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KEY IMPACT CATEGORIES AND MONETARY VALUATION FACTORS

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About the Impact-Weighted Accounts Framework

The Impact-Weighted Accounts Framework (IWAF) represents an innovative approach designed to redefine value in organisations, from a focus on maximizing financial value to optimizing societal impact. IWAF provides the key concepts, requirements, and guidance for organisations to quantitatively assess their impact: how they create or detract value for all stakeholders.

IWAF values the impact of an enterprise across six distinct capitals—financial, manufactured, intellectual, human, social, and natural—throughout the entire value chain. By measuring and evaluating these impacts in monetary terms, IWAF provides a harmonised, standardised impact language, thereby facilitating trade-offs as well as the integration of impact information at the core of strategic decision-making. The focus of IWAF extends beyond mere assessment and reporting; it actively facilitates effective impact management. This framework thereby ensures that all key stakeholders can comprehend and steer on the full spectrum of a company's impacts.

Therefore, adopting IWAF is a critical step for any organisation aiming to evolve into an impact enterprise. This guidance steers enterprises towards a future where every decision is impact-driven, crucial for cultivating an Impact Economy in which work, innovation and entrepreneurship is used as effectively as possible towards resolving our societal issues and creating well-being for all.

Developing the Impact-Weighted Accounts Framework

IWAF is incubated by the Impact Economy Foundation (IEF) together with thought leaders and leading practitioners in an inclusive and scientific manner. The IWAF is being developed in partnership with the Impact-Weighted Accounts Project from Harvard Business School, Singapore Management University, Rotterdam School of Management and Impact Institute.









Figure 1: An overview of the documents in the Impact-Weighted Accounts Framework. This document is the Monetisation Factors and Impact Categories document.

Authors and Acknowledgments

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Introduction

This document provides the Standardised list of impacts categories (1.1) and the list of Monetisation factors (1.2). The Standardised list of impact categories is also provided in the Guidance on the steps for compiling Impact-Weighted Accounts (Appendix A). The list of monetisation factors is also provided in the Guidance on the steps for compiling Impact-Weighted Accounts (Appendix F).

1.1 Standardised list of impacts categories

The set of impacts that are material to the organisation and thus appear in the IWAs depends on the type of business activity of that organisation. Table A.1 provides the standard list of impact categories that are relevant to many types of organisations. It is suggested that these impact categories should always be included in IWAs if these are material to the organisation. Note that this list is not exhaustive.

The list specifies the type of capital and the stakeholders with which an impact category is associated. When using a different classification of stakeholder groups, the organisation should modify the list accordingly. The list also provides the possible valences for the accounts in the impact categories. Note that the valence of financial capital impacts is defined from the stakeholder external to the organisation in scope. In addition, the list indicates whether an impact is typically an input or an output and whether it is associated with rights. The link to input or output refers to the direct impact of an organisations' activity and not the indirect impact generated in its valued chain. This means for example, that Contribution to/ Limitation of Climate Change is associated with the output 'GHG emissions' related to the organisation's activity but does not reflect the climate change impact from emissions generated in the value chain for products/services that the activity has as input. The relation between output of a value chain partner / input of the organisation in scope is reflected in the impact pathway to indirect impact (see paragraph 5.2.13 of the Conceptual Framework for Impact-Weighted Accounts).

Often, the activities of your organisation lead to value transformation or value transfer. You should always consider the output impact when considering the related input impact. An overview of which input and output impacts belong together ("mirror-impacts") can be found below:



Input Impact	Output impact	Stakeholder
Payment from clients	Client value of products / services	Clients
value of input materials	Payments to suppliers	Suppliers
Time invested by employees	Salaries	Employees
	Additionally: Value to employees arising from training and experience, Wellbeing of employment	
Cost of capital	Profit	Organisation and investors

Furthermore, be aware that for the following 'contribution/limitation to' impacts no netting of the 'contribution to' and the 'limitation of' impacts should occur:

- Contribution to / limitation of climate change
- Contribution to / limitation of pollution
- Contribution to / limitation of availability of scarce natural resources
- Contribution to / limitation of poverty
- Contribution to / limitation of human rights violations



Table 1.: Key impact categories

Impact	Description	Capital	Stakeholder	Associated	Valence	Rights dimension	Attribution
				with	(for absolute impact)	(Yes/No)	category
				input/output			
Profit	Profit made by	Financial	Organisation; Investors	Output	Positive	No	1
	organisation						
Salaries	Remuneration and other	Financial	Employees	Output	Positive	No	1
	comprehensive benefits						
	paid to employees by the						
		Financial	Our contraction of the sector of	0		NI-	1
interest payments	arganisation's londors and	FINANCIAI	Organisation; investors	Output	Positive	NO	Ι
	bond holders						
Taxes	Taxes paid to the	Financial	Governments local communities	Output	Positive	No	1
	government by the		and other	Carpar			
	organisation						
Payments to	Payments to suppliers by	Financial	Value chain partners (suppliers and	Output	Positive	No	1
suppliers	the organisation		B2B clients) specifically their				
			employees (workers in the value				
			chain)				
Payments from	Payments from clients to	Financial	Value chain partners (suppliers and	Input	Negative	No	1
clients	the organisation		B2B clients) specifically their				
			employees (workers in the value				
			chain)				
Cost of capital	The cost of the capital that	Financial	Investors	Input	Negative	No	1
	is provided to the						
	organisation by equity						
	holders, bond holders and						
Change in fixed	others		Ourse insting Investors	0		NI-	1
	A change in the fixed	Manufactured	Organisation; investors	Output	Positive or Negative	NO	1
assels	assets of the organisation						
4							

