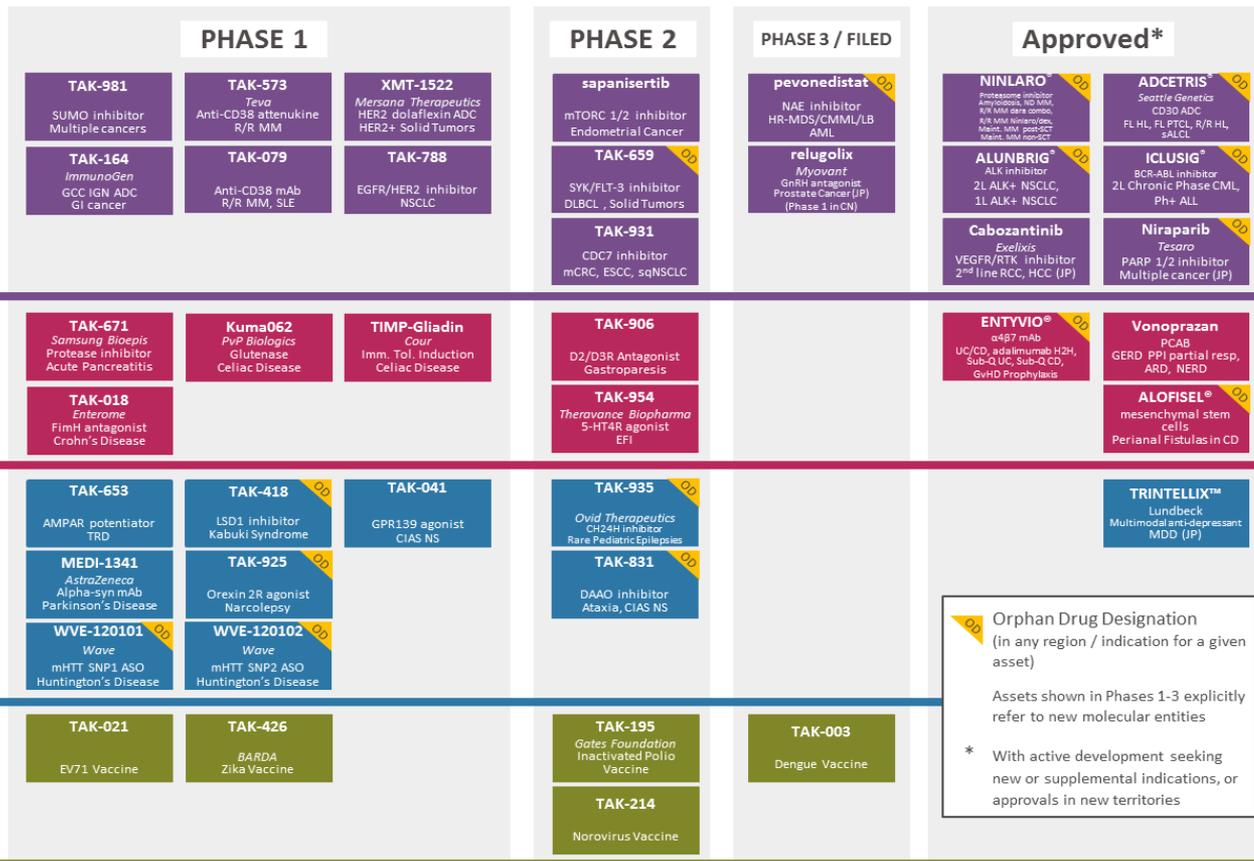
SHONAN, JAPAN

Neuroscience Research,
T-CiRA, iPark

SAN DIEGO, CA

Specialized drug
discovery technologies,
GI and Neuroscience

Resulting in a dynamic and re-invigorated pipeline



31 pipeline assets progressed since the start of FY2016

46% of pipeline is partnered

83% of pipeline with global development plans/rights

37% of pipeline has orphan drug designation

^{OD} Orphan Drug Designation (in any region / indication for a given asset)
Assets shown in Phases 1-3 explicitly refer to new molecular entities
* With active development seeking new or supplemental indications, or approvals in new territories

Pipeline as of October 31, 2018. Please refer to glossary for disease abbreviations

Shire acquisition will enhance Takeda R&D engine with an initial R&D budget greater than 400 Bn yen



