



Sustainability as a competence of Project Managers

GilbertSilvius - April 2024

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Experience

>20 years Training, Education and Research>25 years Projects and Project Management>35 years Management and Consultancy

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PhD (Utrecht University) MBA (Catholic University Leuven) MSc Economics (Erasmus University) Royal Military Academy

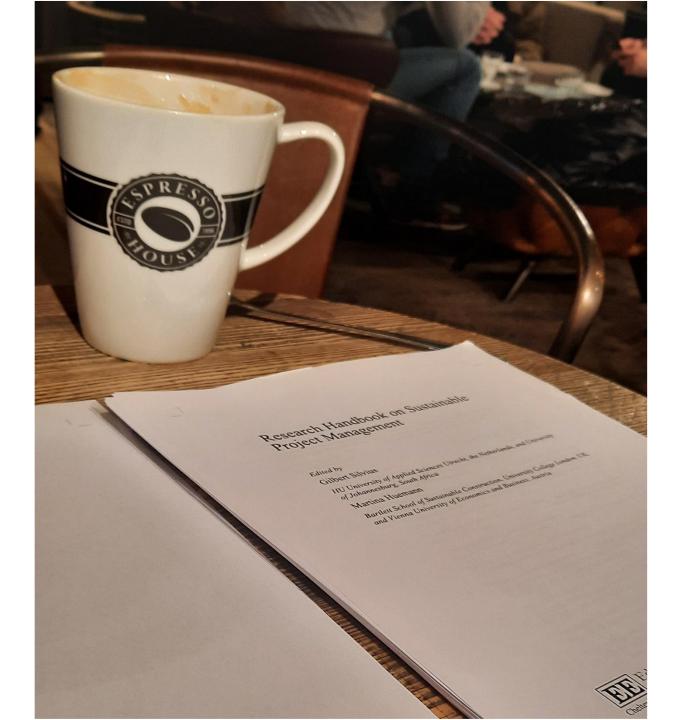
> **Specializations** Project Management Information Management



Higher Education

HOW SMALL THINGS GET DONE







Home - Research Handbook on Sustainable Project Management



Edited by Gilbert Silvius • Martina Huemann



Hardback

Research Handbook on Sustainable Project Management

Edited by Gilbert Silvius, HU University of Applied Sciences Utrecht, the Netherlands, and University of Johannesburg, South Africa and Martina Huemann, Bartlett School of Sustainable Construction, University College London, UK, and Vienna University of Economics and Business, Austria

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This Research Handbook provides a comprehensive overview of the role of project management in sustainable development. Examining how to successfully integrate sustainability into the processes and practices involved, it highlights the significant development in sustainable project management whilst exploring potential future directions for the field.

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sustainability



Sustainable

Project Management

In project management research

ELSEVIER



This dichotomy of sustainability by the project and sustainability of the project is a recurring theme in studies on project

there is the process or delivery of the project (Gareis et al., 2013).

lopment, 1987).

as tempor

CrossMark

- In project management research
- In project management **books**

susta





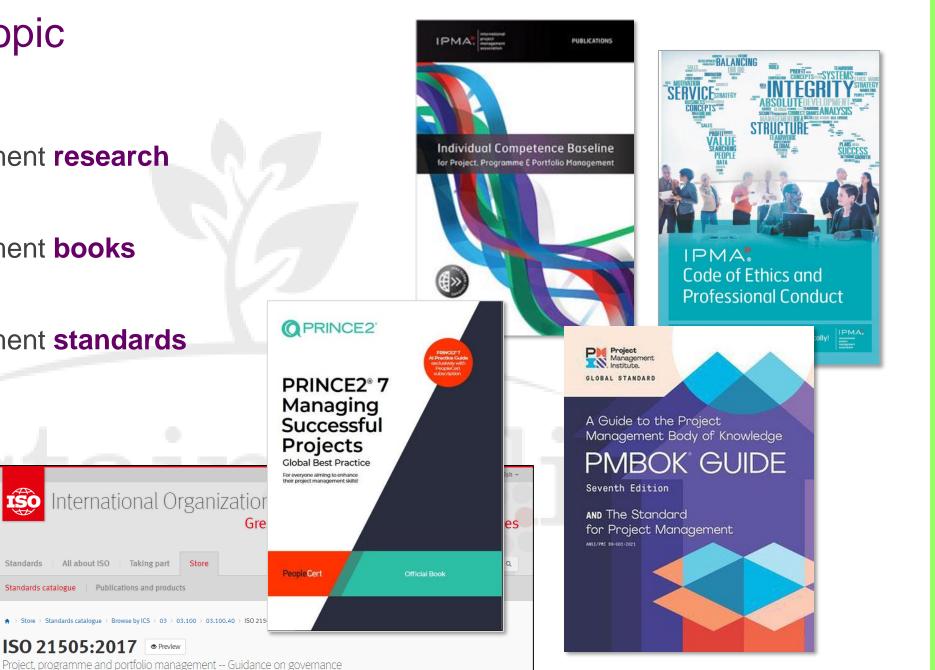
- In project management research
- In project management books
- In project management standards

