

Project acronym	Life Bitmaps
Project full title	Pilot technology for aerobic Biodegradation of spent TMAH Photoresist solution in Semiconductor industries
Project Number	LIFE15 ENV/IT/000332

Action D1	Action D1 “Dissemination Planning and Execution”
Annex - Document title	ANNEX D1_6_Pilot findings shared and discussed during the biannual WG meetings
Revision no.	1
Document date	6 Apr 2019
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Dissemination level	Restricted (RE)
Responsible partner	UNIVAQ
Contributing partners	LFoundry
Reviewing partners	all partners

Dissemination level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Revision Chart and History Log		
Version	Date	Comment
1	6/4/2019	Rev 1.0 submitted to partners for internal review

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Summary

The present deliverable refers to the dissemination initiative undertaken toward ESIA (European Semiconductor Industry Association) member companies during the bi-annual meeting of the ESIA “ESH & sustainability working group”. Among [ESIA members](#) there are more than twenty companies that most likely have the same interest of the coordinating beneficiary about BITMAPS results as they have to manage same kind of wastewaters coming from their process lines.

Pilot findings shared at the bi-annual ESH ESIA meeting

Preliminary contacts with the ESIA coordinator have been taken in order to devote a specific slot for the BITMAPS results reporting. Furthermore, being BITMAPS focused on TMAH treatment, the bitmaps presentation was followed by a specific SACHEM (Chemical producer) presentation on TMAH classification and exposures pathways as part of the regulatory compliance activities which are sustained within the ESIA Association.

Annex 1 reports the part of the agenda related to the TMAH section within the ESIA meeting which was held in Bruxelles on April 3th 2019.

The pilot results were presented by:

Guglielmo Iuliano BITMAPS Coordinator

Francesco Veglio` BITMAPS Chief Scientific Officer

A significant interest from the semiconductor companies was observed in relation to the project results and in particular for the TMAH treatment as TMAH wastewater represents a relevant issue from the economical and environmental perspectives of the semiconductor industry. Several questions were directed to the presenters concerning TMAH concentrations, flows and adopted methodologies for the wastewaters treated by the pilot.

The document associated to the presentation has been loaded in the “reserved area” of the project website and named:

[BITMAPS presentation ESIA 3 april 2019](#)

Expected results and outputs associated to this initiative

During the presentation, it has been discussed a list of questions to be formally addressed by the consortium to member companies that agreed in order to individually answer to the BITMAPS consortium on the following topics:

- Interest to receive periodical information about BITMAPS achievements and results (newsletters, papers, presentations etc.);
- presence at their facilities of wastewaters similar to those treated with the BITMAPS pilot plant;
- number of interested sites;
- willingness to be contacted by the commercial beneficiaries of BITMAPS to explore the opportunity to implement results at their sites (upon signing a Non-Disclosure Agreement)
- people to be contacted

The collection and consolidation of the answers to the depicted survey, will represent an initial set of data and elements which will support the socio-economic analysis which is one of the final deliverables of the project.

The activity represented for sure a significant step for dissemination of the project results in the semiconductor industry sector and also an initial contact with chemicals manufacturers that might eventually be interested to the above results as well.

Annex 1



European Semiconductor Industry Association

v29/3

Draft Agenda ESIA Environment, Safety and Health Committee and Working Groups' Spring Meetings, April 3 & 4 2019

At ESIA offices – 11/13 Rue De la Duchesse,
Brussels, 1150,

Wednesday April 3rd

Arrival & Introductions,

ESIA Anti-Trust Statement Review,

Agenda Approval,

Committee Chair: Pascal Roquet, STMicroelectronics

Chemical Management Working Group / REACH Implementation

10.45 -17.00**	Topics	Issue Leaders
** Timings Approximate	<p style="text-align: center;">TMAH session 11.00-13.15 (Tetramethylammonium hydroxide)</p> <p>11.00 - LIFE BITMAPS Project Presentation from Guglielmo Iuliano, Lfoundry & Professor Francesco Veglio, University of L'Aquila Q&A /Discussion</p> <p>12.00 - TMAH – Tetramethylammonium hydroxide Introduction – ESIA – Giulia Mancini</p> <p>12.05 – TMAH - Classification, risk management measures and exposure potential Presentation from Michel Tuerlings & Kevin Mc Laughlin, SACHEM Europe Q&A /Discussion</p>	Guglielmo Iuliano

ESIA is an Industry Association of:

EECA : European Electronic Component manufacturers' Association

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