NEXT DESTINATION:
HORIZON EUROPE
EUROPEAN UNION

Bavarian Research Alliance

Next Destination: Horizon Europe
Circularity & Bioeconomy

How to match your R&I proposal with EU and regional strategies

Thomas Ammerl, Agustina Gualdoni, Susanne Hirschmann, Melanie Schulte

Bavarian Research Alliance (BayFOR)

Wednesday, 16 June 2021

Bavarian Research Alliance

Introducing Horizon Europe
Funding Schemes Horizon Europe

Agustina Gualdoni

Scientific Officer
Environment, Energy and Bioeconomy

Bavarian Research Alliance (BayFOR)

Wednesday, 16 June 2021

Horizon Europe – The new Research & Innovation Framework Programme of the European Union

- Start date on January 1st 2021 with a duration of 7 years
- Increased budget volume with estimated **97,6 bn. Euro**
- Goal of the European Commission on continuity, less bureaucracy and leaner

- Objectives:
  - Strengthen the scientific and technological **position of the EU**
  - Strengthen the **innovation capacity, competence and creation of work**

Global Challenges - Cluster

- **„Clusters“** are thematic divisions
- Every Cluster is divided into **„Destinations“**
- Destinations contain relevant **Calls** for this particular area
- Most of the calls are **cooperation projects**

  → at least 3 partners from 3 EU member or associated states (at least 1 EU member state)

Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment

Cluster 4

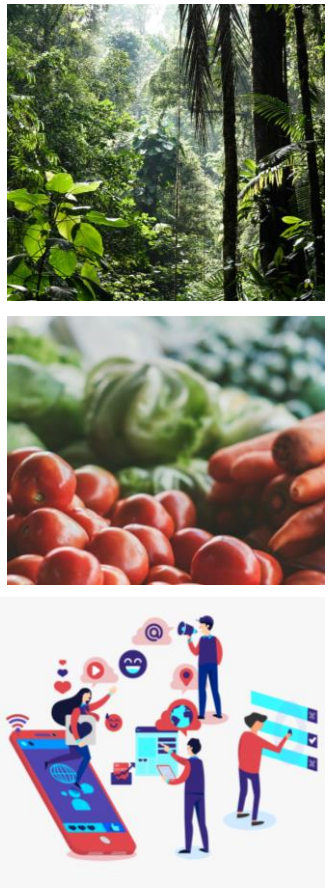
Digital, Industry and Space

Pic Credit: European Commission

Related European initiatives

Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

Transition to a low carbon, resource efficient **circular economy** and **sustainable bioeconomy**

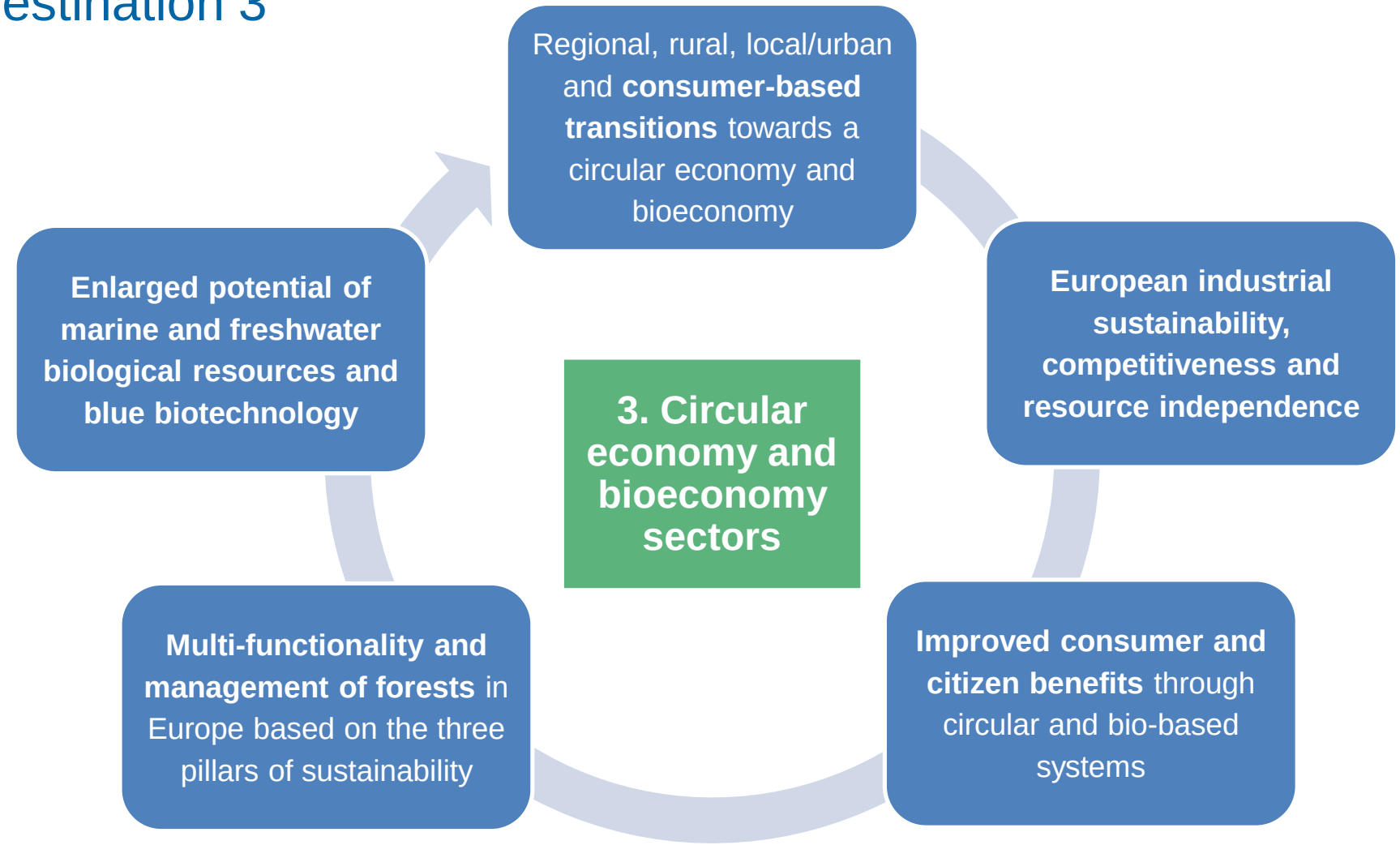


Pic Credit: Fish Site

Cluster 6: 7 Destinations in total

1. Biodiversity and ecosystem services
2. Fair, healthy and environment-friendly food systems from primary production to consumption
3. Circular economy and bioeconomy sectors
4. Clean environment and zero pollution
5. Land, ocean and water for climate action
6. Resilient, inclusive, healthy and green rural, coastal and urban communities
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal

Cluster 6: Destination 3



Example Calls from the Draft

Cluster 6

- HORIZON-CL6-2021-CIRCBIO-01-03: Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution
- HORIZON-CL6-2021-CIRCBIO-01-08: Mainstreaming inclusive small-scale bio-based solutions in European rural areas
- HORIZON-CL6-2022-CIRCBIO-02-01-two-stage: Integrated solutions for circularity in buildings and the construction sector

Cluster 4

- HORIZON-CL4-2021-RESILIENCE-01-01: Ensuring circularity of composite materials
- HORIZON-CL4-2022-RESILIENCE-01-01: Circular and low emission value chains through digitalisation

  - Novel paradigms to establish resilient and **circular value chains**
  - Green and sustainable **materials**
  - Materials for the benefit of society and the environment and materials for **decarbonising industry**
  - Materials and data cross-cutting actions
  - Improving the resilience and preparedness of **EU businesses, especially SMEs and startups**

What to consider?
A circular approach – not only for your project idea

Wholesome approach, needed for achieving circularity

Identification of all relevant aspects addressed in the call

Interdisciplinary consortium brings more collaboration and increased impact

Pic credit: European Commission

Need more information?

- Info days 2021

Cluster 6
07. – 08. July

Cluster 4
29. – 30. June

- Follow us on Twitter: @BayFOR_UEB

UPSCALE

UPSCALING THE BENEFITS OF PUSH-PULL TECHNOLOGY FOR SUSTAINABLE AGRICULTURAL INTENSIFICATION IN EAST AFRICA

EU-Africa cooperation on sustainable agricultural intensification: the UPSCALE Example

Adewole Olagoke & Emily Poppenborg Martin
Leibniz University of Hannover, Germany

Circularity & Bioeconomy | 16 June 2021

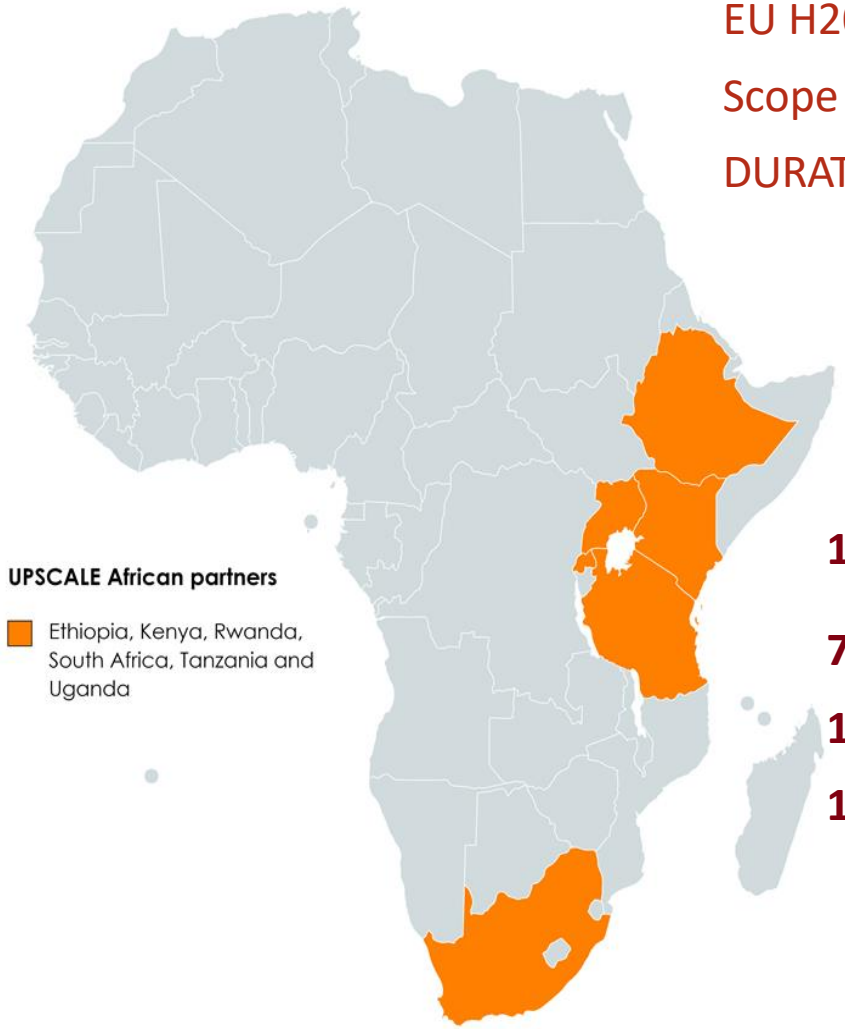
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 861998.