All about ISO Taking part

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Standards





- In project management research
- In project management **books**
- In project management standards
- In project management practice





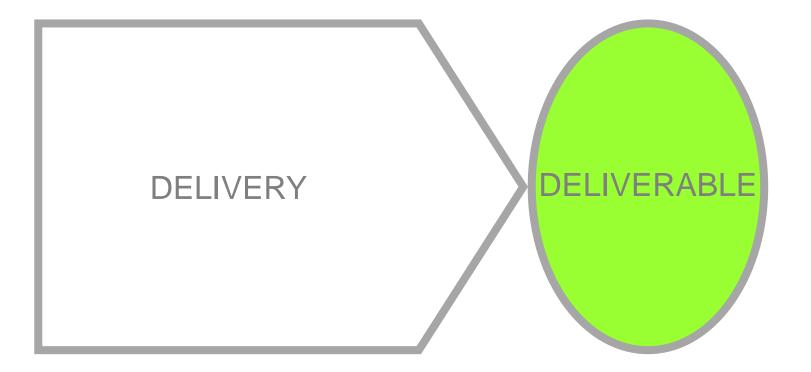
Sustainability needs Change is organized in Projects

Sustainability needs





Sustainability by the project





Management of *sustainable* projects

CLIMATE CHANGE AND WHAT THE PROJECT MANAGEMENT PROFESSION SHOULD BE DOING ABOUT IT

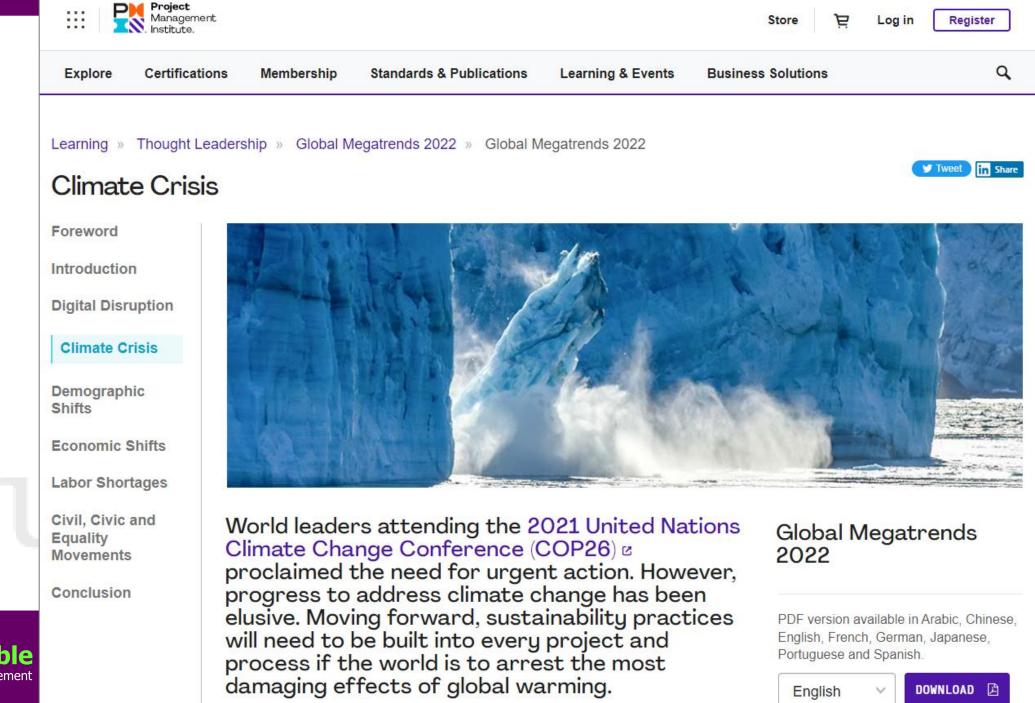
- A UK PERSPECTIVE

Peter W.G. Morris









S1

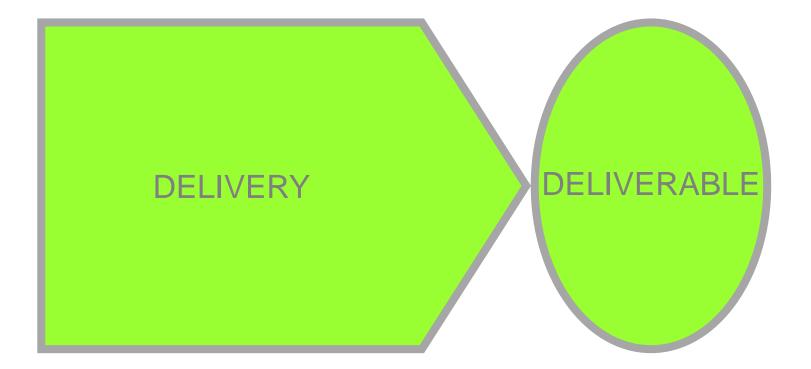


Sustainability 2 Projects

Sustainability 2 the planning, organizing, executing, controlling, and governing of Projects

