

Green Project Development and Management





Introduction

ABOUT THIS COURSE

- Started in 2021-22 in the framework of the DAAD project
- Project management knowledge and skills are vital to the success of **research projects.**
- The students will learn about internationally relevant project management processes and tools and how to adapt them to research projects with specific focus on environment and natural resource management field projects based on **sustainability ideas**.
- They will learn multiple methods through diverse **real cases** to manage successfully and sustainably research projects.

STRATEGIC GOAL -

establishing PM Group within both Universities infrastructure

- Students are able to develop a project idea towards a project application in an international and interdisciplinary team.
- They have an overview of the EU-funding landscape as well as about the process of the management of projects and project teams work

Module coordinator

Prof. Dr. Katharina Stein **Lecturers** Prof. Dr. Ihor Soloviy, Prof. Dr. Orest Kiyko

Invited experts

Participants

• 13 – Bachelor, Master, PhD student) In 2022 GPM research found that 38% of projects worldwide were affected by extreme weather made worse by climate change. In 2024, that number jumped to 53%!

2024 Insights Into Sustainable Project Management

Driving Sustainable Change for 15 years!

a Partnership Writ

M) INSIGHTS INTO SUSTAINABLE PROJECT MANAGEMENT

2024

THE IMPACT OF CLIMATE CHANGE TO PROJECTS AND PROJECT MANAGEMENT

IN 2022, OUR RESEARCH FOUND THAT 38% OF PROJECTS WORLDWIDE WERE AFFECTED BY EXTREME WEATHER MADE WORSE BY CLIMATE CHANGE. IN 2024, THAT NUMBER JUMPED TO 53%

The escalation in extreme weather phenomena like flush floods, wildfires, extreme heat, and disrupted supply chains underscores an urgent challenge for project managers and organizations globally to fulfill projects effectively. A significant uptick from 35% to 53.43% over a span of two years underscores a critical trend; the escalating influence of climate change on the operational and strategic aspects of project management. This trend extends begond immediate project execution, necessitating a strategic reassessment of rick management, planning, and resilience building within project management protocols to counter these advence effects.

This data highlights the pressing necessity for the project management sector to embrace more resilient planning and execution strategies. Imbedding suctianability and climate molitence into project management is no known with the but a perrequisite for ensuring project success and longevity amid escalating climate soliality. The year 2003 marked a pirotal juncture in the fight against climate durage, withersing retrot-broading temperatures due to climate thange and the compounded effects of El Niño. This surge propelled global temperatures beyond 1.4 "C above pre-industrial levels, inching perilously done to the citical threshold of 1.5% tripulated by the Paris agreement.

Keeping the average global temperature rise below 1.5°C since pre-industrial times is a goal of the 2015 Pinsi dimate deal. Our research, published in Nature Climate Oxange, suggests that opportunity has passed. Earth may infact have already reached affeast 1.7°C warming since pre-industrial times - a deeply touching discovery.

In response to these evolving dullenges, the imperative for project management to innovate and adopt sustainability-focused particles has never been more critical. Incorporating climate resilience and sustainable methodologies into the fabric of project management not only addenses the immediate threats posed by climate change but also paves the way for long-term success and sustainability. Forwardthinking organizations are beginning to view these thallenges as opportunities the redefine their strategic goals, innovate in project reasousion, and coortibute posibility of the posibility of the con-





Impacted Extreme Weather Events Not Impacted

Figure 3 - Percentage of pageds worklowle affected to operate another more due to climate sharps from 2011 to 2012

Green Project Management: What is sustainable project management?

- Green Project Management, also known as Sustainable Project Management, is an approach to project management that emphasizes sustainable development, minimizing negative environmental impact, and promoting social responsibility.
- The methodologies and standards applied, the certifications available, the assessments and models used, and the training and development programs offered.



