

## IEMA Practitioner Standard Learning Outcome 1

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Watts Sustainability works with clients helping them understand what their sustainability risks and opportunities are, helping them listen to and engage their staff, clients and communities and making the most of opportunities presented by working more sustainably.

### Who we work with















## **IEMA Practitioner standard**

- What is an IEMA Practitioner?
- An overview of LO1?
- A flavour of the type of material that will be covered
- Q&A

## What is an IEMA Practitioner?

## What is an IEMA Practitioner?

The benchmark for environment and sustainability professionals with sleeves rolled up; membership for the working experts who are driving change.

Practitioner membership puts you at the heart of our global community. It recognises everything you're doing to help make your business future-proof, while giving you the practical support you need.

- Practitioner (PIEMA)
- Registered PIEMA (REnvP)



## Why we need Practitioners... Climate change, we have the solutions we need to implement them

IDCC INTERGOVERNMENTAL PANEL ON Climate change Climate Change 2022

Mitigation of Climate Change Summary for Policymakers





orking Group III contribution to Sixth Assessment Report of the overnmental Panel on Climate C Final warning: Greenhouse gas emissions must **peak by 2025** 

Investment in the shift to a low-carbon world is **about six times lower** than it needs to be.

The final cost of doing so will be minimal )a few percent of global GDP by mid-century) though it will require a **massive effort** by governments, businesses and individuals.

All sectors of the global economy, from energy and transport to buildings and food, must change **dramatically and rapidly** 

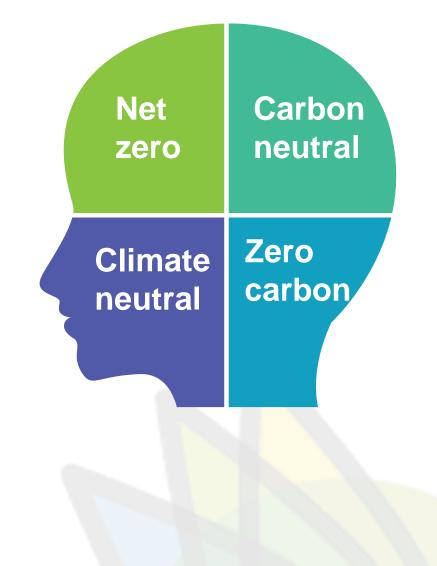
### Why we need Practitioners... Meaningful net-zero

Historic low standards for transparency among net-zero targets can create **haven for greenwashing** 

64%

Proportion of the UK public unaware of the concept of 'net zero' Only 12% are informed\* on it

BEIS, March 2021: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_d ata/file/884028/BEIS\_PAT\_W33\_-\_Key\_findings\_Final\_.pdf \*informed = know a lot/a fair amount about it



## Why we need Practitioners... – 60% of the world's Christmas decorations...

...are made in the Chinese village of Yiwu and sold in the nearby market complex.

The complex was declared by the UN to be the "largest small commodity wholesale market in the world"

### **Does globalisation create** acceptable trade-offs?

E.g. manufacturing exported to territories with less stringent pollution control laws?



Why we need Practitioners... We don't value nature properly

### **Pollination by insects is free...**

when it's gone we have to pollinate crops by artificial means – using machinery, labour and fossil fuels

An independent review by 29 scientists with the International Union for the Conservation of Nature in the USA found **neonicotinoids** (used together with GM crops) are **gravely harming bees**.

Far from protecting food production, the use of neonicotinoid insecticides is threatening the very infrastructure which enables it.



### Practitioner standard (and skills map): core **knowledge** competencies



### Core knowledge

- 1. Explain the implications of global trends for the environment, for society, for the economy and for organisations.
- 2. Explain sustainable business/governance models, their underlying principles and their relationship with organisations, products and services.

