

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

March, 2021

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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Agenda

Company Overview

Market Deployment

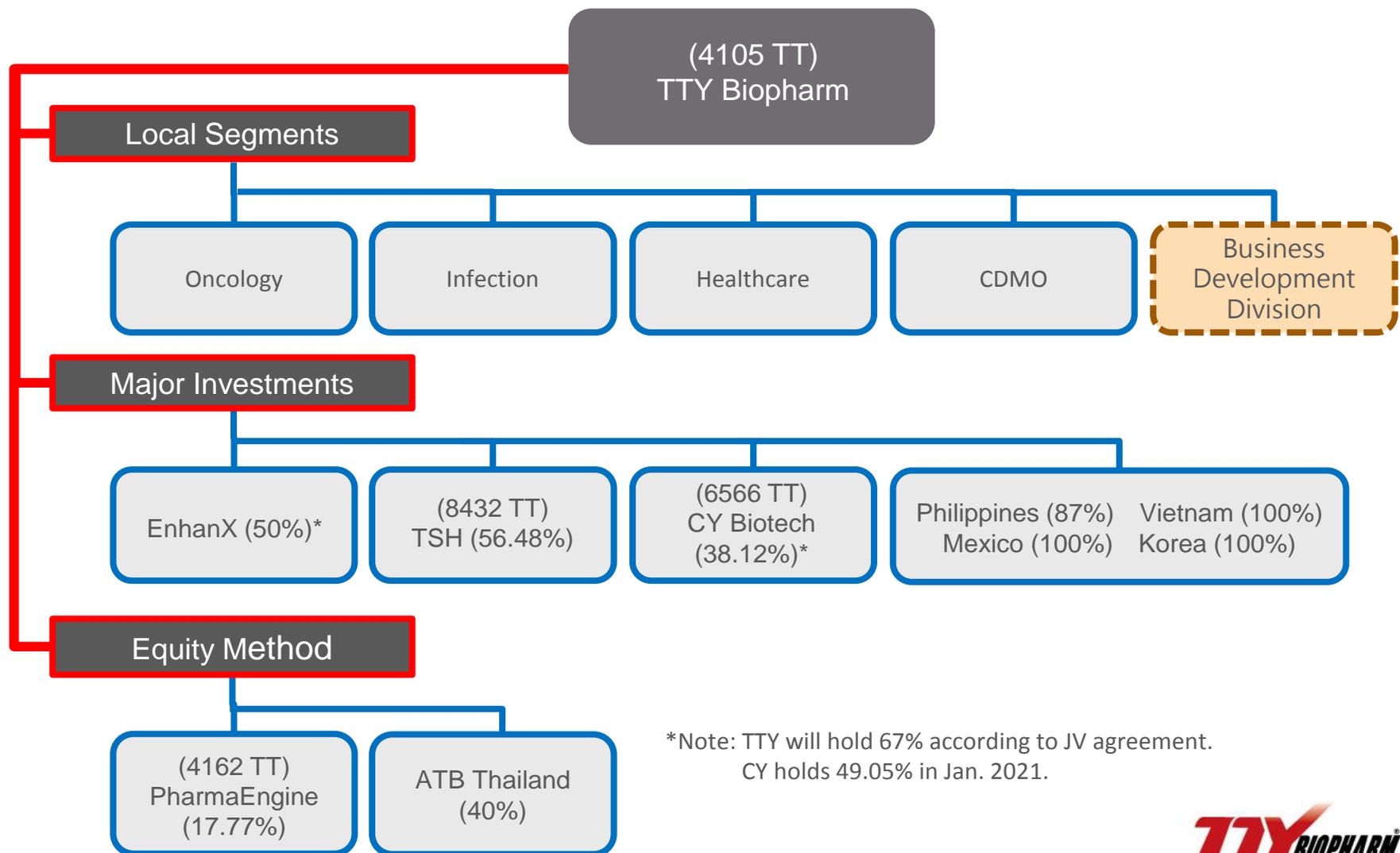
Pipeline Status

Financials & ESG Performance

Summary

Q&A

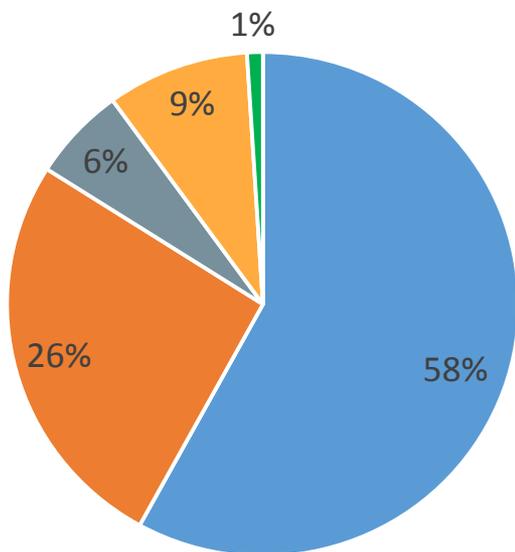
Structure



*Note: TTY will hold 67% according to JV agreement.
CY holds 49.05% in Jan. 2021.

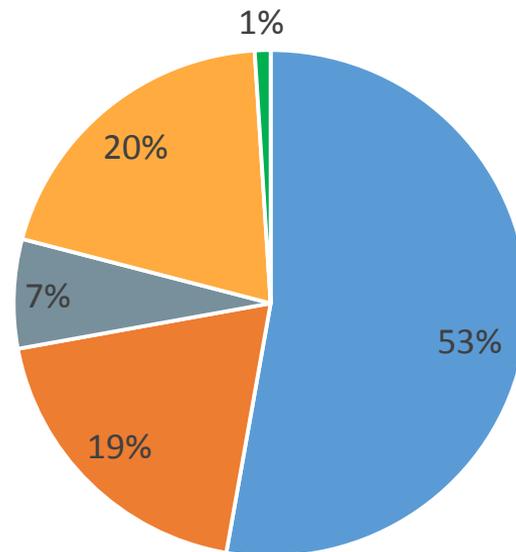
Revenue Breakdown

Sales breakdown year 2020



■ Oncology ■ Infection ■ Healthcare ■ CDMO ■ others

Sales breakdown year 2019



■ Oncology ■ Infection ■ Healthcare ■ CDMO ■ others

Major Products (1)

Oncology (TOT)

Intensive Care (TIT)

