Cost and Benefit Analysis



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Item Identification

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- Benefit Item
- Estimated Income Statement

Estimation Process

- Cost & Revenue Estimation Logic





Cost item

Purchase

M & O

Others

Cost item

Purchase

(per year)

Why 8?

- Quarter subscription fee
- Eight delivery per year



Lip product (lip product unit price * User * 8)

Average prices from our investigate in Olive Young, Hwahae, Zamface = $\mbox{$\scrthboldsymb$

Cost item

Purchase

(per year)



Package material (Package unit price * User * 8)

* Package unit price = ₩ 217

1

Item Identification

Cost item

M & O

(per year)



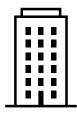


```
Data (Tip of personal color expert + provider )
=(10,000 + 10,000) * 10,000
= 200,000,000
```

Cost item

M & O

(per year)



Facility (Deposit 25,000,000, Monthly rent 2,280,000)

* Gangnam-gu, Seoul





Delivery charge (2,500 * User * 8)

Cost item

M & O

(per year)



Developer 4 person



Manager 2 person



Salaries (70,000,000 * 6 person) = 360,000,000

Marketing Cost (Total of commission from vendor * 0.15)

Cost item

<u>가격 계산기 | Microsoft Azure</u>

M & O

(per year)

SW Operating (Virtual machine, Database, App service, Git)

Virtual Machine	219,693
Azure SQL Database	537,059
App Service	78,837
Git	166,608
Total(Month)	1,002,197



Total (year): 12,026,364

Cost item

Others

(per year)

*Woori Bank: 3.41%

Interest (Debt * Debt interest rate)

Internet, Electricity = 200,000 + 300,000 = 500,000

Tax (Taxible income * Progressive tax rate)

(* Taxible income = GI – OE – D)

Benefit Item

Vendor Commission

Subscription Fee

Benefit Item

Vendor Commission

(per year)



Subscription Fee - Delivery Fee - Packaging - Purchasing product

Benefit Item

Vendor Commission

(per year)



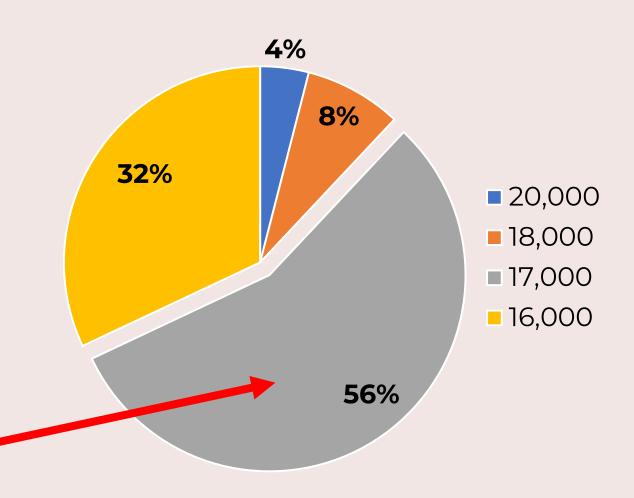
Cosmetics price from vendor	₩ 50,000
Delivery cost (twice in a quarter)	₩ (2,500 * 8) = 10,000
Package cost	₩ (217 * 8) = 1,736
Subscription fee per quarter	₩ 17,000
Subscription fee per year	₩ (17,000 * 4) = 68,000
Cosub profit	₩ 6,284 = (68,000 - 50,000 - 10,000 - 1,746)
Cosub profit ratio	6,264 / 68,000 = 9.21%

Benefit Item

< Subscription Fee >

* CVM (Contingent Valuation Method)

Q, AI 기술로 퍼스널 컬러를 진단 받고, 이를 바탕으로 추천 받은 립 제품들을 체험해볼 수 있는 화장품 구독 서비스가 출시되었습니다. 45일에 1개의 립 제품을 제공해, 1회 구독 시 90일 동안 2개의 립 제품을 제공해드립니다. 해당 서비스를 위해 얼마의 구독료를 지불하고 싶나요?



