

# Life MATHER

Full material and chemical monitoring data and disclosure for the protection of the human health and environment

LIFE 2019 Conference Zagreb, 12.02.2019

Paola Basta
LIFE MATHER Project Coordinator









## **AGENDA**



1 LIFE MATHER - Project overview

2 LIFE MATHER – Main actions

3 BENEFITS OF THE LIFE PROGRAMME









# LIFE MATHER Project overview









#### LIFE MATHER





# Full **MAT**erial and c**HE**mical monito**R**ing

data and disclosure for the protection of the human health and environment

"Projects improving the use of chemical monitoring data (e.g. environmental monitoring, human biomonitoring, product monitoring, indoor air monitoring) in the protection of human health and the environment, by making the chemical monitoring data available, accessible, comparable and interoperable, and allowing for linking them with monitoring of human and environmental health and for assessment of exposures from chemical mixtures via various routes of exposure."







## MATHER CONSORTIUM PARTNERS





#### **COORDINATOR**

Provides the LIFE MATHER Tool requirements, data on manufacturing processes and data on products and components. It will also validate the tool with a sample of its products.



IT development of the LIFE MATHER Tool including DBs integration. Knowhow and tool integration of principles of LCA and impacts on the environment and chemicals data.



Replication focuses activities to involve EU companies for the LIFE MATHER tool validation. Socio economic impacts analysis and dissemination







#### **OVERVIEW**





Design, implement and demonstrate a new data monitoring tool that will create an interoperable connection between the list of materials used by a company in its products with the material related impacts on environment, health and also regulations.

- Enhancing the consciousness of human and environmental impacts of materials and chemicals used in purchased components for own products
- Highly reducing internal costs, related to the continuous updating of materials databases
- Dramatically reducing the time-to-compliance with regulations of products before accessing the market
- Support companies and policy makers in a more conscious selection and use of chemicals in products and guarantee the prompt implementation of EU policies & directives related to chemicals in EU products and production processes

ACTIONS		2017			2018					2019			2020			
		II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
A – Preparatory Actions					<b>•</b>				ı							
B – Implementation Actions															•	
C – Monitoring of the impact															•	
D – Public Awareness&Dissemination															•	
E – Project Management																









#### **ENVIRONMENTAL PROBLEM TARGETED**





According to ECHA, chemicals are the building blocks of life. They are present in us, all around us, and in every product we buy.

However, the use of substances with certain hazardous properties can be of concern for human health and/or the environment.

The EU legislation sets the highest chemical safety standards in the world. It's companies' responsibility is to make sure that the chemicals and products brought into the EEA comply with these requirements.





The LIFE MATHER project, thanks the development of an IT tool, will connect the list of materials used by a company in its products with the material related impacts on environment, health and regulations. This will provide an effective support to companies for design activities, giving the possibility to identify the materials with more relevant impacts and find a solution to substitute them with more environmentally friendly materials.









#### **EXPECTED RESULTS**





The LIFE MATHER Tool will be able to alert on use of hazardous materials, chemicals and processes pushing firms to amend and replace inappropriate conditions and will supply firms and users with information and suggestions for product / process alternatives of lower environmental & health impacts.

- Reduction of costs and time related to the continuous updating of materials DB
- Early identification of a normative change
- Full transparency of the supply chain
- Reduction of costs related to the purchase of not compliant material
- Increased of company competitiveness in the market for "environmental and health care"
- Increased awareness about the use of critical chemical materials
- Increased awareness on consumers about the need of a transparent supply chain
- Increased suppliers motivation on using recycled materials









## **ACTIONS OVERVIEW**



Α	PREPARATORY ACTION •	Identification of health/environment data  Analysis of the current EU legislation on chemicals
В	IMPLEMENTATION ACTION	<ul> <li>MATHER TOOL Design and Development</li> <li>Definition of technical and users requirements</li> <li>Tool Design and Implementation</li> <li>Test, optimization and demonstration</li> <li>Exploitation strategy and replicability potential</li> </ul>
С	MONITORING OF THE IMPACT	<ul> <li>Environmental Impact and Human Health Exposures         Assessments         Evaluation of the Socio-economic impacts of the project     </li> </ul>
D	PUBLIC AWARENESS & DISSEMINATION	<ul> <li>Website, workshops, promotional materials, public events</li> <li>Networking with other LIFE Projects and co funded projects</li> <li>Definition of Guidelines for Policy Makers and Health Units</li> </ul>









