FINAL CONFERENCE

BIO-PLASTICS EUROPE

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Session 4: Stakeholders Engagement and Impact

Moderator: Angela Hahn Prospex Institute





"Stakeholders Engagement & Impact Unveiling the Significance"

> Carolyn Brand Prospex Institute Hamburg, 23rd Jan 2024

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RIPPLE 4





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IMPACT TREE









IMPACT TREE









IMPACT TREE









IMPACT TREE







Stakeholder Engagement in BIO-PLASTICS EUROPE

Right

- Impact Strategy
- Strategic approach
- Stakeholders
- Timing & objectives



Stakeholder Engagement in BIO-PLASTICS EUROPE

Right

- Impact Strategy
- Strategic approach
- Stakeholders
- Timing & objectives

How

- → Criteria, Quotas & Individuals *
- → Identify, Design & Implement

Stakeholder Engagement in BIO-PLASTICS EUROPE

Right

- Impact Strategy
- Strategic approach
- Stakeholders
- Timing & objectives

How

IQ MOF

- → Criteria, Quotas & Individuals *
- → Identify, Design & Implement





Fostering Collective Action: Empowering Stakeholders for Sustainable Solutions in the BIO-PLASTICS EUROPE Project



















KEY TAKEAWAYS

22









CQI* = Identify, Design & Implement







CONTINUING THE JOURNEY

🔄 Virtual Engagement Tool 🛛 🕅 🕅







The aim ...

We Gain:

→ Info about behaviours & preferences

We Give:

→ Learnings, Info & sustainable impact (SUP cutlery

We Create:

→ Awareness & provide info on alternative sustainable solutions





The aim ...

We Gain:

→ Info about behaviours & preferences

We Give:

→ Learnings, Info & sustainable impact (SUP cutlery

We Create:

→ Awareness & provide info on alternative sustainable solutions







29.09.2023

Y

HAMBURG UNIVERSITY OF APPLIED SCIENCES

Research + Transfer Centre "Sustainability & Climate Change Management" (FTZ-NK) Ulmenliet 20 / 21033 Hamburg / Germany T +49 40 428 75 6362 (Mon - Fri 8AM-3PM) Email: <u>bioplastics@ls.haw-hamburg.de</u> Website: <u>https://bioplasticseurope.eu/</u>

...... THANK YOU FOR YOUR ATTENTION!







Horizon 2020

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DATE: 23.01.2024

Final Conference

Session 4 Stakeholder Engagement - Projects Speaker: Dr. Jelena Barbir HAW Hamburg

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Session 4

SOCIAL PROGRESS



- Scientific communities
- Policy makers
- Municipalities
- Producers and Consumers
- General public



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3)

Stakeholder engagement Network EBRN Network HISCAP

Session 4

ALL





STAKEHOLDER ENGAGEMENT



Stakeholder Engagement BIO-PLASTICS EUROPE


Collaboration between projects.... EXAMPLE ...

FTZ-NK TEAM





OUR PROJECTS



RECC-LUM





Climate ROBUST



AFRO-AGROFARM



BALTIPLAST



BioRADAR





BIO-PLASTICS EUROPE

NACH-LABS



PeeK4Health

UKRAINE NATURE



CheMatSustain

DITTS



NACH-LABS



PeeK4Health





Ukraine-MEDWASTE

Ukraine-Nature

Klima-ACT!





IRMPF

ENVIRONMENT; SUSTAINABILITY; CC; HEALTH ...etc

Sustainable Development and Climate Change Management Research and Transfer Centre (FTZ NK)

The head of the center – Prof. Dr. mult. Walter Leal

Three units:

- Environment and Circular Economy
- Climate Change and Health
- Sustainability



MSc. Jennifer Pohlmann







MSc. Franziska Wolf

Session 4

OUR PROJECTS





ENVIRONMENT; SUSTAINABILITY; CC; HEALTH ...etc

Environment and Circular Economy Unit

Session 4



IMPORTANT FOR POLICY

- Engage more projects
- Pose relevant questions
- Find common interest
- Talk about conclusions
- Shape recommendations together
- Try to fill in gaps (your&others projects)
- Improve efficiency
- Clarity of results





Importance of the EU programmes ...

Emphasis on the collaboartion ...

Increase efficiency and applicability of our results

More fun 🕲





Session 4

Thank you for joining us today.....