7 Note: The greater than 400 billion JPY initial 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



With the potential to deliver more value in the future

■ Takeda ■ Shire ■ Orphan Drug Designation

	PHASE 1	PHASE 2	PHASE 3/FILED	APPROVED*
ONCOLOGY	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-573 Teva Anti-CD38-antennukine Refractory MM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">XMT-1522 Mersana Therapeutics HER2 dotafloxin ADC HER2 + solid tumors</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-079 Anti-CD38 mAb Refractory MM</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-788 EGFR/HER2 inh NSCLC</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">sapanisertib mTORC 1/2 inhibitor Breast cancer</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-659 OD SYK inhibitor DLBCL</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-931 CD73 inhibitor Solid Tumors</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">relugolix Myovant GNRH antagonist Prostate Cancer (JP)</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">pevonedistat OD NAE inhibitor HR MDS</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">NINLARO OD Proteasome inhibitor MM, R/L (E/M), R/R Hemipodosis, Front Line MM, R/R Myeloma, Bouliet regimen, Maintenance MM, post-SCT Maintenance MM w/9 SCT</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ADCETRIS OD Seattle Genetics CD30 ADC FL HL, FL MTCL, CTCL</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ICLUSIG OD BCR-ABL inhibitor Imatinib resistant Chronic Phase CML, Second-Line Chronic Phase CML, Ph ALL</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ALUNBRIG OD ALK inhibitor ALK+NSCLC (EU), FL ALK+ NSCLC</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">cabozantinib Exelixis VEGFR/RTK inhibitor Solid tumors (JP)</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Niraparib OD Tesaro PARP 1/2 inhibitor Multiple cancer (JP)</div>
GI	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TIMP-Gliadin Cour Imm Tol Induction Celiac Disease</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-906 D2/D3R Antagonist Gastroparesis</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-954 Theravance Biopharma 5-HT4R ag Enteral Feeding Intolerance</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP625 OD ASBTI PFC, Alagille's</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP626 ASBTI NASH</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP621 OD BOS EoE</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP647 MadCAM-1 mAb IBD</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ENTYVIO OD sIgT mAb UC/CD (E/M), UC (JP), CD (JP), adalimumab R2H Sub-Q, UC, Sub-Q, CD, GVHD prophylaxis, GVHD SR, IO Colitis</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Vonoprazan PCAB ARD (Asia), NERD (JP) PPI Partial Responder</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">AMITIZA OD Sucampo Chloride channel activator Pediatric constipation, New formulation</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">ALOFISEL OD Tigenix mesenchymal stem cells Perianal Fistulas in CD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">GATTEX GLP-2 SBS</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">RESOLOR prucalopride CIC</div>
NEURO-SCIENCE	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-653 AMPA potentiator TRD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-418 OD LSD1 inhibitor Kabuki Syndrome</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">MEDI-1341 Astra Zeneca Alpha-syn mAb Parkinson's Disease</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-925 OD Orexin 2R agonist Narcolepsy</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP680 Neurologic Conditions</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-041 GPR139 agonist CIAS neg. symptoms</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-935 OD Ovid Therapeutics CH24H inhibitor Rare Pediatric Epilepsies</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-831 OD DAAO inhibitor SCZ, Ataxia</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TRINTELLIX OD Lundbeck Multimodal anti-depressant Cognition data in label (CRF received) MDD (JP)</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">BUCCOLAM seizures</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">MYDAYIS ADHD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">VYVANSE ADHD</div>
RARE DISEASES	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP611 OD ERT MLD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP631 OD ERT Hunter CNS</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP654 OD Gene therapy HemA</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP607 OD IGF-1/IGFBP3 Chronic Lung Disease</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Lanadelumab OD Anti-kallikrein mAb HAE</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP609 OD Hunter (IT)</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP620 OD CMV infection in transplant patients</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP655 OD ERT/ ADAMTS-13 CTTP</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">FIRAZYR OD HAE</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">OBIZUR OD CHAWI Surgery</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">VONVENDI OD vWD</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">CINRYZE OD HAE, AMR</div>
PLASMA-DERIVED THERAPIES				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">HYQVIA OD Pediatric PID, CIDP</div>
VACCINES	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-021 EV71 Vaccine</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-426 BARDA Zika Vaccine</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-195 Gates Foundation Inactivated Polio Vaccine</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-214 Norovirus Vaccine</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">TAK-003 Dengue Vaccine</div>
OPHTHALMOLOGY	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP639 Glaucoma</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP659 DED</div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">SHP640 Infectious conjunctivitis</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">XIIDRA DED</div>



Accelerates Takeda transformation with a more distinctive focus on key therapy areas

ONCOLOGY	GI	NEUROSCIENCE	RARE DISEASES			PLASMA DERIVED THERAPIES	OTHERS (example of key products)
			LYSOSOMAL STORAGE DISORDERS	HAE ²	HEMATOLOGY		
 	 	 				kenketu glovenin-I KENKETU NONTHRON[®] KENKETU ALBUMIN	Nesina[®] alogliptin Colcrys (colchicine, USP) tablets AZILVA[®] Neosaldina[®] Magnyl Ebrantil Xefo ...etc.
	 	 BUCCOLAM[®]	 <small>CHANGING THE FACE OF TROPIC DISEASE</small>	 	 	 ...etc.	