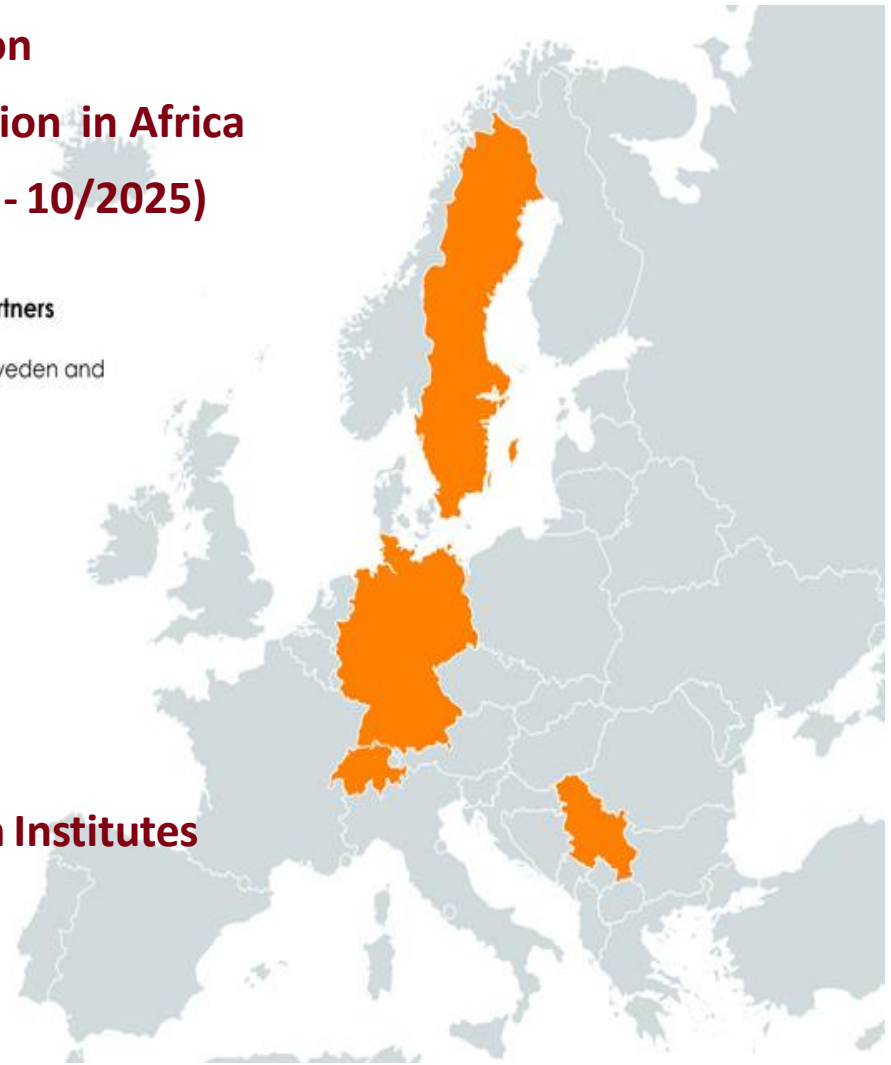
UPSCALE FACTS & FIGURES

EU H2020 FUNDING: **€7.66 million**

Scope A: **Sustainable intensification in Africa**

DURATION: **60 months (11/2020 - 10/2025)**





18 PARTNER INSTITUTIONS:

7 Universities

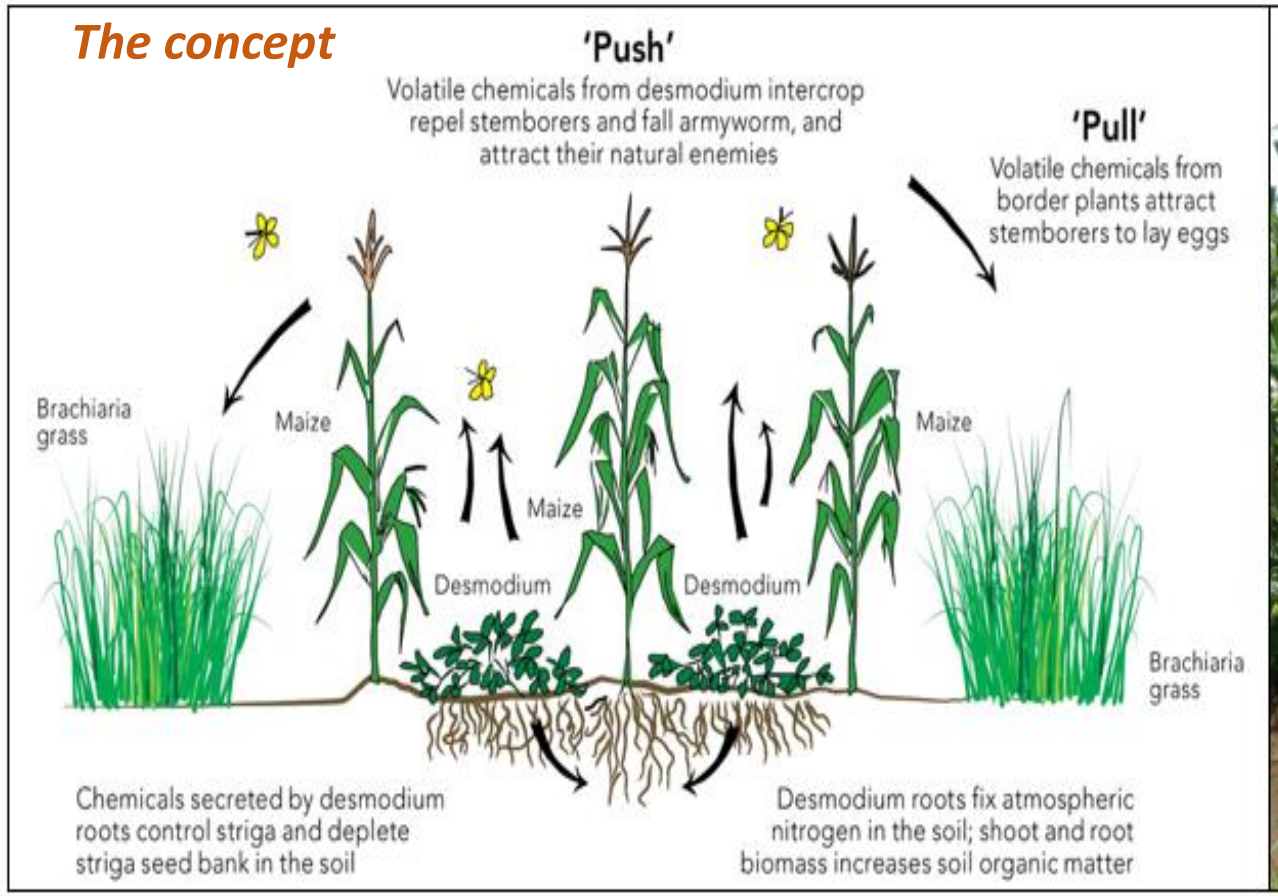
1 SME

10 Associations & Research Institutes

Leibniz Universität Hannover

UPSCALE

THE PUSH-PULL TECHNOLOGY



Adapted from Pickett et al. (2014). 10.1016/j.copbio.2013.12.006

Photo credit: *icipe*.

YIELDS: 1.5 – 3 folds

Purely ORGANIC

Natural pest control

Soil fertility ↑

Water preservation

Climate-smart

Livelihood

Food security

Gender empowerment

Leibniz Universität Hannover

UPSCALE OBJECTIVES

UPSCALING THE BENEFITS OF PUSH-PULL TECHNOLOGY FOR SUSTAINABLE INTENSIFICATION IN EAST AFRICA

ADDRESS FOOD SECURITY , LIVELIHOODS & CLIMATE CHANGE RESILIENCE IN EAST AFRICA WHILE REDUCING THE ENVIRONMENTAL IMPACT OF AGRICULTURAL PRACTICES

FOSTER THE DESIGN, ADAPTATION AND ADOPTION OF STRATEGIES FOR INTEGRATED AGRO-ECOLOGICAL MANAGEMENT BASED ON PUSH-PULL TECHNOLOGY FOR WIDE-SPREAD AND CLIMATE-RESILIENT SUSTAINABLE INTENSIFICATION IN EAST AFRICA

INNOVATION METHODS

MACs EMPLOYED IN TRAINING AND COMMUNICATION AMONG SCIENTISTS AND STAKEHOLDERS

CAPTURE AND MOBILISE THE INNOVATION POTENTIAL AMONG FARMERS TO STIMULATE LONG-LASTING ENGAGEMENT AND FURTHER DEVELOPMENT OF SUSTAINABLE INTENSIFICATION TECHNOLOGIES.