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Stakeholder Engagement

Angelo Paletta, Genc Alimehmeti Department of Management, University of Bologna

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BOLOGNA UNIVERSITY CONTRIBUTION TO THE PROJECT

ROLE

Leader of WP7 on **replication, upscaling, policymaking and capacity building,** with 8 tasks developped and 11 partners engaged.

AIM

• Designing, testing, and validating business strategies, models and plans to highlight the value of **bio-based biodegradable plastic materials** (and relative end-products) in a circular and sustainable way.

GOALS

- Develop new business models issued on bio-based plastic products
- Document and demonstrate the benefits of the new bio-plastics economy
- Support innovative policies, regulatory and incentive efforts with a view to making circularity strategies replicable and scalable in different contexts, enhancing the contribution of the various players for the creation of an efficient







UPSCALING REPLICATION Raising awareness to create a better framework for systemic innovation and uptake of results through broad stakeholder engagement Designing new business model related to bioplastics - Stakeholder engagement and cooperation models - Documented economic analysis (report of gap and - 7 cooperation models investigated swot analysis) of the bioplastics business model - 7 cases for analysis - over 49 references **Embedding stakeholder engagement** Design an "Exploitation and Business Plan" (EBP) which demonstrates the cost-benefits of biocompanies to support business planning plastics system in the New Plastic Economy - Design of Circular strategies and sustainable business models- preliminary version - Exploitation and Business Plan - 39 interviews with companies from different industries and positions in the value chain Creation of the Network of Historic Cities Against Plastic FURMPF SUMMARY Waste

CAPACITY BUILDING of the execution of a set of training activities MOOC and SUMMER SCHOOL - 30 participants - 2 site visits - 4 companies – business challenges orosp POLICY MAKING **New Plastic Economy** Ξ makers

- 2 Focus groups: Toys and Mulch Films

- Identification, contacts and organization of meetings with

NETWORKING

Creation of the "European Bioplastics Research Group"

Improving professional skills and expertise of those working and being trained to work within the blue economy and the bioeconomy by means

Supporting the European strategy for plastics in a circular economy perspective by collaborating with policy-makers on innovative regulatory toward the

- Guidelines and summary document for policy

INTERVIEWS

- **39 semi-structured 1h-interviews** to actors operating in the bio-based plastics value chain have been done to investigate barriers and drivers at the **corporate dimension**.
- Nvivo software has been used to codify the findings.

> MAIN BARRIERS

- Price of biopolymers and bio-based compounds
- Small production capacity across the globe
- High R&D costs
- Lack of dedicated regulation
- Lack of harmonized waste governance
- Confusion among end-users
- Difficulties to manage and control degradation processes in open environments

> MAIN DRIVERS

- Increasing awareness about the environmental impacts generated by conventional plastics

MAIN SOLUTIONS

- Collaboration along value chains
- Training and comunicative activities
- Intense R&D

COOPERATION MODELS

> UNIT OF ANALYSIS

- EU context
- Bio-based and biodegradable plastics sectors
- Cooperation models to intend as formal or informal process of actions between two or more actors

PROCESS

- Literature review of existing cooperation models
- Identification and analysis of existing cooperation models operating in the bio-based and biodegradable plastics industry
- Validation through the application of the framework to key existing cooperation models:

BIOPLASTIC FEEDSTOCK ALLIANCE (Alliance) ;ALGRIPLAST (Collaborative Research and Development); SWEETWOOD PROJECT (Project Consortium); MATRICA (Joint Venture); EUROPEAN BIOPLASTICS RESEARCH NETWORK (Network); UPM BIOFORE - INEOS (Strategic Partnership); H. BILLERUDKORSNÄS – BASF (Joint Venture); IKEA – NESTE (Strategic Partnership); ALLIANCE TO END PLASTIC WASTE (Alliance); BIOREPACK (Waste Consortium);HISTORIC CITIES AGAINST PLASTIC WASTE (Network); EUROPEAN BIOPLASTICS (Association); ASSOBIOPLASTICHE (Association)





Mulch film producer



"Technical challenges are normal, you have a new material, the material have their properties and sometimes the properties are not well suited, so you need to adapt".

Packaging manufacturer



"The important thing is to do it in the right directions, where this type of solution makes sense. We need to well understand what is behind. Most of them just say I want a bio- degradable material because I don't want to see any plastic waste and this is not the right approach. You really have to think about the product and the end of life so saying I want a bio-degradable material".

Raw material producers



"There are a few projects where we do work with waste management facilities but the problem is that waste management facilities are not the end of the chain but the beginning of the chain".