₩17,000

Benefit Item

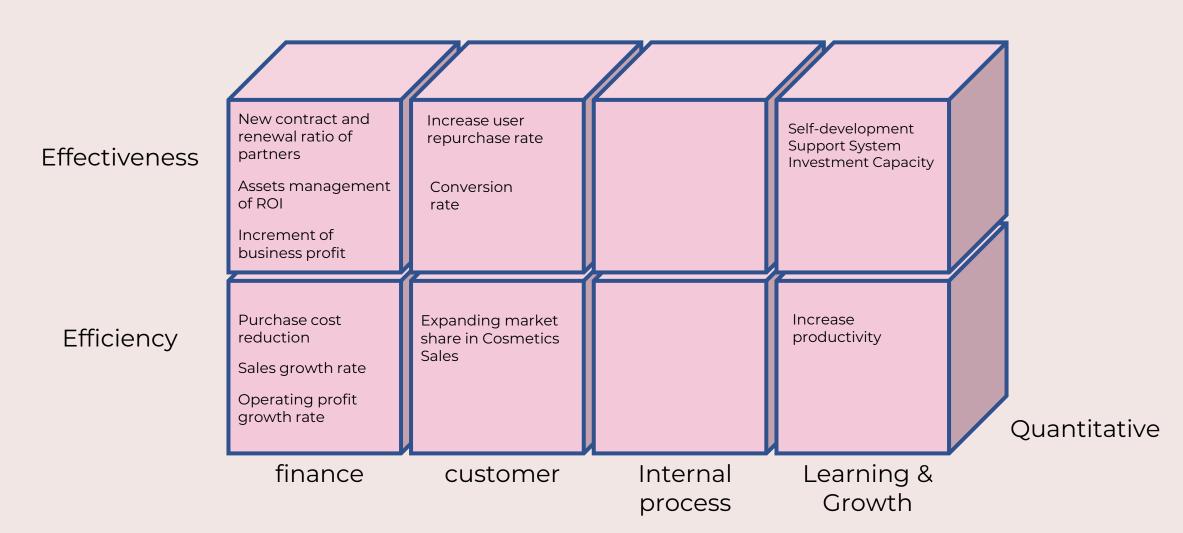
Subscription Fee

(per year)