## Practitioner standard (and skills map): core **knowledge** competencies



- 3. Explain environmental/socio-economic principles and their relationship with organisations, products and services.
- 4. Explain major policy and legislation and their implications for organisations, products and services.
- 5. Explain major and relevant tools, techniques, systems and practices, their application and how they can be used to develop sustainable products and services and improve sustainability performance.
- 6. Explain the role of innovation and other leading practices in developing sustainable products and services and providing sustainable solutions.

## Practitioner standard (and skills map): core **skills** competencies



- 7. Collect and critically analyse data and report information that informs decision-making.
- 8. Identify problems and assess opportunities that deliver innovative and sustainable products and services.
- 9. Determine, implement and measure methods of effective communication.
- 10. Identify and engage in two-way communication with stakeholders.
- 11. Apply or implement tools, techniques, systems and practices that identify opportunities and risks.
- 12. Deliver projects and programmes that achieve performance improvement.

13. Implement change and transformation.

An overview of Learning Outcome 1 from the IEMA Practitioner Standard

### Practitioner Standard in Detail

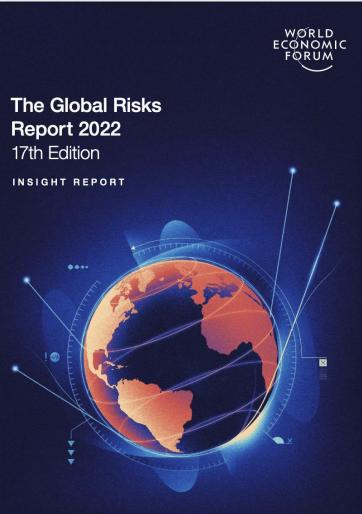
### Core Knowledge

Learning Outcome (the learner	Assessment criteria (the learner will be able to demonstrate	Prescribed Content (the learner will be familiar
will)	knowledge by)	with)
Fundamentals of Sustainability		
<ol> <li>Explain the implications of global trends for the environment, for society, for</li> </ol>	1.1. Explaining the global mega-trends driving the need to transform the world to sustainability	Mega Trends: Climate Change (GHG and climate consequences), population, global middle class, urbanisation, pivot to asia-pacific market,
the economy and for organisations and the role of an	1.2. Explaining the concept of sustainable development	resource scarcity, biodiversity loss
Environment/Sustainability practitioner in overcoming these challenges	1.3. Explaining how the UN's Sustainable Development Goals provide a framework for action	Sustainable Development: Brundtland definition; triple bottom line (environment, society and economy)
	1.4. Describing the five sustainable capitals and the dependencies between them	Sustainable Capital: Natural, Social, Human, Financial and Manufactured/Built
	1.5. Explaining how environmental limits and the equalities agenda are fundamental to maintaining economic growth and sustainable capital	Environmental Limits: Planetary boundaries concept (Stockholm Institute)
	1.6. Explaining how current economic activity regularly creates unintended environmental and social consequences, locally and globally	Sustainability Skills: IEMA Skills Map (overview of all the various skills required and introduction to module 3 where skills will be explored in further detail)
	1.7. Describing the role of an Environment/Sustainability practitioner and how this requires the application of sustainability skills to overcome internal and external challenges	

# Selection of content from Learning Outcome 1

## WEF Global Risks – 2022 update!

1 Climate action failure	6 Infectious diseases	
2 Extreme weather	7 Human environmental damage	
3 Biodiversity loss	8 Natural resource crises	
4 Social cohesion erosion	9 Debt crises	
5 Livelihood crises	10 Geo-economic confrontation	