Sustainable Project Management

Sustainability of the project





Sustainable management of all projects

Sustainable Project Management

Sustainable Project Management is

the planning, monitoring and controlling of project delivery and support processes,

with consideration of the environmental, economical and social aspects

of the life-cycle of the project's resources, processes, deliverables and effects,

aimed at realizing benefits for stakeholders,

and performed in a transparent, fair and ethical way

that includes proactive stakeholder participation.



Sustainable Project Management

Sustainable Project Management is

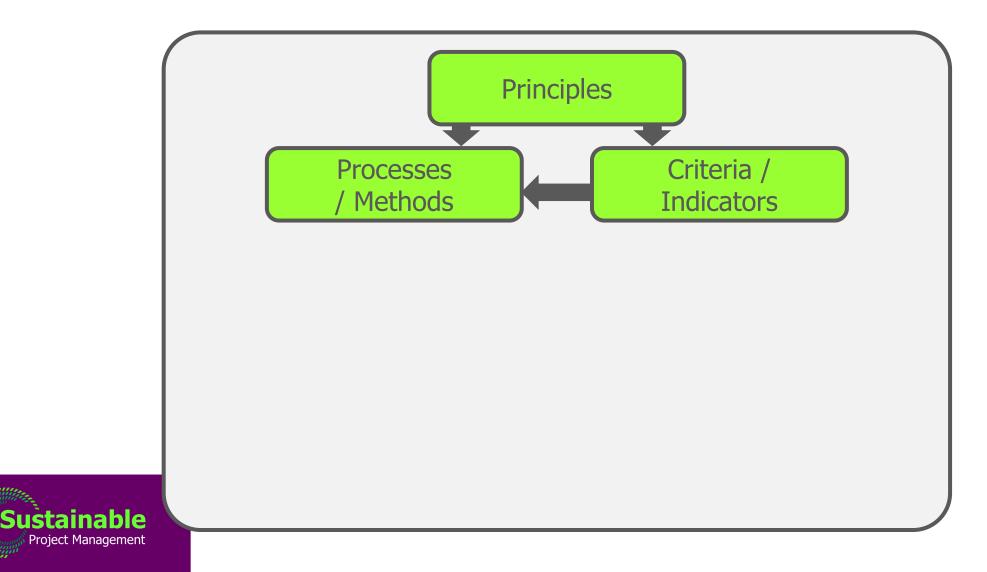
the planning, monitoring and controlling of project delivery and support processes,

with consideration of the environmental, economical and social aspects		Triple Bottom Line
of the life-cycle of the project's resources, processes, deliverables and effects,		Life-cycle orientation
aimed at realizing benefits for stakeholders,		
and performed in a transparent, fair and ethical way	Responsibility Accountability Transparency	Stakeholder orientation
that includes proactive stakeholder participation.		



. Silvius, A.J.G. and Schipper, R. (2014), "Sustainability in project management: A literature review and impact analysis", Social Business, 4(1), pp. 63-96.

Making sense of Sustainable Project Management





NVTL ----

Engaging with a broad group of stakeholders

STREET

A.C.