**PROJECT MANAGEMENT** 

## **BUDGET OVERVIEW**

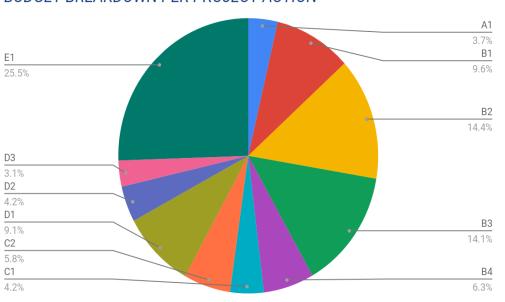




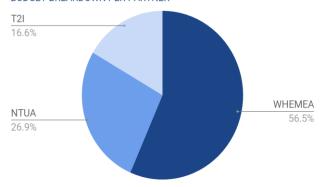
**TOTAL BUDGET: € 1.580.774** 

*GRANT:* € 935.521

#### **BUDGET BREAKDOWN PER PROJECT ACTION**



#### BUDGET BREAKDOWN PER PARTNER











# LIFE MATHER Main actions









## **ACTIONS B - THE LIFE MATHER TOOL**



**WHAT** 

A new chemical monitoring data tool performing the match between the bill of materials and the manufacturing, health and environment data in order to evaluate possible alternative materials.







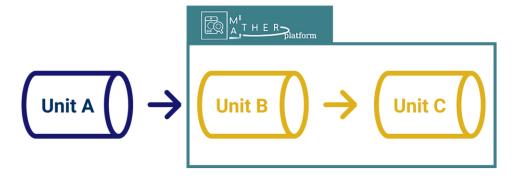




#### **ACTIONS B - THE LIFE MATHER TOOL**



#### **TOOL CONCEPTUAL DESIGN**



#### The Mather tool consists of 3 Units

#### **UNIT A**

Focuses on the *critical material management system* 

#### **UNIT B**

Performs Data Analysis like *Life Cycle Assessment* 

#### **UNIT C**

Reports the *final results* 

The Mather Platform integrates Unit B and C







## **ACTION B - REPLICABILITY POTENTIAL**



Different companies/industries involved for:

- collecting requirements with surveys and F2F interviews
- showcase MATHER Tool demo during the validation phase by planning mini workshop and seminars



Involvement of Health Units with a dedicated demo session to appreciate the tool and collect their feedback in order to better respond to the requirements of public strategy definition in terms of assessment of exposures from chemicals related to the monitoring of human and environmental health:







#### **ACTIONS D - INFORMATION & AWARENESS**



One of the roles of LIFE MATHER project will be to disseminate the results and raise awareness regarding the harmful effects of specific substances

Make POLICY MAKERS
aware of the project
outcomes to enable the
updating of their policies,
regulations, strategies with
respect to the current
environmental, economic
and social framework.



Make HEALTH CARE
SYSTEM aware of project
outcomes for assessing
symptoms, causes and find
appropriate treatment
approaches against health
diseases induced by
exposure to chemicals

Guidelines and Roadmapping for Health Units and Policy Makers







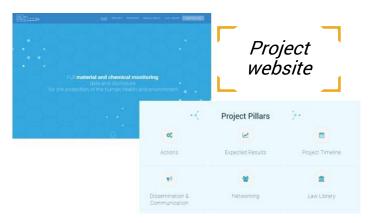


## **ACTIONS D - COMMUNICATION&DISSEMINATION TOOLS**



























## **ACTIONS D - NETWORKING PROJECTS**















## **ACTION E - PROJECT MANAGEMENT**





#### **COORDINATION & MONITORING**

- Monthly Consortium Calls to have a full alignment about progresses, to share ideas and plan next steps
- Monitoring file constantly updated
- Ad hoc calls/meetings per Action, lead by Action Leaders
- Periodical face to face meeting (about every 6 months)
- List of contact person per Partner and per topic/action
- <u>Drive repository</u> for documents sharing

#### ADMINISTRATIVE&FINANCIAL DOCUMENTATION

- Preparation and signature of the Consortium Agreement
- Definition and collection of the official administrative and financial documentations
- Constant monitoring of financial progresses & status
- Preparation and coordination for the reporting reports (Mid term, Progress, Final)





#### RELATIONS WITH THE MANAGING AUTHORITY

- Participation to the official KoM held in Bruxelles and sharing of the inputs collected with partners
- Established collaboration with Monitor
- Constant update on news coming from the EASME (i.e. New indicators system, new financial statements, ecc)





















How does LIFE Programme produce benefits for...