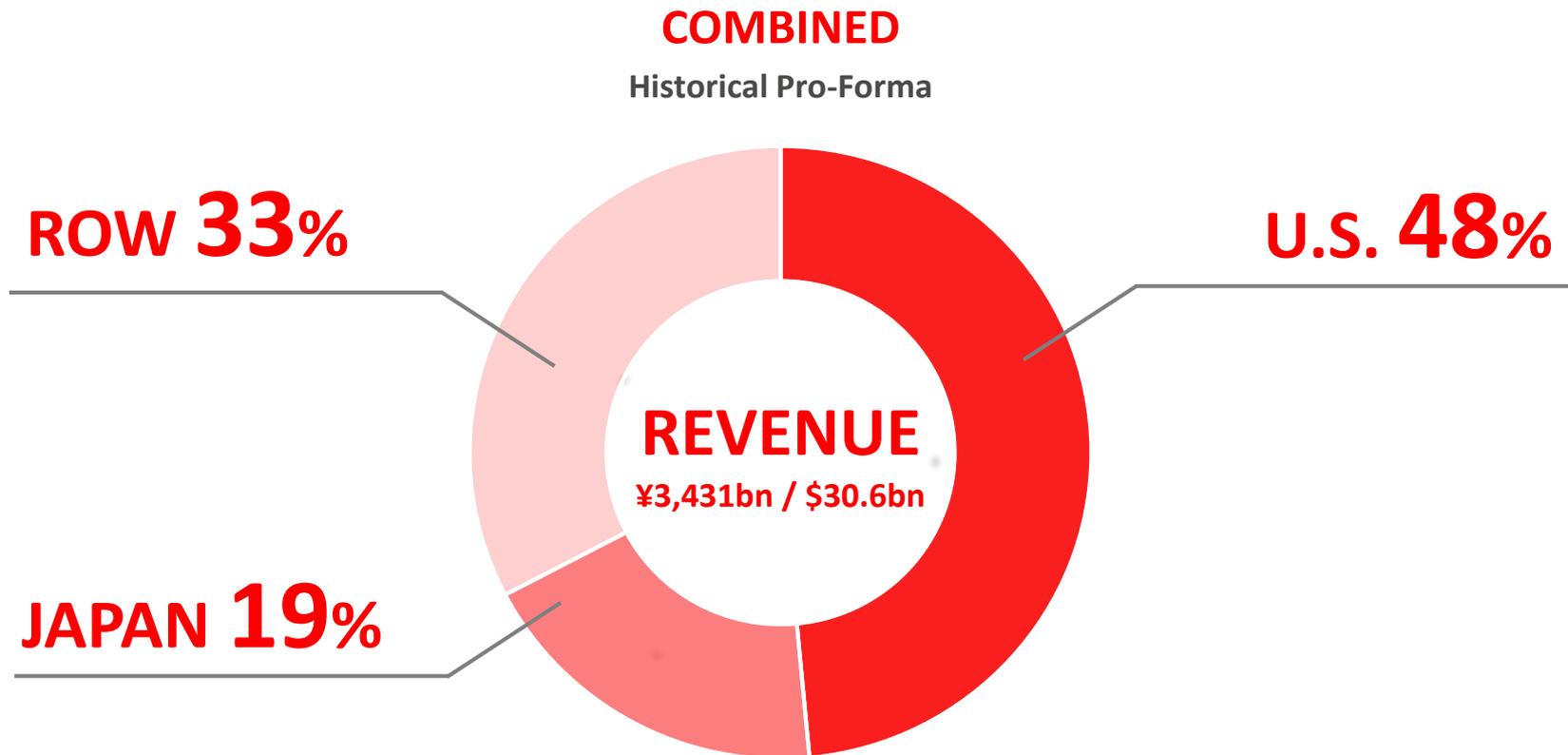
TAKEDA KEY PRODUCTS

SHIRE KEY PRODUCTS

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

Notes: Percentage calculated using (a) the amount for the 12 month period ending on March 31, 2017 and converted using the \$/¥ of 111.43 as at that date (in the case of Takeda) and (b) the amount for the 12 month period ending on December 31 2017 and converted using the \$/¥ of 112.65 as at that date (in the case of Shire). 1Management Data. 2Hereditary Angioedema

Create an attractive geographic footprint with leading positions in Japan and the U.S.



Source: Shire plc Annual Report 2017 and management information, Takeda Consolidated Financial statements for the Fiscal Year Ended March 31, 2017, Takeda Consolidated Financial statements for the Nine Month Period Ended December 31, 2017

Notes: Percentages calculated using (1) the revenue by geography for the 12 month period ending on December 31, 2017 (the final quarter of FY2016 and the first three quarters of F2017) and converted using the \$/¥ of 1:112.65 as at that date (in the case of Takeda) and (2) the revenue by geography for the 12 month period ending on December 31, 2017 (in the case of Shire). Percentages for the combined group are calculated by aggregating the revenue by geography for Takeda and Shire. The historical revenue of the combined group represent the aggregate consolidated revenue of (a) the amount for the 12 month period ending on March 31, 2017 and converted using the \$/¥ of 1:112.65 as at that date (in the case of Takeda) and (b) the amount for the 12 month period ending on 31 December 2017 and converted using the \$/¥ of 1:112.65 as at that date (in the case of Shire). These results are historic and do not take into account any divestures or other events that may have occurred since these dates. The aggregate revenue figure comprises the aggregate of Takeda's reported revenue and Shire's Non GAAP revenue.