Call other

Movarins

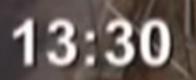
A KWS

Selection of recyclable materials

0.00

Design for Re-use

VK.tv



Consider economic, environmental and social impacts

A holistic business case



Considering diversity and inclusion of the team

PROCUREMENT

Rethinking procurement

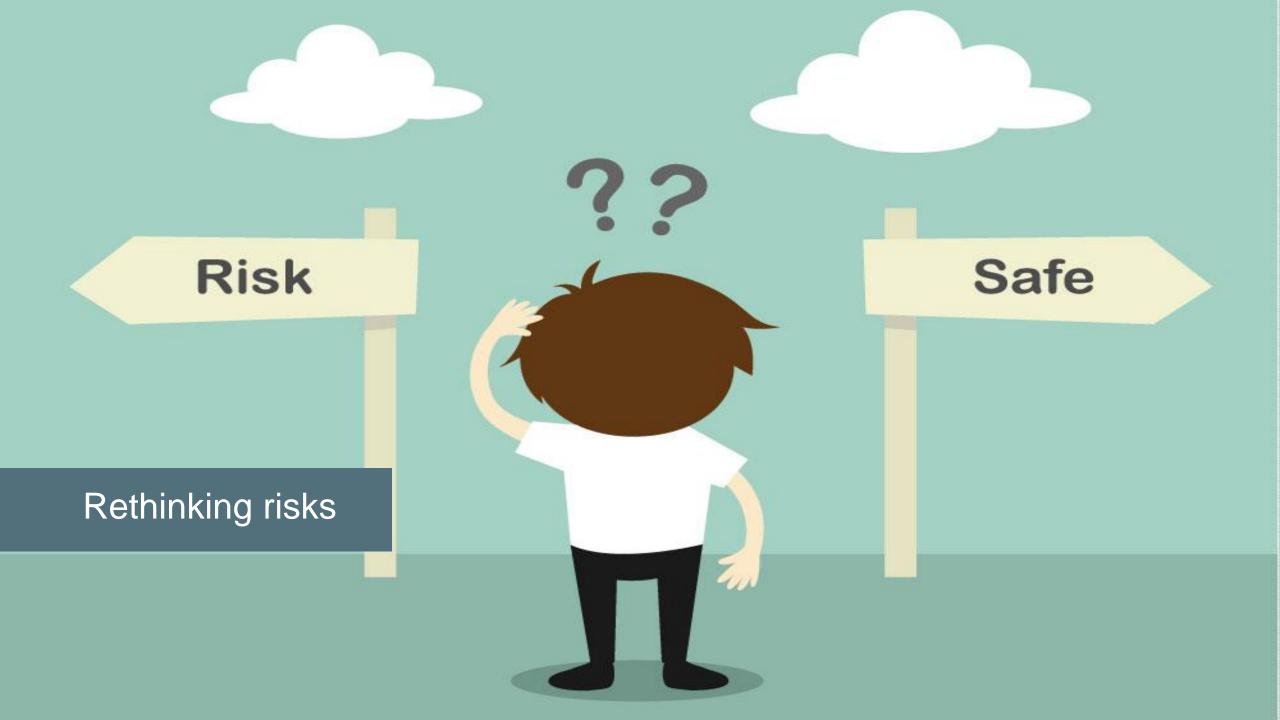
C

Rethinking transport

Rethinking packaging

A

Preventing waste





Optimizing on-site / off-site construction

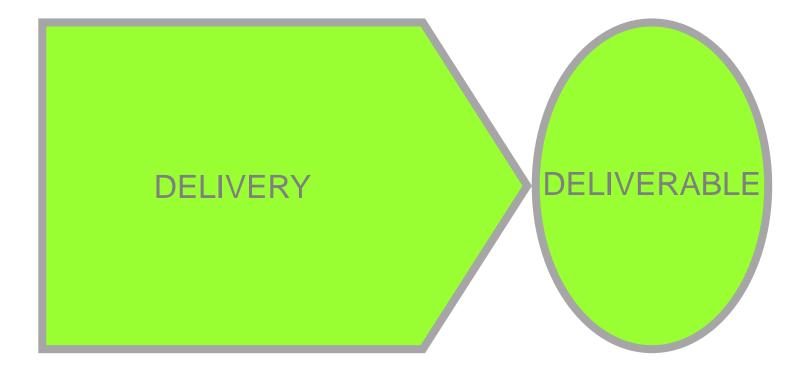


Flexible planning & scheduling

Wednesday

Q

Sustainable Project Management

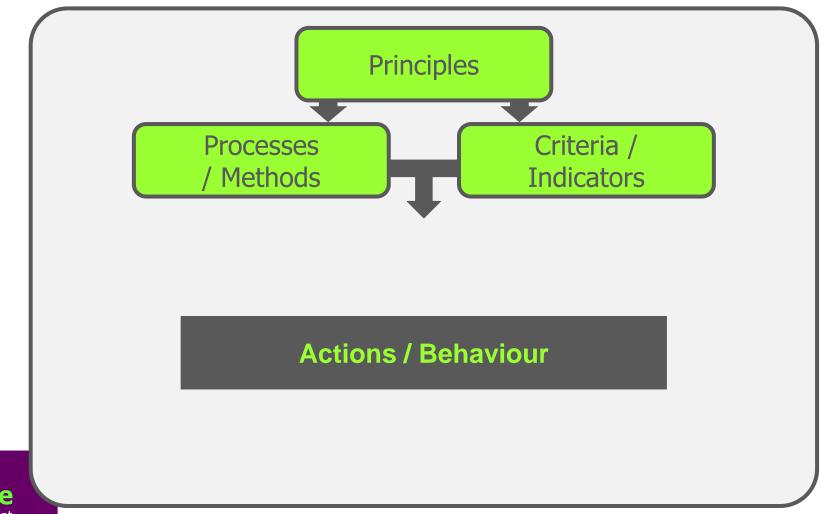




Sustainable management of all projects

Sustainable Project Management

Making sense of Sustainable Project Management





The role of the Project Manager?

