

The logo features the letters 'TTV' in a bold, red, italicized font, followed by 'BIOPHARM' in a white, italicized font with a registered trademark symbol. The entire logo is set against a black diamond-shaped background.

TTV BIOPHARM®

台灣東洋藥品

WELCOME TO JOIN US

September, 2022

Safe Harbor Statement

This presentation contains certain forward-looking statements.

These forward-looking statements may be identified by words such as 'believes', 'expects', 'anticipates', 'projects', 'intends', 'should', 'seeks', 'estimates', 'future' or similar expressions or by discussion of, among other things, strategy, goals, plans or intentions. Various factors may cause actual results to differ materially in the future from those reflected in forward-looking statements contained in this presentation, among others:

- 1 pricing and product initiatives of competitors;
- 2 legislative and regulatory developments and economic conditions;
- 3 delay or inability in obtaining regulatory approvals or bringing products to market;
- 4 fluctuations in currency exchange rates and general financial market conditions;
- 5 uncertainties in the discovery, development or marketing of new products or new uses of existing products, including without limitation negative results of clinical trials or research projects, unexpected side-effects of pipeline or marketed products;

- 6 increased government pricing pressures;
- 7 interruptions in production
- 8 loss of or inability to obtain adequate protection for intellectual property rights;
- 9 litigation;
- 10 loss of key executives or other employees; and
- 11 adverse publicity and news coverage.

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Company Overview

Market Deployment

Pipeline Status

Financials & ESG Performance

Summary

Q&A

Structure

**(4105 TT)
TTY Biopharm**

Local Segments

Oncology

Intensive Care

Healthcare

CDMO

Business
Development
Division

Major Investments

EnhanX
(50%)*

(8432 TT)
TSH (56.48%)

(6566 TT)
CY Biotech
(49.05%)

Philippines (87%) Vietnam (100%)
Mexico (100%) Korea (100%)
Turkey (100%)

Equity Method

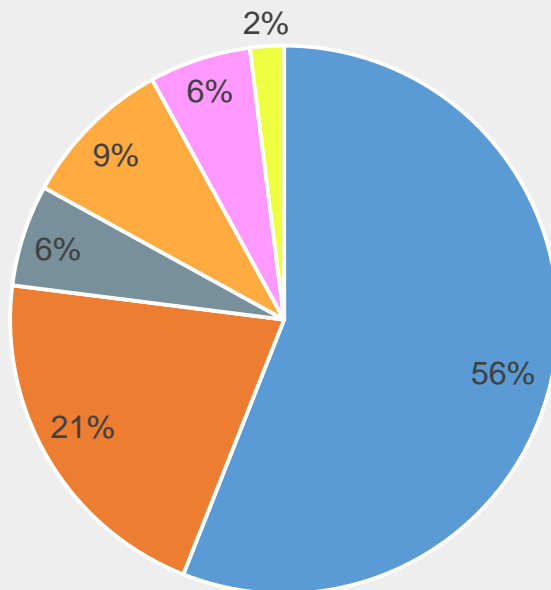
(4162 TT)
PharmaEngine
(18.01%)

ATB Thailand
(40%)

*Note: TTY will hold 67% according to JV agreement.

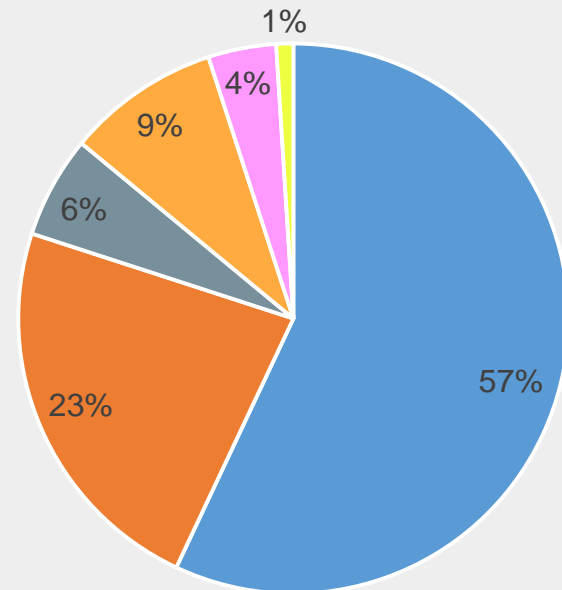
Revenue Breakdown

sales breakdown 1H/22
























■ Oncology ■ Infection ■ Healthcare ■ CDMO ■ BDD ■ Others

sales breakdown 1H/21



■ Oncology ■ Infection ■ Healthcare ■ CDMO ■ BDD ■ Others

Major Products (1)