Impact	Description (e.g., due to new investments, divestments or depreciation)	Capital	Stakeholder	Associated with input/output	Valence (for absolute impact)	Rights dimension (Yes/No)	Attribution category
Client value of products	Value to clients of products sold by the organisation	Manufactured	Value chain partners (suppliers and B2B clients) specifically their employees (workers in the value chain)	Output	Positive	No	2
Client value of services	Value to clients of services sold by the organisation	Financial / Manufactured / Intellectual / Human	Value chain partners (suppliers and B2B clients) specifically their employees (workers in the value chain)	Output	Positive	No	2
Value of input materials	Value of input materials supplied by suppliers to the organisation	Manufactured	Value chain partners (suppliers and B2B clients) specifically their employees (workers in the value chain)	Input	Negative	No	1
Creation of intellectual capital	Creationofintellectualcapitalsuchasnewknowledgeandtechnologybytheorganisation	Intellectual	Organisation; Investors	Output	Positive	No	1
Wellbeing of employment	Additional wellbeing experienced by employees resulting from their employment at the organisation	Human	Employees Value chain partners (suppliers and B2B clients) specifically their employees (workers in the value chain)	Output	Positive	No	2



Impact	Description	Capital	Stakeholder	Associated	Valence	Rights dimension	Attribution
				with	(for absolute impact)	(Yes/No)	category
				input/output			
Value to	Increase in skills and	Human	Employees	Output	Positive	No	2
employees arising	associated Human Capital						
from training and	of employees arising from		Value chain partners (suppliers and				
experience	their employment at the		B2B clients) specifically their				
	organisation		employees (workers in the value				
			chain)				
Effects on human	Various effects on human	Human	Value chain partners (suppliers and	Output	Positive or Negative	Yes	2 or 3 ¹
health	health associated with the		B2B clients) specifically their				
	operations and products of		employees (workers in the value				
	the organisation		chain)				
			Governments, local communities				
			and other;				
			(End-)Consumers				
Occupational	The effects of	Human	Employees	Output	Negative	Yes	2
health and safety	occupational health and						
incidents	safety incidents that		Value chain partners (suppliers and				
	occurred during the		B2B clients) specifically their				
	operations of the		employees (workers in the value				
	organisation or in the value		chain)				
	chain.						
Time invested by	The value of time invested	Human	Employees	Input	Negative	No	1
employees	by employees to work for						
	the organisation						

¹ Category 2 if the effects on health/emissions/... can directly be attributed to one organization, category 3 if not (e.g., if they occur in the consumer use phase).

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Impact	Description	Capital	Stakeholder	Associated	Valence	Rights dimension	Attribution
				with	(for absolute impact)	(Yes/No)	category
				input/output			
Contribution to /	Emission or absorption of	Natural ²	Nature and its beneficiaries	Output	Negative or positive	Yes	2 or 3
limitation of	greenhouse gasses (GHG)						
climate change	during the operations of						
	the organisation						
Contribution to /	Emission or absorption of	Natural ⁸	Nature and its beneficiaries	Output	Negative or positive	Yes	2 or 3
limitation of	pollutants to or in air, soil						
pollution	and water during the						
	operations of the						
	organisation						
Contribution to /	The effects of increasing or	Natural ⁸	Nature and its beneficiaries	Output	Negative or positive	Yes	2 or 3
limitation of	decreasing scarcity of						
availability of	natural resources resulting						
scarce natural	from the operations of the						
resources	organisation						
Contribution to /	The effects of increased or	Social	Employees; Value chain partners	Output	Negative or positive	Yes	2 or 3
limitation of	decreased poverty		(suppliers and B2B clients)				
poverty	resulting from the		specifically their employees				
	operations of the		(workers in the value chain);				
	organisation		Governments, local communities				
			and other				

² All negative natural capital impacts also (indirectly) lead to negative effects on human health (Human Capital) and human economic activity (Financial Capital). As these effects are in first order (directly) on the environment, these impacts are classified as Natural Capital. In the context of Life-Cycle Assessments, these effects are reflected as midpoint indicators rather than endpoint indicators.



Impact	Description	Capital	Stakeholder	Associated	Valence	Rights dimension	Attribution
				with	(for absolute impact)	(Yes/No)	category
				input/output			
Contribution to /	(Indirect) contribution to	Social	Employees; Value chain partners	Output	Negative or positive	Yes	2 or 3
limitation of	human rights violations, or		(suppliers and B2B clients)				
human rights	preventing others from		specifically their employees				
violations	engaging in this		(workers in the value chain);				
			Governments, local communities				
			and other				



1.2 Monetisation factor list

Table 2: Monetisation Factor List

Impact	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
			indicator			factor		dimension
								(Yes/No)
Profit	Financial	Net profit/loss of the			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
		organisation			valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another. [11]	
Salaries	Financial	Salaries to employees			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
					valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another.	
Interest payments	Financial	Interests paid to each			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
		applicable stakeholder			valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another [11].	



Impact	,	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
				Indicator			Tactor		aimension
									(Yes/No)
Taxes		Financial	Taxes	Income tax		Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
						valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
								of financial value is equal to 1 Dollar-equivalent of	
								wellbeing.	
								The approach can be refined by explicitly considering	
								that 1 Dollar can represent more wellbeing for one	
								stakeholder than for another [50].	
				Other tax		Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	
						valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
								of financial value is equal to 1 Dollar-equivalent of	
								wellbeing.	
								The approach can be refined by explicitly considering	
								that 1 Dollar can represent more wellbeing for one	
								stakeholder than for another [50].	
Payments	to	Financial	Payments to suppliers			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
suppliers						valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
								of financial value is equal to 1 Dollar-equivalent of	
								wellbeing.	
								The approach can be refined by explicitly considering	
								that 1 Dollar can represent more wellbeing for one	
<u> </u>								stakeholder than for another [11].	
Payments	from	Financial	Payments from clients			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
clients						valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
								of financial value is equal to 1 Dollar-equivalent of	
								wellbeing.	
								The approach can be refined by explicitly considering	
								that 1 Dollar can represent more wellbeing for one	
								stakeholder than for another [11].	