"Project and Programme Managers are significantly placed to make contributions to Sustainable Management practices" (Association for Project Management, 2006: 7)

The Project Manager plays a "*pivotal role*" in the sustainability of the project (Maltzman and Shirley, 2013) "Today's project manager fulfils not only traditional roles of project management but also **must manage** the project in the most efficient and effective manner with respect to **sustainability.**" (Hwang and Ng, 2013:273)



The role of the Project Manager?

However, having the opportunity to act may not be enough

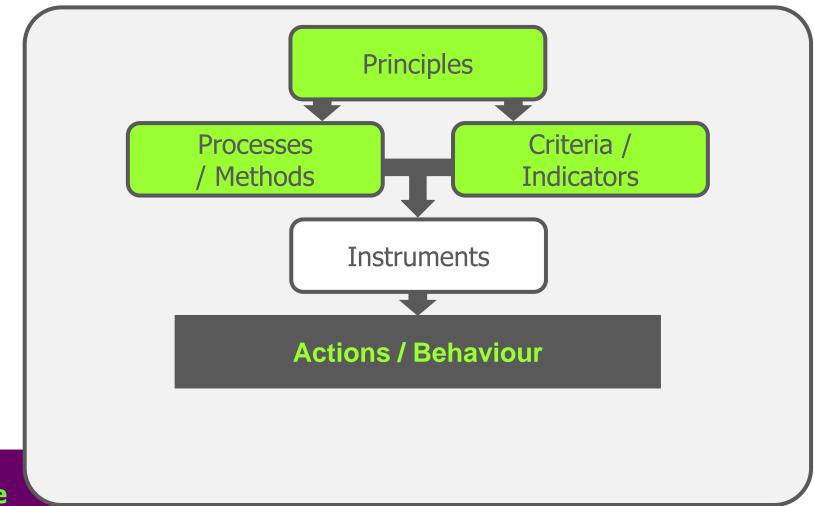
(Silvius and De Graaf, 2019)

Many other factors or circumstances influence the actual behavior of the project manager with regards to addressing sustainability





Making sense of Sustainable Project Management





INTEGRATIVE APPROACH

KEYWORDS © Project management maturity © Sustainability © Green Project Management © Sustainable Project Management

DEVELOPING A MATURITY MODEL FOR ASSESSING SUSTAINABLE PROJECT MANAGEMENT

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Ron Schipper

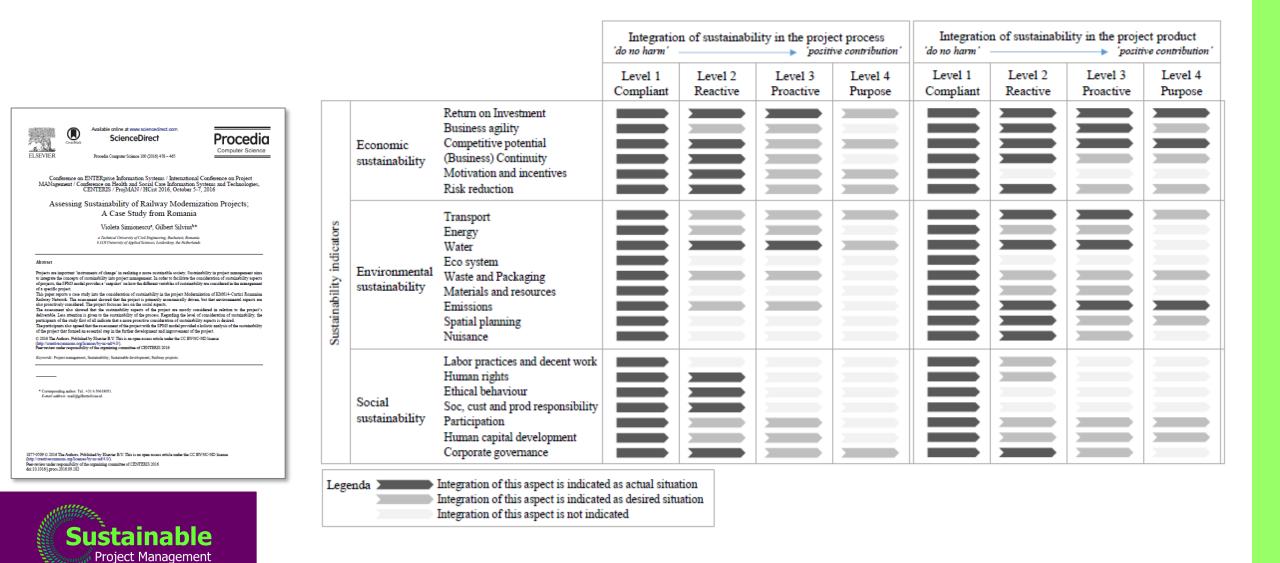
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ABSTRACT