	Oncology (TOT)	Intensive Care (TIT)	Health Care (THT)		
Solid Tumor (Cancer)	<p>Anazo (安納柔膜衣錠)</p> 	<p>Epicin (益彼欣注射液)</p> 	<p>Folina (芙琳亞錠)</p> 	<p>Gemis (健仕注射液)</p> 	<p>Irino (益立諾)</p> 
	<p>Lipo-Dox (力得微脂體 注射劑)</p> 	<p>Lonsurf (朗斯弗膜衣錠)</p> 	<p>Oxalip (歐力普注射劑)</p> 	<p>Pemazyre (達伯坦錠)</p> 	<p>Pexeda Inj. (派癌休注射劑)</p> 
	<p>TS-1 (愛斯萬膠囊)</p> 	<p>Tynen (汰能注射劑)</p> 	<p>UFUR (友復膠囊)</p> 		
Hematology	<p>Asadin (伸定注射劑)</p> 	<p>Ivic (癌微可膜衣錠)</p> 	<p>Leavdo (瑞伏駭膠囊)</p> 	<p>Thado (賽得膠囊)</p> 	
Supportive Care	<p>Megest (麥格斯口服 懸液劑)</p> 	<p>Otril (嘔速停靜脈 注射劑)</p> 	<p>Painkyl (平舒疼口頰溶片)</p> 	<p>Zobonic (抑骨凍晶靜脈 注射劑)</p> 	

* Listed alphabetically.

Major Products (2)

Oncology (TOT)

Brosym C+S
(博益欣)



Flusine
(弗路欣錠)



Oncology (TOT)

Alginos
(胃逆舒)



Algitab
(艾胃逆服)



BIO-CAL PLUS
(滋骨咀嚼錠)



Intensive Care (TIT)

Cepiro
(希比洛靜脈乾粉
注射劑)



Lipo-AB
(立博微)



Colimycin
(克痢黴素注射劑)



Maxtam
(抑西每靈注射劑)



Health Care (THT)

Cubicin
(救必辛注射劑)



METACIN
(西腹黴素注射劑)



Flucelvax
(輔流威適流感疫苗)



Health Care (THT)

Walking Device



Rehabilitation Device



* Listed alphabetically.

Agenda

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Summary

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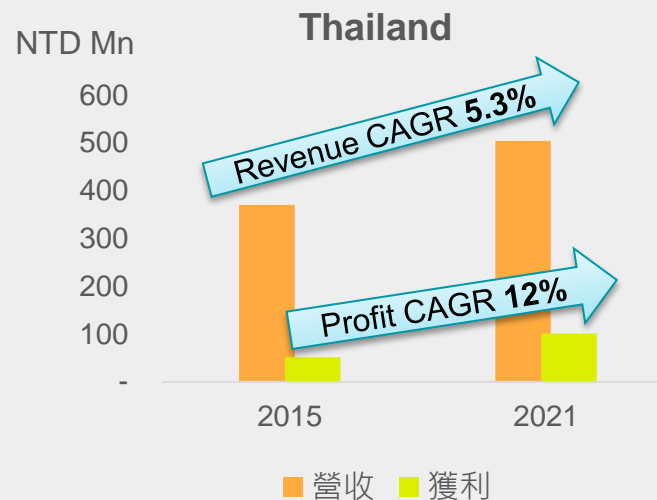
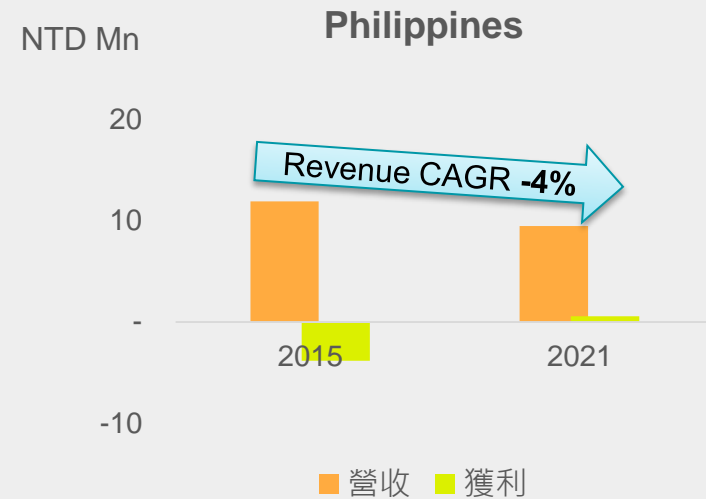
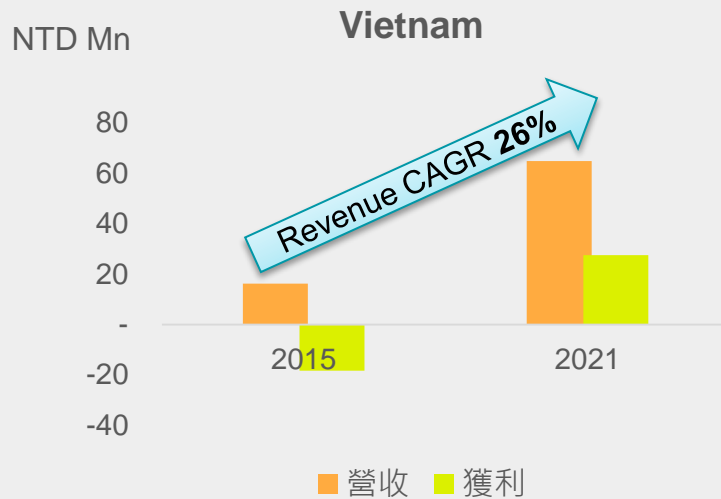
Company Overview