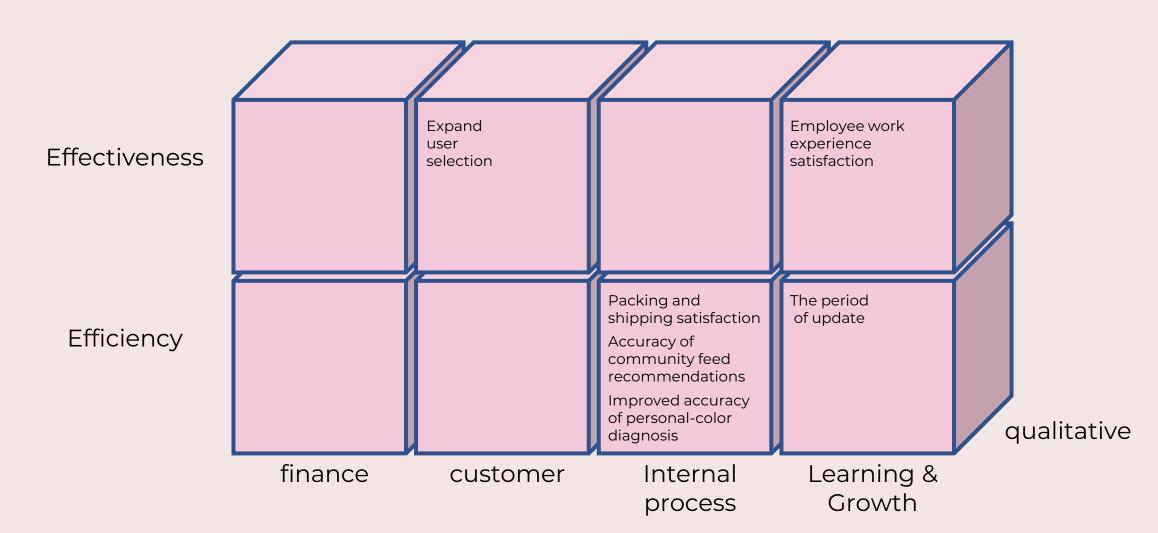


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1 User = (Quarterly charge) * (12 month / quarter) = 17,000 (Won) * 4 = 68,000 (Won)
```

IT Performance Framework



IT Performance Framework



Estimated Income Statement

► First cost ◀

iMac	34,680,000
Nas Storage	13,100,000
Internet Registering	200,000
Data	200,000,000

Total: 247,980,000

Estimated Income Statement

▶ Depreciation item **◄**

iMac	34,680,000
Nas Storage	13,100,000

Using Straight Line function Period: 10 year

Estimated Income Statement

▶ Debt ◀

First cost	247,980,000
Rate	3.41%
Year	10 year
Repayment period	1 year

Estimated Income Statement

- ▶ Growth rate Subscribers ◀
- ▶ Why the number of subscribers is **629,191** in year 6?
- N = Percentage of people who have Not received personal color diagnostic experience
- F = Percentage of people who have Failed to experience buy cosmetic in online shop
- A = Number of downloads of Amore Pacific application in 2021

$$N \times F \times A = 629,191$$

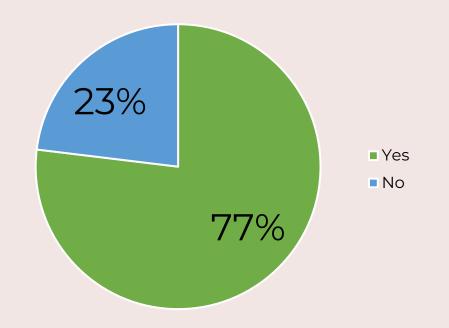
- ► Why did we refer to **AmorePacific**'s number of downloads?
- : AmorePacific is the company that has the largest share of the cosmetics market
- Except for six years, the number of subscribers in other years reflected **Cosub's growth rate**.

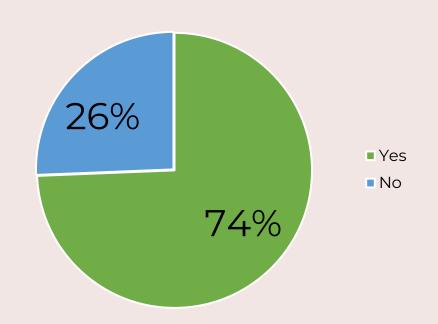
N

Q1. 퍼스널 컬러를 진단 받아본 경험이 있나요?



Q2. 온라인에서 색조 화장품을 구매했을때, 예상과 다른 색상을 구입한 적이 있으신가요? (ex: 예상한 것보다 채도가 더 낮았던 경험, 사진으로 본 것보다 매 트한 촉감이었던 경험, 기대한 것 이상으로 밝은 색이었던 경험 등)





- ► Growth rate affiliated cosmetics company ◀
- ► Number of **affiliated cosmetics company** in Year 0 :500
- ► Why is the growth rate of cosmetics companies affiliated with C OSUB decreasing from the 6th year?
 - : Because it is close to **4,750**,
 - the largest number of cosmetics companies affiliated with COSUB.

- ► Why is the maximum number of affiliated cosmetics companies 4,750?
 - : The total number of brands in Olive Young is 4,750.

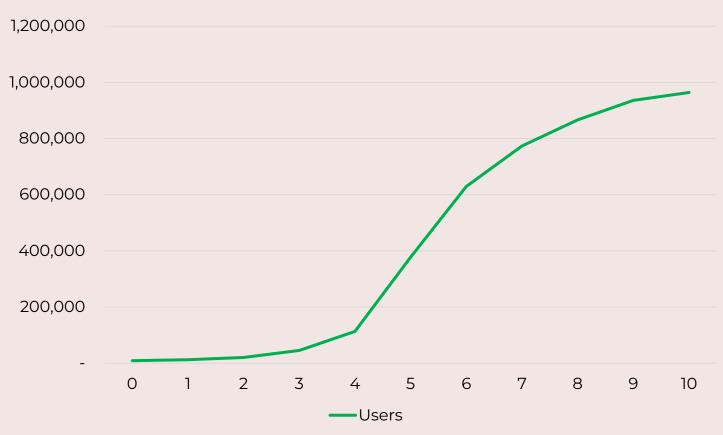
▶ Growth rate - affiliated cosmetics company <</p>

▶ Why is the number of brands of cosmetics in Olive Young based on?
