

Investor analysis of companies

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Sustainable finance course

Instructor:



Book:

Journey on sustainable finance

- Why relevant? -> sustainability challenges of society
- What is it about? -> steering companies towards positive impact
- How to do it? -> tools for investors and lenders
- Real challenge -> from incremental change to transition thinking

DIRK SCHOENMAKER & WILLEM SCHRAMADE
PRINCIPLES OF
SUSTAINABLE
FINANCE

Agenda



Tools: equity (today) and debt (tomorrow) financing

Materials: book chapter 5 and 8 + Philips case

Method: case studies





- Business models, competitive positions and stakeholders
- Strategy and value driver approach
- In class, case-study on Israeli company (this afternoon)



Part 1: Business models, competitive positions, value drivers & stakeholders (Ch5)

Business models



Business models:

how do you make money?

Segments and businesses¹ (share of revenues)

Diagnosis & Treatment



Diagnostic Imaging

Ultrasound

Image-Guided Therapy

Connected Care & Health Informatics



Monitoring & Analytics

Therapeutic Care

Healthcare Informatics

Population Health Management

Personal Health



Health & Wellness

Sleep & Respiratory Care

Personal Care

Domestic Appliances

Philips' <u>customer value</u> <u>propositions</u> are that it:

- enables consumers to improve and monitor their personal health and sustain a healthy lifestyle; and
- provides healthcare professionals the tools to diagnose, monitor, and improve the health of patients.

Purpose



Purpose: why does the company exist?

Philips' stated mission:

"Improving people's lives through meaningful innovation".

Philips' vision:

"We strive to make the world healthier and more sustainable through innovation. Our goal is to improve the lives of 3 billion people a year by 2025. We improve the quality of people's lives through technology-enabled meaningful innovations - as co-creator and strategic partner for the Philips businesses and complementary open innovation ecosystem participants."

PURPOSE LED,
PERFORMANCE
DRIVEN.

CREATING

FOR ALL.

BRIGHTER LIVES

Competitive position



Philips' competitive position



Valuation



Discounted cash-flow model for company value:

$$V = \sum_{n=0}^{N} \frac{CF_n}{(1+r)^n}$$

- Cash flows driven by
 - Sales: revenues
 - > EBIT margin: income (profit) for financiers after deducting costs

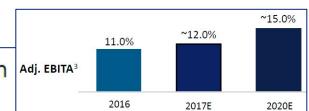
Discount rate driven by

Value drivers



Value drivers at Philips

Philips to reach EUR 20 billion¹ sales with significant return improvements



Focus on







2017-2020 annual targets

4-6% comparable sales growth rate

On average 100bps Adj. EBITA margin improvement annually

Free cash flow generation of ~EUR 1–1.5 billion annually

Organic plans ROIC improvement to mid-to-high-teens ROIC by 2020



Value drivers



Value driver summary (base

case)

, ase j	Philips
Sales growth	4%
EBIT margins	13%
Capital - WACC	8%

Trends

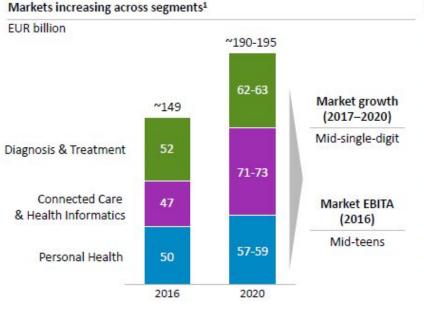


Trends

for

Philips

Our markets have sustained growth and attractive profit pools



Market trends

- Population growth, ageing and rise in chronic diseases
- · Consumerization and digitalization of healthcare
- · Shift to outcome focused, value-based healthcare
- Care shifting to ambulatory and home care settings with consumers increasingly engaged in their health
- Data enabled healthcare delivery with higher productivity
- Consolidation of hospitals into large health system delivery networks
- Convergence of professional healthcare and consumer health