- Branch Office/ Affiliate Company (分/子公司)
- In-Licensing Partner (合作夥伴)
- Out-licensing/ Agent/ CMO (經銷/代理/代工)



Overseas Market Revenue & Profit

Vietnam & Philippines turned into profit since 2018.



Transform of success from Southeast Asia to overseas markets as growth driver.

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New Drugs / Difficult Generic Drugs Development

Product	Type	Indication	Market Value (USD Mn)	Original Pharma	Patent Expired	Expected to Market
Pegylipo (EU)	liposome	Ovarian Cancer	600	JJ	2016	2024
*Lipo-AB		Fungal Infection	440	Gilead (liposome type)	2008	2022
Enx-200		MS Acute	1,700 (similar BBB diseases)			2028
*Octreotide	microsphere	Acromegaly	1,630	Novartis	2017	2024

*Lipo-AB BE data results are positive.

*Completion of pilot clinical trials.

Risperidone	microsphere	Mental Disorder	960	JJ (non microsphere)	2020	
Leuprolide		Prostate Cancer	1,240	TAP/ Abott & Takeda	2008	

Liposome & Microspheres as Technology Platform

TTY Development Products

TTY Development

Product	Type	Indication	Approval expected time
*Arsenic Trioxide	Generic	Acute Promyelocytic Leukemia, APL	USA 2021
Zoledronic Acid 5mg/6.25ml	New Unit New Drug	Osteoporosis (Paget's disease of bone)	Taiwan 2022
TTY_2	Generic	Multiple Myeloma, MM	Taiwan 2023 Thailand 2024 Malaysia 2025
TTY_3	New Dosage Form	Infection caused by Gram-negative bacteria	Taiwan 2026
TTY_4	Generic	CML Blood Cancer	Taiwan 2024
TTY_6	Generic	Limited to serious infections of Gram- negative bacteria that are ineffective against general antibiotics and have multi-drug resistance	Taiwan 2023

Approval in
April, 2022

*Arsenic Trioxide received FDA approval in October, 2021.

Overseas markets penetration & pipeline development as the
Dual Growth Engine.

License-in Products

License-in

Product	Indication	Partner	Expected to Market
Trabectedin (Yondelis)	Soft Tissue Sarcoma	Spain Co.	2020.9
Pemazyre	Metastatic Cholangiocarcinoma	US Co.	2021
Remimazolam	Check Sedation General Anesthesia	Paion AG	Check Sedation 2022 General Anesthesia 2023
Influenza Vaccine	Flu Prevention for Infants from 6M to 3Y	Seqirus Inc.	2H/2022
Quadrivalent Adjuvanted Influenza Vaccine	Flu	Seqirus Inc.	2023
TTY_Y	Chicken Pox Prevention	Japan Co.	Q1/2024
TTY_Z	Multiple Myeloma	Taiwan Co.	2024
TTY_X	(cIAI) complicated Intra-Abdominal Infection	Singapore Subsidiary	2024

Obtained on April 23, 2021

Overseas markets penetration & pipeline development as the Dual Growth Engine.