Introduction

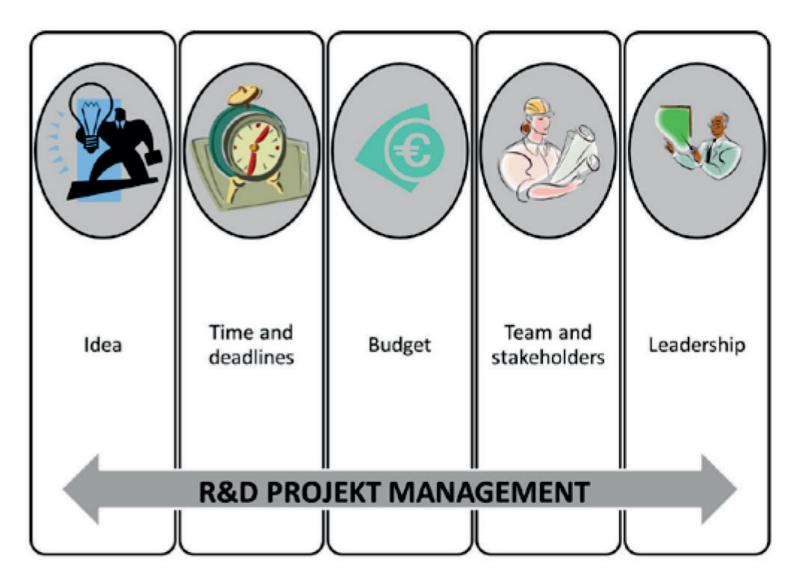
WHAT YOU'LL LEARN

After completing this course you'll be able to:

- *Plan and manage research projects sustainably (that's why it's about green projects)*
- Develop and adapt project management (PM) to your research interests
- To navigate through multiple international and European research funding sources
- Develop planning documents for your workplace projects (templates available)
- Design a team able to achieve desirable results (team building skills)
- Use a variety of *PM tools and techniques* to manage research projects
- Anticipate and respond to common uncertainties and risks that affect research projects



R&D Project Management Concept







Lectures (15h)

Lecturers - Prof. Dr. Ihor Soloviy (IS), Prof. Dr. Orest Kiyko (OK), Prof. Dr. Vasyl Lavny (VL)

1. Lecture 1. Introduction to Project Management: Key Concepts in the Context of Research – (IS)

2. Lecture 2. Project Management as a Process: Development Phases and Life Cycles – Emphasis on ideation - (OK)

3. Lecture 3. Project Funding, Selection and Evaluation Procedures (Horizon Europe and Erasmus as a case) - (OK)

4. Lecture 4. Project development (overview) in the field of forest education, bioeconomy, forest sector and forest cluster – OK

- 5. Lecture 5 Project Planning and Team Building (OK)
- 6. Lecture 6. Project Communications (IS)
- 7. Lecture 7. Managing Risk and Uncertainty in Research Projects (IS)
- 8. Lecture 8. Project Quality & Standardization (IS)

Seminar

Theme: *Projects development towards green transformation of economy and sustainable solutions for forests and forest sector in Germany and Ukraine*

Task : To discuss the top issues which can be in the focus of the projects **Format :** facilitated discussion

Expected outcomes: better understanding of specific sustainability challenges, synergies and trade-offs from national, regional, local and sectoral perspectives through project focused lenses.

Exam for the module

• A written assignment

- Elaboration of a project proposal dealing with "green"/sustainability issues (environmental problems – biodiversity, climate change, loss of ecosystem services etc.) and elaboration of solutions (biodiversity conservation, climate change adaptation and mitigation, development of bio- and circular economy, sustainable forest management, education for sustainable development). The project proposal includes:

- Executive summary
- Needs statement
- Goal and objectives
- Methods,
- Partner settingship,
- staff, and project management
- Budget (approximate)
- Risks
- Quality assurance (how long term sustainability can be achieved)
- Scope: 20-25 pages (see guidelines Rules for homework papers (hnee.de)

Due to 12th May 2024 (the end of semester), a project sketch has to be developed and uploaded in Moodle



G -P D M course Challenges (to be discussed and addressed)

Fundamental

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- -Different background and experiences of the students
- -Adaptation to the students individual interests (flexibility of the course)
- -Moving towards a blended learning environment can take time.

Technical (addressed ?)

- Harmonization of the study schedule (differences with the beginning and end of the semester at the Eberswalde University for Sustainable Development and the Ukrainian National Forestry University etc.)
- -The course credits recognition
- -Differences in the study results evaluation systems
- Something else?