: Because Olive Young is the company that occupies the largest share of the cosmetics brokerage industry.

► Except for 0 year, the number of affiliated cosmetics company in other years reflected **Cosub's growth rate**.

Estimated Income Statement





Estimated Income Statement

	Income Staten	nent			
	Cosub, Inc.				
	For the year ended December 31, 20XX				
Net Sales		1,386,233,611			
Cost of goods sold :					
	Software developing	12,026,364			
	Lip Products	1,019,289,420			
	Package Material	35,389,729			
	Delivery	407,715,768			
	Total cost of goods sold		1,474,421,281		
	Gross Profit	-	88,187,669		
Operating Revenue :					
	Commision from vendor	127,696,579			
Expense :					
	Interest	7,610,506			
	Salaries	360,000,000			
	Marketing	19,154,487			
	Facility	27,360,000			
	Internet, electricity bill	500,000			
	Depriciation	23,824,000			
	Total Expense		438,448,993		
Income before tax	-	398,940,084			
Income tax expense		-			
	Net income	-	398,940,084		

Estimated Income Statement

Income Statement

Cosub, Inc.

For the year ended December 31, 20XX

	ror the year chaca becc.		
Net Sales(구독료)		7,701,297,840	
Cost of goods sold :			
	Software developing	12,026,364	
	Lip Products	5,662,719,000	
	Package Material	196,609,604	
	Delivery	2,265,087,600	
	Total cost of goods sold		8,136,442,568
	Gross Profit	-	435,144,728
Operating Revenue :			
	Commision from vendor	709,425,436	
Expense :			
	Interest	5,919,283	
	Salaries	360,000,000	
	Marketing	106,413,815	
	Facility	27,360,000	
	Internet, electricity bill	500,000	
	Depriciation	17,868,000	
	Total Expense		518,061,098
Income before tax	-	243,780,389	
Income tax expense		-	
	Net income	-	243,780,389

Estimated Income Statement

Income Statement				
Cosub, Inc.				
For the year ended December 31, 20XX				
Net Sales(구독료)		42,784,988,000		
Cost of goods sold :				
	Software developing	12,026,364		
	Lip Products	31,459,550,000		
	Package Material	1,092,275,576		
	Delivery	12,583,820,000		
	Total cost of goods sold		45,147,671,940	
	Gross Profit	-	2,362,683,940	
Operating Revenue :				