NOVEL APPLICATION OF ECOLOGICAL METHODS, MODELLING TOOLS AND SOCIAL-ECOLOGICAL APPROACHES

DEVELOP AND ADAPT INNOVATIVE DISSEMINATION TOOLBOXES : KNOWLEDGE HUB, MOBILE APP, INTERACTIVE INTEGRATIVE MAPS FOR SPATIAL TARGETING OF DISSEMINATION EFFORTS

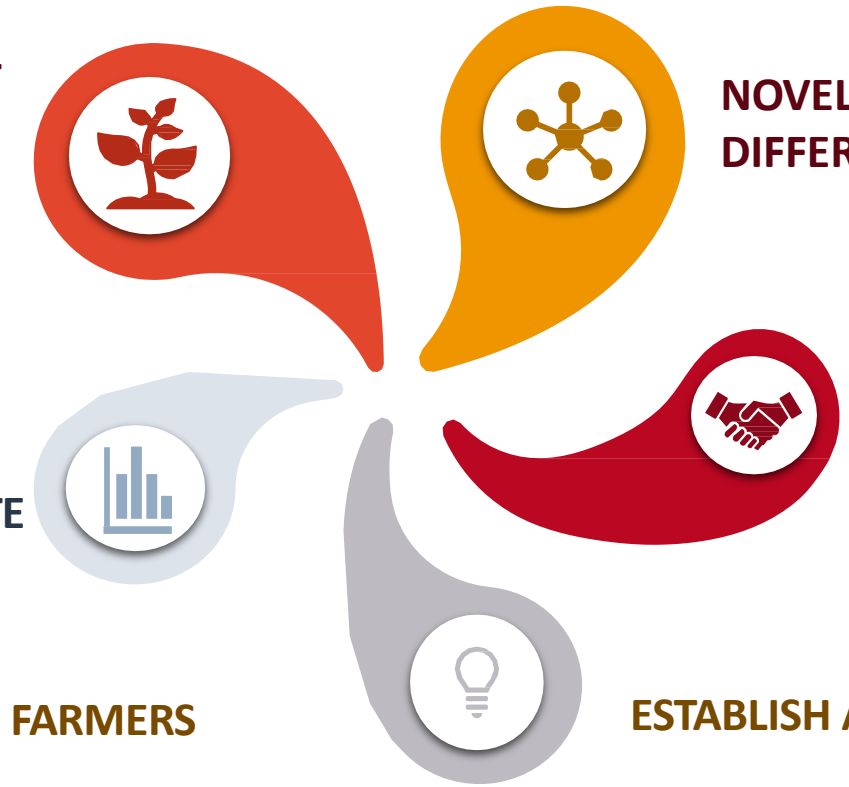
UNLOCK THE POTENTIAL OF PUSH-PULL TECHNOLOGY FOR OTHER REGIONS AND CULTIVATION SYSTEMS

UPSCALE IMPACTS

ENABLE PREDICTIVE ASSESSMENT OF PUSH-PULL EFFECTIVENESS

EMPOWER AFRICAN WOMEN FARMERS

DOUBLE CURRENT ADOPTION RATE



NOVEL PUSH-PULL SOLUTIONS IN DIFFERENT CROPPING SYSTEMS

LEAD TO IMPROVED INCOMES AND YIELDS

TRAIN FARMERS

ESTABLISH A NEW, INTEGRATIVE APPROACH

Leibniz Universität Hannover

UPSCALE

UPSCALE IMPACTS

For Farmers

INCREASED AGRICULTURAL PRODUCTIVITY BY MANAGING KEY CONSTRAINTS, INCLUDING INSECT PESTS

ENSURING SUSTAINABILITY THROUGH TECHNOLOGIES THAT ALLOW FOR SUSTAINABLE INTENSIFICATION OF FARMING SYSTEMS AND IMPROVED ACCESS TO PRODUCTIVITY ENHANCING TECHNOLOGIES

MARKET-DRIVEN SOLUTIONS FOCUSED ON VALUE CHAIN OPTIMIZATION

UPSCALE IMPACTS

For EC Institutions & Policymakers

KNOWLEDGE TO CURB INVASION OF PESTS, IMPROVE AND MAINTAIN FOOD SECURITY & RESILIENCE UNDER CURRENT AND FUTURE CLIMATES, AND MAINSTREAM GENDER

EVIDENCE-BASED POLICY FORMULATION IN THE AREAS OF SUSTAINABLE INTENSIFICATION OF AGRICULTURE, TECHNOLOGY DEVELOPMENT AND IMPLEMENTATION

INPUT AND OUTPUT MARKETS TO DRIVE TECHNOLOGY ADOPTION

UPSCALE

@upscale_h2020 @upscale_h2020 UPSCALE Project

upscale-h2020.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 861998.

National Institute of Agricultural Technology (INTA)

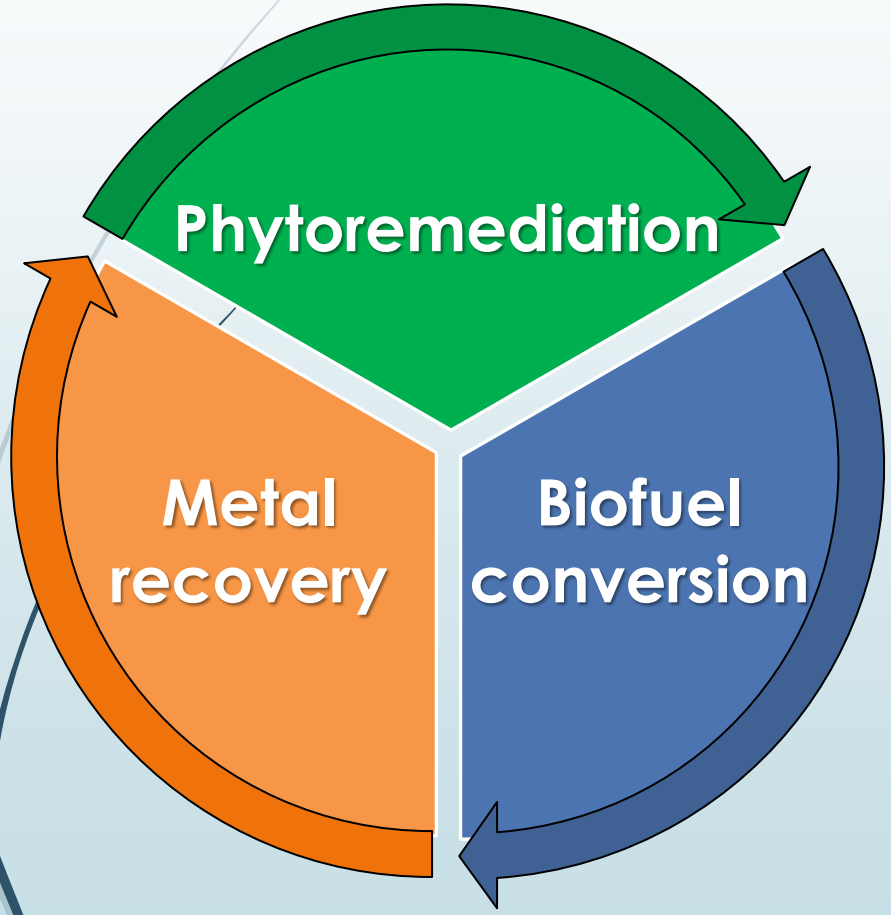
Phy2Climate

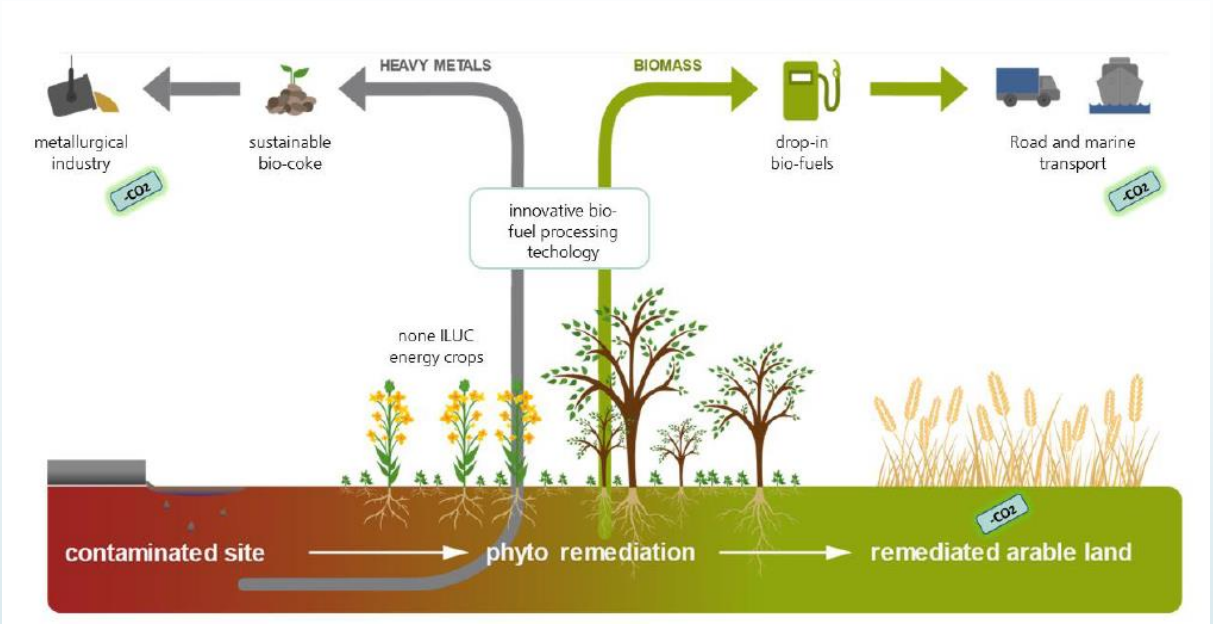
Phytoremediation of mining waste and conversion to biofuels: An Argentine case study

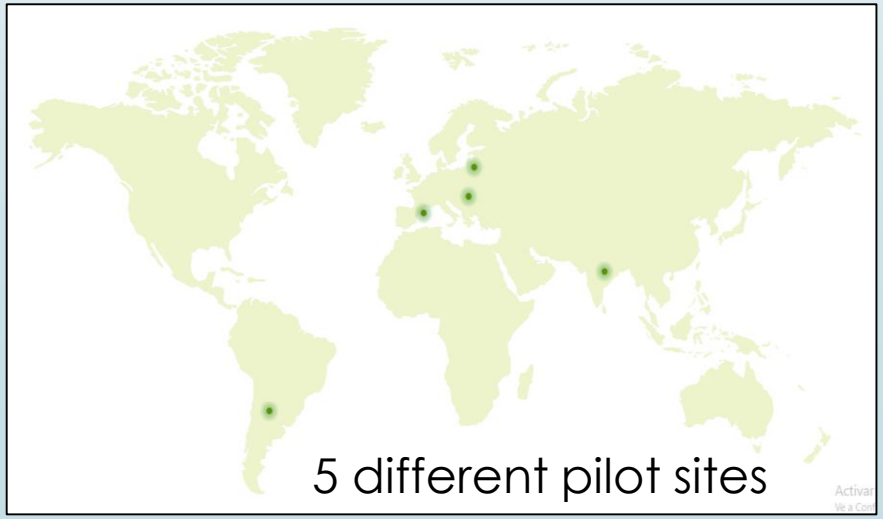
Dr. Brian Jonathan Young

Horizon Europe – Circularity & Bioeconomy
How to match your R&I proposal with EU and regional strategies
Organised by Bavarian Research Alliance (BayFOR) GmbH