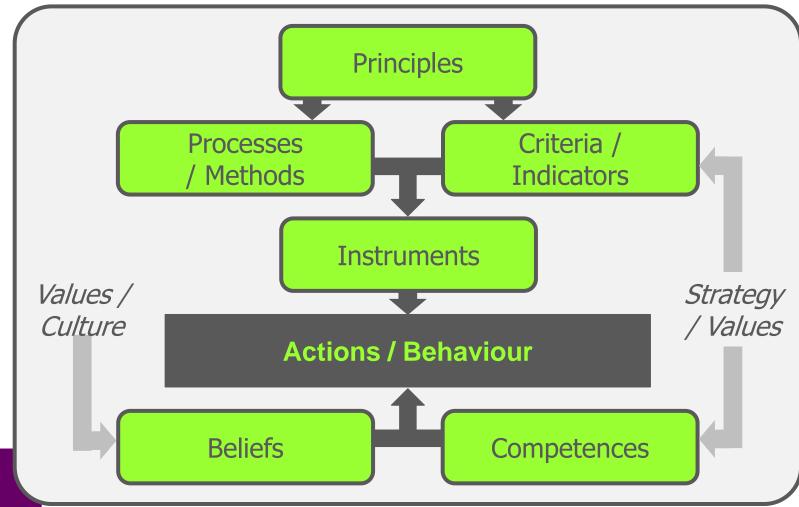
Sustainability is one of the most important challenges of our time. Companies are integrating ideas of sustainability in their marketing, corporate communication, annual reports and in their actions. Projects play a pivotal role in the realization of more sustainable business practices, and a growing number of studies link the concept of sustainability to project management. However, sustainability is understood by instinct, but difficult to express in concrete, operational terms. The evolving concept of sustainable project management is also hard to operationalize. A condition for this operationalization is the availability of an instrument that can be used for the assessment and development of



SPM3 reporting



Making sense of Sustainable Project Management





Research project

What patterns of factors stimulate project managers to address the sustainability issues of their projects?



What patterns of factors stimulate project managers to address the sustainability issues of their projects?

Intrinsically motivated

- Behavioral beliefs are dominating the top-ranked statements
- Are stimulated to address sustainability because they care about nature, the planet and the future and because they feel that caring for sustainability is something they should do
- The characteristics of the project, or the opinion of others, do not play a large role
- Will do what they consider the 'right thing'



What patterns of factors stimulate project managers to address the sustainability issues of their projects?

Task driven

- Will consider sustainability when it is part of the project's requirements or objectives, when the client asks for it or when they are rewarded for it
- In the top-ranked statements, the normative and control beliefs are represented strongest
- Behavioral beliefs are underrepresented
- This group can be stimulated to by external pressure or rewards.



What patterns of factors stimulate project managers to address the sustainability issues of their projects?

Pragmatic

- Take a pragmatic approach to the consideration of sustainability in project management
- Not strongly self-motivated for sustainability
- But will consider it when they see a good application
- In the top-ranked statements in this pattern, the control beliefs statements are overrepresented
- Stimulated by practical knowledge, tools and results.



What is the dominating stimulus pattern that project managers exhibit? How can the different groups of project managers be characterized?

2 Quantitative survey-based studies

(1) 101 participants, Netherlands / South Africa based
(2) 433 participants, Portugal based





What is the dominating stimulus pattern that project managers exhibit?

Stimulus pattern	Study of Marnewick et al. (2019) *	Study of Magano et al. (2021)		
Intrinsically motivated	72.3 %	61.9 %		
Pragmatic	12.9 %	21.0 %		
Task-driven	10.9 %	17.1%		

Note: * In this study, 3.9% of participants could not be allocated to one of the patterns.



Three distinct stimulus patterns of project managers: *Intrinsically motivated*, *Task driven* and *Pragmatic*.

