

Measuring and understanding sustainability within the project

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Programme



Introduction – Flavie Lowres, FIS Sustainability Champion

How can we improve the measurement of project impact Elina Grigoriou, Grigoriou Interiors

Why we need an agile approach to measuring impact Nick Woodmore, Sustainability Design Manager, Overbury

The SKA Philosophy

Iain McIlwee, CEO, Finishes and Interiors Sector





Elina GrigoriouGrigoriou Interiors

How can we improve the measurement of project impact

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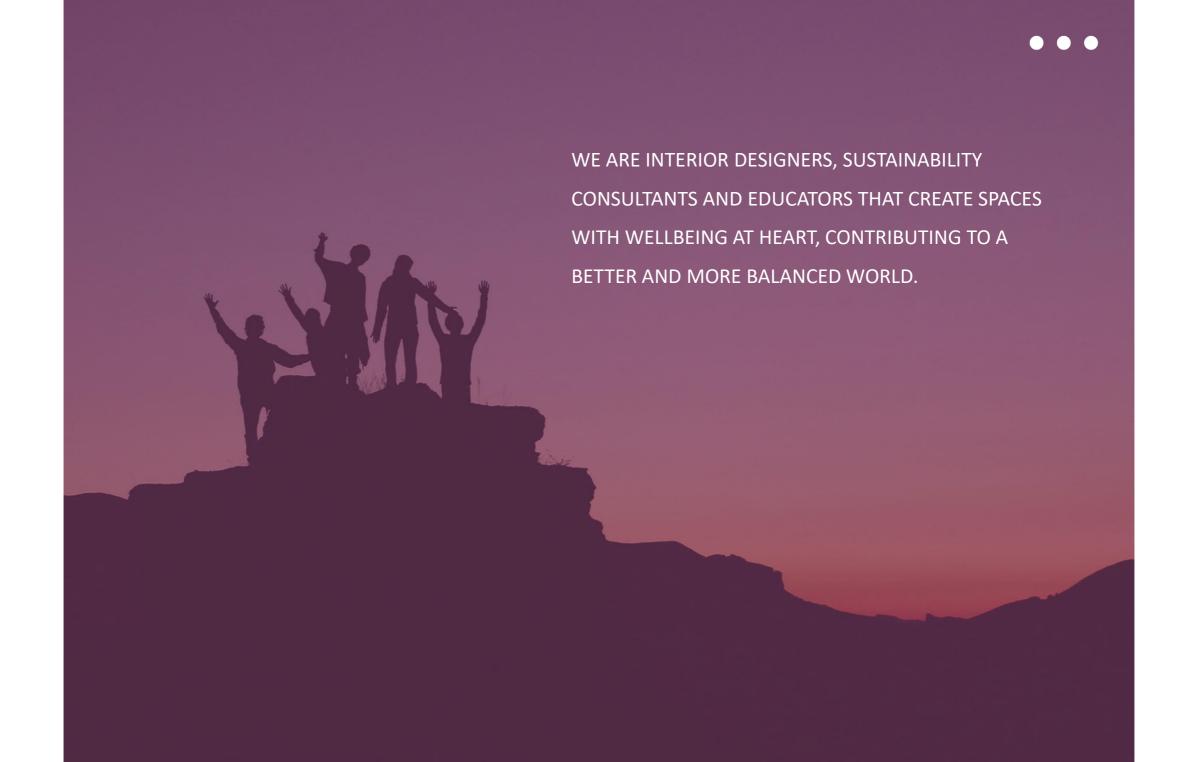




DESIGNING AND PRESERVING A BEAUTIFUL WORLD

Through improving projects' impact measurement.