Phy2Climate Project – a short introduction



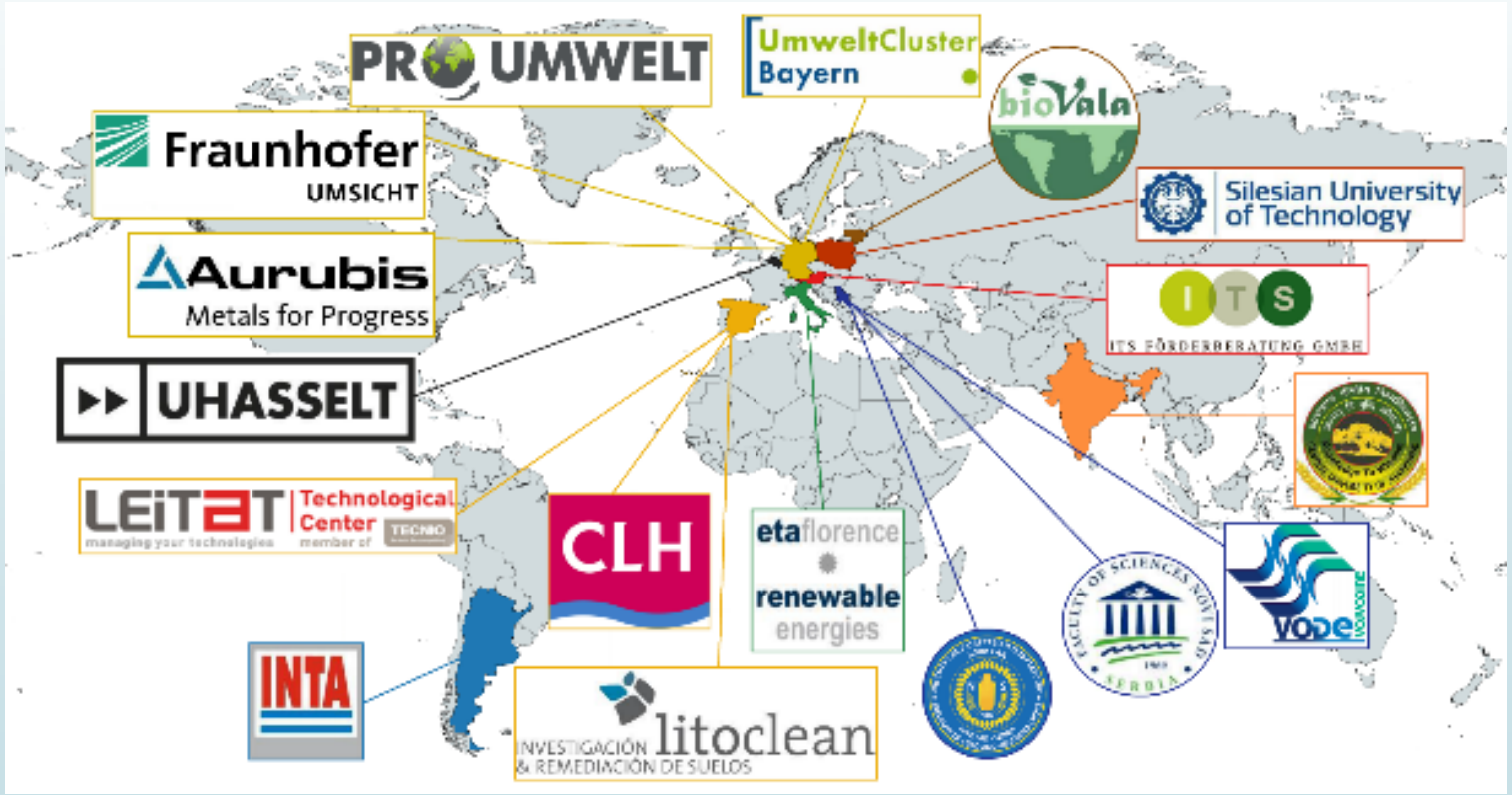




Key Data

- Project period 1.1.2021 - 30.06.2025
- 17 beneficiaries
- 3 Continents
- 10 different languages

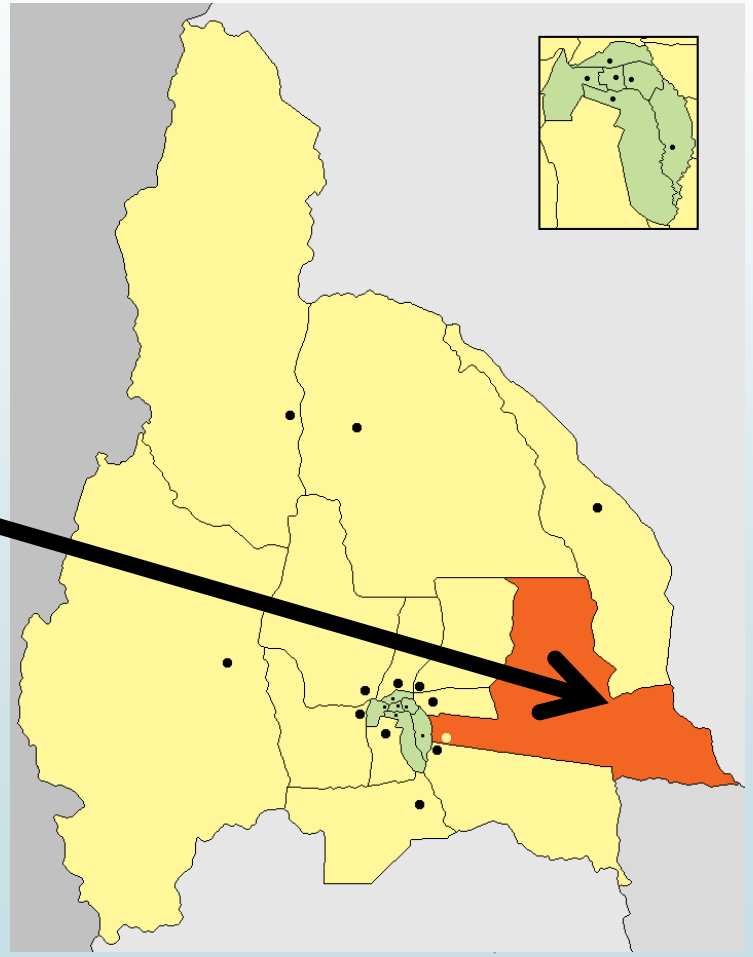
Website:
https://www.phy2climate.eu/



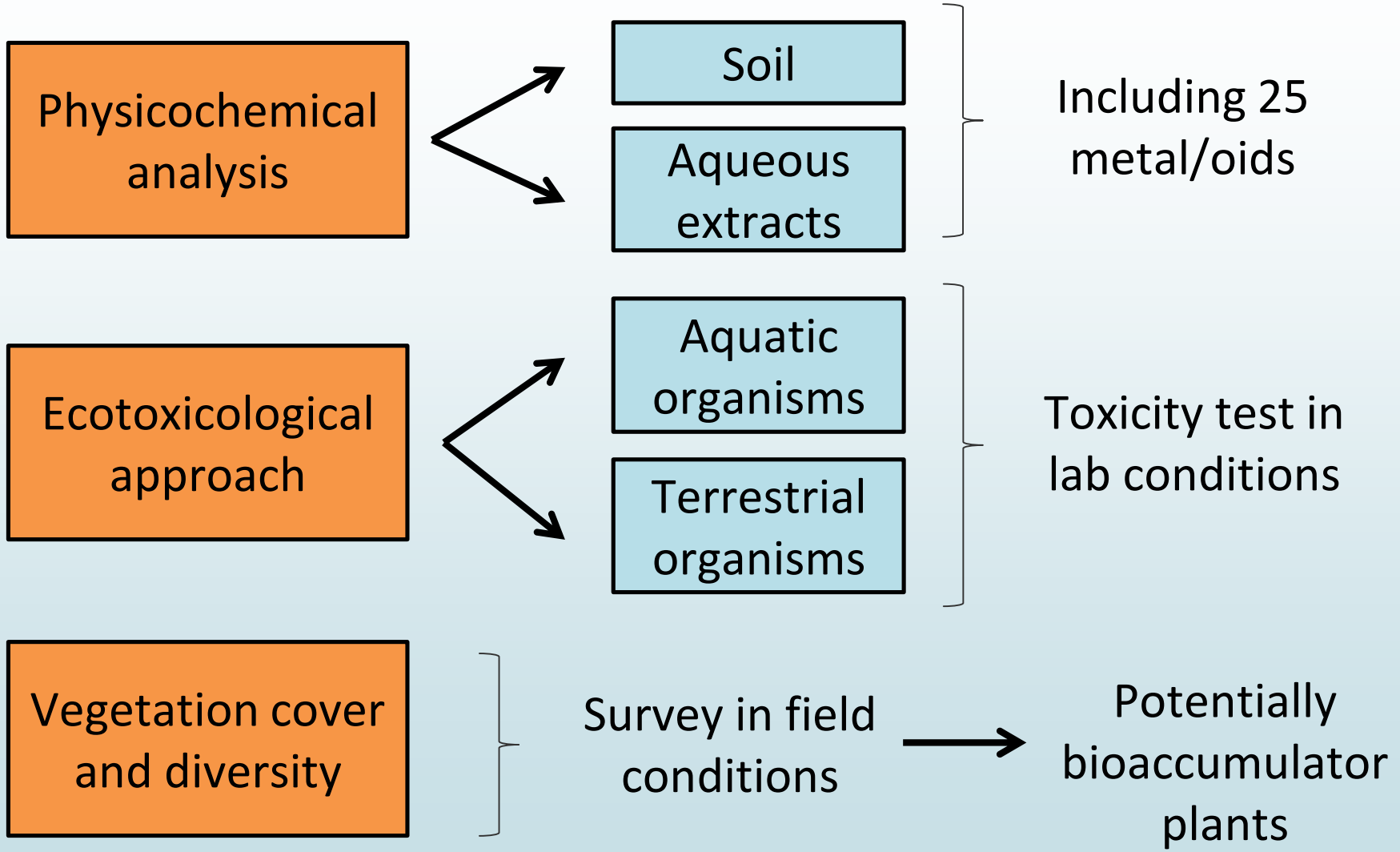
Project coordinator: Prof. Markus Ortner (Markus.ortner@its-foerderberatung.at)