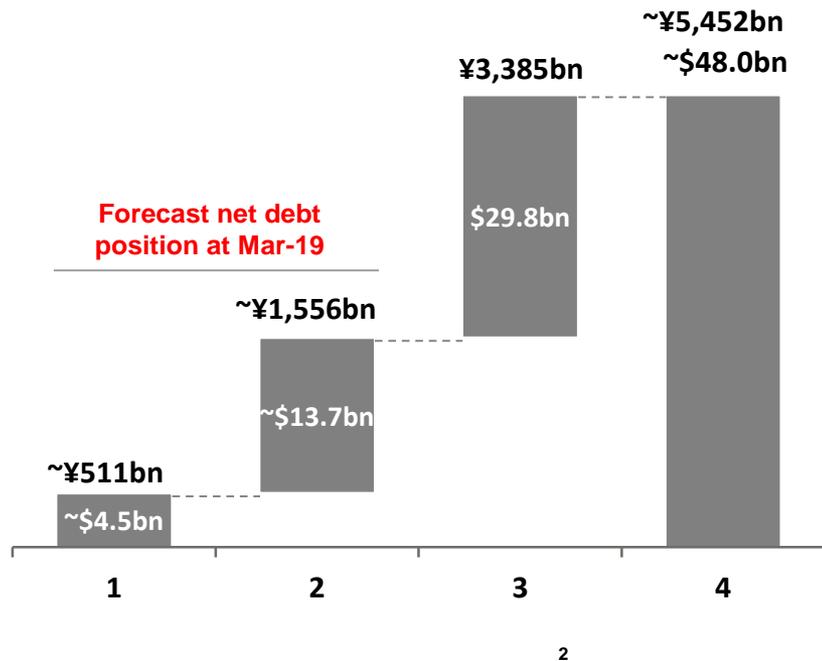
Transaction will be significantly EPS accretive and generate strong cash flow

- The recurring pre-tax cost synergies for the combined group are expected to reach a run-rate of at least ¥153bn / \$1.4bn per annum by the end of the third fiscal year following completion¹
- The number of issued Takeda shares will essentially double but EBITDA² is approximately three times larger on a historical combined basis³.
The acquisition will be significantly EPS accretive⁴ on an underlying basis from the first full fiscal year following completion and on a reported basis within 3 fiscal years post completion.
- Low risk of impairments to combined goodwill (¥4,000 bn to ¥4,400 bn) and intangible assets (¥6,300 bn to ¥6,700 bn)
- The transaction's Return on Invested Capital (ROIC) is expected to exceed Takeda's weighted average cost of capital (WACC) within the first full fiscal year following completion
- Intend to maintain our well-established dividend policy with 180 JPY dividend per share
- Committed to maintaining investment grade credit rating

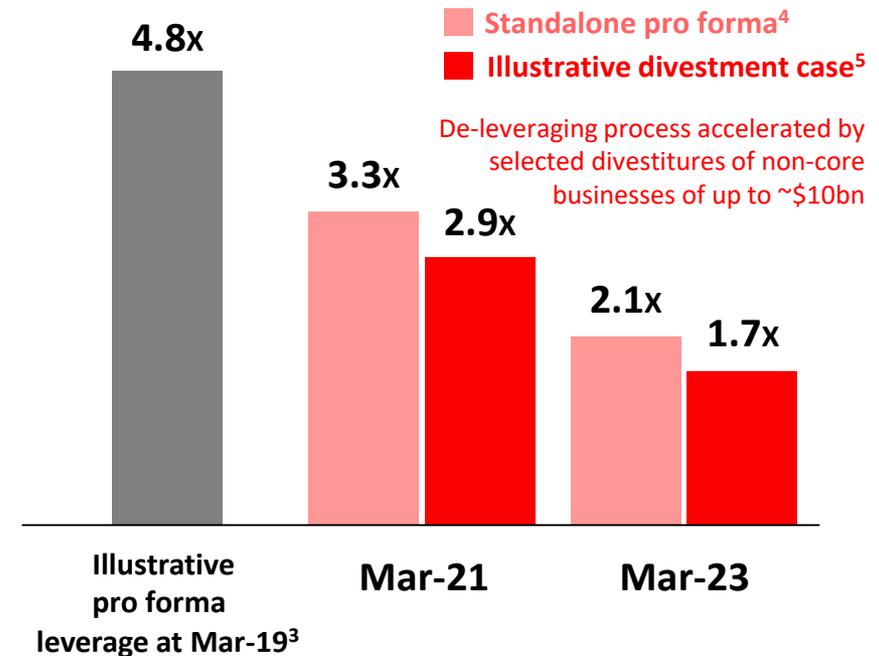
Notes: ¹ The Takeda Directors expect recurring pre-tax cost synergies for the Combined Group to reach a run - rate of at least \$1.4 billion per annum by the end of the third fiscal year following completion of the Acquisition (\$/¥ of 1:108.97 as at May 8, 2018). Reported under Rule 28.1 of the Takeover 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. ² Earnings Before Interest Taxes Depreciation and Amortization ³The historical pro-forma EBITDA figure comprises Takeda's EBITDA (Operating Profit adjusted for other operating income and expenses, intangible amortization & impairment, software amortization, PP&E depreciation & impairment and other non-recurring items) for the Fiscal Year Ended March 31, 2018 based on the exchange rates of \$:¥ of 1:108.97 as at May 4, 2018 and Shire's EBITDA for the 12 month period ending on Mar 31, 2018 (the final three quarters of FY2017 and the first quarter of FY2018). ⁴ The statement that the Acquisition is underlying earnings accretive is not intended as a profit forecast and should not be construed as such, and is therefore not subject to the requirements of Rule 28 of the Takeover Code. The statement should not be interpreted to mean that the earnings per share in any future fiscal period will necessarily match or be greater than those for the relevant preceding financial period.