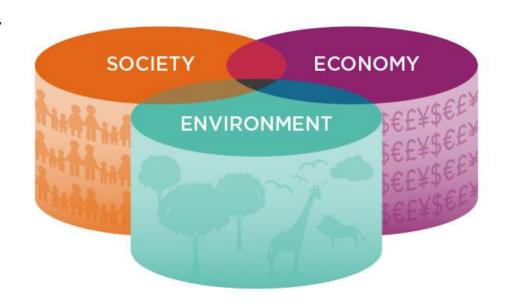


OUR APPROACH AND METHODOLOGY

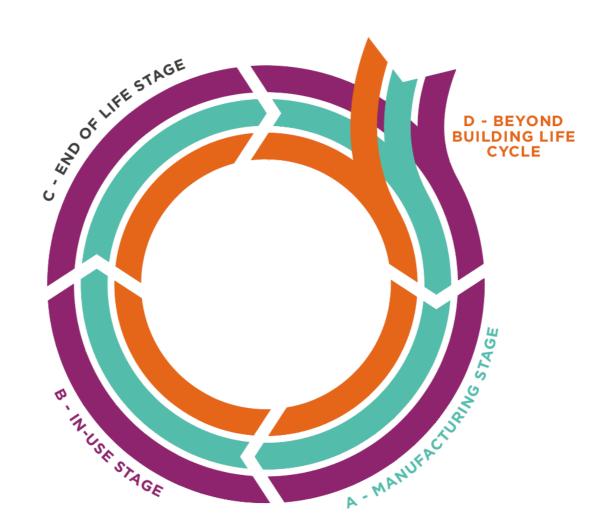
3 PILLARS OF SUSTAINABILITY

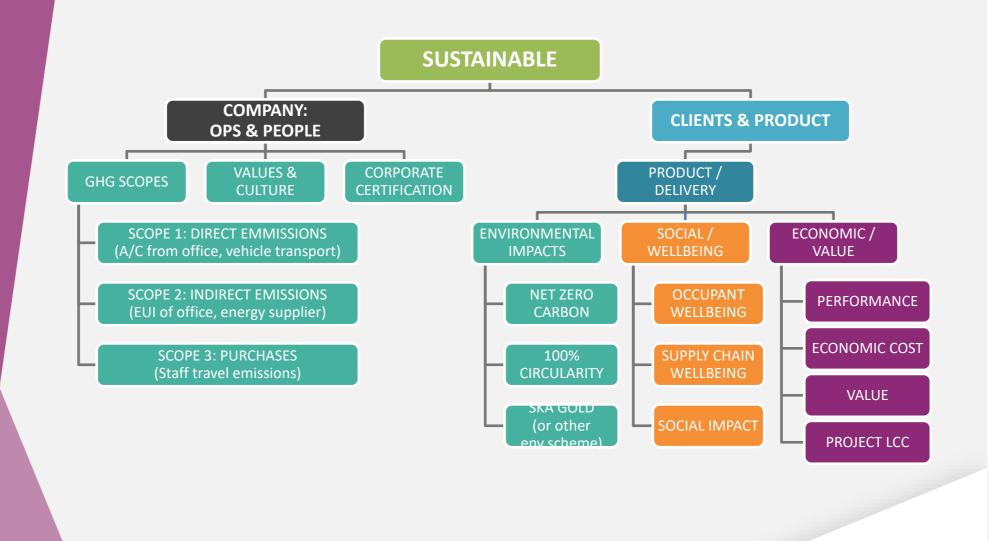
USER-CENTRED DESIGN

SYSTEMIC CHANGE



DESIGN SYSTEMIC LIFECYCLE THINKING



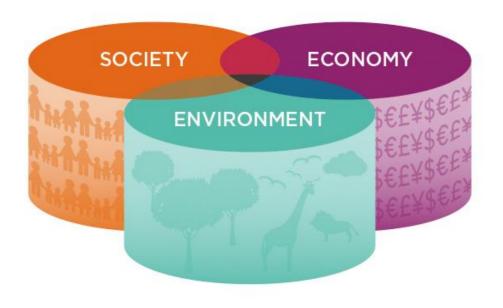






HOW CAN WE IMPROVE THE MEASUREMENT OF PROJECT IMPACT?

Fitwell WELL 'a better place'



SROI measurement RICS Life-cycle costing tool

SKArating

BREEAM

LEED

Whole Life Carbon Assessments

There are 3 live schemes:

SKA Retail v1.0 SKA Offices v1.2 SKA HE v1.0 Pilots

SKA is aimed at:

- Category A and category B fit-outs
- Light refresh of retail spaces
- Full owner-occupier refurbishments



Key benefits

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Provide an effective and robust system to report environmental impacts.



Reduce in real terms the negative impact of fit-out project delivery



Create systemic change in design and delivery of fitouts



Create better Value for clients, true savings and better spaces in operation



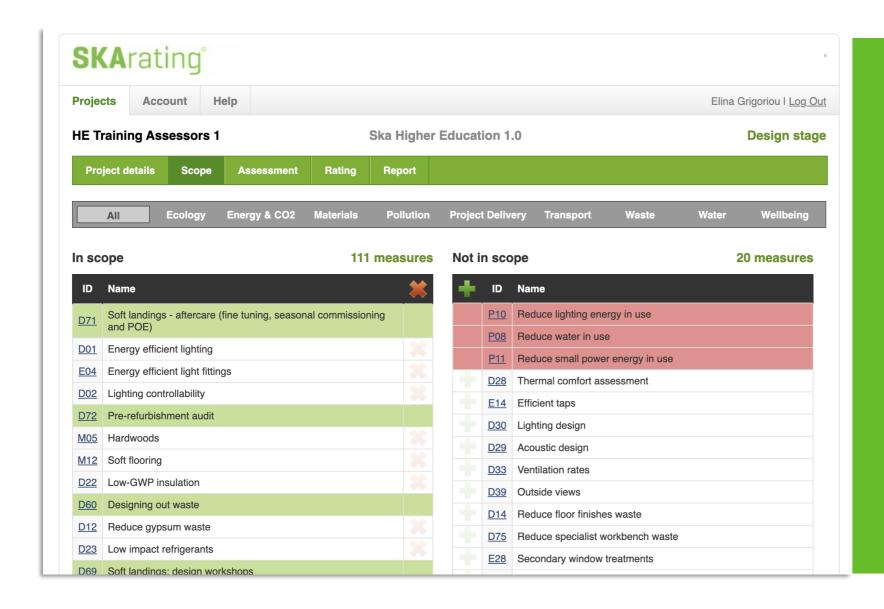
Enable CSR robust and credible reporting and align with new regulatory requirements and antigreenwashing



