

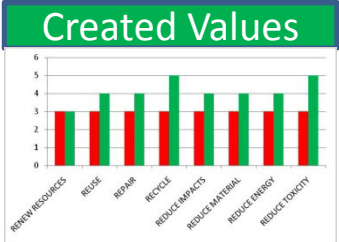


# AGPM - Eco Card Nr 8

## Eco6s

Statistical Analysis  
Environmental Analysis  
Technical Analysis

### What ? : Ecological Impact Indicators To reduce Environmental Footprint

Creating Values without destroying around																																																			
WHAT	To produce Values a System is using Energies & Materials and transforms them in fonctionnal Products. The use of Energy and Material will generate Toxical Charges (Ecological Impacts) for the Environnement, leaving a environmental Footprint on Earth and Space. To repair, the System re-acts in reducing his Environmental Footprint and creates new Values to sustain.																																																		
WHY	<ul style="list-style-type: none"> <li>• Renew Resources <b>creates Values</b> on Depletion Indicator.</li> <li>• Reduce Energies <b>creates Values</b> on Climate Change Indicator.</li> <li>• Replace Toxics <b>creates Values</b> on Toxical Potential Indicator.</li> <li>• Repair Damages <b>creates Values</b> on Defects Indicators.</li> <li>• Reuse Materials <b>creates Values</b> on Efficiencies Indicator.</li> <li>• Recycling Materials <b>creates Values</b> on Wastes Indicator.</li> </ul> 																																																		
HOW	<p>The Management Team of the System shall pilot with the adequate Efficiencies Indicators (Toxic Energy Material Process Societal – TEMPS – Indicators) to clearly define, measure, analyze, innovate, control and communicate the fonctionnal Values of the Product for the User as well as the reduced Environmental Footprint as created Values for the Sociology. Create Values without destroying around.</p> <table border="1"> <thead> <tr> <th>TEMPS Indicator</th> <th>Flows Indicator</th> <th>Quality Indicator</th> <th>Eco Bio Design Robust Indicators</th> <th>Life Cycle Indicators</th> </tr> </thead> <tbody> <tr> <td>TOXIC LOADS SUBSTANCES OF VERY HIGH CONCERN (REACH, ROHS, Substitute It Now SIN List ...)</td> <td>TOX / Unit Funct</td> <td>ECOLOGICAL</td> <td>TPI: TOXIC POTENTIAL INDICATOR SIN LIST: IN / OUT SVHC, ROHS LIST: IN / OUT</td> <td>(Follows PCR: PRODUCT CATEGORIE RULES &amp; REFERENTIALS OF THE CATEGORY)</td> </tr> <tr> <td>ENERGY (PRIMARY, SECONDARY)</td> <td>KWH/UF</td> <td>ECONOMICAL</td> <td>MJ/UF CO2 EQ. / UF % FOSSILISED ENERGIES / UF % RENEWABLE ENERGIES /UF % RECYCLED ENERGY OR MATERIAL % ENTROPY (LOST OF INFOS)</td> <td>RESOURCE DEPLETION OCEAN ACIDIFICATION WATER USE OZON DESTROYED OZON CREATED AIR ACIDIFICATION (g H+)</td> </tr> <tr> <td>MATERIALS FOR COMPONENTS</td> <td>KG / UF</td> <td>ECONOMICAL</td> <td>% FOSSILISED RESOURCES / UF % NATURAL-BIOTIC RESOURCES / UF % RENEWABLE RESOURCES / UF</td> <td>GREEN HOUSE GAS (CO2 Equ.) EUTROPHICATION (g/PO4) DANGEROUS WASTES (%) POLLUTED WATER BY TOX POLLUTED AIR BY TOX SOILS POLLUTED BY TOX</td> </tr> <tr> <td>PROCESS AUXILIARIES</td> <td>KG / UF</td> <td>ECONOMICAL</td> <td>CONSUM OF WATER, AIR, SOIL / UF</td> <td>SOILS/LANDFIELDS USE (LAND USE)</td> </tr> <tr> <td>DEFECTS</td> <td>KG / UF</td> <td>ECONOMICAL</td> <td>SIGMA / UF</td> <td>GENETIC MODIFIED ORGANISMS</td> </tr> <tr> <td>WASTES INDUSTRIAL</td> <td>KG / UF</td> <td>SOCIETAL</td> <td>WASTE / UF</td> <td>BIODIVERSITY</td> </tr> <tr> <td>WASTES DANGEROUS</td> <td>KG / UF</td> <td>SOCIETAL</td> <td>DANGEROUS WASTE / UF</td> <td></td> </tr> <tr> <td>POLLUTIONS</td> <td>M3 / UF</td> <td>SOCIETAL</td> <td>POLLUTIONS TYP WATER, SOIL, AIR</td> <td></td> </tr> <tr> <td>SOCIETAL LOADS / EXTERNALITIES (ECO TAXES)</td> <td>TAXES / UF</td> <td>SOCIETAL</td> <td>ECO TAXES / UF EXTERNALITIES / UF</td> <td></td> </tr> </tbody> </table>	TEMPS Indicator	Flows Indicator	Quality Indicator	Eco Bio Design Robust Indicators	Life Cycle Indicators	TOXIC LOADS SUBSTANCES OF VERY HIGH CONCERN (REACH, ROHS, Substitute It Now SIN List ...)	TOX / Unit Funct	ECOLOGICAL	TPI: TOXIC POTENTIAL INDICATOR SIN LIST: IN / OUT SVHC, ROHS LIST: IN / OUT	(Follows PCR: PRODUCT CATEGORIE RULES & REFERENTIALS OF THE CATEGORY)	ENERGY (PRIMARY, SECONDARY)	KWH/UF	ECONOMICAL	MJ/UF CO2 EQ. / UF % FOSSILISED ENERGIES / UF % RENEWABLE ENERGIES /UF % RECYCLED ENERGY OR MATERIAL % ENTROPY (LOST OF INFOS)	RESOURCE DEPLETION OCEAN ACIDIFICATION WATER USE OZON DESTROYED OZON CREATED AIR ACIDIFICATION (g H+)	MATERIALS FOR COMPONENTS	KG / UF	ECONOMICAL	% FOSSILISED RESOURCES / UF % NATURAL-BIOTIC RESOURCES / UF % RENEWABLE RESOURCES / UF	GREEN HOUSE GAS (CO2 Equ.) EUTROPHICATION (g/PO4) DANGEROUS WASTES (%) POLLUTED WATER BY TOX POLLUTED AIR BY TOX SOILS POLLUTED BY TOX	PROCESS AUXILIARIES	KG / UF	ECONOMICAL	CONSUM OF WATER, AIR, SOIL / UF	SOILS/LANDFIELDS USE (LAND USE)	DEFECTS	KG / UF	ECONOMICAL	SIGMA / UF	GENETIC MODIFIED ORGANISMS	WASTES INDUSTRIAL	KG / UF	SOCIETAL	WASTE / UF	BIODIVERSITY	WASTES DANGEROUS	KG / UF	SOCIETAL	DANGEROUS WASTE / UF		POLLUTIONS	M3 / UF	SOCIETAL	POLLUTIONS TYP WATER, SOIL, AIR		SOCIETAL LOADS / EXTERNALITIES (ECO TAXES)	TAXES / UF	SOCIETAL	ECO TAXES / UF EXTERNALITIES / UF	
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WHO	<p><b>Quality &amp; Industrial Teams to reduce Ecological Impacts of the System.</b> R&amp;D Teams to design with 8 RE Actions on Energy, Materials and Processes <b>Management Teams to create sustainable Values within the Value Chain.</b></p>																																																		
WHEN	<p>Actions and RE-Actions to be planned with Targets Proceedings</p> 