Pilot site leader

Location: La Planta, San Juan Province, Argentina



Background: Abandoned gold mine



Physicochemical analysis in soil

Contaminated site

Parameter	Value
pH	2.86
Conductivity (mS cm^{-1})	25.4

Reference site

Parameter	Value
pH	8.10
Conductivity (mS cm^{-1})	0.2

Metal/oid	Concentration (mg kg^{-1})	
Aluminum (Al)	377	
Antimony (Sb)	63.9	
Arsenic (As)	1040	227x
Bismuth (Bi)	8.2	56x
Cadmium (Cd)	30.7	
Copper (Cu)	134	29x
Iron (Fe)	3740	
Manganese (Mn)	350	4x
Molybdenum (Mo)	148	
Lead (Pb)	264	57x
Zinc (Zn)	5340	117x

Aquatic organisms

Desmodesmus spinosus
(Sphaeropleales)

Daphnia magna
(Cladocera)

Cnesterodon decemmaculatus
(Cyprinodontiformes)

52% of the endpoints have values of EC_{50} less than **1%** concentration

Lactuca sativa
(Asterales)

Raphanus sativus
(Brassicales)

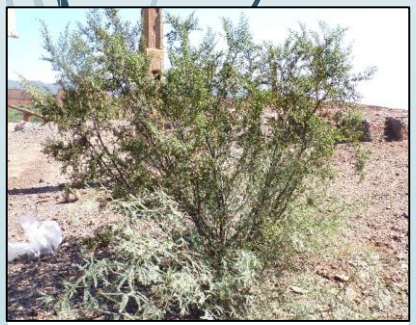
Allium cepa
(Asparagales)

Eisenia andrei
(Haplotaxida)

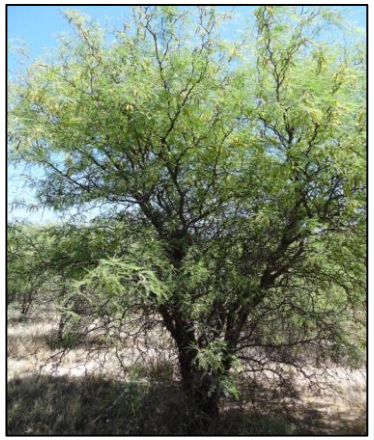
Terrestrial organisms

Most contaminated site: 3 ha

Bulnesia retama



Larrea cuneifolia

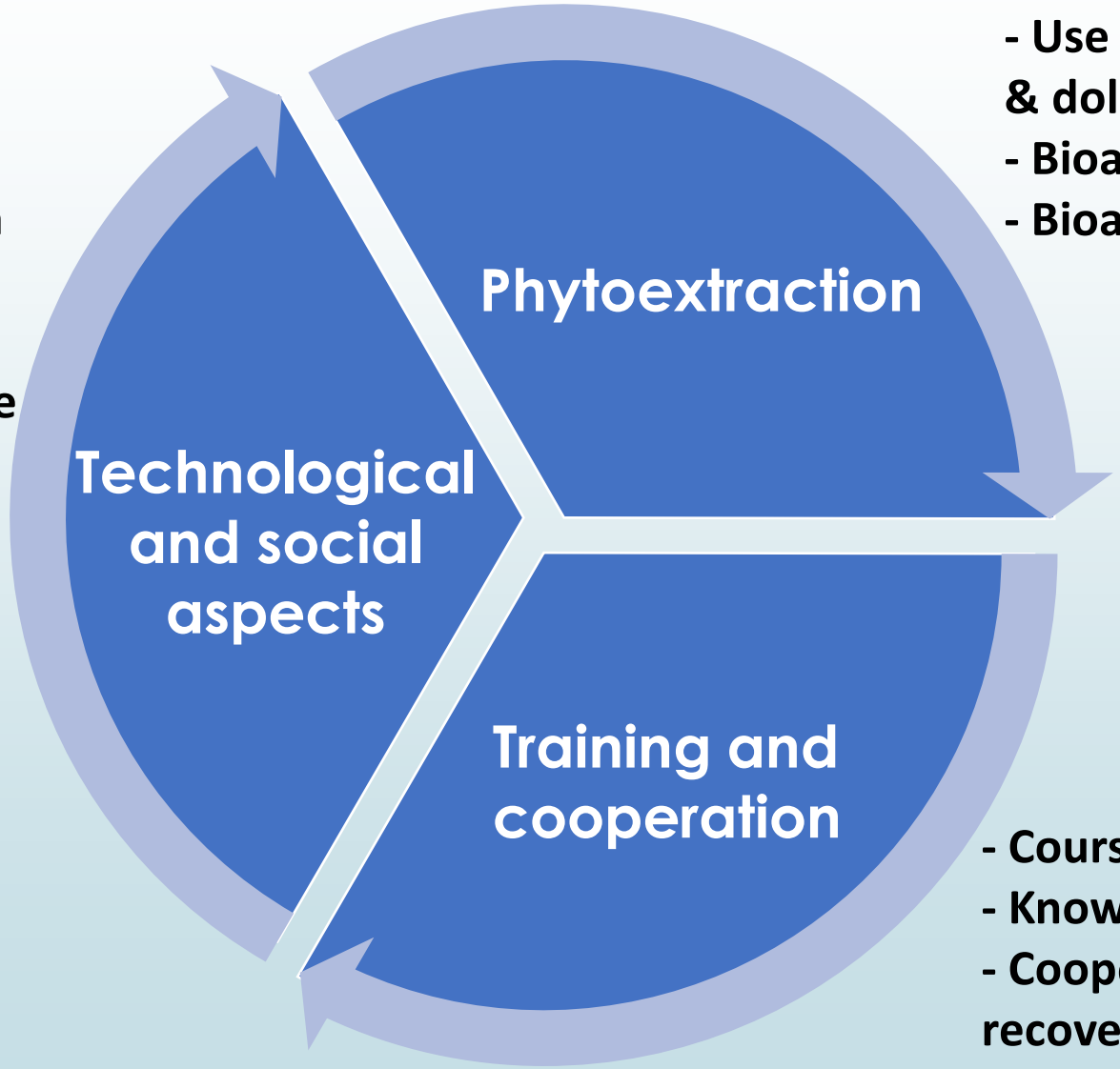


Prosopis flexuosa

Plectrocarpa tetracantha

Expected impact of Phy2Climate in Argentina

- Participatory Action Research (PAR)
- Technological transference (research ↔ society, productive sector & government)
- Tools for environmental monitoring



- Studies in lab & field conditions
- Use of amendments (compost & dolomite)
- Bioaccumulation
- Bioavailability

- Courses & Workshops
- Knowledge exchange
- Cooperation with EU-partners to recover Cu and produce biofuel
- Visits to pilot sites & labs

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 101006912.

www.phy2climate.eu

@phy2climate

phy2climate

info@phy2climate.eu

Thanks for your attention!

Dr. Brian Jonathan Young
young.brian@inta.gob.ar


Gonzalo Roqueiro
PhD


Raúl Tapia
PhD


Belén Heredia
PhD candidate


Pedro Rizzo
PhD


Mariana Martinelli
PhD


Simón Tornello
Agr Eng


Brian Young
PhD

CLOSED-LOOP RECYCLING OF PVC FLOOR COVERINGS

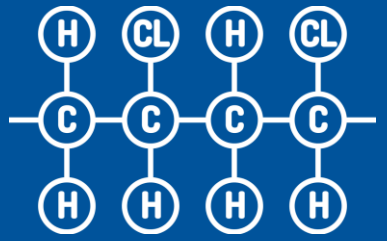
DR. ANDREAS WINTER

HORIZON EUROPE - CIRCULARITY & BIOECONOMY

JUNE 16, 2021

WESTLAKE CHEMICAL CORPORATION
GLOBAL DIVERSIFIED PRODUCT MIX

2nd largest
Chlor Alkali producer
in the world



2nd largest
producer of PVC
in the world

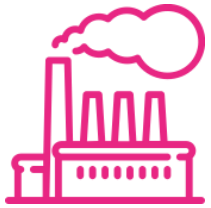
Largest
specialty LDPE producer
in The Americas

2nd largest producer of
Low Density Polyethylene
in North America

Westlake | NAPCO PIPE & FITTINGS | Westlake Global Compounds | Vinnolit | ROYAL Building Products | DaVinci Roofscapes | The Westlake Family of Companies

VINNOLIT GMBH & CO. KG
FACTS

FOUNDED
1993
A Westlake Company
(since 2014)