#### **COMPANIES** STAKEHOLDERS & COMMUNITY Boost company's environmental Create awareness on critical investments and innovations environmental thematics Key SHs involvement Innovation risk sharing and commitment ((2)) Enhance visibility and Create accessible results' dissemination know how Create new valuable Integrate different point of views partnerships Foster competitiveness and company Support policy makers in added value to the community defining new policies









How does LIFE MATHER Project produces benefits on...

#### **COMPANIES** STAKEHOLDERS & COMMUNITY Contribute in supporting companies' Full transparency materials used environmental strategies 50 along the whole supply chain Reduce time to compliance Increase awareness on the with regulations use of critical materials Use of results in the Reduce internal costs Health Sector Increase competitiveness Use of results for new in the market policies implications Strong replicability potential in Positive image return for branding several sectors









#### How do we integrate MATHER Project results in our everyday business?



#### CRITICAL MATERIALS MANAGEMENT

in global regiously without per evolvering in an accelerance rate, particularly in the materials and chemical field, creating increased pressure to provide transparency and traceability for global companies like Whitpool Composition. It is now more important thin were this work object of the composition of the composition of the composition closely like the composition of the composition of the composition indistructure, not only in achieve compliance as defined by regulatory agencies or trade partners, but because protecting consumer and environmental health meaning a printing for Whitpool.

2017 was a year of learning and transition for Whitipool Corporation's global Chitical Materials Management (EMM) seam, continuing down the path towards our goal of full material transparency or 80% of all new parts by 2020. In 2016, Whitipool partnered with a third-party vendor to develop a fully automated system to collect, monitor and assess the chemical composition of our global product line.

To facilitate smooth implementation, the CMM team is taking a phased approach, imitally rolling-out with one new launch project. The Compliance System went live, in a pilot phase, Q2 of 2017 followed by the first automated Full Material Disclosure (FMD) requests in Q3 of 2017.

Collecting full material disclosure data from our suppliers is a challenge. Not all suppliers consistently oldert material composition data throughout the multiple leters of their own supply chain or may claim proprietarly data they are unwilling to disclosur. We expect that it will take a lew years to build adultation of accurate and complete disclosures including a through change management regimen. Part metality will hely business partners arouses the company are impossible to establish the new normal while delivering complaint products throughout the world. The year has been full of enhancements and modifications to the tool, constantly refining to establish the most stable environment. Strong infrastructure coupled with a strict process will build the foundation increasary to meet and exceed our transparency goals. In 2018, the team will introduce additional projects into the system and reach further with

Compliance applications and global compliance programs can be costly which is why the CMM team is proud to announce that in July of 2017 Whitipool ERA's was awarded a life Environment and Resource Efficiency grant in partnership with NTUA, the largest and oldest Engineering University in Greece and T2; an italian consolidated non-profit aspect.

The grant funds, with the European Commission's contribution totaling over \$90,0000 will appoint the FIAD Prepara of Compliance Bystem roll-out in Windpool's European Bodies. The project explores the Intelligence Population Program and London and Intelligence Population Program and Intelligence Program Program and Intelligence Program Program Intelligence Program Program

Looking forward, the CMM team will nurture vital partnerships with Governmental Relations and Global Safety and Regulatory teams, together navigating the global regulatory landscape. Equipping our design teams, materials teams, and engineers with material identity and composition data will further propel proactive design for requestions and engineers.