Committed to investment grade with a target net debt to EBITDA ratio of 2.0x or less in the medium term

Net Debt Build Up (bn¹)



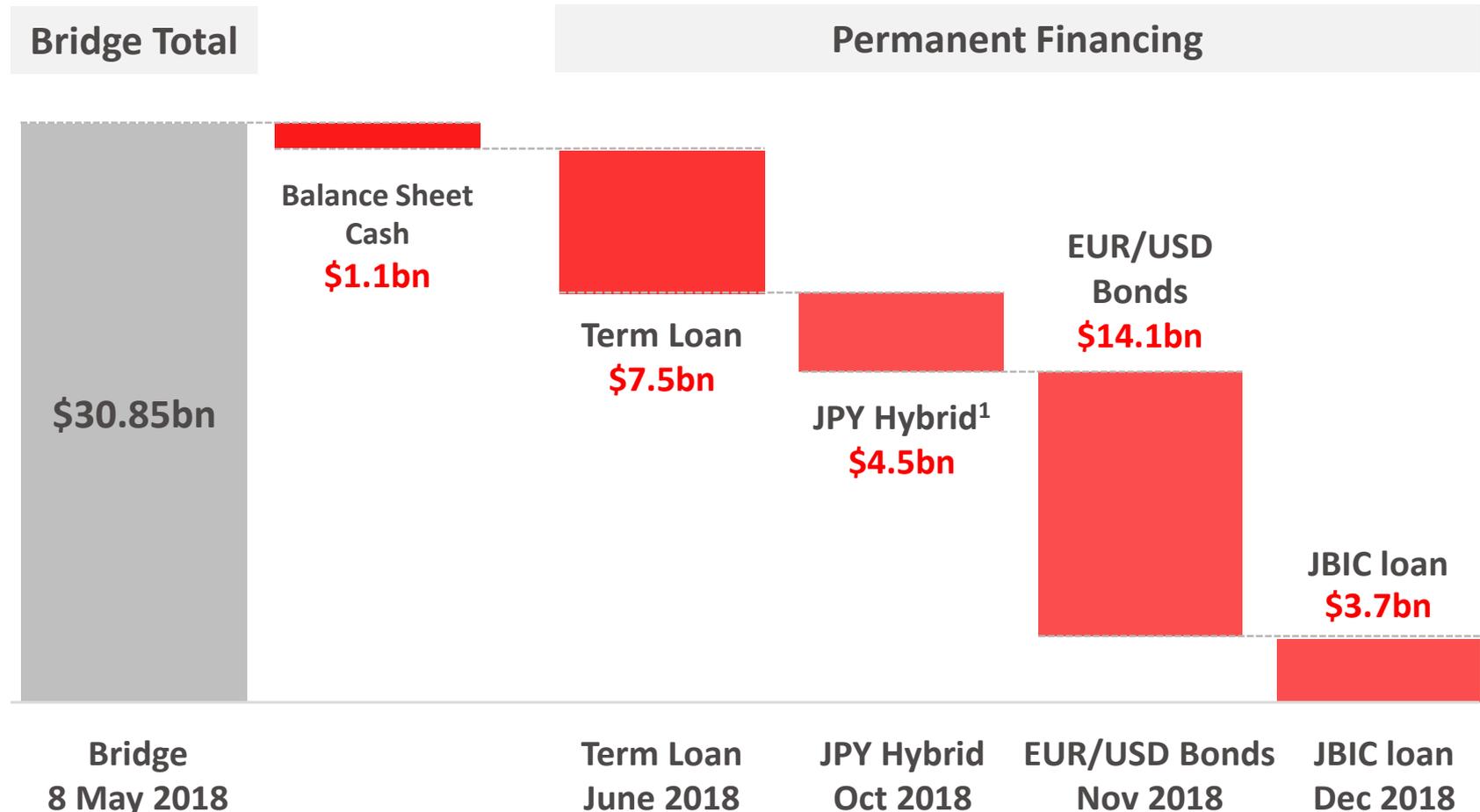
Illustrative Net Debt / EBITDA Ratio



Takeda has a strong track record in deleveraging and portfolio optimisation

Notes: ¹ Net debt converted based on the exchange rate of \$:¥ of 1:113.6 as at Sep 30, 2018, ² New debt expected to be raised in order to finance the acquisition of Shire, ³ Illustrative pro forma net debt / EBITDA of 4.8x calculated using the illustrative pro forma net debt of ~\$48.0bn. The EBITDA is calculated by adding : i) Takeda's EBITDA (Operating Profit adjusted for other operating income and expenses, intangible amortisation & impairment, software amortisation, PP&E depreciation & impairment and other non-recurring items) of \$3,552mm as per Consolidated Financial statements for the Fiscal Year Ended March 31, 2018 released on May 14, 2018 and based on the exchange rates of \$:¥ of 1:106.35 as at March 31, 2018; and ii) Shire's EBITDA of \$6,523mm for the 12 month period ending on March 31, 2018 (the final three quarters of FY2017 as disclosed in Shire's year end results released on Feb 14, 2018 and the first quarter of FY2018 as disclosed in Shire's Q1 results released on Apr 26, 2018), ⁴ Based on forecast net debt taking into account the expected cash balance, annual cash generation and forecast FY EBITDA, ⁵ Based on forecast net debt taking into account the expected cash balance, annual cash generation, an illustrative \$10bn of divestitures (post-tax) and forecast FY EBITDA (adjusted for divestitures)

Financing supported by leading global financial institutions



Note: ¹ ¥500 billion (approx. \$4.5 billion) senior short term loan entered into on 26 October 2018 (which will in turn be refinanced using a ¥500 billion (approx. \$4.5 billion) hybrid loan, also entered into on 26 October 2018)

Board of Directors for Best-in-Class Governance

INTERNAL DIRECTORS



NC

Christophe Weber

Representative Director,
President & CEO



Masato Iwasaki

Director,
JPBU President



Andrew Plump

Director, Chief Medical
& Scientific Officer

CC

Compensation
Committee

NC

Nomination
Committee

Independent
External Director

Independent
External Director

EXTERNAL DIRECTORS



NC

Masahiro Sakane

Independent Director
Chair of the Board meeting
Chair of Nomination Committee



Michel Orsinger

Independent Director



CC

Toshiyuki Shiga

Independent Director
Chair of Compensation
Committee



NC

Emiko Higashi

Independent Director



CC

Yoshiaki Fujimori

Independent Director

DIRECTORS ON THE AUDIT & SUPERVISORY COMMITTEE (A&SC)