A key player in European PVC business

A WOLRD LEADER
IN PVC SPECIALTIES

RELIABLE PARTNER FOR
CAUSTIC SODA

1.400
EMPLOYEES

INTEGRATED FROM
CHLORINE/CAUSTIC SODA TO PVC

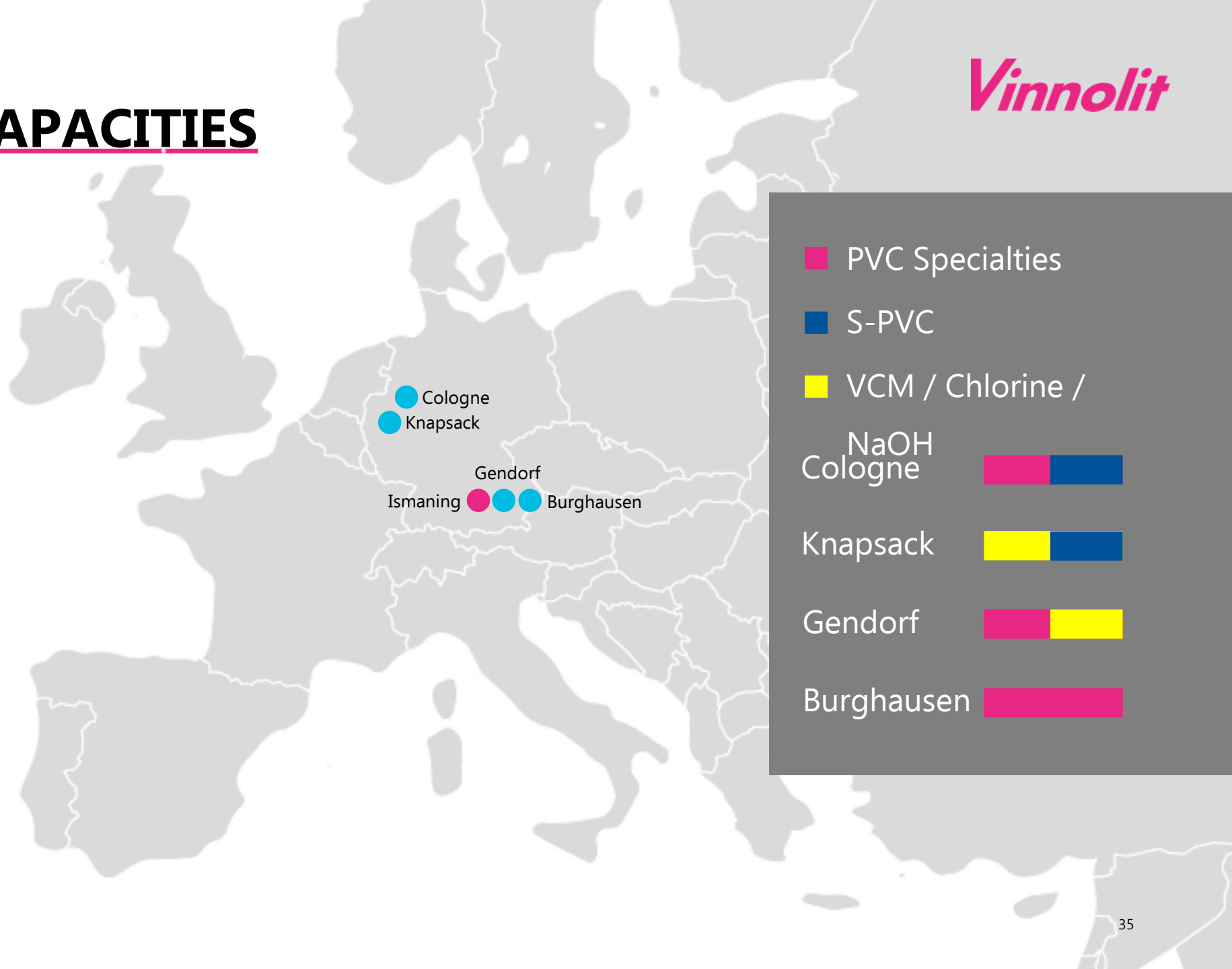
PRODUCTION CAPACITIES

Total Capacity

PVC 730 kt

VCM 690 kt

NaOH (100%) 500 kt



Project Profile

Project	Circular Flooring (New Products from Waste PVC Flooring and Safe End-of-Life Treatment of Plasticizers)
Coordination	Fraunhofer IVV, Dr. Martin Schlummer
Funding scheme	Horizon 2020, Grant Agreement Number 821366
EU funding	€ 5.4 million
Duration	4 years (06/2019-05/2023)
Website	www.circular-flooring.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 821366

Project Objectives

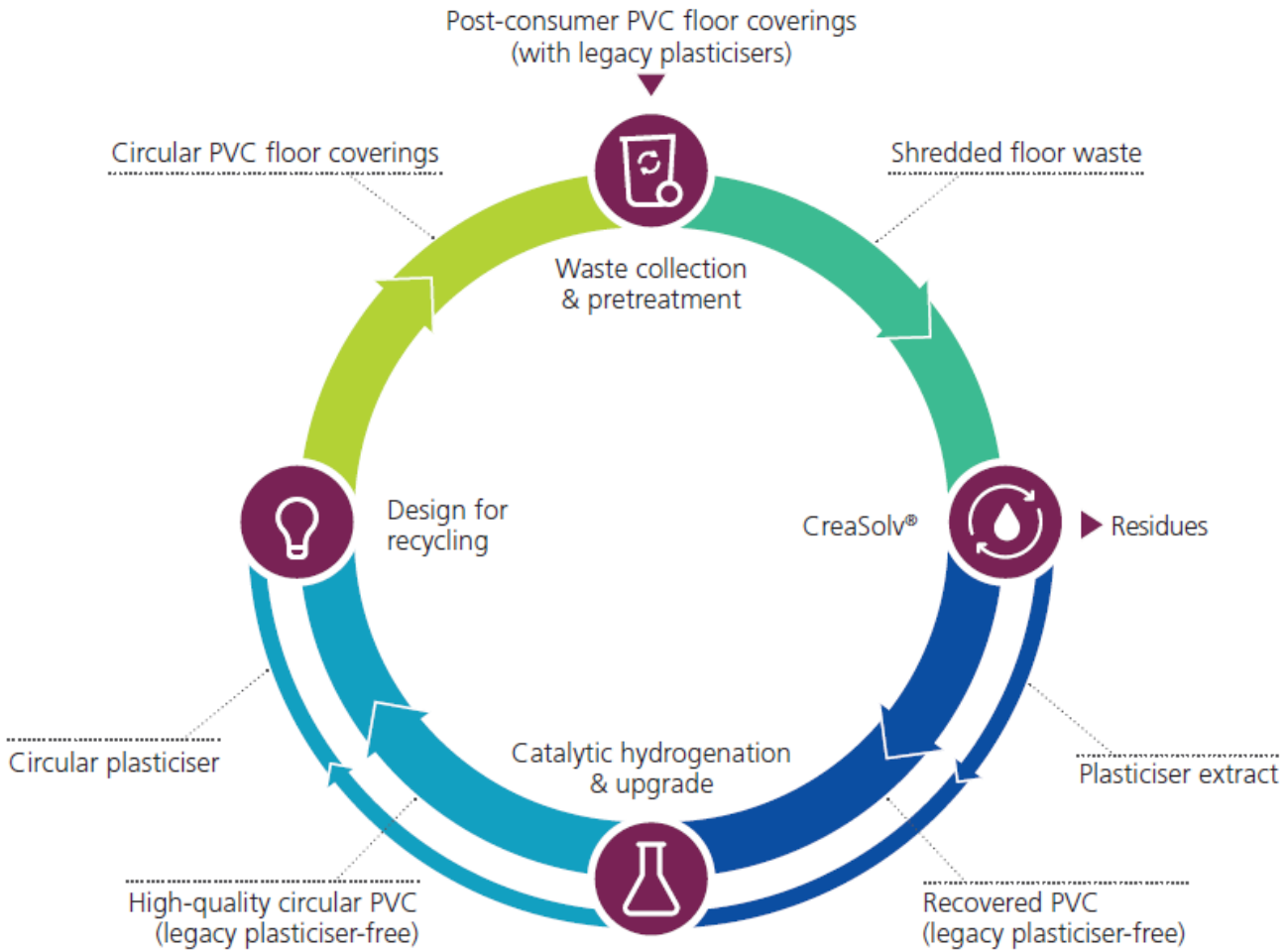
The aim of the EU-funded project Circular Flooring is to enable the circular use of plasticized PVC from waste flooring by developing recycling process that eliminate legacy phthalic acid esters that are not conform with the EU REACH Directive.

Main objectives:

- Develop a process for recovering secondary legacy plasticiser free PVC from flooring waste, thus preventing usable resources from landfill or incineration
- Demonstrate circularity of PVC in flooring and applicability of non-phthalate plasticizers that are compliant to REACH from waste flooring
- Assessment of environmental, health and safety impacts and techno-economic feasibility