Increase asset value and retain value over time and multiple life cycles

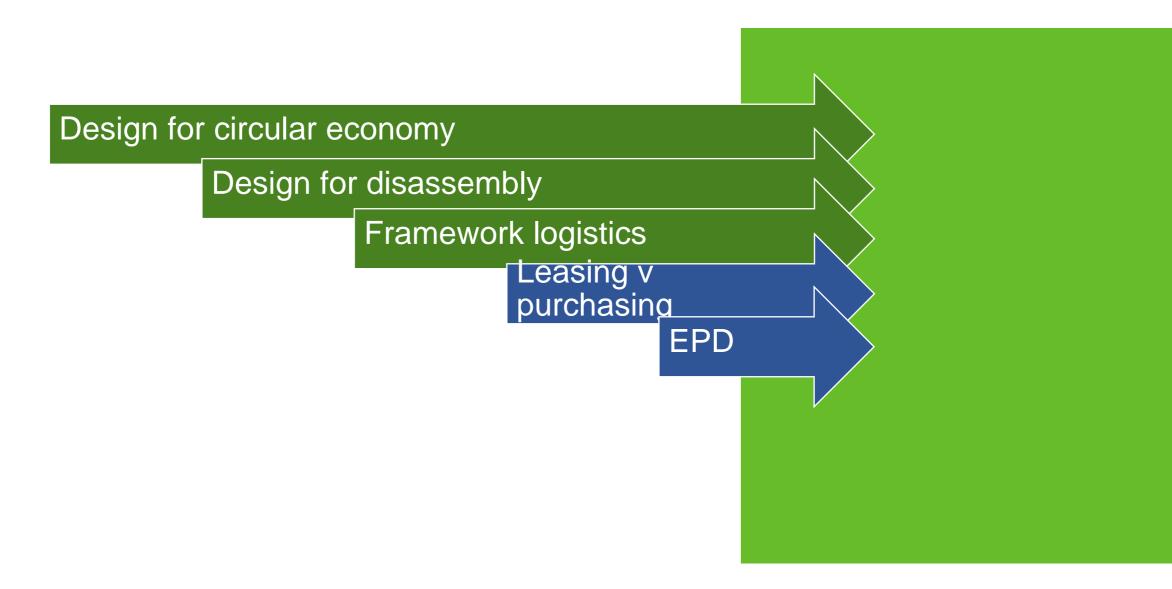






- Project Driven
- Incentivise Good Practice
- Robust scoring system
- Easy to use
- Free to use