GRI G4 EN7 EN19 EN27 PR1

https://www.whirlpoolcorp.com/environmental-sustainability









## THANK YOU!

www.matherproject.eu













# BACK UP









## **DELIVERABLES OVERVIEW**



Α	PREPARATORY ACTION	A1.1 Report on health/environment data and EU legislation   ✓					
В	IMPLEMENTATION ACTION	B1.1 Report on market materials data  B1.2 Report on user / technical requirements  B2.1 LIFE MATHER Chemical monitoring data tool demo  B3.1 Tool validation through material substitution  B3.2 Report on the established link and activities between IPCheM and the LIFE MATHER project  B3.3 Report on demonstration activities  B4.1 Exploitation & Business Plan  B4.2 Replicability/ transferability plan					
С	MONITORING OF THE IMPACT	C1.1 1st KPIs progress reporting C1.2 2nd KPIs progress reporting C1.3 LCA and exposures assessment on the validation data C1.4 3rd KPIs progress reporting C2.1 Report on socio-economic impact assessment C2.1					
D	PUBLIC AWARENESS & DISSEMINATION	D1.1 Dissemination Plan ✓ D1.2 Website ✓ D1.3 Stakeholders' feedbacks on project's outputs ⊕ D1.4 Notice boards ⊕ D1.5 Layman report ⊕	D1.6 Dissemination activities final report D2.1 Guidelines for Policy makers and Health unit D2.2 Roadmaps for Policy makers and Health units D3.1 Networking activities Report				
Е	PROJECT MANAGEMENT	E1.1 Project Management and Quality Plan ✓ E1.2 After Life Plan	E1.3 Green Procurement Report				



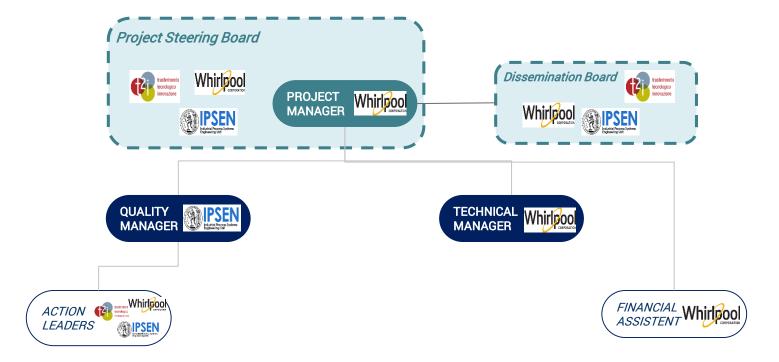






## PROJECT MANAGEMENT STRUCTURE







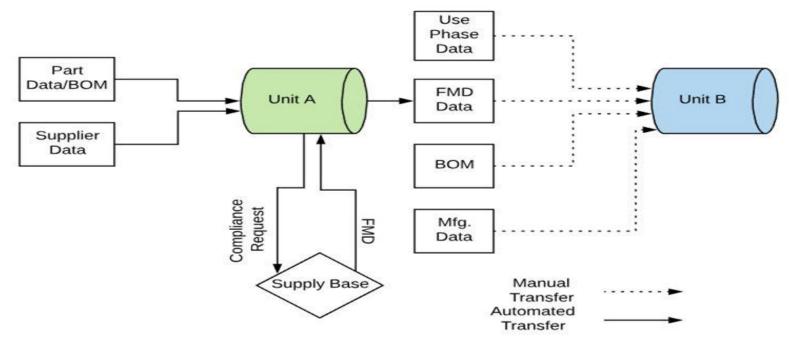




#### THE LIFE MATHER TOOL



UNIT A is an online compliance system for sending, receiving, processing and storing material compliance data.







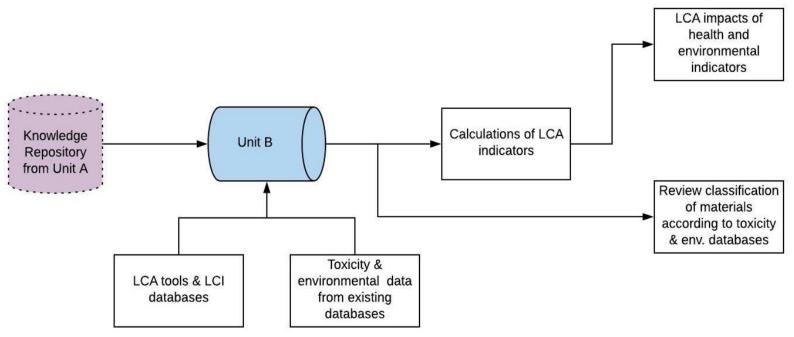


#### THE LIFE MATHER TOOL



UNIT B is the intermediate layer providing the core logic, functions and operations of the

platform.









#### THE LIFE MATHER TOOL



UNIT C is the final level of the platform producing a visual representation of the results