Impact	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
			indicator			factor		dimension
								(Yes/No)
Cost of capital	Financial	Cost of capital			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
					valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another [11].	
Change in fixed	Manufactured	Change in fixed assets			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
assets					valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another [11].	
Client value of	Manufactured	Client value of products			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
products					valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
							of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	
							The approach can be refined by explicitly considering	
							that 1 Dollar can represent more wellbeing for one	
							stakeholder than for another [11].	
Client value of	Manufactured /	Client value of services			Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
services	Intellectual /				valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
	Human						of financial value is equal to 1 Dollar-equivalent of	
							wellbeing.	



indicator factor	dimension
	(Yes/No)
The app	roach can be refined by explicitly considering
that 1 [ollar can represent more wellbeing for one
stakehol	der than for another [11].
Value of input Manufactured Value of input materials Already monetary 1 Int.\$/Int.\$ Impact input	s often already expressed in currency units. To No
materials valued translate	it to dollar-equivalent, it is assumed that 1 dollar
of finan	cial value is equal to 1 Dollar-equivalent of
wellbein	g.
The app	roach can be refined by explicitly considering
that 1 [ollar can represent more wellbeing for one
stakehol	der than for another [11].
Creation of Intellectual Creation of intellectual Already monetary 1 Int.\$/Int.\$ Impact intellectual	s often already expressed in currency units. To No
intellectual capital capital valued translate	it to dollar-equivalent, it is assumed that 1 dollar
of finan	cial value is equal to 1 Dollar-equivalent of
wellbein	g.
The app	roach can be refined by explicitly considering
that 1 C	ollar can represent more wellbeing for one
stakehol	der than for another [11].
WellbeingofHumanWellbeingeffectperLifesatisfaction2,647Int.\$ / lifeThe value	e of wellbeing is based on two studies on the No
employment one additional point of point (scale 0-100) satisfaction point valuation	of wellbeing [90], [91]. A value of wellbeing was
life satisfaction (scale 0–100) derived	rom both articles, each of which was adjusted
for inflat	ion and purchasing power parity. These values
are base	d on a reduction in wellbeing value resulting
from un	employment [50] and an increase in wellbeing
value re	sulting from education [11]. These two values
were w	eighted equally to arrive at the final life
satisfact	on.

Impact	Capital	Footprint Indicator	Footprint sub- indicator	Unit	Monetisation factor	Explanation	Rights dimension
							(Yes/No)
Value to	Human	Creation human capital		Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
employees from		for each applicable		valued		translate it to dollar-equivalent, it is assumed that 1 dollar	
training and		stakeholder				of financial value is equal to 1 Dollar-equivalent of	
experience						wellbeing.	
						The approach can be refined by explicitly considering	
						that 1 Dollar can represent more wellbeing for one	
						stakeholder than for another [11].	
Occupational	Human	Non-fatal occupational	Insured non-fata	# Incidents	4,360	A combination of compensation, prevention and	Yes
health & safety		incidents	occupational		Int.\$/incident	retribution costs. The compensation cost represents the	
incidents			incidents			average cost of medical expenses for occupational	
			Uninsured non-fata	# Incidents	4,550	injuries not covered by the employer, estimated from	
			occupational		Int.\$/incident	Dutch data and adapted to other countries using value	
			incidents			transfer [92], the value of health loss (measured in	
		Fatal occupational		# Incidents	3,700,000	Disability-adjusted Life Years [DALY]) loss in the case of	
		incidents			Int.\$/incident	non-fatal incidents, and the Value of Statistical Life (VSL)	
		Occupational injuries		# Incidents	6,150	in the cause of fatal incidents, as a compensation to the	
		with breach of H&S			Int.\$/incident	family of the victim [93]. The prevention cost expresses	
		standards				the cost of generic auditing setup to prevent future	
		Work performed in		# FTE	2,780 Int.\$/FTE	instances. Finally, the retribution costs represent a	
		violation of H&S				penalty for the cases in which workers perform their	
		standards				duties in conditions that violate Health and Safety	
		Labour force to be		# FTE	9.47 Int.\$/FTE	regulations, which is based on the weighted average of	
		audited for H&S				penalties from various countries to express a global	
						penalty.	
Time invested by	Human	Time invested by		Already monetary	1 Int.\$/Int.\$	Impact is often already expressed in currency units. To	No
employees		employees		valued		translate it to dollar-equivalent, it is assumed that 1 dollar	



Impact	Capital	Footprint Indicator	Footprint sub-	Unit	Monetisation	Explanation	Rights
			indicator		factor		dimension
							(Yes/No)
						of financial value is equal to 1 Dollar-equivalent of	
						wellbeing.	
						The approach can be refined by explicitly considering	
						that 1 Dollar can represent more wellbeing for one	
						stakeholder than for another [11].	
Effects on Human	Human	Effects on human		DALY	119,000 Int.\$/DALY	A compensation cost that expresses the Value of	Yes
Health		health ³				Statistical Life (VSL) based on a meta-analysis of the VSL	
						from 92 willingness-to-pay studies, conducted by the	
						OECD.	
Contribution to /	Natural	GHG emissions		kg CO2-eq	0.236 Int.\$/kgCO2	A restoration cost that expresses the abatement cost for	Yes
limitation of					eq	achieving the policy targets of reducing GHG emissions	
climate change						to meet the 2-degree target as set in the Paris	
						Agreement, based on a meta-study of 62 marginal	
						abatement cost estimates [94].	
Contribution to /	Natural	Toxic emissions to air	Human toxicity	DALY	125,000	A compensation cost that expresses the value of a DALY	Yes
limitation of					Int.\$/DALY	based on a meta-analysis of the Value of Statistical Life	
pollution: Air						(VSL) from 92 willingness-to-pay studies, conducted by	
pollution						the OECD [93].	
			Terrestrial	kg 1,4-DB emitted	0.0004 Int.\$/kg	A compensation cost that expresses the social cost of	
			ecotoxicity	to industrial soil	1,4-DB emitted to	pollution and indicates the occurring loss of economic	
				eq	industrial soil eq	welfare when pollutants are emitted into the	

³ Other impacts such as pollution and child labour are also associated with human health through their footprint sub-indicators but are valued separately from Effects on Human Health.