CC

Yasuhiko Yamanaka

Director,
A&SC member



NC

Shiro Kuniya

Independent Director,
Chair A&SC



Koji Hatsukawa

Independent Director,
A&SC member

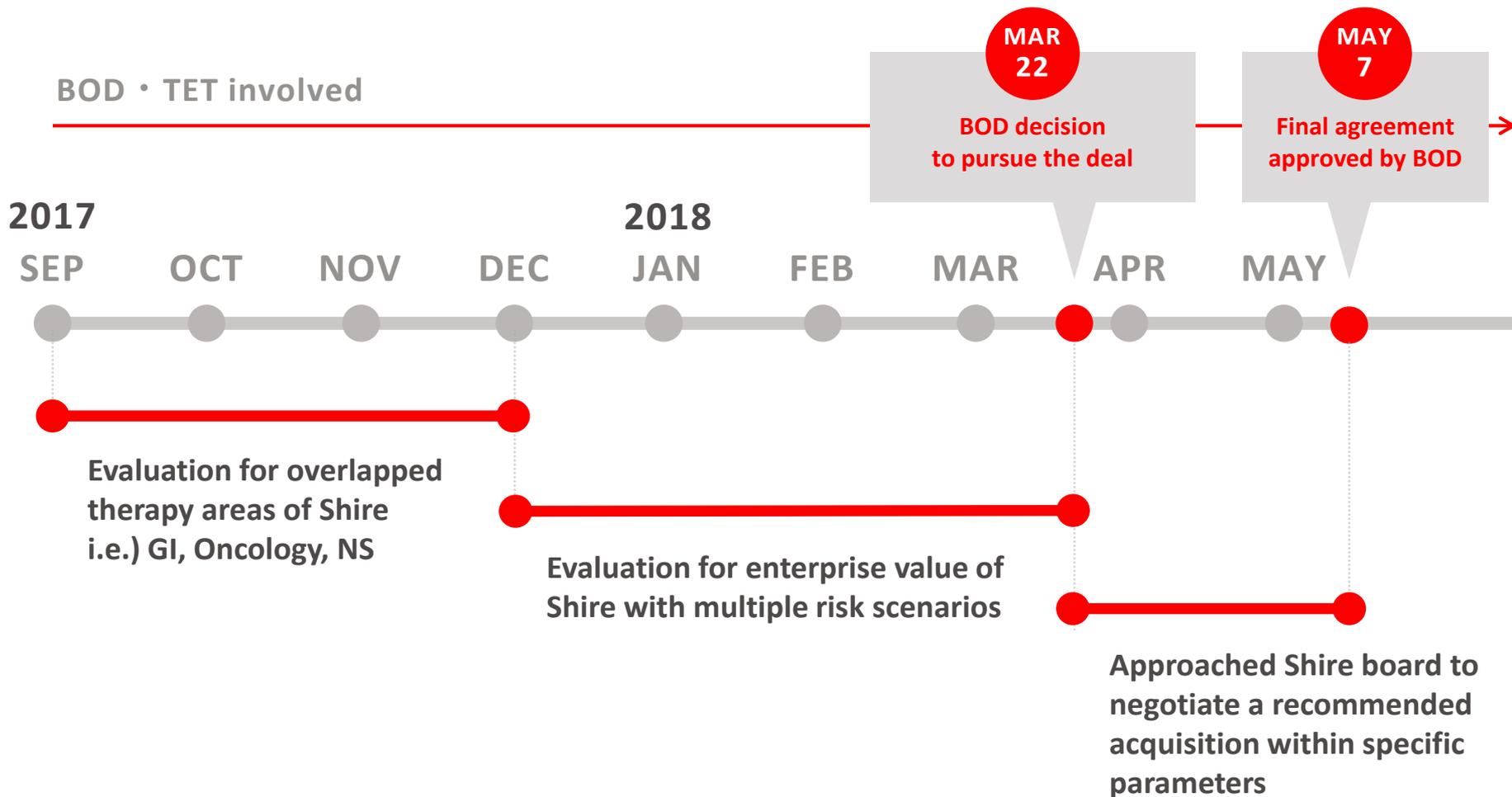


Jean-Luc Butel

Independent Director,
A&SC member



Takeda board (BOD) and Takeda Executive Team (TET) have been fully involved early in the acquisition with many reviews starting in 2017



The acquisition has been approved by the board after multiple extensive reviews with detailed risk assessment

MAJOR RISKS



Financial Market Risks

Examples:

- Interest rate risk
- Currency risk

MITIGATION

- Remain investment grade credit rated
- Denominate the debt with competitive aggregate interest rate with the right currency balance
- Consider disposal of non-core assets



Business Risks

Examples:

- Competitive pressure
- Pricing pressure

- Model future business outlook with prudent forecasts
- Risk of impairments to goodwill and intangible assets mitigated by Shire's in market products and prudent forecasts also applied to its pipeline



Integration Risks

Examples:

- Cultural difference
- Shire talent retention

- Experienced leadership well prepared for integration
- Keep consistent with Takeda's name, culture and purpose
- Promote shared intention to become a patient centric and R&D driven company
- Build the operating model to leverage Takeda and Shire employee know-how

Integration planning is well underway

Creating our new operating model to leverage Takeda and Shire know-how

PRINCIPLES

Patient-centric

- Developing more innovative medicines through a leading R&D engine