Toys manufacturer



"No issues on machinability or changing production processes or the personnel. We use the same machinery that processes the fossil-based plastics. And that's what makes the **shift very easy** as if we need to invent or invest on new factory".

Compounders





Some of the products we produce have this characteristic. Producing a plastic that is only bio-based can make sense or could make sense... we need to understand in which application segment...

ASSUMPTIONS & RESEARCH QUESTIONS

- Bio-based plastics is still a niche market today, but their demand is going to be promising in specific market segments because of many reasons (pressure of conventional plastics on the environment, increasing consumer awareness, renewability and degradability etc.).
- While the drop-ins (bio-PE, bio-PET etc.) are mainly demanded in product streams with a good recycling governance, the added value that bio-based biodegradable plastics can provide need to be investigated in their specific fields.

RQ. 1 ARE BIO-BASED PLASTICS THE FUTURE FOR THE TOY INDUSTRY?

RQ. 2 ARE BIO-BASED PLASTICS THE FUTURE FOR THE MULCH FILM INDUSTRY?







AIM



TASK 7.6

and balanced range of views and can make relevant contributions to the challenges identified. Lead partner: PI

Contributing partners: all partners assigned to WP7



STIR Stakeholder Integrated Research



ACTIVITIES

- Identifying the stakeholder categories 1.
- 2. Conducting the stakeholder mapping (according to CQI methodology)
- 3. Selecting the participants to be invited to the focus groups
- 4. Running the focus groups

KEY FINDINGS



TOYS FOCUS GROUP No. 17 stakeholders (7 from Research/Academia, 7 from Production/Manufacturing, 1 from Waste Management, 1 from Supplier (raw material), 1 from Regulation/Certification, 1 from End-user and Consumer Association)

Location: Ecomondo fair (Rimini) and online via Teams No. of sessions: No. 4 (introductory, transitioning, key, final) No. of themes: 8 No. of questions: 11

AGRICULTURAL MULCH FILM FOCUS GROUP

No. 36 stakeholders (15 Research/Academia, 10 from Production/Manufacturing, 3 from Distributor/Sales, 3 from Farming/Trade Association, 3 from Supplier (raw material etc.), 1 from End of life/ Waste Management

Location: Online, via Teams No. of sessions: No. 4 (introductory, transitioning, key, final) No. of themes: 8 No. of questions: 11



 Stakeholder evaluation and compatible scientific set-up





FOCUS GROUPS

Focus groups have been performed per each industry.

Each focus group took **2h** (Sijtsema et al., 2020; ACEU 2021).

10-15 participants have been invited, a number large enough to gain a variety of perspectives and small enough not to become disorderly or fragmented (Krueger, 1994).

CQI methodology has been used to identify and map stakeholders (Gramberger et al, 2014). At least, a representative per each step of the value chain has been invited.



STAKEHOLDERS FROM THE MULCH FILM VALUE CHAIN

FOCUS GROUPS: PRIORITIES

 From your point of view, what needs to be prioritised to make the toy/mulch film industry more sustainable by 2050?



TOYS INDUSTRY



MULCH FILM INDUSTRY



"These elements reveal the necessity for a systemic joint policy intervention in the sector, where bio-based plastics are one of the solutions in a wider sustainability roadmap."



FOCUS GROUPS: FINDINGS

The findings from the focus groups make evidence of the added value that bio-based plastics can provide in the toys and mulch film industries:

- ✓ Although the **mulch film sector** is more experienced with the use of bio-based biodegradable plastics, many gaps still exists. The total cost needs to be better communicated to increase the farmers' demand for this materials. Demands can also be pushed through normative measures (in terms of market bans and waste-related policies).
- ✓ The investigation in toys sector reveals that bio-based plastics may provide added value in specific applications, such as sand toys and only when they are unintentionally littered in marine environments. However, standards for biodegradability in marine environments do not exists and the degradation needs to be better investigated. Simultaneously, eco-design becomes crucial to increase the potential for toys valorization at the end of their life.

In regards with value retention, both sectors are still far away from ensuring the loop closing. So, bioeconomy strategy needs to be connected with the circular ones.



22.01.2024

TASK 7.10



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Setting up a post-graduate vocational training program with the tentative title

The new plastics economy: circular business models and sustainability.

Lead partner: UNIBO

Contributing partners: KTU, TUAS, HAW, ACIB, UPM, CNR, AWI, TALTECH, TUHH,

ECOEMBES, TICASS, ASSOBIO, IVL Fraunhofer LBF



ACTIVITIES



Draft the program of the **MOOC** and the **SUMMER SCHOOL** 1.