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Impact	Capital	Footprint I	ndicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
				indicator			factor		dimension
									(Yes/No)
				Freshwater		kg 1,4-DB emitted	0.0606 Int.\$/kg	environment, looking at ecosystems damage.	
				ecotoxicity		to freshwater eq	1,4-DB emitted to	Ecosystem's damage is valued by looking at the value of	
							freshwater eq	ecosystems services lost, which are in turn valued in	
								terms of impacts on biodiversity. The endpoint valuation	
				Marine Ecoto	oxicity	kg 1,4-DB emitted	0.0028 Int.\$/kg 1,4-	of ecosystem damage is based on the annual value of	
						to seawater eq	DB emitted to	ecosystem services (ESS) of one hectare of nature, based	
							seawater eq	on the median annual value per hectare of ESS of six	
								terrestrial biomes. These values are based on a published	
								meta-analysis of the Economics of Ecosystems and	
								Biodiversity (TEEB) database [95]. ReCiPe (2016) endpoint	
								characterisation factors for ecotoxicity to the respective	
								environmental compartments are utilised to derive the	
								monetisation factors [36]. A global value is preferred	
								rather than location-specific values, due to the high	
								uncertainty and because the quantification of	
								ecosystems damage from ReCiPe is not location-specific	
								(e.g., it is not specified where the damage occurs, only the	
								size of the damage).	
		Nitrogen	deposition	Animal Hus	bandry	kg NH3 eq	18.90 Int.\$/kg NH3	A marginal cost of the abatement measures needed to	
		NH3		(in stables)			eq	reach the regulatory target of nitrogen deposition in	
				Use of manu	re	kg NH3 eq	12.10 Int.\$/kg NH3	nature areas. Types and magnitude of emissions that	
							eq	contribute to nitrogen deposition in the Netherlands are	
				Other source	25	kg NH3 eq	10.60 Int.\$/kg NH3	based on van der Maas [96]. The costs to prevent the	
							eq	deposition of 1 mol of Nitrogen per hectare per year from	
								NH3 emissions coming from animal husbandry (in stables)	
								are derived from Van der Born et al. [97]. Adjusted values	
								for nitrogen deposition in other European countries are	



Impact	Capital	Footprint Indicator	Footprint sub- indicator	Unit	Monetisation factor	Explanation	Rights dimension (Yes/No)
						provided based on the Product Environmental Footprint (PEF) characterisation factors and data on the average accumulate exceedance per hectare [98].	
		Nitrogen deposition NOx	Use of machines and vehicles Other sources	kg NOx eq	1.84 Int.\$/kg NOx eq 3.49 Int.\$/kg NOx eq	A marginal cost of the abatement measures needed to reach the regulatory target of nitrogen deposition in nature areas. Types and magnitude of emissions that contribute to nitrogen deposition in the Netherlands are based on Van der Maas [96]. The costs to prevent the deposition of 1 mol of Nitrogen per hectare per year from NOx emissions coming from use of agricultural machines and vehicles are derived from Van der Born et al. [97]. Adjusted values for nitrogen deposition in other European countries are provided based on PEF characterisation factors and data on the average	-
		Particulate matter (PM) formation		kg PM2.5 eq	78.50 lnt.\$/kg PM2.5 eq	accumulate exceedance per hectare [98]. A compensation cost that expresses the social cost of pollution and indicates the occurring loss of economic welfare when pollutants are emitted into the environment, looking at human health damage (morbidity—i.e., sickness and disease and premature mortality). The endpoint valuation of human health is based on a valuation of a DALY (Disability Adjusted Life Year). ReCiPe 2016 endpoint characterisation factors for PM formation are used to derive the monetisation factors [36]. Country-specific characterisation factors are given.	-



Impact	Capital	Footprint Indicator	Footprint sub-	Unit	Monetisation	Explanation	Rights
			indicator		factor		dimension
							(Yes/No)
		Photochemical oxidant	Photochemical	kg NOx eq	0.114 Int.\$/kg NOx	A compensation cost that expresses the social cost of	
		formation (POF)	oxidant formation		eq	pollution and indicates the occurring loss of economic	
			(POF): human			welfare when pollutants are emitted into the	
			health damage			environment, looking at human health damage	
				ka NOv oa	4.27 Ints /kg NOv	- (morbidity—i.e., sickness and disease and premature	
			Photochemical	ky NOX eq	4.27 IIItş/kg NOX	mortality) and ecosystems damage. Ecosystem's damage	
			oxidant formation		eq	is valued looking at the value of ecosystems services lost,	
			(POF): ecosystem			which are in turn valued in terms of impacts on	
			damage			biodiversity. The endpoint valuation of ecosystem	
						damage is based on the annual value of ecosystem	
						services (ESS) of one hectare of nature, based on the	
						median annual value per hectare of ESS of six terrestrial	
						biomes. These values are based on a published meta-	
						analysis of the TEEB database [95]. The endpoint	
						valuation of human health is based on valuation of a	
						DALY. ReCiPe 2016 endpoint characterisation factors for	
						POF are used to derive the monetisation factors [36].	
						Country-specific characterisation factors are given.	
		Acidification		kg SO2 eq	7.02 Int.\$/kg SO2	A compensation cost that expresses the social cost of	_
					eq	pollution and indicates the occurring loss of economic	
						welfare when pollutants are emitted into the	
						environment, looking at ecosystems damage. Ecosystem	
						damage is valued looking at the value of ecosystems	
						services lost, which are in turn valued in terms of impacts	
						on biodiversity. The endpoint valuation of ecosystem	
						damage is based on the annual value of ecosystem	
						services (ESS) of one hectare of nature, based on the	