Agenda

Company Overview

Market Deployment

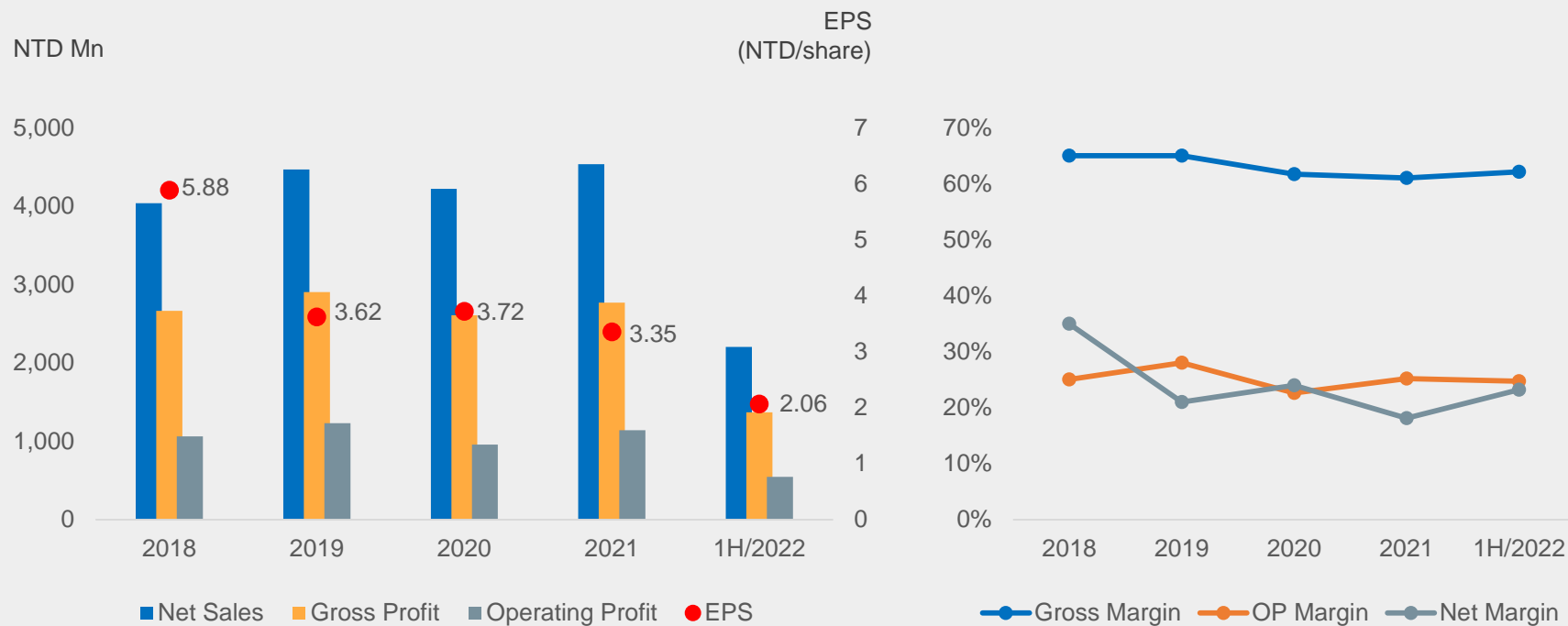
Pipeline Status

Financials & ESG Performance

Summary

Q&A

Financial Performance (Consolidated)



1H/2022 Financials

NTD in Mn

Item	1H/2022		1H/2021		Variance	YoY
	Amount	%	Amount	%		
Net Sales	2,203	100%	2,007	100%	196	10%
Gross Profit	1,367	62%	1,257	63%	110	9%
Operating Expenses	823	37%	766	39%	57	7%
Operating Profit	544	25%	491	24%	53	11%
Non-Operating Income (Loss)	94	4%	(144)	-7%	238	-166%
Income before Tax	638	29%	348	17%	290	83%
Net Income (Consolidated)	511	23%	231	11%	280	121%
Net Income (TTY)	512	23%	235	11%	277	118%
EPS (NT)	2.06		0.95		1.11	117%
Gross Margin	62.1%		62.6%		-0.5 ppt	
Operating Margin	24.7%		24.5%		0.2 ppts	
Net Margin	23.2%		11.5%		11.7 ppts	