Health Care (THT)

Solid Tumor (Cancer)

Lipo-Dox
(力得微脂體
注射劑)



Oxalip
(歐力普注射劑)



Lonsurf
(朗斯弗膜衣錠)



Irino
(益立諾)



UFUR
(友復膠囊)



Epicin
(益彼欣注射劑)



TS-1
(愛斯萬膠囊)



Tynen
(汰能注射劑)



Pexeda Inj.
(派癌休注射劑)



Anazo
(安納柔膜衣錠)



Gemmis
(健仕注射液)



Folina
(芙琳亞錠)



Hematology

Thado
(賽得膠囊)



Ivic
(癌微可膜衣錠)



Asadin
(伸定注射劑)



Leavdo
(瑞伏駭膠囊)



Supportive Care

Painkyl
(平舒疼口頰
溶片)



Megest
(麥格斯口服
懸液劑)



Otril
(嘔速停靜脈
注射劑)



Zobonic
(抑骨凍晶靜脈
注射劑)



Major Products (2)

Oncology (TOT)

Brosym C+S
(博益欣)



Flusine
(弗路欣錠)



Intensive Care (TIT)

Cepiro
(希比洛靜脈乾粉注射劑)



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)



Oncology (TOT)

Alginos
(胃逆舒)



Intensive Care (TIT)

Algitab
(艾胃逆服)



BIO-CAL PLUS
(滋骨咀嚼錠)



Health Care (THT)

Sulfin
(速復利錠)