- Discuss and review the structure and the program with contributing partners 2.
- Make agreements with CESIA (University technical staff for innovative learning) and 3. ALMACUBE (University incubator)
- Collect expressions for interest and comments from BPE partners 4.
- Set up and launch the MOOC 5.
- Establish the summer school 6.

KEY FINDINGS

$Q \bigotimes P$

MOOC

mooe	
nguage	English
imated effort	4 weeks
ments	Lectures, videos, round tables, quiz, final
	assignment, forum discussion, additional
	materials

18 partners and University technical staff for innovative learning involved in 20 training modules

SUMMER SCHOOL

Language English Estimated effort 5 days Elements Frontal classes, site visits, groups challenges, groups assignment, final speech			
Estimated effort 5 days Elements Frontal classes, site visits, groups challenges, groups assignment, final speech	Language	English	
Elements Frontal classes, site visits, groups challenges, groups assignment, final speech	Estimated effort	5 days	
	Elements	Frontal classes, site visits, groups challenges, groups assignment, final speech	

29 participants; 2 site visits; 4 business challenging





COOPERATIVA SOCIALE la Città Verde





22.01.2024 🦞 🚺

Thank you for your attention!



angelo.paletta@unibo.it genc.alimehmeti@unibo.it

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FINAL CONFERENCE January 23rd, 2024 Stakeholders engagement - municipalities Prof. Dr. Žaneta Stasiškienė Kaunas University of Technology, Lithuania **BIO-PLASTICS** EUROPE

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The challenges of EU regulations on plastic waste management and their implications at the national and local levels in EU countries

Quality and Price of Recycled Products: A significant issue is the quality and price of recycled plastics compared to their unrecycled counterparts. Plastic processors need large quantities of recycled plastic that meet strictly controlled specifications and are competitively priced. However, the customization of plastics for different manufacturers' needs complicates the recycling process, making it costly and affecting the end product's quality.

This is a primary challenge because it directly affects the feasibility and economics of recycling operations. The demand for high-quality, cost-effective recycled plastics is crucial for the success of recycling programs

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22.01.2024

The challenges of EU regulations on plastic waste management and their implications at the national and local levels in EU countries

Lack of Local Recycling Capacity: Half of the plastic collected for recycling in the EU is exported for treatment in non-EU countries. This is due to a lack of local capacity, technology, or financial resources to treat the waste. As a result, there's a risk of increased incineration and landfilling within Europe, particularly after China restricted imports of plastic waste, which previously absorbed a significant share of EU's plastic waste exports.

This is critical because it impacts the EU's ability to manage its plastic waste sustainably. Dependency on non-EU countries for recycling increases risks of incineration and landfilling, which contradicts the EU's environmental goals





The challenges of EU regulations on plastic waste management and their implications at the national and local levels in EU countries

EU's Regulatory Solutions: To increase recycling rates, the EU has adopted new rules, including targets for recycled content in plastic bottles (25% by 2025 and 30% by 2030). The EU also proposed rules on packaging to improve design for recyclability, like clear labeling and transitioning to bio-based, biodegradable, and compostable plastics. The Green Deal aims for 55% of plastic packaging waste to be recycled by 2030. To stimulate the market for recycled plastic, measures like creating quality standards for secondary plastics, encouraging certification, introducing mandatory rules on minimum recycled content, and considering reduced VAT on recycled products have been suggested

While this is more of a response to the challenges, it's vital as it sets the framework for how plastic waste is managed. Implementing these regulations effectively at the national and local levels is key to increasing recycling rates and promoting a circular economy





The challenges of EU regulations on plastic waste management and their

implications at the national and local levels in EU countries

These challenges are interconnected, and their importance can vary depending on specific national and local contexts within the EU.

However, addressing the quality and price of recycled products and increasing local recycling capacity are fundamental to the success of EUwide plastic waste management strategies.