SUSTAINABILITY CONSULTING & SKA RATING ASSESSMENT

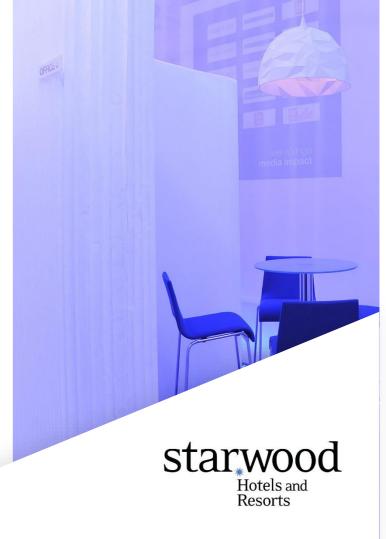


HUCKLETREE DESIGN CONCEPT & SKA RATING ASSESSMENT

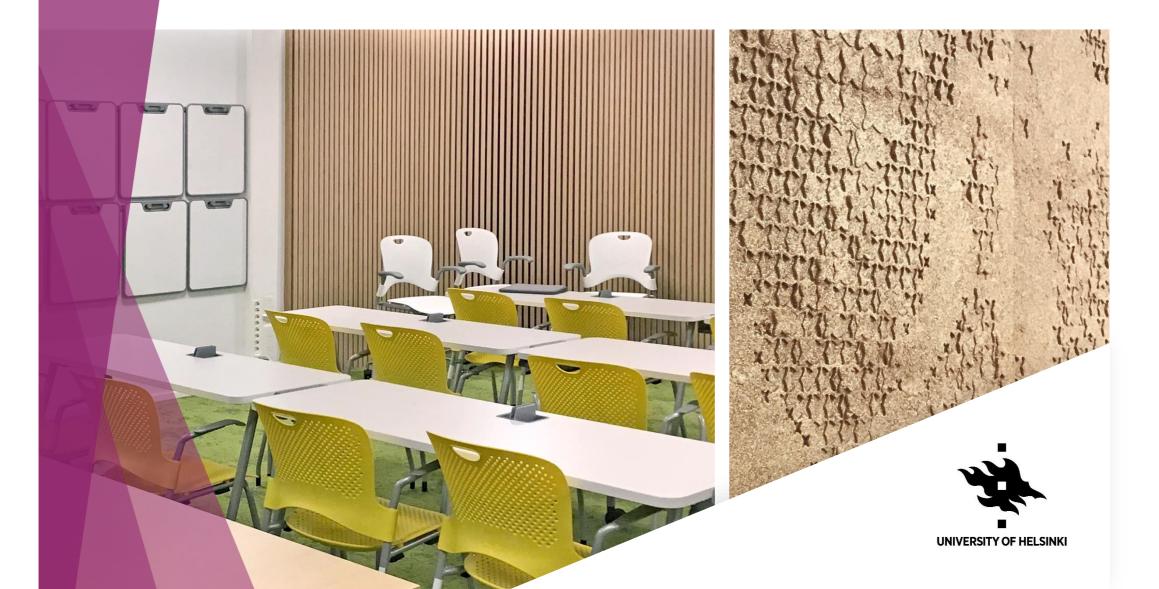


INTERIOR DESIGN & SUSTAINABILITY CONSULTING

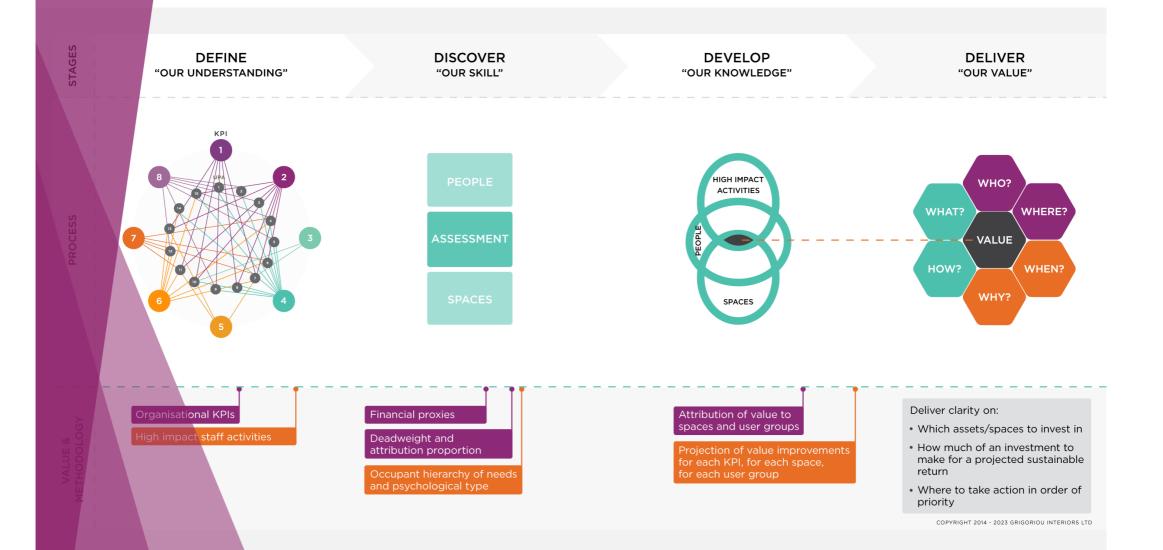




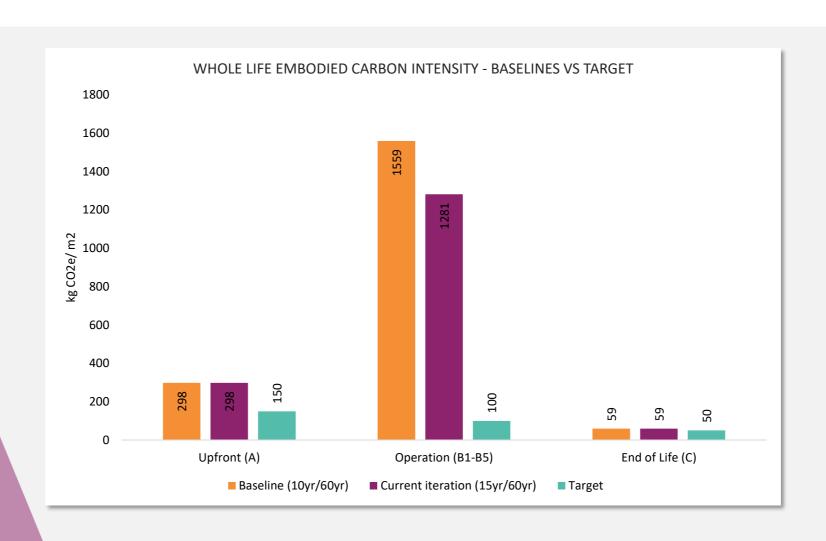
INTERIOR DESIGN & PERFORMANCE MEASUREMENT



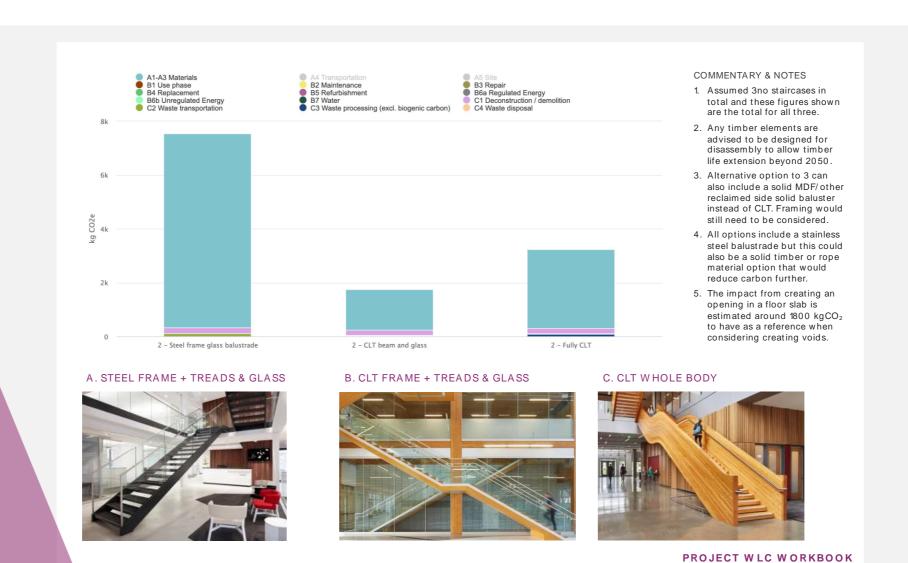
INTERIOR DESIGN & PERFORMANCE MEASUREMENT