- Getting closer to patients and meeting their unique needs in each market

Agile & Simple

- Continuing to be LOC*-centric empowering General Managers to make local decisions
- Minimizing complexity

*Local Operating Company

Lean & Focused

- Focusing on six business drivers
- Leveraging global scale while keeping the right balance of country resources
- Making us fit to deal with demanding healthcare environments

4 Regional Business Units

3 Global Specialty Business Units



PDT*
BU



Oncology
BU



Vaccine
BU

*Plasma Derived Therapies

Global, diverse and experienced new Takeda Executive Team (Post-closing)



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. Business Unit



MASATO IWASAKI
Japan Pharma
Business Unit



GILES PLATFORD
Europe & Canada
Business Unit



RICARDO MAREK
Emerging Markets
Business Unit



CHRISTOPHE BIANCHI
Global Oncology
Business Unit



RAJEEV VENKAYYA
Global Vaccine
Business Unit



JULIE KIM¹
Global Plasma-
Derived Therapy
Business Unit



ANDY PLUMP
R&D



THOMAS 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

Reinforce the diversity and strength of the board with appointment of three new independent external directors

INTERNAL DIRECTORS



NC

Christophe Weber
Representative Director,
President & CEO



Masato Iwasaki
Director,
JPBU President



Andrew Plump
Director, Chief Medical
& Scientific Officer

CC Compensation Committee

NC Nomination Committee

Independent External Director

EXTERNAL DIRECTORS



NC

Masahiro Sakane
Independent Director
Chair of the Board meeting
Chair of Nomination Committee