22.01.2024

Bio-circular green economy model



and the

Biotechnology R&D

- Biotechnology manufacturing R&D
- Raw materials and/or essential materials for molecular biological R&D
- Biological substance analysis and/or relevant activities

Bioenergy & Biofuels

- Electricity from biomass or steam
- Fuel from agricultural products
- Biomass briguettes and pellets

Circular Energy & Fuels

- Electricity or electricity and steam from garbage or refuse-derived fuel
- Fuel from agricultural scrap or waste

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Waste & Recycling

- Waste treatment or disposal
- Recycled plastic pellets
- Recycled pulp manufacture
- Recycling and reuse of unwanted materials
- Industrial zone for environmental protection

Products from Circular Process

C

- Agricultural by-products or waste products
- Recycled plastic pellets
- Recycled fiber
- Products from recycled pulp

Plants & Seeds

- Economical forest plantations (excluding eucalyptus)
- Plant factories
- Breeding of plants or animals

B

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Fuel cells

Eco-friendly Chemicals/Polymers

Other Energy Saving Products

Energy-saving home appliances

Eco-friendly chemicals or polymers

Products from eco-friendly polymers

Agriculture

- Active ingredients from natural raw materials
- Medical food or dietary supplements
- High-tech natural extracts
- Rubber products
- Traditional medicine
- Biological / organic fertilizers, biopesticides
- Animal breeding or livestock
- Food, beverages, food additives, oil or fat, starch or modified starch from plants or animals
- Smart farming
- Trading center for agricultural goods

Green Management

Energy Service Company (ESCO)

Energy Saving Products

- Energy-saving auto parts
- High-density energy storage
- Solar cells and raw materials

Green Energy

Electricity or

electricity and steam from renewable energy

Consumer viewpoints on plastic (n.b. font size proportional to word frequency)







The interaction between the economy, society, and the environment

B1



Assessment of the impacts of bio-based and biodegradable plastics (and additives) on existing waste management frameworks



Handbook on the impacts of bio-based and biodegradable plastics on existing waste management frameworks

Horizon 2020 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 860407 **Key topics on** bio-based and biodegradable plastics for a broad audience of decision-makers on national and regional level, business representatives, scientists and citizens

- the instruction of concepts related to bio-based and biodegradable plastic, Life Cycle Assessment and Circular Economy,
- the assessment of the impact bio-based, biodegradable
- and compostable plastic have on waste management technologies and systems, and
- an analysis of legal and policy frameworks.

In addition, the handbook contains Vocabulary of definitions and covers the most promising business cases from project partner countries.

Assessment of the impacts of bio-based and biodegradable plastics (and additives) on existing waste management framework

In general, the handbook addresses several critical aspects of bio-based and biodegradable plastics and their effects on waste management systems:

- **Growing Importance of Biopolymers**: The handbook recognizes the rapid growth of biopolymers in the global plastics market, driven by concerns about plastic pollution. This growth highlights the increasing importance of sustainable alternatives derived from renewable sources.
- **Circular Economy Integration:** Properly designing waste management systems for bio-based products is emphasized as a way to integrate these materials into a circular economy. This approach promotes the reuse, recycling, and recovery of bio-based waste, reducing environmental impact and resource depletion.
- Waste Management Flexibility: The handbook underscores the versatility of bio-based biodcegradable plastics in waste management. They can be reused, mechanically or chemically recycled, organically recycled (composted), or used for energy recovery, allowing for flexible and sustainable end-of-life options.
- Environmental Concerns: It acknowledges the concern regarding incomplete degradation of bioplastics during waste management processes and the potential leakage into the environment. This highlights the need for improved waste management practices for these materials.
- Behavioural Barriers: The handbook recognizes that despite high awareness of plastic pollution issues,
 behaviour change can be challenging due to various barriers, including perceived convenience, lack of knowledge,
 and cultural habits. It emphasizes the need for interdisciplinary approaches to address these barriers effectively.

Assessment of the impacts of bio-based and biodegradable plastics (and additives) on existing waste management frameworks



Handbook on the impacts of bio-based and biodegradable plastics on existing waste management frameworks

Horizon 2020 This project has received funding from the European Union's Horizon 20 research and innovation programme under grant agreement No. 86040 In summary, this handbook plays a crucial role in raising awareness, providing knowledge, and promoting sustainable practices related to bio-based and biodegradable plastics. It serves as a valuable resource for stakeholders across various sectors, facilitating informed decision-making and the development of strategies to mitigate the environmental impact of plastics while advancing the circular economy.

The handbook was introduced for a wide audience , including decision-makers at national and regional levels, business representatives, scientists, and society as a whole.

We hope what it will serve as a comprehensive resource to increase awareness and understanding of bio-based and biodegradable plastics. Who wants to know more:

https://bioplasticseurope.eu/downloads/public-deliverables

Good practices

Deposit system; Pay as you throw etc.