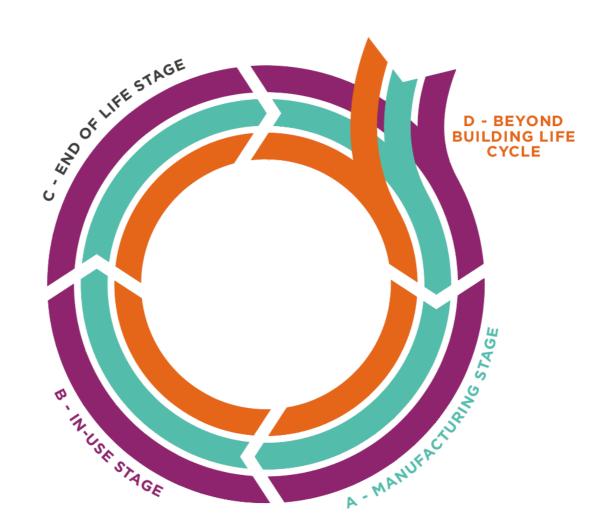
REAL ESTATE & PROJECT NET ZERO STRATEGY & WLC MEASUREMENT



REAL ESTATE & PROJECT NET ZERO STRATEGY & WLC MEASUREMENT



DESIGN SYSTEMIC LIFECYCLE THINKING









Nick Woodmore
Sustainability Design Manager
Overbury

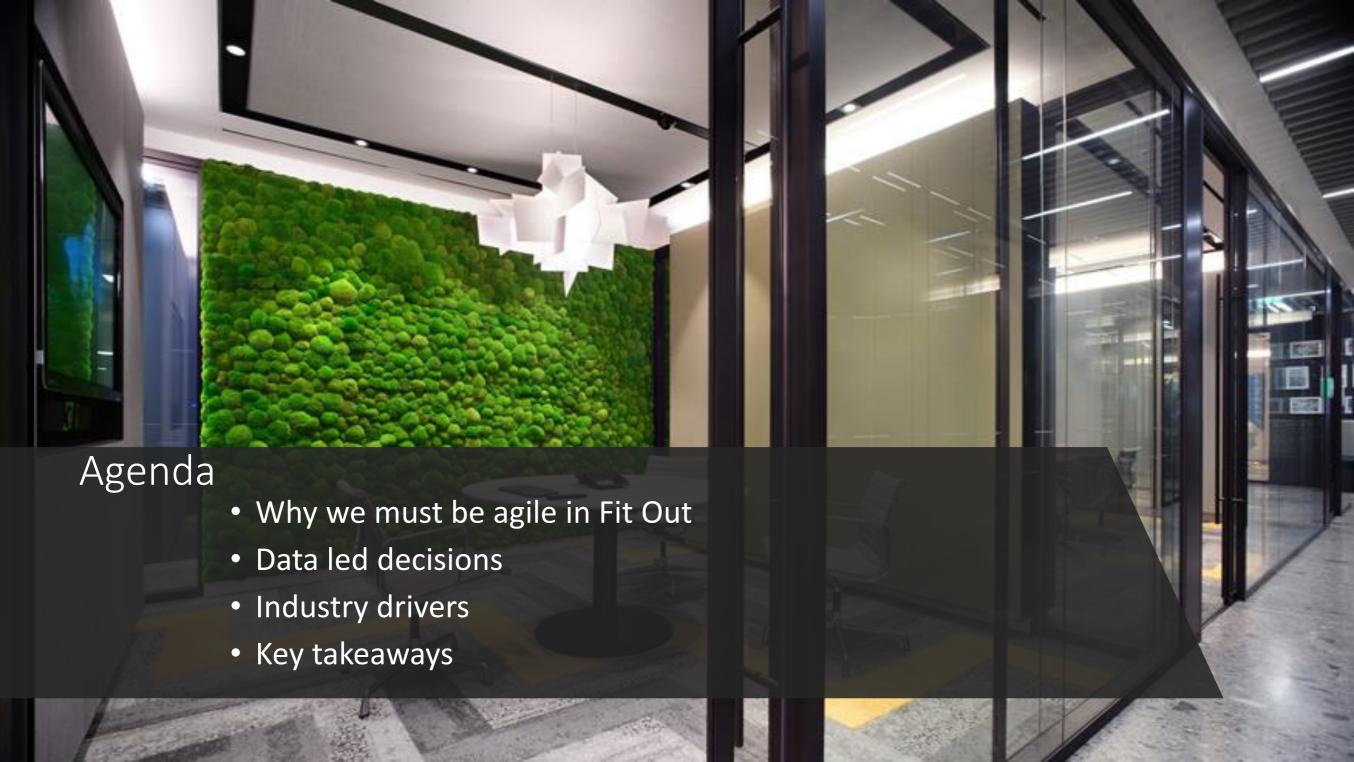
Why we need an agile approach to measuring impact