Solid Balance Sheet / Stable Cash flow

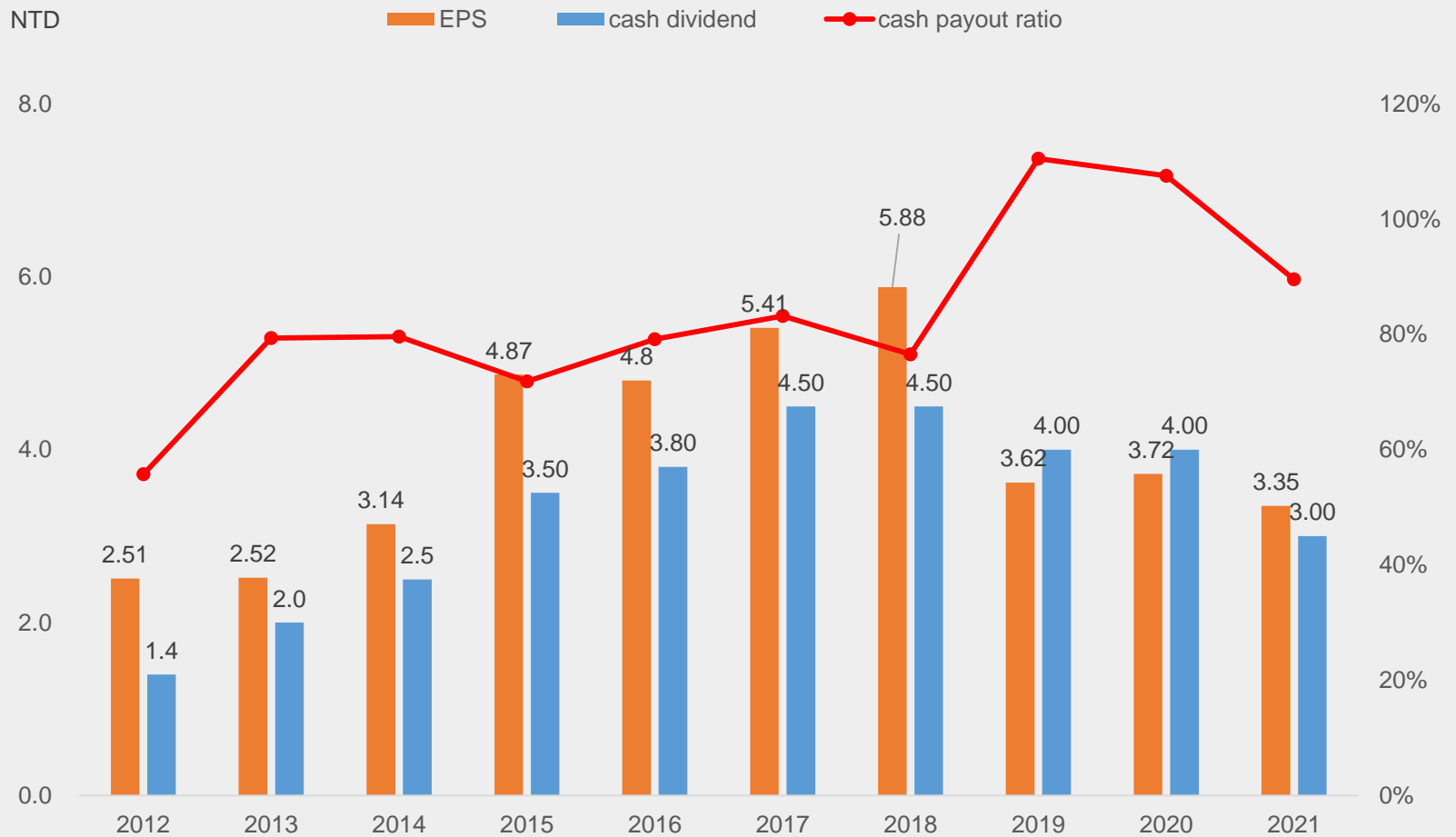
Balance Sheet

NTD Mn	2Q/2022	2Q/2021
Total Debt	1,750	1,885
Net Debt	(916)	(894)
Net Debt/Equity	-18%	-16%
Current Ratio	146%	207%
Book value/share(NT\$)	20.2	22.6