Public events in Tallinn (Estonia) and Vilnius (Lithuania)

- Oct 2019 Tallinn banned single-use plastic dishes, cutlery.
- Only compostable dishes (EN 13432) were allowed
 - June 2023 Food and drinks may only be served in reusable containers (e.g. plates, bowls, drinking glasses, coffee cups) and use only reusable cutlery (e.g. knives, forks, spoons, chopsticks) in public events up to 30 000 visitors/day in Tallinn.
 - January 2024 only reusables are allowed in public events in whole Estonia regardless the number of visitors.
 - Public event = an entertainment event, competition, performance, trade event or other similar gathering of people that takes place in a public place and is open to the public with or without a ticket (includes also theatres, cinemas, spas etc).

Public events in Tallinn (Estonia) and Vilnius (Lithuania)

- Youth song and dance festival used 100% reusable cups, plates and cutlery
 - The dance festival accommodated around 10 000 spectators + performers.
 - The song festival accommodated around 70 000 spectators + performers.
- Depeche Mode (around 40 000 visitors) used reusable cups ☺
- Weeknd (around 55 000 visitors) used reusable cups ☺
- Ramstein (around 45 000 visitors) used reusable cups ☺





Thank You

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Session 5: Further Collaborations, Clustering and Networks



Moderator: Carolyn Brand Prospex Institute





Establishing new projects relations and maintaining existing ones

Professor Walter Leal HAW Hamburg

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PROCESS



Part 1- Establishing New Collaborations



Part 1- Establishing New Collaborations

 The first step is to identify suitable potential partners: it helps to look for individuals or organisations whose goals, expertise, and resources complement your own.
Consider their reputation, reliability, and previous collaborative experiences.

2. New links can be set-up by attending appropriate conferences, seminars, and networking events. Online professional networks like LinkedIn can also be valuable in new making connections.



Establishing New Collaborations

3. Reach out with a clear, concise proposal that outlines the potential benefits of the collaboration for both parties.

Be specific about what you bring to the table, and of what you need.

4. Arrange meetings (personal/on-line) to discuss the collaboration in detail.

Partners should be prepared to listen to each other's needs and expectations and not only focus on their own. (Can they do that?)



Establishing New Collaborations



5. Once there's mutual interest, define roles, responsibilities, and contributions of each party. This should include resource allocation, timelines, and deliverables.

6. If appropriate, create a written agreement or contract that includes all the details discussed, ensuring legal and ethical considerations are addressed.

×–

7. Trust is fundamental in any collaboration. You need to be reliable, meet your commitments, and be transparent in your communications and actions.



Part 2- Maintaining Existing Collaborations



Part 2- Maintaining Existing Collaborations



1. Keep lines of communication open. Regular meetings, updates, and reports can help ensure that everyone is on the same page and opportunities may be taken advantage of.



 Address conflicts or misunderstandings promptly and constructively.
Focus on finding a solution that works for all parties.



3. Be prepared and ready to adjust roles, goals, and methods as the project / cooperation evolves. Flexibility can be a key in overcoming unforeseen challenges.



Maintaining Existing Collaborations

4. Acknowledge the contributions of all parties involved. Celebrating milestones and successes can foster a positive working relationship.

5. Regular evaluation of the collaboration's progress may provide constructive feedback. This can help in identifying areas for improvement and in reinforcing strengths.



Part 3- Tools and Best Practices



Part 3- Tools and Best Practices

1. Project Management Tools: Tools such asTrello, Asana, or Monday.com may help in project tracking and communication.

2. Shared Documents and Platforms: Platforms like Google Drive or Microsoft Teams may help in easy sharing and in collaboration on documents.

TOP PROJECT MANAGEMENT SOFTWARE TOOLS done story to do in progress

Tools and Best Practices

3. Regular Check-ins: Schedule periodic check-ins to discuss progress, challenges, and next steps.

4. Cultural Sensitivity: We need to be aware of and respectful towards the cultural differences that might exist between partners, especially in international collaborations.





Conclusions

- Successful collaborations are based on the appreciation of mutual benefits and clear communication.
- New or existing collaborations are also based on trust.
- Whether establishing new projects or maintaining existing ones, a proactive, organised, and respectful approach is important.

THANK YOU!

E-mail: walter.leal2@haw-hamburg.de



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The Crowdhelix methodology for clustering, knowledge sharing and open Innovation

BIO-PLASTICS EUROPE Final Conference 23rd January 2024 in Hamburg, Germany

Session 5: Further Collaborations, Clustering and Networks

Valeria Pulieri Impact Acceleration Manager - Crowdhelix

WHO WE ARE

Crowdhelix is a **value chain building company** working in the area of the **impact acceleration** through networking and open innovation services.