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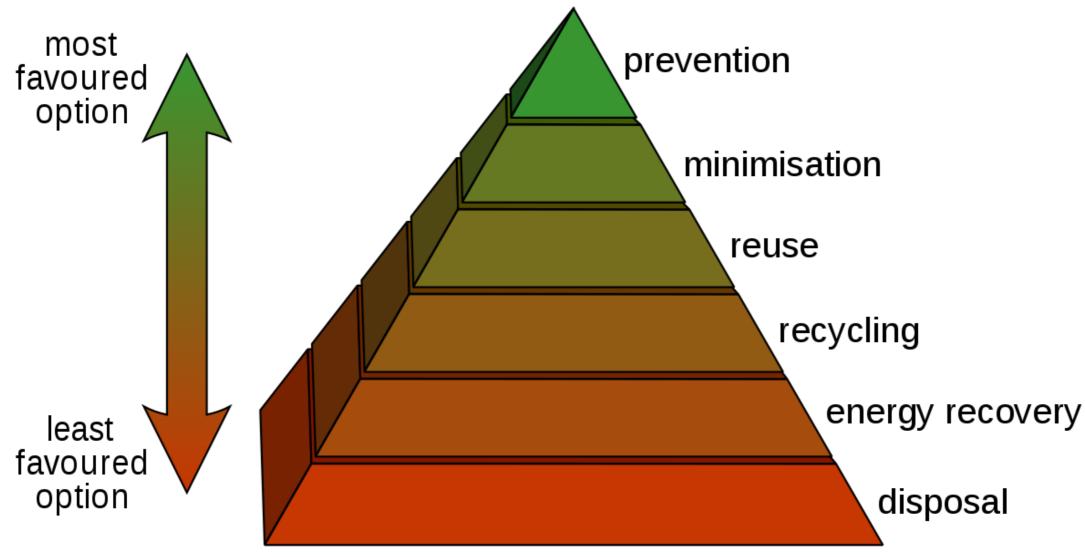


28/02/20234 overbury.com





Establish a hierarchy





Why is Carbon a key focus?

- 2023 World Economic Forum report 6 of top 10 risks to investment were related to climate, and the top was climate action failure.
- Based on different scenarios, we risk seeing temperatures rise in the 21st century by between 1.8 and 4C.
- UK Government committed to Net Zero by 2050.
- 60 of the FTSE100 companies have signed up to the United Nation's Race to Zero campaign
- 2021: EU committed to cut carbon emissions by at least 55% by 2030, compared with 1990 levels.
- 2021: US to cut carbon 50-52% below 2005 levels by the year 2030.
- The built environment contributes around 40% of total carbon emissions in UK.
- 80% of the 2050 building stock already exists today

Scope 1, 2 and 3 Emissions

Scope 1

- Fuel combustion
- Company vehicles
- Fugitive emissions

Scope 2

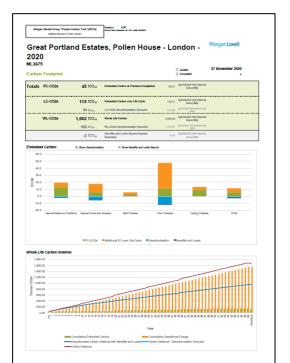
 Purchased electricity, heat and steam

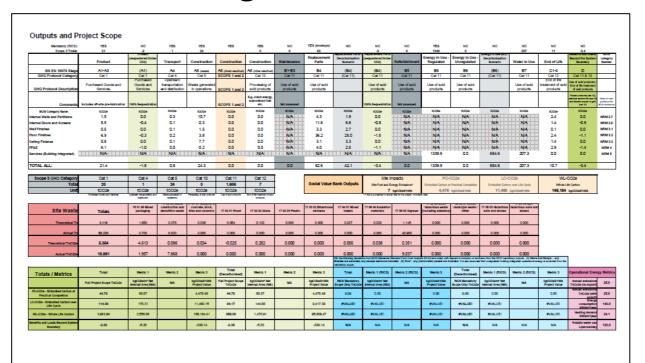
Scope 3

- Purchased goods and services
- Business travel
- Employee commuting
- Waste disposal
- Use of sold products
- Transportation and distribution (up- and downstream)
- Investments
- Leased assets and franchises

Carbon Tool

- We have developed a carbon tool that can calculate the embodied carbon of a project - Carbon/ca
- Using the quantities of all materials and products going into a project; waste info, energy used on site etc
- Written in line with RICS Whole life carbon guidance.