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 821366

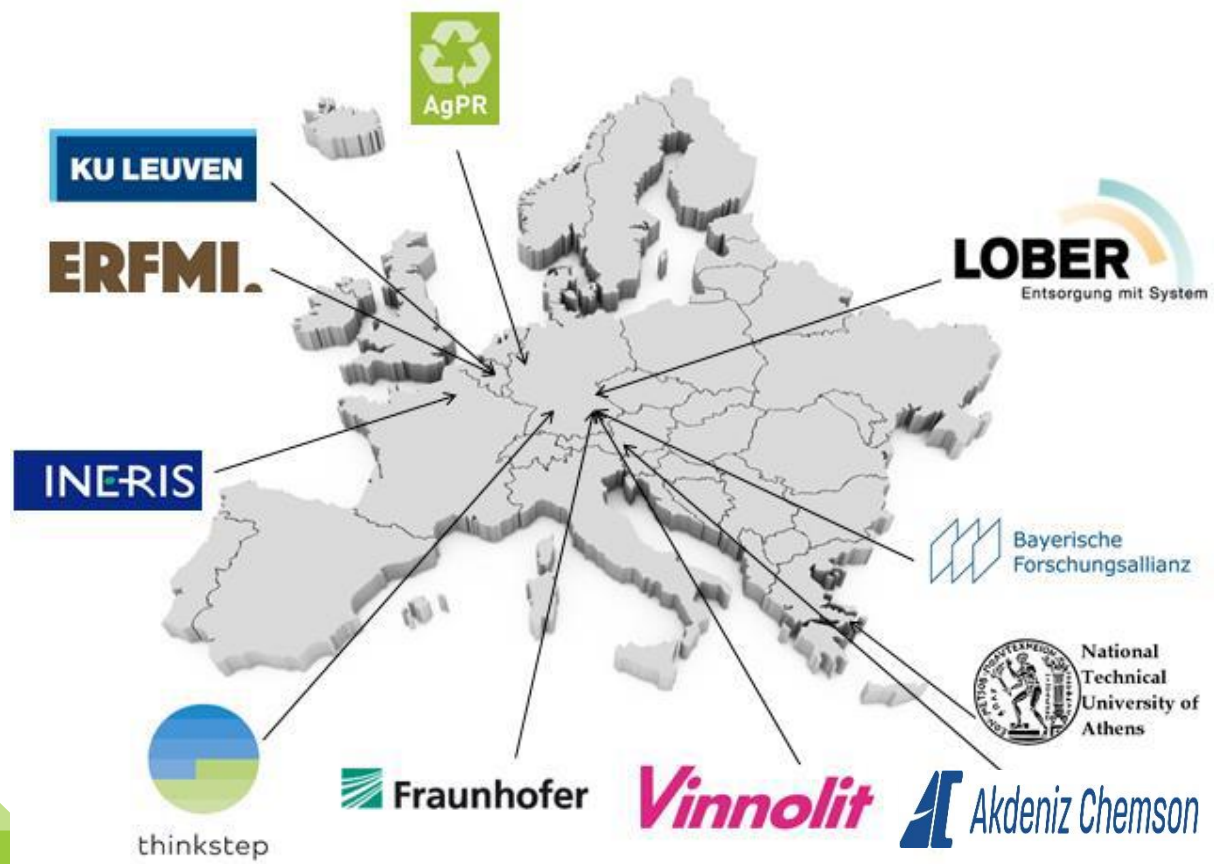
The Recycling Process

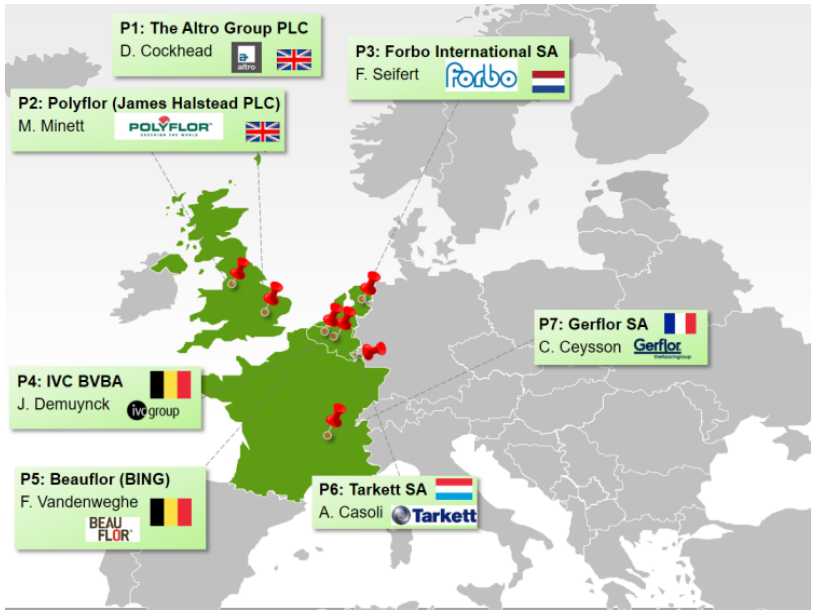


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 821366

Circular Flooring Consortium

Consortium





Linked Third Parties

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 821366

WHAT DOES VINNOLIT CONTRIBUTE TO THE PROJECT ?

The Technical Service Center at the Burghausen site

Dry blends in hot/cool-mixers
from 10 l up to 200 l

Photos: Vinnolit

Calandering

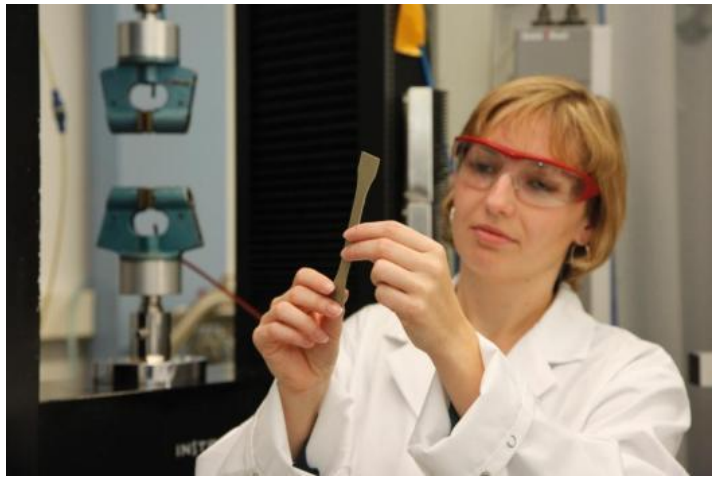
Extrusion

And also: modern two roll mills and moulding press
for small lab trials

WHAT DOES VINNOLIT CONTRIBUTE TO THE PROJECT ?

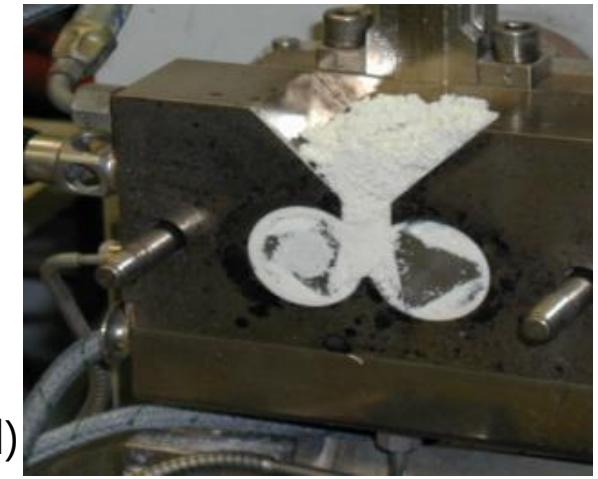
The Physical Testing Lab

- mechanical properties of semi-finished goods:
  for example tensile strength, Shore, cold crack temperature, dynamic mechanical analysis and others
- Thermal stability, Vicat softening temperature, chemical resistance, water absorption, plasticiser migration, weathering tests (Xenon, QUV-A and B)
- powder properties: fluidity, pour behaviour, colour



Test of tensile strength
Photos: Vinnolit

Gelation test (from dryblend)



WHAT DO WE HOPE TO ACHIEVE WITH THE PROJECT?

- A qualitative and quantitative leap in the post-consumer recycling of PVC flooring
- The elimination of currently undesirable additives (certain phthalate plasticizers)
- The conversion of these undesirable plasticizers into REACH-compliant plasticizers
- A high recyclate quality that can be reused in the flooring sector

Thank you for your attention

Vinnolit GmbH & Co. KG | Carl-Zeiss-Ring 25 | 85737 Ismaning | Germany
Telefon: +49 89 96103-0 | E-Mail: info@vinnolit.com

Vinnolit ist ein Unternehmen der Westlake-Gruppe.

www.vinnolit.com

LOW CARBON AND CIRCULAR ECONOMY BUSINESS ACTION IN THE AMERICAS

LOCATION: BRAZIL, ARGENTINA, COLOMBIA AND CHILE

LCBA
LOW CARBON BUSINESS ACTION
ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

IDOM · giz

LOW CARBON AND CIRCULAR ECONOMY BUSINESS ACTION

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

The LCBA is a business platform to increase trade volumes and economic exchange between the EU and Latam companies seeking for energy efficient, low carbon and circular economy solutions. For this purpose, the project brings together multidisciplinary players and stakeholders:

Key Target Groups

EU SMEs and **small-mid caps** (technology providers)

Companies in target countries

Other Stakeholders

- Governmental Institutions
- Financial Institutions
- Clusters
- Chambers of Commerce
- Universities
- Technological Centres
- Associations

MAIN GOALS & SECTORS

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

This business-driven initiative aims to promote the principles of

EUROPEAN GREEN DEAL & UNITED NATIONS PARIS CLIMATE AGREEMENT

The project enhances the sustainable transition of companies to a low carbon and circular economy via:

Internationalization of EU SMEs providers supporting innovation & sustainability of local counterparts

Increase competitiveness of Argentinian, Brazilian, Chilean and Colombian companies thanks to green technology transfer

STRATEGIC LCBA SECTORS

- AGRICULTURE & FORESTRY ACTIVITIES
- RENEWABLE & CLEAN ENERGY
- BIOFUELS
- INDUSTRIAL PROCESSES
- WASTE TO ENERGY
- ENERGY EFFICIENCY

LCBA SECTORS

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA
This project is funded by the European Union

Technological areas:

- Energy Efficiency Buildings
- Energy Efficiency Industry
- Carbon Capture & Storage (CCS)
- Transport
- Cogeneration
- Solar PV
- Wind Power
- Hydropower
- Biomass
- Biogas & Biomethane
- Biodiesel
- Anaerobic Digestion
- Aerobic Composting
- Waste Collection & Treatment
- Manure Management
- Smart & Precision Agriculture
- Low Carbon Agriculture
- Agroforestry & Restoration of Forest
- Landfill disposal
- Wastewater Treatment

LCBA SERVICES

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

Transforming low carbon technology demands into effective sales contracts

Sept. 2020

Sept. 2023

Market Intelligence

In-depth low carbon market analysis, regulatory framework, economic and technological trends and engagement of key players

Identifying mitigation sectors and technology demands

In Argentina, Brazil, Chile and Colombia

Business Opportunities

Matchmaking

Bringing together EU technology providers and LATAM companies to implement a sustainable business project

Promoting interactions with clusters, industrial associations, governments and financial entities, within a low carbon ecosystem

Get the right partners

Technical Assistance

Providing technical assistance services to help business partners overcome difficulties throughout the whole process

Supporting the replicability and scaling up of business projects in the target countries

Close the deal

IDOM · giz

HOW TO PARTICIPATE IN LCBA

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

1. Register as a participant
   https://latam.lowcarbonbusinessaction.com/apply-to-lcba/
2. Checklist and Technology Needs Assessment
3. Characterisation of projects (BO, Business Opportunity)