Impact	Capital	Footprint Indicator	Footprint indicator	sub-	Unit	Monetisation factor	Explanation	Rights dimension (Yes/No)
							biomes. These values are based on a published meta-	
							analysis of the TEEB database [95]. Recipe 2016 endpoint	
							characterisation factors for acidification are used to	
							derive the monetisation factors [36]. Country-specific	
							characterisation factors are given.	-
		Ozone layer depleting			kg CFC-11 eq	68.50 Int.\$/	kg A compensation cost that expresses the social cost of	
		emissions				CFC-11 eq	pollution and indicates the occurring loss of economic	
							welfare when pollutants are emitted into the	
							environment, looking at human health damage	
							(morbidity—i.e., sickness and disease and premature	
							mortality). The endpoint valuation of human health is	
							based on valuation of a DALY. The global ReCiPe 2016	
							endpoint characterisation factor for Ozone layer	
							depleting emissions is used to derive the monetisation	
							factor [36]. The monetisation factor for ozone layer	
							depleting emissions also includes the cost of damage to	
							agricultural crops, taken from CE Delft [52]. The cost of	
							damage to agricultural crops represents average damage	
							costs for ozone depletion for an average emission source	
							in the Netherlands. Although the damage could be	
							different in different geographies, for example because	
							of different thickness of the ozone layer, at present the	
							value is used without adjustments for different countries	
							due to the lack of an appropriate coefficient for regional	
							adjustments.	



Impact	Capital	Footpri	nt Indicator		Footprint	sub-	Unit	Monetisation	Explanation	Rights
					indicator			factor		dimension
										(Yes/No)
Contribution to /	Natural	Toxic	emissions	to	Human toxicity	У	DALY	125,000	A compensation cost that expresses the value of a DALY	Yes
limitation of		water						Int.\$/DALY	based on a meta-analysis of the Value of Statistical Life	
pollution: Water									(VSL) from 92 willingness-to-pay studies, conducted by	
pollution									the OECD [93].	
					Terrestrial		kg 1,4-DB emitted	0.0004 Int.\$/kg	A compensation cost that expresses the social cost of	
					ecotoxicity		to industrial soil	1,4-DB emitted to	pollution and indicates the occurring loss of economic	
							eq, for example	industrial soil, for	welfare when pollutants are emitted into the	
								example	environment, looking at ecosystems damage.	
					Freshwater		kg 1,4-DB emitted	0.0606 Int.\$/kg	Ecosystem's damage is valued looking at the value of	
					ecotoxicity		to freshwater eq	1,4-DB emitted to	ecosystems services lost, which are in turn valued in	
								freshwater eq	terms of impacts on biodiversity. The endpoint valuation	
									of ecosystem damage is based on the annual value of	
					Marine Ecotox	icity	kg 1,4-DB emitted	0.0028 Int.\$/kg 1,4-	ecosystem services (ESS) of one hectare of nature, based	
							to seawater eq	DB emitted to	on the median annual value per hectare of ESS of six	
								seawater eq	terrestrial biomes. These values are based on a published	
									meta-analysis of the TEEB database [95]. ReCiPe 2016	
									endpoint characterisation factors for ecotoxicity to the	
									respective environmental compartments are utilised to	
									derive the monetisation factors [36]. A global value is	
									preferred rather than location-specific values, due to the	
									high uncertainty and because the quantification of	
									ecosystems damage from ReCiPe is not location-specific	
									(e.g., it is not specified where the damage occurs, only the	
									size of the damage).	
		Freshwa	ater				kg P eq to	304 Int.\$/kg P eq	A combination of restoration and compensation costs	
		eutroph	nication				freshwater	to freshwater	based on a literature review on the costs of	
									eutrophication. Restoration costs express average	



Impact	Capital	Footprint Indicator	Footprint si	ub- I	Unit	Monetisation factor	Explanation	Rights
			malcator			lactor		(Yes/No)
							abatement costs for bringing nutrient levels to a	
							regulatory target, for the impacts that are reversible.	
							Compensation costs express other damage (economic	
							damage, damage to human health and biodiversity loss),	
							for residual impacts after restoration has taken place.	
							Country-specific factors can be derived based on water	
							basin-level risk of eutrophication.	
		Marine eutrophication			kg N eq to marine	21.10 Int.\$/kg N eq	A combination of restoration and compensation costs	
				1	water	to marine water	based on a literature review on the costs of	
							eutrophication. Restoration costs express average	
							abatement costs for bringing nutrient levels to a	
							regulatory target, for the impacts that are reversible.	
							Compensation costs express other damage (economic	
							damage, damage to human health and biodiversity loss),	
							for residual impacts after restoration has taken place.	_
Contribution to /	Natural	Toxic emissions to soil	Human toxicity	I	DALY	125,000	A compensation cost that expresses the value of a DALY	Yes
limitation of						Int.\$/DALY	based on a meta-analysis of the Value of Statistical Life	
pollution: Soil							(VSL) from 92 willingness-to-pay studies, conducted by	
pollution							the OECD [93] .	
			Terrestrial	I	kg 1,4-DB emitted	0.0004 Int.\$/kg	A compensation cost that expresses the social cost of	
			ecotoxicity	1	to industrial soil	1,4-DB emitted to	pollution and indicates the occurring loss of economic	
				6	eq	industrial soil eq	welfare when pollutants are emitted into the	
			Freshwater	I	kg 1,4-DB emitted	0.0606 Int.\$/kg	environment, looking at ecosystems damage. Ecosystem	
			ecotoxicity	t	to freshwater eq	1,4-DB emitted to	damage is valued looking at the value of ecosystem	
						freshwater eq	services lost, which are in turn valued in terms of impacts	
							on biodiversity. The endpoint valuation of ecosystem	