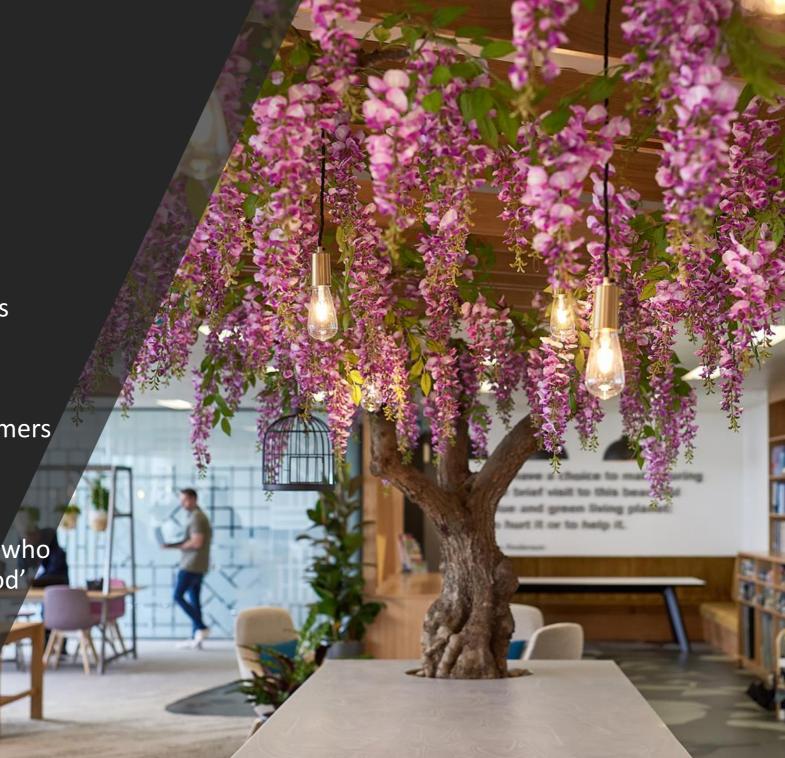
The occupier is key

3 key drivers:

1. <u>Investors</u> - Increased pressure/expectations from investors/funds on ESG metrics.

2. <u>Customers</u>- Increased pressure from customers for brands who act responsibly.

3. <u>Staff</u> - Increased pressure from employees who want to work for organisations that 'do good' and/or 'have purpose'.



Certifications are vehicle for clients to relay what's important

1. Environmental

- BREEAM
- LEED
- SKA (Fit out only Offices, Retail or HE)

2. Wellbeing

- WELL Building
- Fitwel

3. Energy / Operational Carbon

- BREEAM In Use
- NABERS (performance)
- EPC (Design only)

What if Eutrophication became the key focus tomorrow?

	Product stage
Parameters	A1 /A2 /A3
Global Warming Potential (GWP 100)- kg CO₂ equiv:FU	1.89
Ozone Depletion (ODP) kg CFC 11 equiv.FU	5.38E-08
Acidification potential (AP) kg SO ₂ equiv/FU	7.17E-03
Eutrophication potential (EP) kg (PO	2.71E-03





environmental imp En 15804 + A1	ACTS	Unit	A1 - A3
Global warming potential	GWP	kg CO2-eq	2.86E+00
Depletion potential of the stratospheric ozone layer	ODP	kg CFC11-eq	3.18E-07
Acidification potential of land and water	AP	kg SO2-eq	7.63E-03
Eutrophication potential	EP	kg PO43-eq	1.14E-03

Key Takeaways

Establish a hierarchy

Look to gather data before it's needed

Market drivers are key, we need to predict trends early





Iain McIlweeChief Executive, FIS

The SKA philosophy

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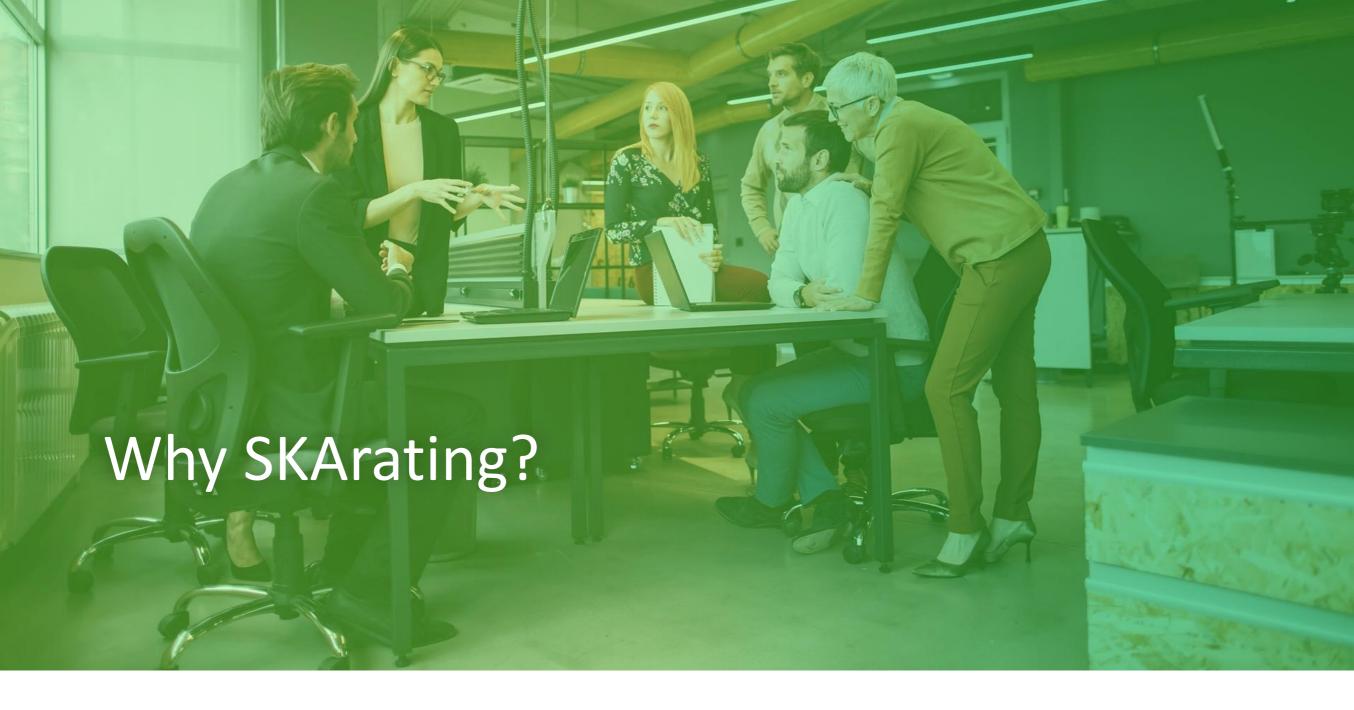