IDOM · giz

LCBA SELECTION CRITERIA

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

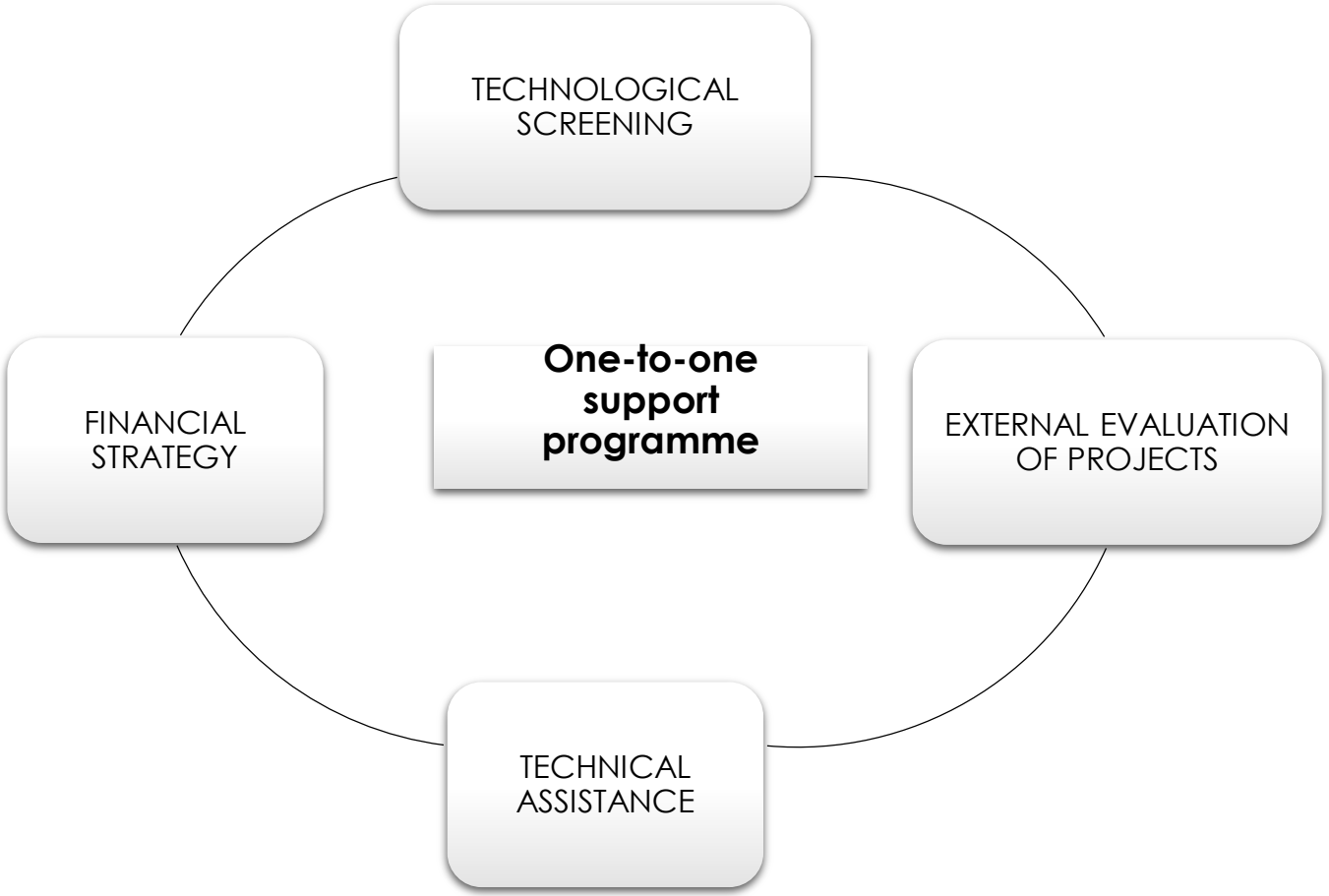
- IMPORT OF EUROPEAN UNION TECHNOLOGY
- POSITIVE ENVIRONMENTAL IMPACT (GHG REDUCTION, WATER RESOURCES, ENERGY EFFICIENCY, WASTE....)
- PURCHASE OF TECHNOLOGY FROM SMEs/MID-CAPS EU <499 employees >51% equity EU
- EXPECTED CLOSURE OF THE AGREEMENT UNTIL Q2-2023

LCBA'S VALUE PROPOSITION

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

Through specialised and individualised support for the Latin American industry



BUSINESS OPPORTUNITIES : ARGENTINA

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA
This project is funded by the European Union

BIOGAS PLANT

- **Project:** Waste from different industries (pig farms, candy manufacturer, vegetable oils, cattle and pig slaughterhouse).
- **Technological Need**: Biogas Plant (anaerobic digester, hydrolysis tank, mixing pumps, energy converter)
- **CAPEX EU (est.):** 2,6 M EUR

BIOMASS

- **Project:** Industrial cotton waste (5,000 to 8,000 tonnes per year) which allows the development of organic fertilisers.
- **Technological Need**: Industrial Pyrolytic Oven for Biochar Generation
- **CAPEX EU (est.)**: > 400.000 EUR

BIOMASS

- **Project:** Use of by-products derived from sugar cane production (bagasse) for electricity production
- **Technological Need :** bagasse burning boilers, pelletisation technology, chemical processes to extract potassium for biofertiliser production
- **CAPEX EU (est.)**: > 1 M EUR

BUSINESS OPPORTUNITIES: BRAZIL

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

BIOGAS PLANT

- **Project:** Installation of a biogas plant in the Rio de Janeiro municipal market (CADEG) for processing organic waste.
- **Technological Need:** plant design engineering services, including operation and construction management software.
- **CAPEX EU** est.: 200.000 EUR

SOLAR PV

- **Project** of a 1Mw offgrid photovoltaic plant on a farm, located in the State of Mato Grosso do Sul.
- **Technological Need:** hybrid system with batteries, including a pumping station. All the proposed equipment is European.
- **CAPEX EU** est.:
812.500 EUR
902.000 EUR (Total)

ENERGY EFFICIENCY

- **Project:** Implementation of advanced systems (software and hardware) for the automatic detection of anomalies in the facilities using artificial intelligence techniques (energy efficiency).
- **Technological Need:** multiprotocol data collector with integrated PLC for concentration and communication of industrial signals to be monitored.
- **CAPEX EU** est.:
15.000 EUR / 222.222 EUR

BUSINESS OPPORTUNITIES : CHILE

SOLAR THERMAL ENERGY FOR THE MINING SECTOR

- **Project**: Construction of a solar thermal plant to heat a leaching heap.
- **Technological Need**: Solar Collector, Solar Thermal Panels from an EU Supplier
- **CAPEX EU est**: 418.020 EUR

FOREST MANAGEMENT

- **Project:** Construction of an integrated sawmill with pellet production technology
- **Technological Need**:
- Sawmill, Pelletising equipment, Boiler, "green" and "dry" pine lumber, Bagged wood pellets mainly for residential use, Bulk wood pellets.
- **CAPEX EU est**: 8.000.000 EUR

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA
This project is funded by the European Union

BUSINESS OPPORTUNITIES COLOMBIA

MONITORING SYSTEM AND SOFTWARE

- **Project:** Implementation of software technology for intelligent waste treatment and efficient use of natural resources.
- **Technological Need** : Software, intelligent detection and monitoring systems
- **CAPEX EU (est.):** > 0,5 M EUR

BIOFERTILISER PRODUCTION

- **Project:** Biofertiliser production from sludge and waste.
- **Technological Need** : Processing industrial and domestic waste, WWTP sludge with a mixture of green waste, pruning, tree felling, bushes, etc. resulting in a compost product with high nutritional value through the technology of filter sheets.
- **CAPEX EU (est.):** > 1,2 M EUR

GENERATION OF ENERGY FROM SUGAR CANE RESIDUES

- **Project:** To take advantage of the Agricultural Harvest Residues (RAC) of sugar cane as solid biofuel in the processes of thermal and electrical energy generation in the boilers of the sugar mills in Valle del Cauca.
- **Technological Need** : Vinasse and bagasse boilers, pelletisation technology, processes to produce biofertilisers.
- **CAPEX EU (est.):** > 2 M EUR

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA
This project is funded by the European Union

Case: Solar Thermal Energy (Chile)

- **Partners:** collaboration between the local technology integrator Solarmovil (Chile) and the European technology provider Rioglass Solar (Spain).
- Contact developed in the sectoral screening phase of companies in LCBA.
- **Client / projeto:** (*confidential)
- **Technology**: The solar thermal collector is cheaper and more compact than a photovoltaic collector for direct heat use, captures and transfers the sun's energy as heat with maximum efficiency, without losses due to intermediate transformation into electricity. Performance does not decrease with temperature, lifetime is 25 years and its main components in glass and stainless steel do not suffer degradation due to high UV ratios. Translated with www.DeepL.com/Translator (free version)
- **Benefits** The system increases productivity and reduces greenhouse gas emissions by displacing fossil fuels with solar heat.
- **Replicability:** mining (copper), dairy, meat, concrete, concrete
- **LCBA support** (in validation): technical modelling of the solution.

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA
This project is funded by the European Union

LCBA COLLABORATION: NEXT STEPS

LCBA LOW CARBON BUSINESS ACTION ARGENTINA, BRAZIL, CHILE, COLOMBIA

This project is funded by the European Union

- Food System
- Biomass, Biogas & Biomethane
- Energy efficiency
- Low Carbon Smart Agriculture
- Solar PV
- Waste collection & Treatment
- Waste to Energy

- Food System
- Biomass, Biogas & Biomethane
- Waste to Energy
- Energy efficiency
- Livestock management
- Low Carbon, Smart & Precision agriculture
- Manure management
- Solar PV
- Waste collection & Treatment
- Wastewater treatment & Water management & irrigation

+55 (11) 2589-4023

latam@lowcarbonbusinessaction.com

www.latam.lowcarbonbusinessaction.com

LCBA
LOW CARBON BUSINESS ACTION
ARGENTINA, BRAZIL, CHILE COLOMBIA

This project is funded by the European Union

IDOM • giz

The Low Carbon and Circular Economy
Business Action in the Americas

Up next: Guided breakout rooms for interaction

Please log into your respective session room **5 minutes before the start of the session (GoToMeeting)**

GoToMeeting-Breakout Room 1 (Melanie Schulte + Thomas Ammerl)

European funding opportunities and international cooperation within Horizon Europe

GoToMeeting-Breakout Room 2 (Agustina Gualdoni + Susanne Hirschmann)

Circularity & Bioeconomy – challenges, impact creation and solutions

- You will find the link in the chat – please copy it and paste it in your browser
- Log out of GoToWebinar during the breakout sessions

Thank you for your attention!

Bavarian Research Alliance GmbH

Photo: © Bavarian Research Foundation, Christine Reeb

Headquarters in Munich

Prinzregentenstraße 52
80538 Munich
Germany

Phone:
+49 (0)89 99 01 888-0
Email: info@bayfor.org
www.bayfor.org

Foto: © Bayern Innovativ GmbH, Verena Kaister

Offices in Nuremberg

Am Tullnaupark 8
90402 Nuremberg
Germany

Phone:
+49 (0)911 507 15-900
Email: info@bayfor.org
www.bayfor.org

Offices in Brussels

Rue du Trône 98/7
B-1050 Brussels
Belgium

Phone: +32 (0) 2 - 513 41 21
Email: info@bayfor.org
www.bayfor.org