Stakeholders



Philips' Stakeholder impact map

	Employees	Patients, doctors & hospitals	Governments
Short term goals	Good work-life balance and salaries	Best health outcomes, sometimes at any cost; but also within budget	Compliance, job preservation, tax income, healthcare costs
Long term goals	Personal development, professional pride & financial/job security	Best health outcomes at affordable prices; new solutions to problems that are currently not well treated	Strong healthcare outcomes at limited costs (both financial, and environmental and social)
How the company helps those goals	Pay and job fulfilment	Partnerships, better analysis results in better treatment	Improve efficiencies in the system
How the company hurts those goals	Sometimes demanding work environment; restructurings put people out of their jobs	Affordability is hurt slightly by the prices Philips charges, but they are limited versus the cost of hospitals and medicine	Jobs may be moved abroad

In class exercise – stakeholder map



Air France-KLM's stakeholder impact map

AIR FRANCE KLM

	Stakeholder 1	Stakeholder 2	Stakeholder 3	Stakeholder 4
Goals				
How the company helps or hurts those goals				



Part 2: Strategy, (again) value drivers & investment conclusions (Ch 5)

Materiality

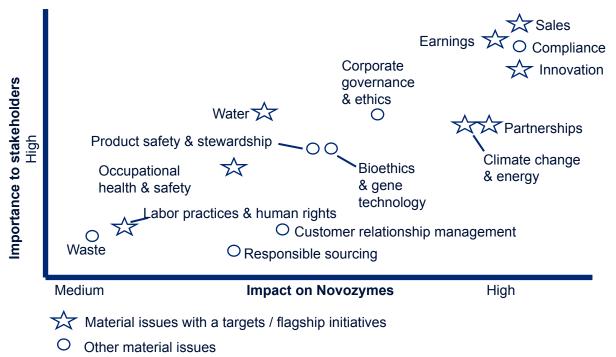




Materiality matrix







Typical material sustainability issues



Environmental Social

Governance Other

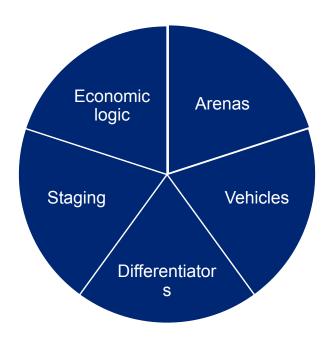
Strategy



Strategy

=The plan to achieve a desired future state

Five parts to a strategy (Hambrick & Fredrickson, 2001):



Strategy



Strategy @Philips

Focus on	Driven by	Resulting in	
Growth in core businesses	 Capture geographic growth opportunities Pivot to consultative customer partnerships and business models Drive innovative value-added, integrated solutions 	Revenue growth	
Growth in adjacencies	Portfolio extensions through M&A, organic investments and partnerships	Margin expansion Increased cash generation	Increased shareholder value
Customer and operational excellence	Continue to lead the digital transformation Improve customer experience, quality systems, operational excellence and productivity	Improved return on invested capital	

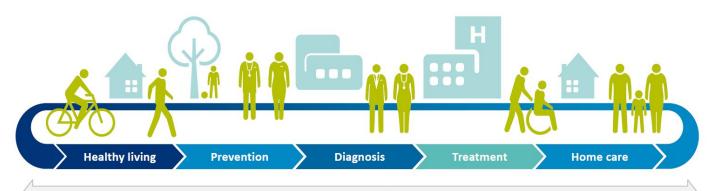
Strategy consistent with company purpose?



Strategy @Philips again

Health continuum drives our strategy

Driving better outcomes for people and higher productivity for care providers



Care pathways for Cardiology, Oncology, Respiratory, Pregnancy & Parenting, etc.

Personalization of care

Driving **convergence** of professional healthcare and consumer health

Industrialization of care

Enabling providers to deliver lowercost care and **better outcomes**

Inclusive care

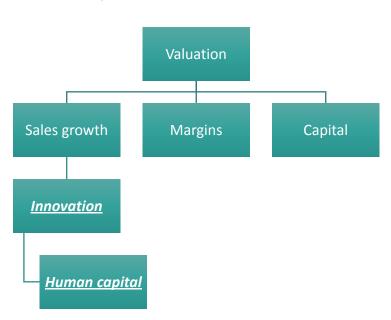
Increasing **access** to affordable care and making care more inclusive