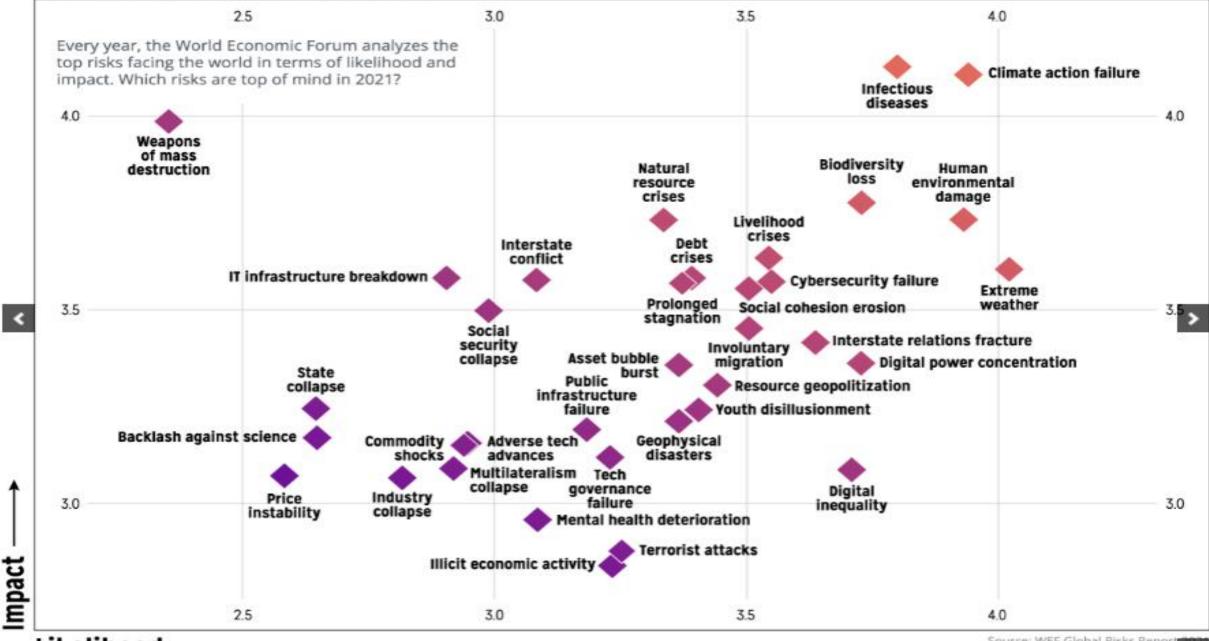


In partnership with Marsh McLennan, SK Group and Zurich Insurance Group

## Global Risks 2022 (and its only April)



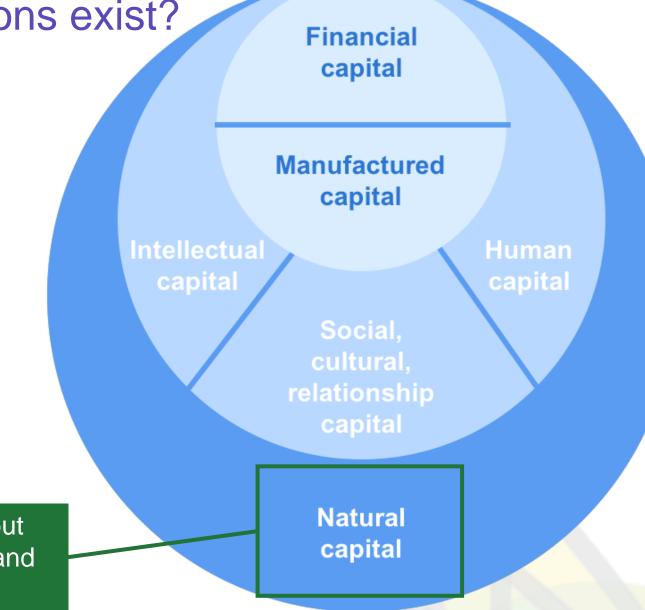
### **2021 Global Risks Outlook**



Likelihood ——

Source: WEF Global Risks Report

## Do sustainable organisations exist? 6 Capital model

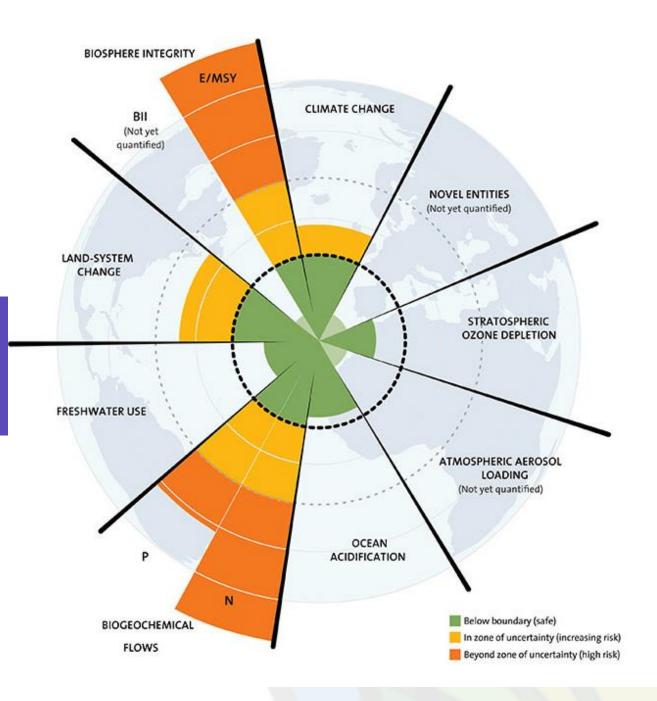


Life, society and business critical – but **totally failed** by modern capitalism and economics

## Current state of natural capital

The nine planetary boundaries humanity must respect to keep the planet habitable

(Diagram from Stockholm Resilience Centre)

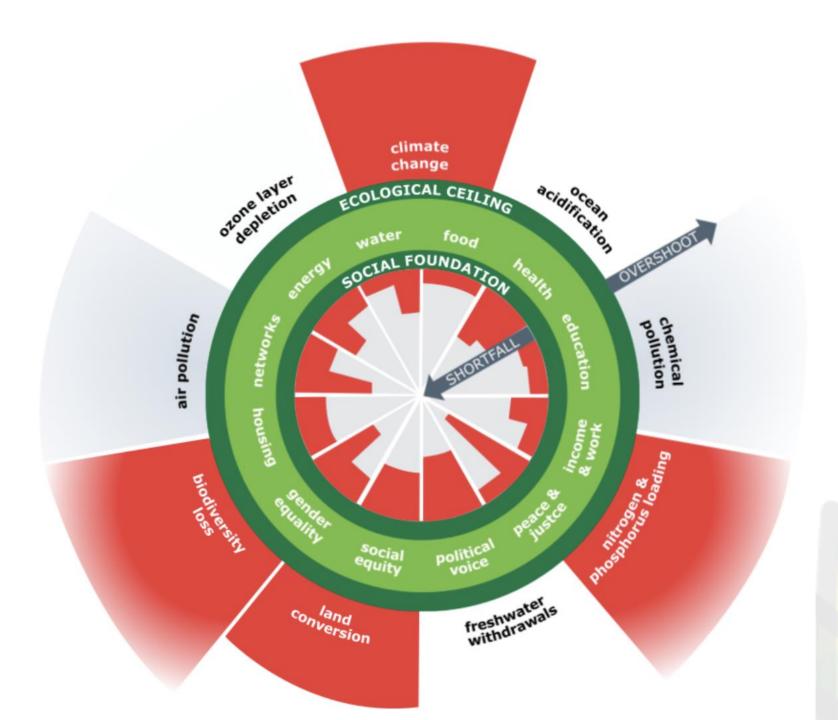


## Doughnut Economics: a model for sustainability

A vision for what it means for humanity to thrive in the 21<sup>st</sup> Century

"At the centre of the image is a space of critical human deprivations – such as hunger, illiteracy, poverty, and voicelessness. The first priority must be to ensure that all people are free from such deprivations, and are empowered with the rights and resources needed to provide a social foundation for leading lives of dignity, opportunity and fulfilment." Kate Raworth, Oxfam





## The United Nations Sustainable Development Goals and organisations

### The 17 goals provide a shared blueprint for peace and prosperity for people and the planet, now and into the future

- The Goals provide an approach for organisations and governments to frame sustainability issues
- Organisations all over the world are using them as an easily understood and communicable framework



## Goal 13 – Climate action – underlying targets



### STRENGTHEN RESILIENCE AND ADAPTIVE Capacity to climate related disasters

Strengthen resilience and adaptive capacity to climaterelated hazards and natural disasters in all countries.