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Impact	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
			indicator			factor		dimension
								(Yes/No)
			Marine Ecoto	xicity	kg 1,4-DB emitted	0.0028 Int.\$/kg 1,4-	damage is based on the annual value of ecosystem	
					to seawater eq	DB emitted to	services (ESS) of one hectare of nature, based on the	
						seawater eq	median annual value per hectare of ESS of six terrestrial	
							biomes. These values are based on a published meta-	
							analysis of the TEEB database [95]. ReCiPe 2016 endpoint	
							characterisation factors for ecotoxicity to the respective	
							environmental compartments are utilised to derive the	
							monetisation factors [36]. A global value is preferred	
							rather than location-specific values, due to the high	
							uncertainty and because the quantification of	
							ecosystems damage from ReCiPe is not location-specific	
							(e.g., it is not specified where the damage occurs, only the	
							size of the damage).	
Contribution to /	Natural	Soil organic carbon			kg SOC loss	0.0450 Int.\$/kg	A compensation cost that expresses the damage cost for	Yes
limitation of		(SOC) loss				SOC loss	the chemical, physical, biological and ecological decline	
pollution: Soil							of soil resulting from loss of soil organic carbon, based on	
degradation							a study on the shadow prices of soil quality by TNO and	
							Wageningen University [99].	
		Soil loss from wind			kg soil loss	0.0331 Int.\$/kg soil	A compensation cost that expresses the cost of soil	
		erosion				loss	erosion based on an extensive review on the costs of soil	
		Soil loss from water			ka soil loss	0.0259 Int \$ /kg soil	erosion by the FAO (2014) [100]. The costs include on-site	
		erosion			Kg 30111033	0.0255 111.37 kg 301	damage such as loss of nutrients, reduced harvests and	
		Crosion					reduced value of the land and off-site damage such as	
							the silting up of waterways, flooding and repairing public	
							and private property.	



Impact		Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
				indicator			factor		dimension
									(Yes/No)
			Soil compaction			corrected tonne	0.830 Int.\$ /	A damage cost based on lost future crop yields. Other	
						kilometer (tkm)	corrected tonne	off-site costs such as flooding, water pollution and	
							kilometer (tkm)	increased GHG emissions, associated with subsoil	
								compaction, are not included in the monetisation factor.	
								The damage cost from soil compaction is calculated	
								based on the average gross revenue of crop production	
								lost resulting from irreversible subsoil compaction. This is	
								quantified as the present value future crop yield losses	
								(over 100 years) that are due to one year of machinery	
								use. Average yearly loss (%) of crop yield per corrected	
								tkm per ha over 100 years of production is provided in	
								Stoessel et al. (2018), with country- and region-specific	
								factors [101]. Average value of annual gross production	
								per hectare (in euro/ha) is estimated from data collected	
								from FAOSTAT for all crops produced in each country	
								[102]. Since the average yearly loss is given for 100 years	
								of production, future crop production losses (0.12	
								EUR/corrected tkm) are discounted to determine the	
								present value, with a discount rate equal to 3% [103] and	
								summed over 100 years.	
								Values represent a European average, rather than a	
								global one.	
Contribution to	o /	Natural	Land occupation	Tropical forest		Mean Species	3,170 Int.\$/	A compensation cost that expresses the opportunity	Yes
limitation	of					Abundance	(MSA*ha*yr)	cost of land occupation based on the value of ecosystem	
availability	of					(MSA)*ha*yr		services for main biomes based on a meta-analysis from	

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Impact	Capital	Footprint Indicator	Footprint sub-	Unit		Monetisati	ion	Explanation	Rights
			indicator			factor			dimension
									(Yes/No)
scarce natural			Other forest	Mean	Species	1,510	Int.\$/	TEEB [95]. Country-specific factors can be derived based	
resources: Land				Abundar	nce	(MSA*ha*y	vr)	on biome cover per country.	
occupation				(MSA)*h	a*yr				
			Woodland/shrubla	Mean	Species	2,050	Int.\$/		
			nd	Abundar	nce	(MSA*ha*y	vr)		
				(MSA)*h	a*yr				
			Grassland/savanna	Mean	Species	3,640	Int.\$/		
			h	Abundar	nce	(MSA*ha*y	vr)		
				(MSA)*h	a*yr				
			Inland wetland	Mean	Species	22,300	Int.\$/		
				Abundar	nce	(MSA*ha*y	vr)		
				(MSA)*h	a*yr				
			Coastal wetland	Mean	Species	16,400	Int.\$/		
				Abundar	nce	(MSA*ha*y	rr)		
				(MSA)*h	a*yr				
Contribution to /	Natural	Land transformation	Tropical forest	Mean	Species	4,350		A restoration cost that expresses the average cost of	Yes
limitation of				Abundar	nce	Int.\$/(MSA	*ha)	ecosystem restoration projects in different biomes based	
availability of				(MSA)*h	а			on a review of case studies [104]. Costs include capital	
scarce natural			Other forest	Mean	Species	3,020		investment and maintenance of the restoration project.	
resources: Land				Abundar	nce	Int.\$/(MSA	*ha)		
transformation				(MSA)*h	а				
			Woodland/shrubla	Mean	Species	1,250			
			nd	Abundar	nce	Int.\$/(MSA	*ha)		
				(MSA)*h	а				
			Grassland/savanna	Mean	Species	328			
			h	Abundar	nce	Int.\$/(MSA	*ha)		
				(MSA)*h	а				