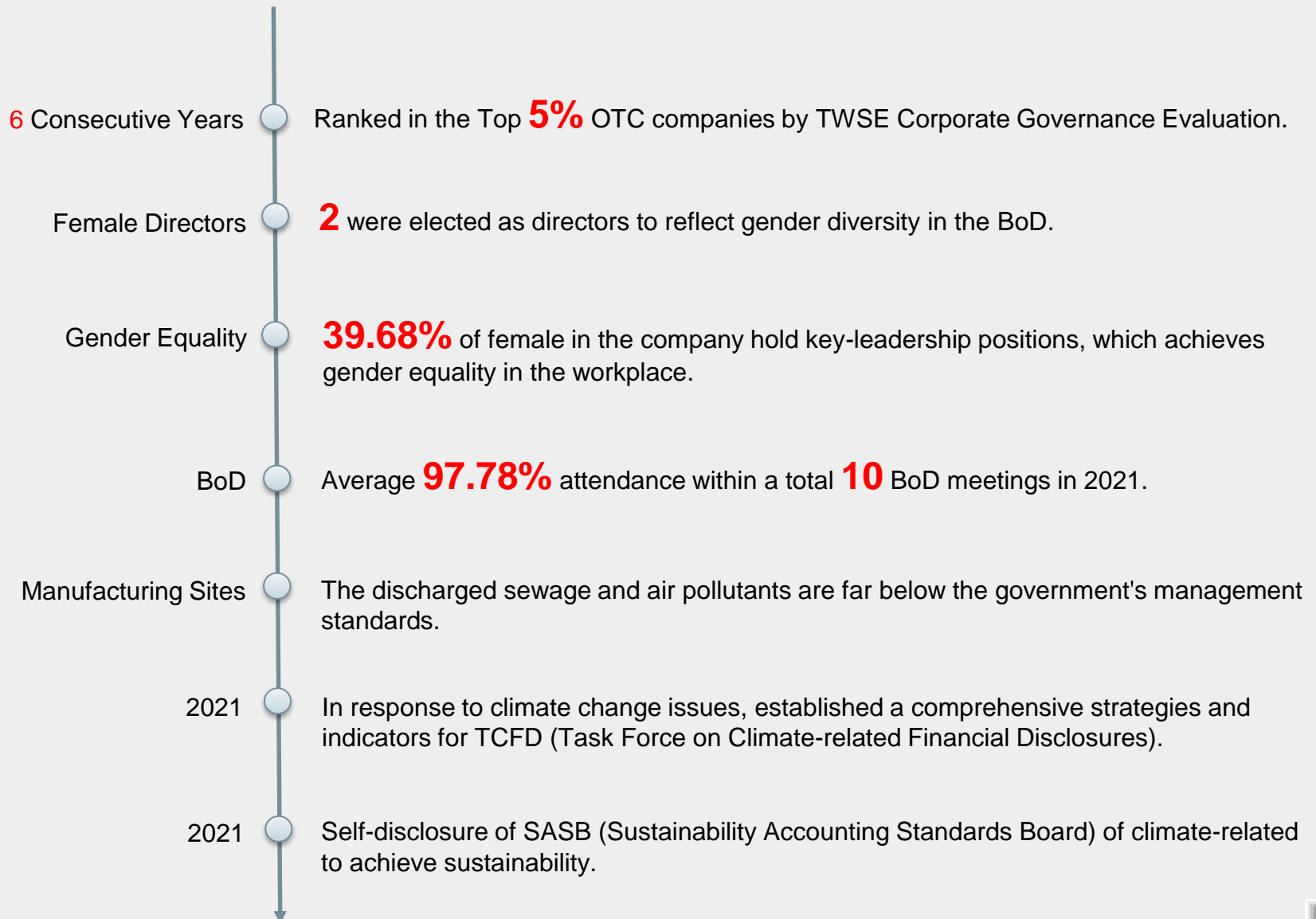
Cash Flow

NTD Mn	1H/2022	1H/2021
from Operating	462	599
from Investing	(23)	(42)
from Financing	(377)	(257)
FX Impact	93	(31)
Net Cash Flow	155	269
Beginning Balance	2,222	2,224
Ending Balance	2,377	2,493

Dividend Payout



ESG Focus



Agenda

Company Overview

Market Deployment

Pipeline Status

Financials & ESG Performance

Summary

Q&A

Product Pipeline

- Expand the coverage of flu influenza recipients to increase market share.
- Lipo-AB (North America) / Pegylipo (Europe) and Octreotide (North America) markets are in progress continuously.
- Continue to cover the unmet medical needs through self-developed and license-in products.

Dividend Policy

- Cash dividend distribution may change by a special resolution of the BoD.
- Maintain cash payout rate above 75%.

2022 Business Outlook

- Revenue of domestic sales is expected to increase 5%-10% annually.
- Strengthen the OEM or distribution business of various vaccines.
- Expected milestone income from global partners.
- Strengthen R&D capabilities and introduce new products through license-in actively.