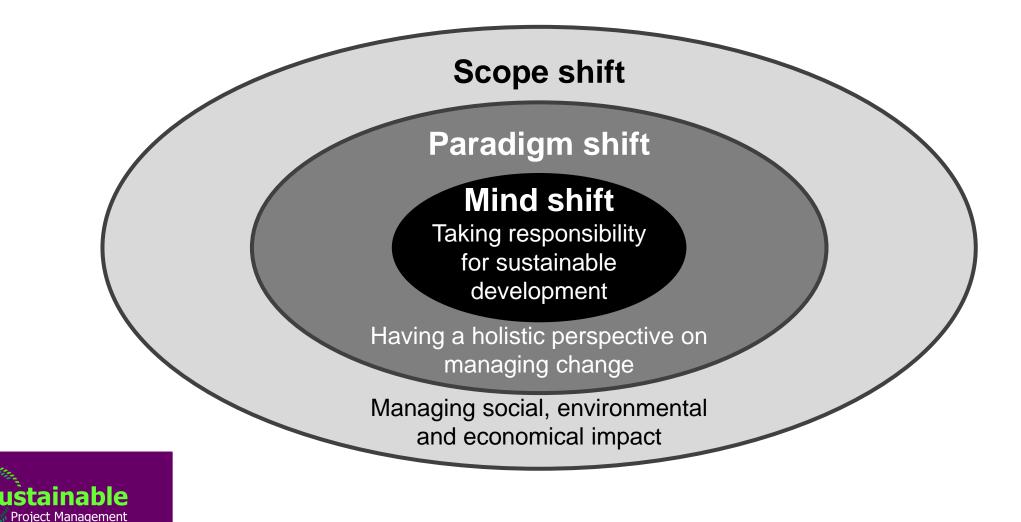
Intrinsically motivated is the most frequent stimulus pattern found amongst Project Managers.

This finding is irrespective of a Project Managers' age, gender or the type of project he/she is involved with.

Considering sustainability is a personal trait.



Sustainable Project Management as Scope, Paradigm and Mind shift





We need to change the way we view things In order to change the way we do things

Nelmara Arbex

Dig deeper...

What factors influence the **attitude** of project managers towards sustainability?

- Attitude: The value we assign to something or someone
- Are born out
 - What we feel (affect)
 - What we do (behavior)
 - What we know (cognitive)



Affective component

The emotional or feeling segment of attitude

• The affective component is about the emotional response (liking/disliking) towards an object

Behavioral component

An intention to behave in a certain way toward someone or something

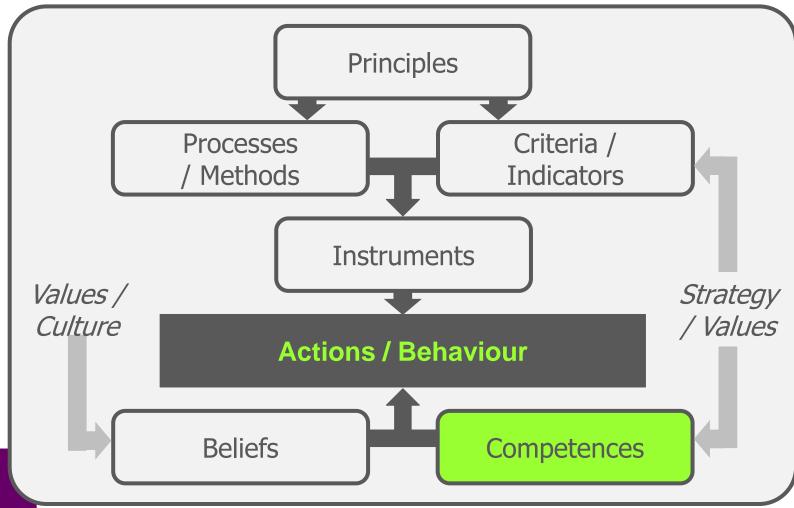
• The behavioral component of an attitude is about the past experiences regarding the object

Cognitive component

The opinion or belief segment of an attitude

• The cognitive component is about an individual's opinion (belief/disbelief) about an object