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The SKArating Philosophy

28 February 2023, Iain McIlwee





SKArating[®]

Our Purpose

- To reduce the negative environmental impact, and increase the positive economic and social impact of the fit-out sector.
- To operate a sustainability rating tool owned by the fit-out industry for the fit-out industry.
- To promote good practice across the sector and evolve SKA Rating to meet changing sustainability requirements'
- To reinvest revenue generated in developing the tool and its impact





Good Practice Measures for Offices



Contents

The Good Practice Measures for Offices are arranged by issue alphabetically and within each issue by Ska rank from highest to lowest.

An alternative contents list follows that presents the Good Practice Measures for Offices in order of Ska rank from highest to lowest.

Issue	Ska rank	Ska ID	Good Practice Measure	Page	
Energy & CO ₂					
	1	P10	Reduce lighting energy in use	9	
	2	P11	Reduce small power in use	12	
	4	D01	Energy efficient lighting	14	
	5	D02	Lighting controllability	15	
	6	E01	Lighting controls	16	
	10	E02	Energy efficient lamps	17	
	18	E05	Energy efficient heat pumps	19	
	27	E07	Pipework insulation	20	
	28	E08	Tenancy sub-metering	21	
	29	E04	Energy efficient light fittings	23	
	30	E06	HVAC zone controls	25	
	41	E09	End-use sub-metering	26	
	44	E22	IT and comms room energy consumption	28	
	48	D03	Energy efficient HVAC	30	
	49	D66	Energy modelling	32	
	59	D53	Electrical management	33	
	68	E11	Efficient boilers	35	
	69	D04	Daylighting	36	
	70	E24	Energy efficient hand-dryers	37	
	71	D05	Energy efficient DHW	38	
	86	P01	Reduce fit-out energy use	40	
	105	P09	Display Energy Certificates (DECs)	41	
Material	s				
	11	M05	Hardwoods	42	
	21	D20	Timber	44	
	35	M07	Raised flooring systems	46	
	45	M01	Blockwork	48	

Ska Offices 1.2

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Daylighting



Criteria

Average daylight factor is 2% or greater.

Scoping

This measure applies if alterations are made to the building façade, with the opportunity to redesign glazing.

The criteria apply only to occupied floor spaces such as office/ workshop spaces. The criteria do not apply to circulation spaces or non-occupied spaces such as toilets and store rooms.

Assessment

At design stage: obtain calculations demonstrating the daylight factor achieved, supported by elevations and floor plans.

At handover stage: review the as-built drawings to ensure that the designs have been implemented. If the as-built drawings are not the same as the design, then the contractor may need to provide updated calculations to demonstrate that the installed glazing still meets the criteria.

At occupancy stage: this measure is not assessed. The measure is achieved by default if it was achieved at handover stage.

Rationale

Effective use of available daylight reduces the need for artificial lighting and provides a more natural environment for building occupants. Although there is no maximum daylight factor it should be recognised that "flooding" natural light into a workspace is not good practice.

Guidance

Lighting for buildings. Code of practice for daylighting, BS 8206-2:2008. BSI, 2008.

Lighting Guide 10: Daylighting and Window Design, CIBSE, 1999.

Fit-out Benchmark & Assessment Tool

Energy and CO₂

Issue

D04

Rank

Ska Offices Version 1.2 2013

www.rics.org/ska

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Our Values



SKArating's principle client is the planet. We will use our influence to nudge the industry by constantly evolving good practice. We won't just do what the industry asks of us.



Transparency

SKArating Ltd will be fully transparent on who is providing funding, what we are doing with the funding and what we are doing the with insights we collect.



We want everyone to get something from SKArating





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