Michel Orsinger
Independent Director



CC

Toshiyuki Shiga
Independent Director
Chair of Compensation Committee



NC

Emiko Higashi
Independent Director



CC

Yoshiaki Fujimori
Independent Director



Ian Clark¹
Independent Director



Olivier Bohuon¹
Independent Director



Steven Gillis¹
Independent Director

DIRECTORS ON THE AUDIT & SUPERVISORY COMMITTEE (A&SC)



CC

Yasuhiko Yamanaka
Director,
A&SC member



NC

Shiro Kuniya
Independent Director,
Chair A&SC



Koji Hatsukawa
Independent Director,
A&SC member



Jean-Luc Butel
Independent Director,
A&SC member

¹ New independent external directors from Shire plc



The acquisition of Shire will enable Takeda to significantly accelerate its transformational journey to become a values-based, R&D driven global biopharmaceutical leader headquartered in Japan



Glossary of Abbreviations

AD	Alzheimer's disease	ESCC	esophageal squamous-cell carcinoma	NF	new formulation
ADC	antibody drug conjugate	FL	front line	NK	natural killer
ADHD	attention deficit hyperactivity disorder	FLT-3	FMS-like tyrosine kinase 3	NME	new molecular entity
ALK	anaplastic lymphoma kinase	FSI	first subject in	NSCLC	non-small cell lung cancer
ALS	amyotrophic lateral sclerosis	GCC	guanylyl cyclase C	NSCT	non stem cell transplant
AML	acute myeloid leukemia	GERD	gastroesophageal reflux disease	NS	negative symptoms
AMR	antibody mediated rejection	GI	gastrointestinal	OIC	opioid induced constipation
ASCT	autologous stem cell transplant	GnRH	gonadotropin-releasing hormone	ORR	overall response rate
ARD	acid-related diseases	GU	gastric ulcer	PARP	poly (ADP-ribose) polymerase
BTK	Bruton's tyrosine kinase	GvHD	graft versus host disease	PBS	phosphate buffered saline
BBB	blood brain barrier	HAE	hereditary angioedema	PCAB	potassium competitive acid blocker
BOS	budesonide oral suspension	H2H	head to head	PFIC	progressive familial intrahepatic cholestasis
CAR-T	Chimeric antigen receptor-T	HCC	hepatocellular carcinoma	Ph+ ALL	Philadelphia chromosome-positive acute lymphoblastic leukemia
CD	Crohn's disease	HemA	hemophilia A	PID	primary immunodeficiency
CHAWI	congenital hemophilia A with inhibitors	HER2	human epidermal growth factor receptor 2	PPI	proton pump inhibitor
CIAS	cognitive impairment associated with schizophrenia	HL	Hodgkin's lymphoma	PK	pharmacokinetics
CIC	chronic idiopathic constipation	HR MDS	high-risk myelodysplastic syndromes	POC	proof of concept
CIDP	chronic inflammatory demyelinating polyneuropathy	IBD	inflammatory bowel disease	POI	post-operative ileus
CML	chronic myeloid leukemia	IBS-C	irritable bowel syndrome with constipation	PTCL	peripheral T-cell lymphoma
CMML	chronic myelomonocytic leukemia	IND	investigational new drug	R/R	relapsed/refractory
CSF	cerebrospinal fluid	I/O	immuno-oncology	RA	rheumatoid arthritis
CNS	central nervous system	IV	intravenous	RCC	renal cell cancer
CRL	complete response letter	iPSC	induced pluripotent stem cells	RTK	receptor tyrosine kinase
CTCL	cutaneous T-cell lymphoma	LBD	Lewy body dementia	sALCL	systemic anaplastic large cell lymphoma
CTTP	congenital thrombotic thrombocytopenic purpura	LB AML	low-blast acute myeloid leukemia	SBS	short bowel syndrome
DAAO	D-amino acid oxidase	LSD1	Lysine specific demethylase 1	SC	subcutaneous formulation
DED	dry eye disease	LCM	lifecycle management	SCT	stem cell transplant
DLBCL	diffuse large B-cell lymphoma	mAb	monoclonal antibody	SCZ	schizophrenia
DM	diabetes mellitus	MAOB	monoamine oxidase B	SLE	systemic lupus erythematosus
DU	duodenal ulcer	MLD	metachromatic leukodystrophy	sq	squamous
Dx	diagnosis	NAE	NEDD8 activating enzyme	SR	steroid refractory
EE H	erosive esophagitis healing	NASH	non-alcoholic steatohepatitis	SR-GvHD	steroid refractory acute graft vs host disease
EE M	erosive esophagitis maintenance	ND	newly diagnosed	STING	stimulator of interferon genes
EFI	enteral feeding intolerance	NDA	new drug application	SUMO	small ubiquitin-related modifier
EGFR	epidermal growth factor receptor	Neg	negative	SYK	spleen tyrosine kinase
EOE	eosinophilic esophagitis	NERD	non-erosive reflux disease	TESD	treatment emergent sexual dysfunction