Impact	Capital	Footprint Indicator	Footprint indicator	sub-	Unit		Monetisation factor	Explanation	Rights dimensior (Yes/No)
			Inland wetla	nd	Mean	Species	41,600		
					Abundar (MSA)*h	a	Int.\$/(MSA*ha)		
			Coastal wetl	and	Mean	Species	3,630		
					Abundar	ice	Int.\$/(MSA*ha)		
					(MSA)*h	а			
Contribution to /	Natural	Fossil fuel depletion			kg oil eq		0.540 Int.\$/kg oil	A compensation cost that expresses the future loss of	Yes
limitation of							eq	economic welfare resulting from increased extraction	
availability of								costs of fossil fuels in the future [36].	
scarce natural									
resources: Fossil									
fuels									
Contribution to /	Natural	(Other) non-renewable			kg Cu eq		0.273 Int.\$/kg Cu	A compensation cost that expresses the future loss of	Yes
limitation of		material depletion					eq	economic welfare resulting from increased extraction	
availability of								costs of non-renewable materials in the future [36].	
scarce natural									
resources: (Other)									
non-renewable									
materials									
Contribution to /	Natural	Scarce blue water use			m³		1.560 Int.\$/m³	A restoration cost that expresses the annualised cost of	Yes
limitation of								desalination, including the cost of operation and	
availability of								maintenance, electrical and thermal energy, as well as the	
scarce natural								cost of covering and repaying initial capital and	
resources: water					A lus s sh i			operational costs of desailnation [105].)/
Contribution to /	Social	wage gap of workers			Aiready	monetary	1.59 Int.\$/Int.\$	A combination of compensation, prevention and	Yes
ilmitation of		earning below minimum			valued			retribution costs [51]. The compensation cost expresses	
poverty:		wage						the gap to a decent living wage, as well as the interest	

Impact	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
			indicator			factor		dimension
								(Yes/No)
Underpayment in		Wage gap of workers			Already monetary	1.09 Int.\$/Int.\$	rate. The prevention cost expresses the cost of generic	
the value chain		earning above minimum			valued		auditing setup to prevent future instances. The	
		wage but below decent					retribution cost represents a penalty for the wage gap	
		living wage					that is below the legal minimum wage, based on the	
		Labour force to be			# FTE	9.47 Int.\$/FTE	weighted average of penalties from various countries to	
		audited for insufficient					express a global penalty.	
		wages						
Contribution to /	Social	Income gap			Already monetary	1.09 Int.\$/Int.\$	A compensation cost that represents the restitution for	Yes
limitation of					valued		the income gap.	
poverty:								
Insufficient								
income								
Contribution to /	Social	Underage workers	Workers	below	# child FTE	14,400 Int.\$/child	A combination of restoration, compensation, prevention	Yes
limitation of			minimum ag	ge for		FTE	and retribution costs. The restoration cost expresses the	
human rights			light work (12	2 or 13)			costs of providing quality education for children not	
violations: Child			involved in	non-			attending school and the costs of implementing	
labour			hazardous				additional components of reintegration programmes for	
			economic wo	ork			children involved in hazardous child labour [106]. The	
			Underage w	vorkers	# child FTE	3,470 Int.\$/child	compensation cost expresses the loss of future earnings	
			above mi	nimum		FTE	when a child is prevented from attending school during	
			age for light	t work			youth [36], [107], [108].	
			and	below			The prevention cost expresses the cost of generic	
			minimum age	e (12 or			auditing setup to prevent future instances. Finally, the	
			14 or 13 (or 15)			retribution cost represents a penalty for instances of	
			involved in	non-			child labour based on the weighted average of penalties	
			hazardous	non-			from various countries to express a global penalty.	



Impact	Capital	Footprint Indicator	Footprint sub indicator	- Unit	Monetisation factor	Explanation	Rights dimension (Yes/No)
			light economic work	2			
			Underage workers	s # child FTE	36,600 Int.\$/child		
			below minimum	ı	FTE		
			age (12 or 13)			
			involved in	ı			
			hazardous work				
			Workers above	e # FTE	15,900 Int.\$/FTE		
			minimum age (14 o	r			
			15) and below 18	3			
			involved in	1			
			hazardous work				
		Underage workers who		# children	26,400		
		are not attending			Int.\$/children		
		school					
		Labour force to be		# FTE	9.47 Int.\$/FTE		
		audited for child labour					
Contribution to /	Social	Forced workers (least		# FTE	18,000 Int.\$/FTE	A combination of restoration, compensation, prevention	Yes
limitation of		severe)				and retribution costs. The restoration cost expresses the	
human rights		Forced workers		# FTE	98,300 Int.\$/FTE	restitution of past economic losses of forced workers in	
violations: Forced		(medium severe)				debt bondage, as well as other costs for reintegration	
labour		Forced workers (most		# FTE	179,000 Int.\$/FTE	[109], [110]. The compensation cost expresses the cost of	
		severe)				lost health valued using DALY for forced workers victims	
		Forced workers who are		# FTE	19,900 Int.\$/FTE	of abuse [93]. The prevention cost expresses the cost of	
		in debt bondage				generic auditing setup to prevent future instances.	
		Forced workers who are		# FTE	43,000 Int.\$/FTE	Finally, the retribution cost represents a penalty for	
		victims of abuse				instances of forced labour based on the weighted	
26							