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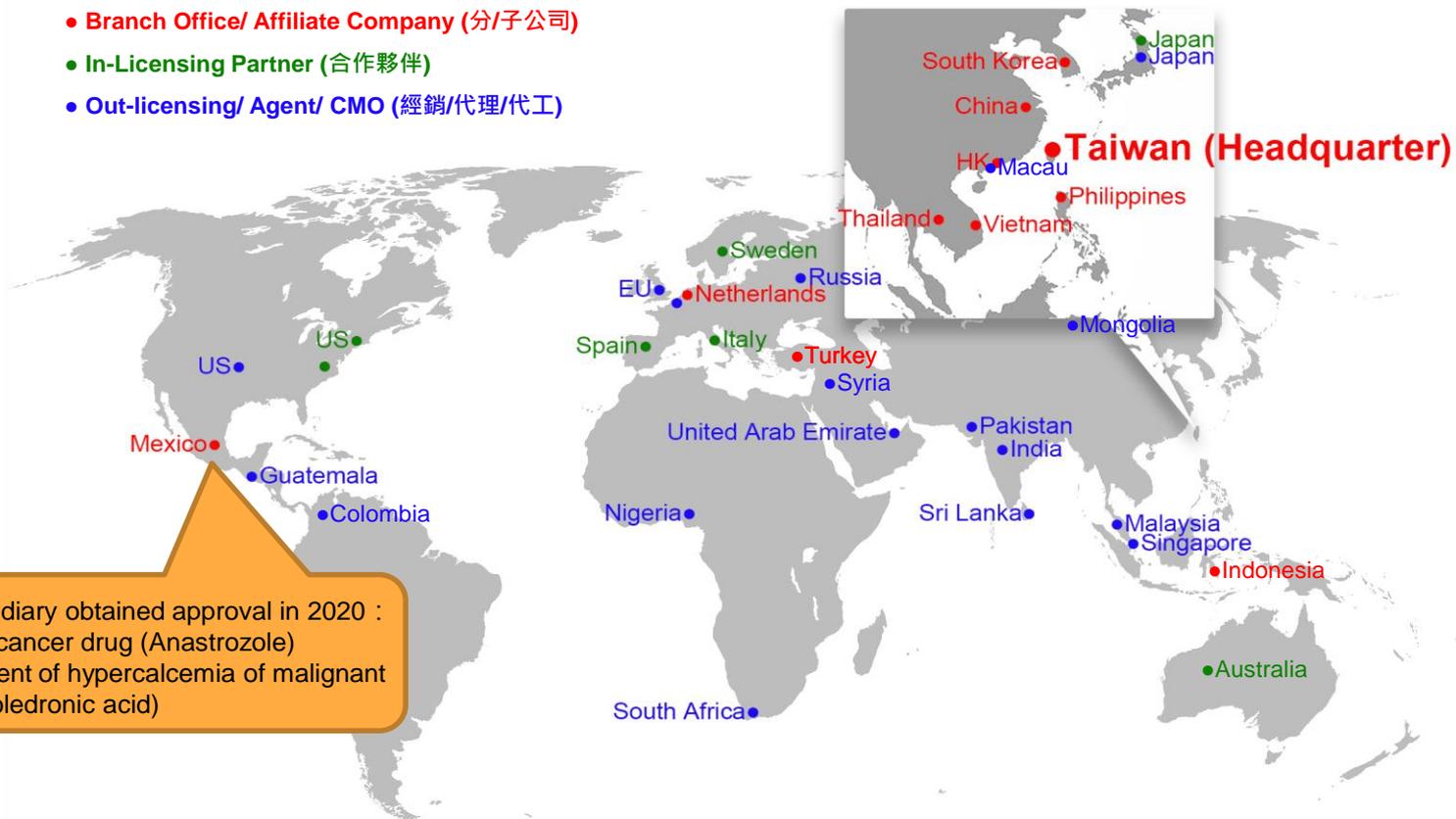
Financials & ESG Performance

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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)



