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Project full title	Pilot technology for aerobic Biodegradation of spent TMAH Photoresist solution in Semiconductor industries
Project acronym	Life Bitmaps

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Dissemination level				
PU	Public	Х		
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	30/09/2020	Rev 1.0 submitted to partners for internal review				





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Scope

The scope of the present deliverable is to report the Project indicators as defined in the initial part of the project.

Selection criteria of the project specific indicators

For the most of indicators reported in the next section, given the nature of the project, it has been possible to make a first evaluation of their status only at the end of the project itself.

From the environmental perspective, as the project focuses on the waste-water treatment process the indicators are related to waste management, water recycling and pressure reduction on the environment. Other indicators are mandatory or related to socio-economic impacts or improvements.

Indicators and comment for each of them are available in the eproposal platform:

https://webgate.ec.europa.eu/eproposalWeb/kpi





Table of Indicators





Objective		Indicators		Estimate d Impact (absolute values) At the beginnin g of the project	Estimate d Impact (absolute values) At the end of the project	Estimated Impact (absolute values) 3 Years after the end of project	Unit	Please comment and give brief explanations of assumption s used for the calculation
1.5. Project area/length				0	2.50	2.5	Km2	AREA at the C.B. site where the pilot was installed
1.6. Humans (to be) influenced by the project				10	1500	1550	Humans influenced by the project	People,impacte d at the C.B site
2. Water (Including the Marine Environmental)	2.3 Pressure or Risk addressed	2.3.5 Resource efficienty - water	2.3.5.2 Water abstractio n / diversion	1.49	1.35	1.35	Mm3/year	Recycle and reuse of a part of main wastewater stream





								coming from the Wafer Fab focusing on water with low polluting content
	3. Waste 3.1 Waste Management		Liquid Waste CER 11.01.12	1,336	1,295	25	ton/year	Reduction of Liquid Waste to disposal (TMAH, NH4F,SEZ)
3. Waste			Liquid Waste CER 11.01.11*	766	755.5	0	ton/year	a full scale plant using the technology of the project pilot plant for wastewater treatment.
5. Environmental s and health (including chemicals and noise)	5.1 Chemicals	5.1 Chemicals Released		107.9	105	6.	Kg/year	TMAH concentration reduction at the final discharge , is the first goal of LIFE Bitmaps project;





								The target is to reduce the TMAH concentration at final discharge point from 7 mg/l to 0.4 mg/l
	10.2 Involved non-	NGOs		1	3	5	Number of NGO	
10. Governance	governament organisation (NGOs) and other stacckeolder s in other project activities	Private for profit		0	1	3	Number of Companie s	
		Public bodies		1	2	5	Number of Authorities	
11. Information and awareness raising to the general public		11.1 Website (Mandatory)	Unique Web Visits	0	3182	5000	Number of individuals	
12. Capacity Building		12.1 Networking		0	15	40	Number of individuals	





13. Jobs		Jobs	FTE	0	1.00	6.00	Number	
14. Contributor to economic Growth		14.1 Running cost/operating costs during the project and expected in case of continuation/replication/transf er after the project period	Running Cost	0	25.000	200.000	€	Assumed the total operating cost of 1 plant operating after 3 years
		14.2.4 Cost reduction expected in case of continuation/replication/trasfer after the project period	Cost Saving	0	0	300000	€	Savings supposing to build 1 full plant at the C.B. site
		14.2.2 Operating expenses expected in case of continuation/replication/transf er after the project period	Operating Cost	0	0	20000	€	Supposing to build 1 full plant at the C.B. site
		14.3 Future Founding		0	0	4.500.000	€	Funding 3 plants after 3 years





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