### TARGET 13.2



### INTEGRATE CLIMATE CHANGE MEASURES INTO Policies and planning

Integrate climate change measures into national policies, strategies and planning.





### BUILD KNOWLEDGE AND CAPACITY TO MEET Climate Change

Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning.



## IMPLEMENT THE UN FRAMEWORK CONVENTION ON CLIMATE CHANGE

Implement the commitment undertaken by developedcountry parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible.



TARGET 13.B

### PROMOTE MECHANISMS TO RAISE CAPACITY FOR Planning and management

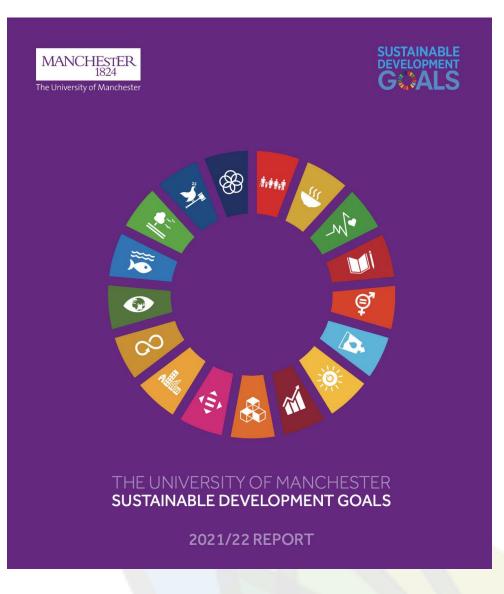
Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities.



### Case-study: University of Manchester and the SDGs

### **Integrating the SDGs through:**

- Research linking publications to SDGs
- Teaching building SDGs into curricula
- Public engagement with local communities
- Campus operations SDGs in policies (from HR to energy management)



### Case-study: University of Manchester and the SDGs

Bevelopmer Report for

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RESEARCH

### End poverty in all its forms everywhere

A Human Development Report

We published the Human Development

for Greater Manchester

Report for Greater Manchester in

across three themes of health.

June 2017. The report mirrors the

UN approach by measuring human

development in Greater Manchester

through school to adulthood, midlife,

older working age and old age. The

knowledge and standards of living. It also

examines key life stages from early years

#### director of the UN's Human Development Report Office.

**Global Development Institute** 

institute focused on poverty and

inequality. The GDI runs the Effective

States and Inclusive Development

investigates how politics promotes

inclusive development and government

suggests that countries with the highest

(ESID) Research Centre, which

accountability. Recent research

government capacity can reduce

Our Global Development Institute (GDI)

is Europe's largest research and teaching

Khalid Malik former

#### PUBLIC ENGAGEMENT



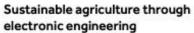


End hunger, achieve food security and improved nutrition and promote sustainable agriculture

#### RESEARCH

#### Food insecurity in the UK

Working with Manchester City Council, Cracking Good Food, Save the Children, Oxfam and other charities, our Cathie Marsh Institute for Social Research and Institute for Collaborative Research on Ageing conducted pioneering research to document food insecurity in the UK



The environmental impacts of intensive agriculture and a growing global population are increasing the need for more effective processes. Researchers in our Department of Electrical and Electronic Engineering are examining how determine engineering are institu-



#### PUBLIC ENGAGEMENT

#### Promoting good agricultural land management in Malawi

Our Department of Earth and Environmental Sciences is working with farmers in Malawi, some of the poorest in the world, to help share knowledge about plant and soil management through delivering free workshops and building a



## Questions

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