Mexico Subsidiary obtained approval in 2020 :
7.24- Breast cancer drug (Anastrozole)
12.4- Treatment of hypercalcemia of malignant neoplasia (Zoledronic acid)

- Founded in 1960, restructured in 1996
- Traded in the Taiwan TPEX (2001, Code: 4105)
- Shares outstanding: 248.65 Million Shares

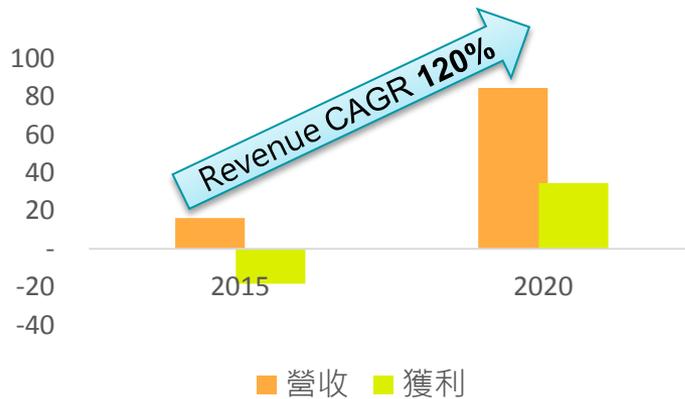
- TTY Biopharm consolidated sales as of
2020- NTD 4.22B (USD 148M)
2019- NTD 4.47B (USD 148M)
Headquarter: Taipei, Taiwan
Number of employees: 538

Overseas Market Revenue & Profit

Vietnam & Philippines turned into profit since 2018.

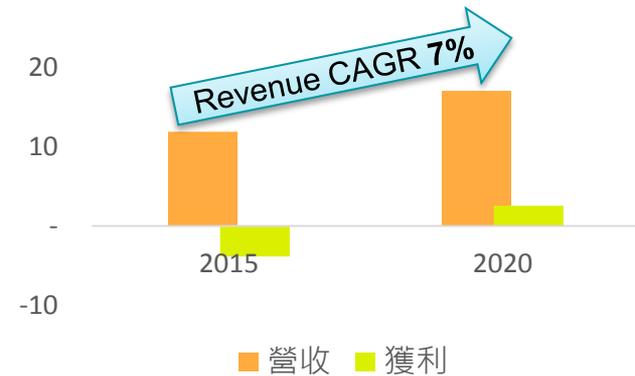
NTD Mn

Vietnam



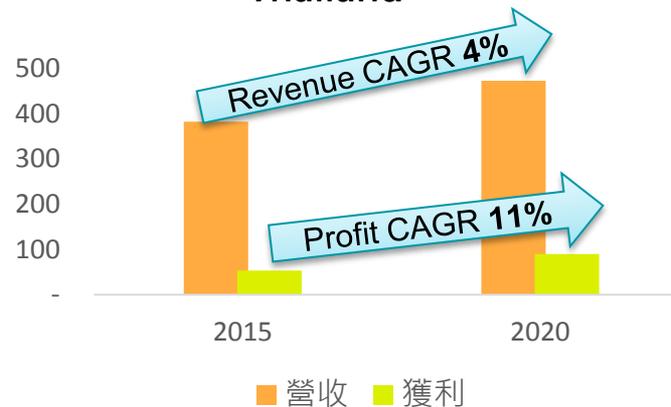
NTD Mn

Philippines



NTD Mn

Thailand



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

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Specialty Development / New drugs, Difficult Generic drugs

Product	type	indication	market value (USD Mn)	Original Pharma	Patent Expire	Expected to market
Pegylipo (EU)	liposome	Ovarian Cancer	600	JJ	2016	2023
Lipo AB		Fungal Infection	440	Gilead (liposome type)	2008	1H/2022
Enx-201		MS Acute	1,700 (similar BBB diseases)			2026
Octreotide	microsphere	Acromegaly	1,630	Novartis	2017	2024