Part 3: Strategy, (again) value drivers & investment conclusions

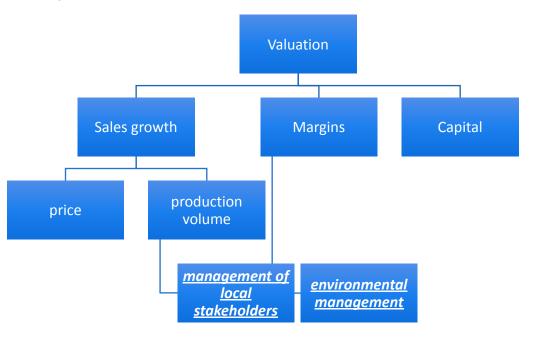


Value drivers

@Novozymes:



@Anglo American:



Value drivers – part 2



Value drivers & valuation @Philips

Value driver	Positive/ negative/ neutral	Explanation
Sales growth	Positive	Philips' strong focus on digital innovation puts the company ahead of the competition and could boost sales growth by another 100bps
Profitability	Positive	Innovation and circularity/energy savings could help drive Philips' margins up by as much as 200bps
Capital	Neutral	Balancing the various issues, we see no clear reason to apply a higher or lower discount rate to Philips

Value driver	Philips ex ESG advantage	Philips incl ESG advantage	Philips advantage
Sales growth	4%	5%	100bps
Margins	13%	15%	200bps
Cost of capital	8%	8%	0
DCF value	€39.3	€48.1	€8.8 (18% of value, i.e. 22% higher than without)

Investment conclusions



- What are your investment conclusions on Philips?
 - □ Buy
 - ☐ Sell, or
 - ☐ Hold
- Advise on engagement?

Value drivers & valuation



Value drivers & valuation @Philips

		Sales growth							
		3.0%	4.0%	5.0%	6.0%	7.0%			
	9.0%	25.7	27.6	29.6	31.9	34.3			
	11.0%	30.9	33.3	35.8	38.6	41.5			
EBIT	13.0%	36.1	38.9	42.0	45.2	48.8			
margin	15.0%	41.4	44.6	48.1	51.9	56.0			
	17.0%	46.6	50.3	54.3	58.6	63.3			
	19.0%	51.8	56.0	60.5	65.3	70.5			
	21.0%	57.1	61.7	66.6	72.0	77.8			

See Chapter 8 for doing DCF valuation (Section 8.1, Table 8.2) and how to adjust value drivers

Example Philips case study

9	WACC:	7.5%		CV growth:	2%	4									
	FY 2015	FY 2016	FY 2017			12/31/202	0 12/31/202	1 12/31/202	2 12/31/207	23 12/31/207	24 12/31/202	25 12/31/202	6 12/31/20	27 12/31/207	28 12/31/2029
Sales growth	-21.4%	3.7%	2.1%	2.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	2.0%
margin	9.8%	10.4%	10.6%	11.0%	12.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
tax rate	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Depreciation/sales	5.8%	5.6%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%
CAPEX/sales	2.6%	2.1%	2.4%	2.2%	2.4%	2.6%	2.8%	3.0%	3.2%	3.4%	3.6%	3.8%	4.0%	4.2%	5.8%
WC/sales	16.9%	17.8%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%	13.4%
Sales	16806	17422	17780	18136	19042	19994	20994	22044	23146	24303	25519	26795	28134	29541	30132
EBIT	1640	1804	1883	1995	2285	2999	3149	3307	3472	3646	3828	4019	4220	4431	4520
Taxes on EBIT	165	366	379	499	571	750	787	827	868	911	957	1,005	1,055	1,108	1,130
NOPLAT	494	1098	1138	1496	1714	2249	2362	2480	2604	2734	2871	3014	3165	3323	3390
Depreciation	972	976	1025	1046	1098	1153	1210	1271	1334	1401	1471	1545	1622	1703	1737
Gross CF	1466	2074	2163	2542	2812	3402	3572	3751	3938	4135	4342	4559	4787	5026	5127
CAPEX	432	360	420	399	457	520	588	661	741	826	919	1018	1125	1241	1737
increase in WC	-777	110	48	47	121	127	134	140	147	155	162	170	179	188	79
Gross investment	-345	470	468	446	578	647	721	802	888	981	1081	1189	1304	1429	1816
FCF	1811	1604	1695	2095	2233	2755	2851	2949	3050	3154	3261	3370	3483	3598	3311
			CV												60751
			period		1.87	2.88	3.88	4.88	5.88	6.88	7.88	8.88	9.88	10.88	10.88
			DF		0.874	0.813	0.757	0.704	0.656	0.610	0.568	0.528	0.492	0.458	0.458
			PV		1952	2241	2158	2077	2000	1924	1851	1781	1712	1646	27794
	Su		erprise value											CV/TV	57%
		Stake in Phi	ilips Lighting												
	9	Village or Alberta	Net debt		ē.										
			Equity value												
			outstanding												
	Fa		ck price euro												
			nt stock price												
			nplied upside	St. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10											
IC	22573	23382	17401	16802	16282	15777	15288	14818	14372		13562	13205	12888	12613	
ROIC	2.3%	4.8%	5.6%	8.7%	10.4%	14.0%	15.2%	16.5%	17.8%	19.3%	20.9%	22.5%	24.3%	26.1%	26.8%