We are impact acceleration partner in more than **30 EU-funded** projects in different research and innovation domains.

Our open innovation platform is a **proprietary software** that provides connections to a diverse community of RTOs (research and technology organisations), SMEs, start-ups, public institutions, associations, corporations and investors.



Crowdhelix VALUE CHAIN connector



When you join the Crowdhelix platform you join an outstanding group of research & technology organisations and, university members

Our members are a select group, highly active in collaborative research and innovation



A selection of our corporate members, providing you with a strong foundation for research and innovation





SME Members

The Crowdhelix platform is open to small and medium size companies with the desire to succeed in competitive, international R&I programmes



Impact Accelerator partner in +30 EU-funded projects

Health, MedTech, Pharma	EIC: Pathfinder Open, Challenges, Transition	Circular Economy	Materials, Manufacturing & Industry	Energy
GRUCIAL	'FOUCH _{LESS} "	ReSoURCE	5 5	ØASTEP
A-TANGO	PAT4CGT	ÐiCiM	© REFORM	&GH2
In To <u></u> ch	&GH2	RA	PRESERVE	DR-RISE
℗ エヘℝヘ	bioPURE	MINA		0
PRIME 2		GREDİT	Mat	

Funded by the European Union

Impact Accelerator partner in +30 EU-funded projects



The Crowdhelix Team 2024

An Experienced International Team from 10 Countries





Alex Lilburn Machine Learning Engineer









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George Jeffery Product Manager



Head of Engineering

Joana Soares

Impact Acceleration Manager



Innovation Network

Administrator

Jorge Pérez Barrio

-

sal Impact Partne



Impact Acceleration

Manager

Dr. Karen Galvin

Impact Acceleration Manager



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Paul McKenna



Cais Jurgens

Head of Membership

Development



Chris Long

Project Finance Manager



Daniel James Gadd

Senior Full Stack Developer

Laura Arnold

Marketing Manager

Rvan Holder

Software Engineer

Alan Drumm Science Communications Manager



Officer

Marco Lopes

Impact Acceleration Manager

Higher Education

Ambassador





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Michael Browne

Chief Executive Officer

CON CO

Andreea Petrea

Fiona Wilks Finance Manager



Nedyalko Krastev Junior Full-Stack Developer





Ozan Korkut Design Lead















-Prof. Kurt Deketelaere Widening Excellence Ambassador





Ryan Bustard Digital Marketing Analyst







Prof. Sir Eric Thomas



Martin Scott

Innovation Adviser

Susan Robson Chief Financial Officer

Thais Soares Impact Acceleration Manager

Michelle McGinty

Software Engineer

Dr. Valeria Pulieri Impact Acceleration Manager























Dr. Magdalena Tyndyk

Managing Director (Ireland)



















Rusty Nash Chief Technology Officer Head of Membership Operations

Crowdhelix works in and for complex "ecosystems" where we interact with different users and organisations, and therefore with different needs that require different approaches and services over time.



Impact Acceleration Approach

01

02

03



Science Communication and Commercial Dissemination

Helix Impact Model

Stakeholder analysis, Matchmaking and clustering, profiling and connecting innovation to global end-users using recommender engine

Science Communication and Commercial Dissemination

Social media, website, videos, open webinars, newsletters, tech update announcements, public relations, events

Events

Knowledge sharing and impact events

\$

The Helix Impact Model is a distinctive approach to creating impact through a unique combination of our digital infrastructure and human-powered services.

Phase 2 - Engagement

Strengthen and expand the network and the participation of stakeholders in the helix community and along the topic value chain

Helix Launch

Phase 3 - Impact and Foreground

Facilitating technology transfer and commercialisation, dissemination of project results (KERs) and further funding opportunities



Phase 4 - Helix

Community management, stimulating new proposals and funding opportunities, dissemination of project results (KERs)

Value chain and stakeholders



Crowdhelix A deeper look at the platform

Matchmaking technology

Core benefits of our Open Innovation platform

- Results feature
- Match-making technology based on machine learning



Connecting You Globally Via Our Helix Communities

What is a Helix? An international community or collaboration group on the Crowdhelix platform

In your business sphere

Connections are directly relevant to your business needs and potential

Thematic

Crowdhelix currently hosts 50 thematic Helixes including the below



9

Helix Communities are more than ecosystems designed to build pre-award collaborative partnerships -They also exist to drive impact and promote EU Funded KERs to relevant stakeholders as they emerge

Maastricht University in Health, Vascular

89

Improving microstructural integrity, interstitial fluid, and blood microcirculation images from multi-b-value diffusion MRI using physics-informed neural networks in cerebrovascular disease

wit CRUCIAL

TRL ④ Technology validated in lab

Using multi-b-value diffusion-weighted MRI, several biological diffusion components can be estimated that characterize the brain tissue, such as th...