	Commision from vendor	3,941,252,424		
Expense :				
	Interest	4,228,059		
	Salaries	360,000,000		
	Marketing	591,187,864		
	Facility	27,360,000		
	Internet, electricity bill	500,000		
	Depriciation	11,912,000		
	Total Expense		995,187,923	
Income before tax		583,380,561		
Income tax expense		57,146,856		
	Net income		526,233,705	

Estimated Income Statement

Income Statement

Cosub, Inc.

	For the year ended Dec	ember 31, 20XX	
Net Sales(구독료)		58,940,599,469	
Cost of goods sold :			
	Software developing	12,026,364	
	Lip Products	43,338,676,080	
	Package Material	1,504,718,833	
	Delivery	17,335,470,432	
	Total cost of goods sold		62,190,891,709
	Gross Profit	-	3,250,292,241
Operating Revenue :			
	Commision from vendor	5,429,469,339	
Expense :			
	Interest	2,536,835	
	Salaries	360,000,000	
	Marketing	814,420,401	
	Facility	27,360,000	
	Internet, electricity bill	500,000	
	Depriciation	5,956,000	
	Total Expense		1,210,773,236
Income before tax		968,403,862	
Income tax expense		96,244,786	
	Net income		872,159,076

Estimated Income Statement

Net income

Income tax expense

Year 10

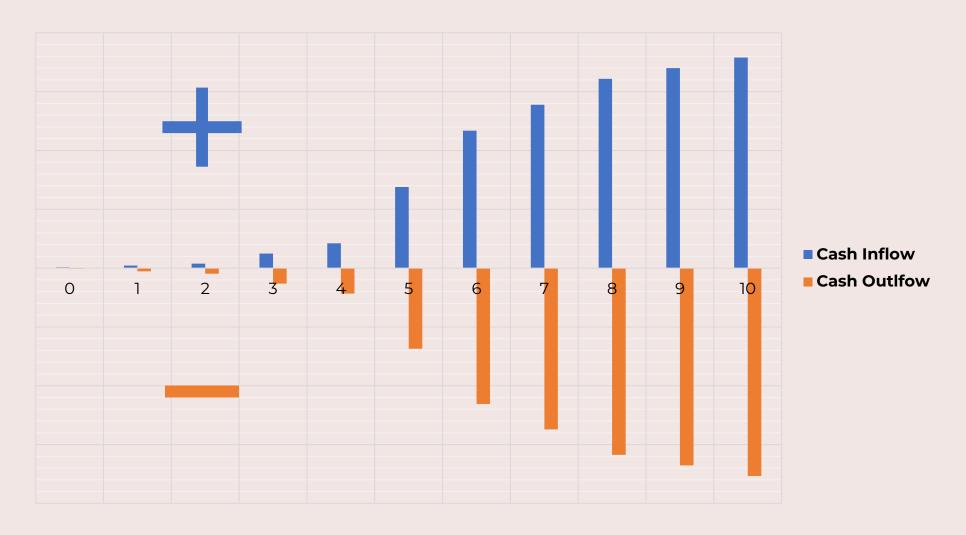
Cosub, Inc. For the year ended December 31, 20XX Net Sales(구독료) 65,565,522,849 Cost of goods sold: Software developing 12,026,364 Lip Products 48.209.943.271 Package Material 1,673,849,230 Delivery 19,283,977,309 Total cost of goods sold 69,179,796,174 **Gross Profit** 3.614.273.325 Operating Revenue: Commision from vendor 6,039,741,693 Expense: 845,612 Interest Salaries 360,000,000 Marketing 905,961,254 Facility 27,360,000 Internet, electricity bill 500,000 Depriciation **Total Expense** 1,294,666,866 Income before tax 1,130,801,502 176,160,300

954,641,202

Income Statement

3 Cash Flow

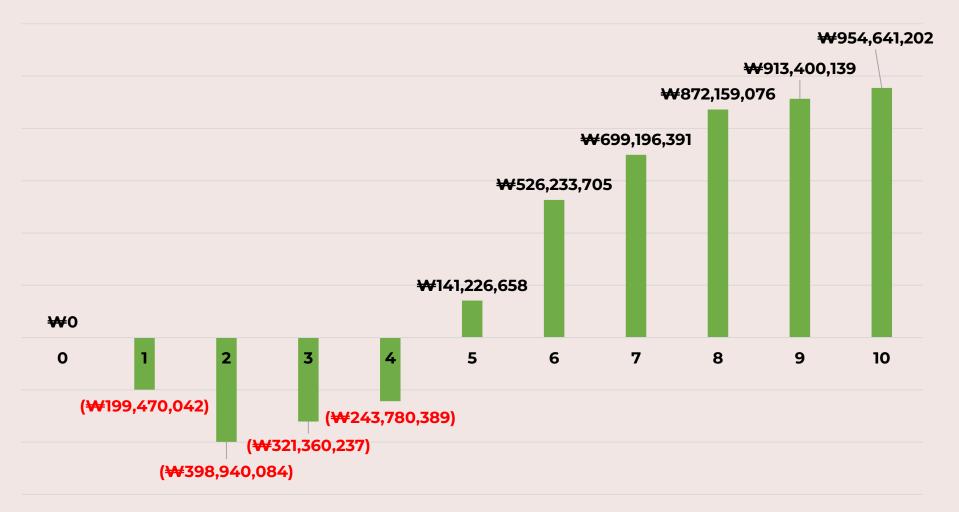
Cash In & Out Flow



3

Cash Flow

Net Cash Flow, NPV



NPV = ₩1,557,082,184

$$i = 3.41\%$$

 $f = 2.50\%$
 $i_f = 6.00\%$

3 Cash Flow

B/C Ratio, IRR

NPV (Net present value)	₩1,192,125,244	
First Cost	₩247,980,000	
B/C Ratio	NPV / first cost = 4.807	> 1
IRR	17 %	> 10%

Cosub has good profitability

It satisfied with our goal IRR

Thankyou