Conclusions



- It is all related >> you need a holistic, integrated approach to assess the viability of a company's business!
- Value drivers is a simple method for fundamental analysis of a company
- What are your key takeaways?

Group case study



4 Groups: each group gets a company

- Questions on
 - Business model & competitive position
 - □ Value drivers part 1
 - ☐ Stakeholder map
 - □ Sustainability
 - Strategy
 - □ Value drivers part 2
 - □ Investment conclusions



Appendix

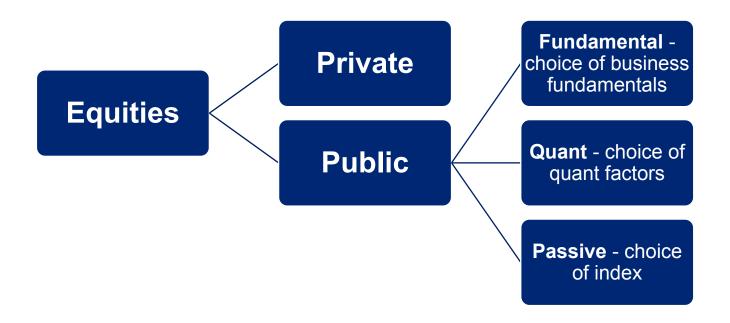


Sustainable investing (Ch 8)

Basics of equity

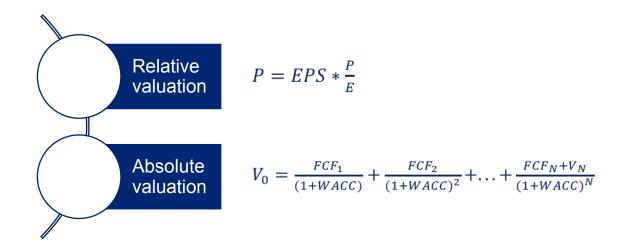


Public equity: \$70 trillion



Equity valuation



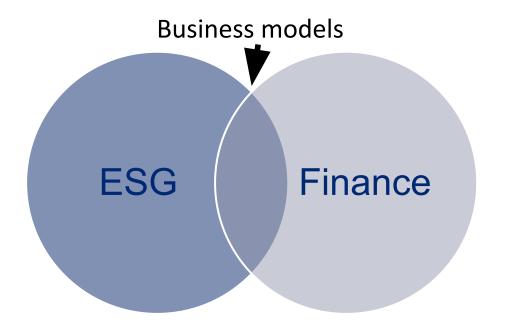


Application of value drivers approach:

- Free cash flows (FCF) based on sales and sales growth
- WACC based on cost of capital

Relevance of sustainability to equity





Relevance of sustainability to equity



Company purpose, products & stakeholders

Material sustainability issues

Competitive positions & business models

Value drivers

Academic evidence on ESG and stock return





ESG integration into equities



Why? Does it happen? How?

Suitability of the approach	Fundamental equities	Quant equities	Passive equities	Explanation
Exclusionary screening	High	Medium-high	Medium-hig h	Can be done on scores
Best in class	High	Medium	Low	Can be done on scores, to a certain degree
Thematic investing	High	Medium	Low	Fundamental analysis is needed
Active ownership	High	Low	Low	Fundamental analysis is needed, which can be bought externally with loss of quality
Impact investing	High	Very low	Very low	Fundamental analysis is needed
ESG integration	High	Very low	Not at all	Fundamental analysis is needed

ESG integration into fundamental equities



Steps in the Value driver adjustment (VDA) approach:



ESG integration into fundamental equities

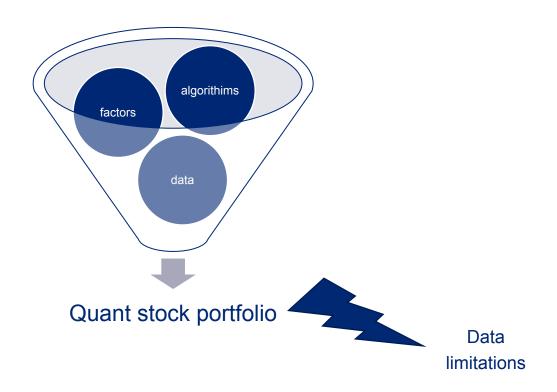


KUKA VDA example:

Value driver	Sales growth	Margins	Cost of capital	Target price
Benchmark (i.e. performance excluding ESG advantage)	5-6%	5-6%	10%	EUR 67
Impact from ESG factors	Innovation & high-growth markets: +200bps	Innovation: +100bps	Capital management -100bps	EUR 32
Total	7-8%	6-7%	9%	EUR 99

ESG integration into quant equities





ESG integration into passive equities





This is not really integration, but it does move capital away from the worst companies

Impact investing



Intentionality to make the world better

Return expectations (i.e. not charity)

GIIN impact criteria

Range of return expectations & asset classes

Impact measurement

Impact investing: challenges

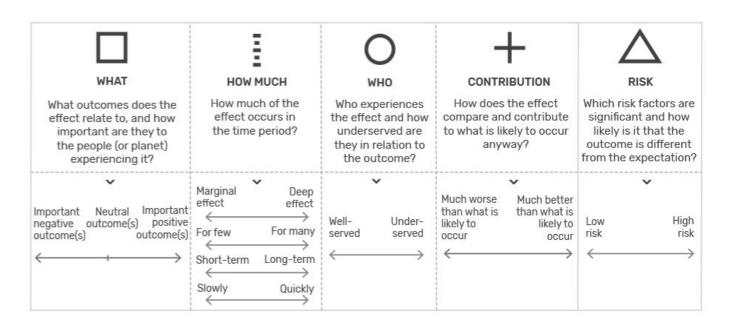


Data Scale Barriers to change Perception problems Complex investment chains

Impact investing



Criteria by the Impact Management Project:



Impact investing example (1)



NN IP's impact criteria applied to Novozymes:

Impact criterion	Company assessment
Material: relevance to value drivers sales, profits, capex, and risk	Superior performance and energy savings at clients help Novozymes grow twice as fast as the chemicals industry at twice the profitability
Intentional: deliberate choice, strategy, purpose	 Corporate strategy and business model are built on providing more environmentally friendly solutions Novozymes was involved in setting the SDGs Works with partners to develop and drive adoption of proven biological innovations that improve feed efficiency and animal health One of few companies that reports on its impact, with serious targets
Transformational: does the company drive major change for the better by means of its business model, technology, scale or standards?	Enzymes have the potential to replace nearly all chemical processes, which would mean much less environmental footprint (CO2 emissions and waste).

Impact investing example (2)



NN IP's impact KPIs applied to Novozymes:

	Emissions saved, SDG 7	Innovation, SDG 9	Health & well-being, SDG 3
Ideal impact KPI	Emissions saved	Value of innovations to society	Improvement in human health
Actual KPIs reported	Emissions saved	#transformative innovations; #active patent families; R&D/sales; #R&D employees; pipeline	#people reached with biological solutions
Number	69 mn ton	8 new products in 2016; 13% R&D/sales; 1400 R&D employees; 1123 active patent families	Reached approximately 5 billion consumers with more than one of their solutions on a weekly basis – 100 million more than in 2015
Target	Save 100 mn ton in 2020	Deliver 10 transformative innovations from 2015 to 2020	6 billion people reached with biological solutions by 2020
Engagement on KPIs	Not needed	Get more granularity	Get detail on quality - focus

Conclusions – sustainable companies



- Equity investors have strong incentives to help companies achieve the conditions for long-term value creation
- However, most equity investors fail to properly take material sustainability issues into account

- Fundamental equity investing is more suitable for ESG integration than quant and passive
- Impact investing is essentially an extreme form of sustainability integration
 that starts with the intention to make the world better