Funded by the European Union

Read more



🗊 internal funds 🖉

Background - Research at Ca Foscari Venice University is focused on understanding what constitutes a "healthy" microbiome in terms of composition,...

Read more



🖉 Edit

Crowdhelix Our role in open innovation



Showcasing the results of research & innovation



Wiring connections for more funding & market opportunities



Driving the spin-out process of innovation

Promotion of cross-disciplinarity and interconnection of facilities, laboratories, talents and expertise globally
Our success stories



"I am delighted to confirm that Coca-Cola Europacific Partners (CCEP) has recently invested in new carbon capture technologies with Rovira i Virgili University in Spain. I would like to thank Crowdhelix for acting as a gateway to academic excellence across Europe to facilitate this outcome."

> Coca Cola Europacific Partners, February 2023



"Many thanks to Crowdhelix for their contribution to the recently funded DICIM Horizon Europe project. This call was part of the Digital Industry and space cluster and will focus on Digitalised Value Management for Unlocking the

potential of the Circular Manufacturing Systems with Integrated Digital Solutions. The project is led by Masaryk University and is made up of an international consortium of excellent organisations, including several members of Crowdhelix. The project officially kicked off on the 1st of January, 2023 and we look forward to delivering it over the coming 4 years."

> Lidia Parrilla Benítez, MSc R&D Project Manager / Engineering

Our success stories



The Materials Helix Event

Materials Helix Event

Wed, 22 Nov, 12:00

- Presentation and matchmaking for **8 upcoming calls**
- Clustering session "Materials Innovation for Circular Economy" with 4 other projects
- Poster presentation



Creation of new consortia







Training and Events

Helix Events





Citizen Science and Artificial Intelligence Technologies Mon, 9 Oct, 14:00 CEST

Training Events





ERC-2024 Calls - An in-depth analysis Thu, 7 Sept, 10:00 CEST

Training and Events

Knowledge sharing Events



Materials Helix Event

Wed, 22 Nov, 12:00



The future of bio-based packaging

Mon, 11 Dec, 13:00



Join us for our much-anticipated 2023 **RTO & Corporate Members' Event**. Details on industry-leading speakers, our exciting programme and more coming soor





Annual Crowdhelix RTO & Corporate Members' Event Thu, 12 Jan, 13:00

Networking Events

COMING SOON! GLOBAL FUNDING ACCESS

BIG news!

In 2024, Crowdhelix is on the threshold of opening funding access to our members beyond Horizon Europe and will soon be providing access to major global grant & funding partners, through our newly innovated and proprietary global Al funding aggregator

These will include the world's largest public and private funders such as the National Institutes of Health (NIH), Bill & Melinda Gates, XPrize, and many Corporate Open Innovation Programmes





FIND YOUR PERFECT MATCH in 2024

Introducing our NEW Call-Matching feature!

Crowdhelix will soon be able to automatically match your profile to Horizon Europe funding calls thanks to our innovative Al 'Recommender Engine'

Save the hassle of manually identifying relevant and matched funding with this latest automation

The relevant funding programmes will be brought to you!

Simply add your expertise to your profile, groups and organisation, and the platform will specifically match you to Horizon Europe Calls



Contact us

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General Queries	Proposal Queries	Platform Queries
hello@crowdhelix.com	proposals@crowdhelix.com	support@crowdhelix.com

Q>

Crowdhelix How to join our platform







Thank you

FINAL CONFERENCE

BIO-PLASTICS EUROPE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 860407. BIO-PLASTICS EUROPE project website: www.bioplasticseurope.eu



ROUND TABLE Pathways Forward: Shaping the Future of Bio-Based Plastics in Europe

Moderator



Carolyn Brand, Prospex Institute





Vo Quoc Thao Nguyen, International Sustainability Academy



Simon Gölden, Fraunhofer LBF



Miriam Gallur, ITENE



Walter Leal, HAW Hamburg



Valeria Pulieri, Crowdhelix



Hasso von Pogrell, European Bioplastics e. V.

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