Risperidone	microsphere	Mental Disorder	960	JJ (non microsphere)	2020	
Leuprolide	microsphere	Prostate Cancer	1,240	TAP/ Abott & Takeda	2008	
LGIA 10	microsphere	Diabetes	910			

**Liposome & Microspheres
as Technology Platform**

TTY Development & License-in Products

TTY Development

Product	Type	Indication	Approval expected time
TTY_1	Generic	Acute Promyelocytic Leukemia, APL	USA 2021
TTY_2	Generic	Multiple Myeloma, MM	Taiwan 2022-2023 Thailand 2023-2024 Malaysia 2024-2025
TTY_3	New dosage form	Infection caused by Gram-negative bacteria	Taiwan 2022

License-in

Product	Indication	Partner	Expected to Market
Trabectedin (Yondelis)	Soft Tissue Sarcoma	Spain Co.	2020.9
Remimazolam	Check Sedation General Anesthesia ICU Sedation	Paion AG	2022
TTY_W	Onychomycosis	Japan Co.	Q3/2021
TTY_Y	Chicken Pox Prevention	Japan Co.	2022
TTY_Z	Multiple Myeloma	Taiwan Co.	2022

Signed contract on 2021.3.5

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

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Development Strategy- Growth Momentum



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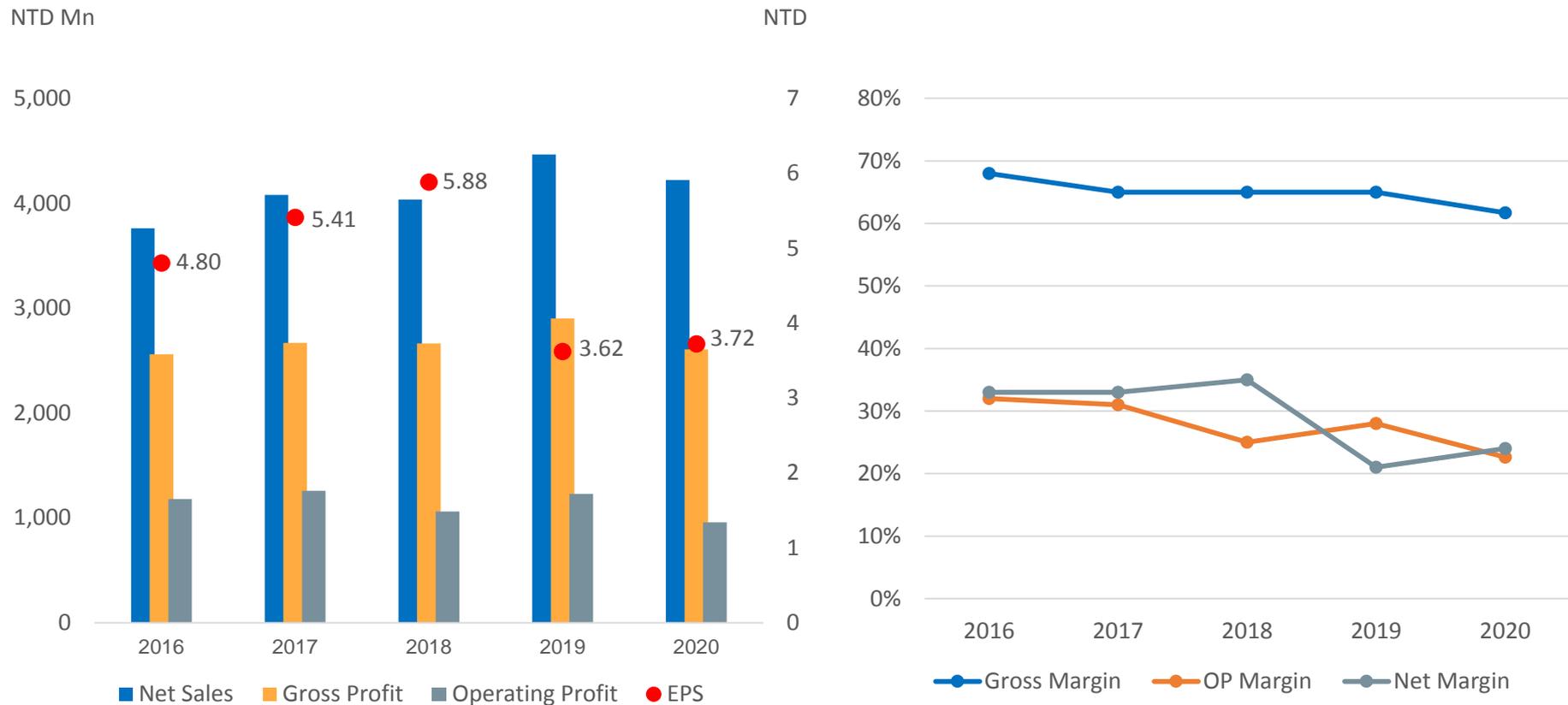
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Financial Performance (Consolidated)