Making sense of Sustainable Project Management





Sustainability competencies





GreenComp Sustainability competencies

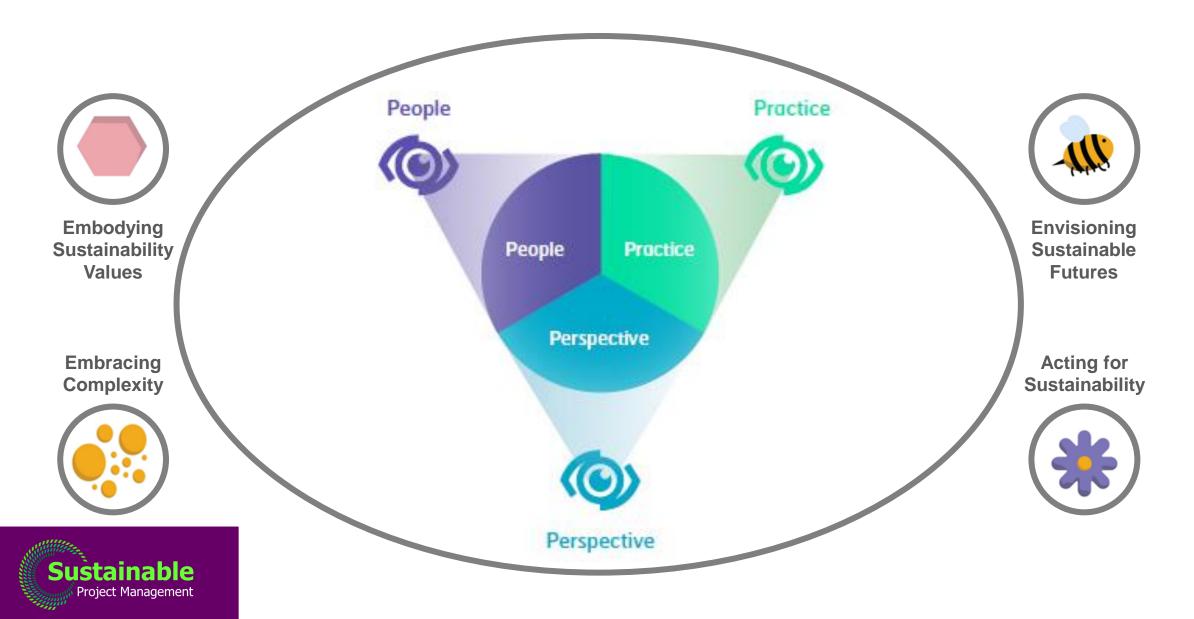




GreenComp: Sustainability competencies

AREA	COMPETENCE	DESCRIPTOR	AREA	COMPETENCE	DESCRIPTOR	
	1.1 Valuing sustainability	To reflect on personal values; identify and explain how values vary among people and over time, while critically evaluating how they align with sustainability values.		3.1 Futures lit- eracy	To envision alternative sustainable futures by im- agining and developing alternative scenarios and identifying the steps needed to achieve a preferred sustainable future.	
1. Embodying sustainability values	1.2 Supporting fairness	To support equity and justice for current and future generations and learn from previous generations for sustainability.	3. Envisioning sustainable futures	3.2 Adaptability	To manage transitions and challenges in complex sustainability situations and make decisions related to the future in the face of uncertainty, ambiguity	
	1.3 Promoting nature	To acknowledge that humans are part of nature; and to respect the needs and rights of other species and of nature itself in order to restore and regenerate healthy and resilient ecosystems.		3.3 Exploratory	and risk. To adopt a relational way of thinking by exploring and linking different disciplines, using creativity and	
	2.1 Systems thinking	To approach a sustainability problem from all sides; to consider time, space and context in order to understand how elements interact within and between systems.			thinking	experimentation with novel ideas or methods. To navigate the political system, identify political
2. Embracing complexity in	2.2 Critical assumptions, challenge the status quo, and reflect on how personal, social and cultural backgrounds		4.1 Political agency	responsibility and accountability for unsustainable behaviour, and demand effective policies for sustain ability.		
sustainability	2.3 Problem	2.3 Problem influence thinking and conclusions. To formulate current or potential challenges as a sustainability problem in terms of difficulty, people involved, time and geographical scope, in order to	4. Acting for sustainability	4.2 Collective action	To act for change in collaboration with others.	
	framing identify suitable approaches to anticipating and preventing problems, and to mitigating and adapting to already existing problems.		4.3 Individual initiative	To identify own potential for sustainability and to ac- tively contribute to improving prospects for the com- munity and the planet.		

IPMA Competence Baseline 4



Embracing complexity

	Simplifying complexity		Embracing complexity		
	PROJECT PLANNING				
	Focus on planning <	\diamond	Focus on sense making		
	Plan a single best estimate scenario 🤞	\diamond	Anticipate multiple potential scenarios		
	Rely on expertise of few <	\diamond	Co-production of knowledge by many		
	Implicit assumptions	\diamond	Explicit assumptions		
	Considering parts <	\diamond	Considering the whole		
hin ^{is}	Deliverable oriented <	\sim	Goal oriented		
	PROJECT MONITORING AND CONTROL				
	Oriented on control	\sim	Oriented on interaction		
	Plan is the basis <	\diamond	Reality is the basis		
	Manage the output <	\sim	Manage the process		
	Focused on output criteria	<>	Focused on input factors		



Luca Sabini, A J Gilbert Silvius (2023) Embracing Complexity in Sustainable Project Management In: Research Handbook on Complex 65 Project Organizing Edited by: Graham Winch, Maude Brunet, Dongping Cao, Edward Elgar publishing.

An emerging topic

- In project management research
- In project management **books**
- In project management standards
- In project management practice
- In project management competencies











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Feel free to connect me

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