Impact	Capital	Footprint Indicator	Footprint sul	b- Unit	Monetisation	Explanation	Rights
			indicator		factor		dimension
							(Yes/No)
		Labour force to be		# FTE	9.47 Int.\$/FTE	average of penalties from various countries to express a	
		audited for forced				global penalty. Restoration, retribution and	
		labour				compensation costs for harassment may also be included	
						if abuse exists in the specific case.	
Contribution to /	Social	Female workers		# FTE	2,560 Int.\$/FTE	A combination of restoration, prevention and retribution	Yes
limitation of		without provision for				costs. The restoration cost represents the restitution of	
human rights		maternity leave				wage lost due to denied maternity leave, gender	
violations:		Value of denied		Already monetary	1.09 Int.\$/Int.\$	discrimination and unequal opportunities. The prevention	
Discrimination		maternity leave		valued		cost expresses the cost of generic auditing setup to	
		Wage gap from gender		Already monetary	1.09 Int.\$/Int.\$	prevent future instances of discrimination. The	
		discrimination		valued		retribution cost represents a penalty for the violation of	
		Wage gap from unequal		Already monetary	1.09 Int.\$/Int.\$	denied maternity leave and a penalty proportional to the	
		opportunities		valued		size of the wage gap from discrimination, based on the	
		Labour force to be		# FTE	9.47 Int.\$/FTE	weighted average of penalties from various countries to	
		audited for				express a global penalty.	
		discrimination					
Contribution to /	Social	Workers without legal		# FTE	3,400 Int.\$/FTE	A combination of compensation, prevention and	Yes
limitation of		social security				retribution costs. The compensation cost represents the	
human rights		Value of denied paid		Already monetary	1.09 Int.\$/Int.\$	restitution of the denied paid leave. The prevention cost	
violations: Lack of		leave		valued		expresses the cost of generic auditing setup, to prevent	
social security		Labour force to be		# FTE	9.47 Int.\$/FTE	future instances. Finally, the retribution cost represents a	
		audited for insufficient				penalty for the workers without social security, in the	
		social security				case of a legal requirement by law, based on the	
						weighted average of penalties from various countries to	
						express a global penalty.	
Contribution to /	Social	Workers performing		# FTE	160 Int.\$/FTE	A combination of compensation, prevention and	Yes
limitation of		illegal overtime				retribution costs. The compensation cost represents the	





Impact	Capital	Footprint Indicator	Footprint sub-	Unit	Monetisation	Explanation	Rights
			indicator		factor		dimension
							(Yes/No)
human ri	ights	Workers performing		# FTE	160 Int.\$/FTE	wage gap due to underpaid overtime. The prevention	
violations:		underpaid overtime				cost expresses the cost of generic auditing setup, to	
Excessive	and	Overtime pay gap		Already monetary	1.09 Int.\$/Int.\$	prevent future instances. Finally, the retribution cost	
underpaid				valued		represents a penalty cost for overtime work above the	
overtime		Labour force to be		# FTE	9.47 Int.\$/FTE	maximum legal limit or paid under legal requirements	
		audited for illegal				based on the weighted average of penalties from various	
		overtime				countries to express a global penalty.	
Contribution	to / Social	Workers who	Workers who	# workers	34,500	A combination of restoration, compensation, prevention	Yes
limitation	of	experienced	experienced non-		Int.\$/worker	and retribution costs. The restoration cost represents	
human ri	ights	harassment	physical non-sexual			average medical costs for injuries, anxiety, depression	
violations:			harassment			and post-traumatic stress disorder resulting from	
Occurrence	of		Workers who	# workers	37,300	workplace harassment estimated for the Netherlands	
harassment			experienced non-		Int.\$/worker	and adapted to other countries using value transfer [92],	
			physical sexual			[111], [112].	
			harassment			The compensation cost represents the cost of loss of	
			Workers who	# workers	67,300	future wellbeing resulting from long-term mental health	
			experienced		Int.\$/worker	impact of victims of harassment. The prevention cost	
			physical non-sexual			expresses the cost of generic auditing setup, to prevent	
			harassment			future instances. Finally, the retribution cost represents a	
			Workers who	# workers	77,900	penalty for instances of physical non-sexual and sexual	
			experienced non-		Int.\$/worker	harassment based on the weighted average of penalties	
			severe physical			from various countries to express a global penalty.	
			sexual harassment				
			Workers who	# workers	89,700	-	
			experienced severe		Int.\$/worker		
			physical sexual				
			harassment				
20							<u> </u>



Impact	Capital	Footprint Indicator	Footprint	sub-	Unit	Monetisation	Explanation	Rights
			indicator			factor		dimension
								(Yes/No)
		Labour force to be			# FTE	9.47 Int.\$/FTE		
		audited for harassment						
Contribution to /	Social	Instances of denied			# violations	551 Int.\$/violation	A combination of prevention and retribution costs. The	Yes
limitation of		freedom of association					prevention cost expresses the cost of generic auditing	
human rights		Labour force to be			# FTE	9.47 Int.\$/FTE	setup to prevent future instances. The retribution cost	
violations: Lack of		audited for denied					expresses a penalty for denied freedom of association	
freedom of		freedom of association					based on a review of penalties from five different legal	
association							systems and adjusted based on the square root of the	
							corresponding countries' population to express a global	
							penalty. Restoration and compensation are not included	
							so as not to double count the impact of freedom of	
							association with the other social impacts.	





The Impact Economy Foundation accelerates the transition towards the Impact Economy, an economy that harnesses the power of markets, entrepreneurship and innovation for the common good. In the Impact Economy, every enterprise is an impact enterprise.

To create this shift, IEF redefines value and success in business and the economy: from maximizing short-term financial gain to optimizing societal value. IEF develops the instruments, movement and incentives for the Impact Economy.

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