2020 Financials

NTD in Mn

Item	2020		2019		Variance	YoY
	Amount	%	Amount	%		
Net Sales	4,221	100%	4,466	100%	(245)	-5.5%
Gross Profit	2,607	62%	2,902	65%	(295)	-10%
Operating Expenses	(1,650)	39%	(1,674)	37%	(24)	-1.4%
Operating Profit	957	23%	1,229	28%	(272)	-22%
Non-Operating Income (Loss)	244	6%	(26)	-0%	270	
Income before Tax	1,202	29%	1,203	28%	(1)	-0.1%
Net Income (Consolidated)	979	24%	908	21%	71	7.8%
Net Income (TTY)	924	23%	900	21%	24	2.7%
EPS (NT)	3.72		3.62		0.10	2.8%
Gross Margin	61.7%		65.0%		-3.3%	
Operating Margin	22.6%		27.5%		-4.9%	
Net Margin	23.2%		20.3%		2.9%	

Solid Balance Sheet and Stable Cash flow

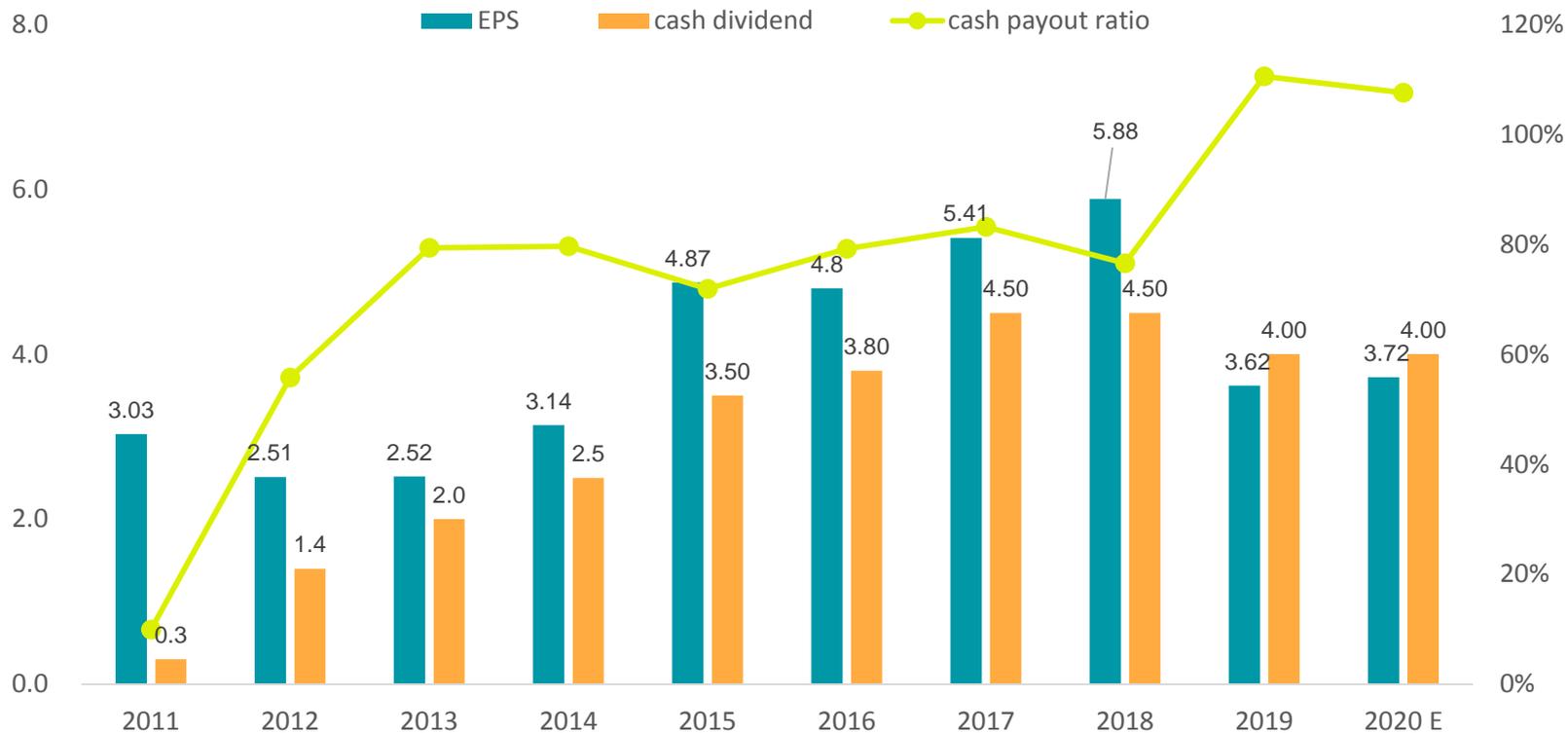
Balance Sheet

NTD Mn	4Q 2020	3Q 2020	4Q 2019
Total Debt	2,144	2,500	1,933
Net Debt	(360)	(107)	(821)
Net Debt/Equity	-7%	-2%	-15%
Current Ratio	188%	173%	164%
Book value/share(NT\$)	21.9	20.8	22.4

Cash Flow

NTD Mn	2020	2019
from Operating	526	1,210
from Investing	147	(273)
from Financing	(806)	(849)
FX Impact	(65)	(38)
Net Cash Flow	(198)	50
Beginning Balance	2,422	2,372
Ending Balance	2,224	2,422

Dividend Payout



ESG Focus

- 4 Consecutive Years ● Ranked in the Top **5%** OTC companies by TWSE Corporate Governance Evaluation.
- BoD ● Average **100%** attendance within a total **7** BoD meetings in 2020.
- Training ● **10.44** hours of the average hours of board members.
- Female Directors ● **2** were elected as directors to reflect gender diversity in the BoD.
- Independent Directors ● **3** independent directors make up **33.33%** of the overall Board of Directors.
- 2020 ● Top **10%** of TPEX-listed and OTC companies in non-financial nor electronic stocks with a market value of more than NT\$10 billion.
- 2020 ● Risk management center under the Sustainability Committee established to implement corporate sustainability and respond to climate change.
- 2020 ● Award of Best Companies to Work for in Asia 2020 Taiwan Edition.



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Product Pipeline

- Lipo-AB and Pegylipo (Europe) are targeted to market in 2022 and 2023 respectively.
- Implement the launch market plan of Octreotide in USA signed agreement with the partner.
- Continue to develop and build overseas markets. Pegylipo (EU) project signed agreement with partner already.
- Expand the revenue scale through license-in (Signed the contract with Paion AG) and self-developed products.

Dividend Policy

- Maintain cash payout rate above 75%.

2021 Business Outlook

- Revenue of domestic sales is expected to increase 5%-10% annually.
- Expand the scale of (public expense + self-pay) flu vaccine.
- Expected milestone income from global partners.
- Strengthen R&D capabilities and introduce new products through license-in actively.



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in this big family



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