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| ECO-DESIGN QUESTIONNAIRE |
| **Call Information** |
| **Identifier** | **:** | EARASHI-01 (call n°01) |
| **Project full name** | **:** | Embodied AI/Robotics Applications for a Safe, Human, Industry |
| **Acronym** | **:** | EARASHI |
| **Grant Agreement N°** | **:** | 101069994 |
| **Deadline** | **:** | 12.05.2023, 5 pm (CET) |

**IMPORTANT NOTICE!**

**As part of the submission process, this questionnaire “Eco-design maturity level” is mandatory.**

The objective of the questionnaire is to help you to quantify your eco-design maturity level. It will also help you to better answer the proposal template and select the most adequate eco-design service proposed by EARASHI.

**Participant organisation/company**:
[Organization/Company name]

**To be duplicated if more than one company is involved**

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| ***This project has received funding from the European Union’s Horizon Europe research and innovation programme under grant agreement nº 101069994.*** The dissemination of results herein reflects only the author’s view, and the European Commission is not responsible for any use that may be made of the information it contains. |  |

**Eco-Design Approach**

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The objective of the questionnaire is to help you to quantify your eco-design maturity level. It will also help you to better answer the proposal template and select the most adequate eco-design service proposed by EARASHI.

The questionnaire covers the 2 following topics:

* Positioning of the company versus the deployment of an eco-design approach.
* The submitted project and possible implementation of an eco-design approach.

**What is the eco-design approach?**

*The Eco-design approach aims to integrate the environment impact from the design stage of a product or service, and throughout its life cycle. This transversal methodological approach guarantees a global reduction of the environmental impacts of the product-service system with a life cycle vision.*

# WHAT IS THE ECO-DESIGN MATURITY LEVEL OF YOUR COMPANY?

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| **Maturity level definition** |

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| **Maturity 0***Standard design methodology*The design methodology used by the company is standard and does not integrate any eco-design strategy. | **Maturity** 1*Evaluate*The first step before implementing an eco-design approach is to evaluate:* the company industrial issues and products in order to well dimension the eco-design approach, e.g. adapted to the company context (opportunities / capacities matrix)
* the company/products environmental impact in order to inform the customer
 |
| **Maturity 2**Eco-design level 1*Incremental improvement of products (goods or services)*Incremental environmental improvement of existing products, by working on one or more components, without major changes in the technology used. It may involve optimising the product design process. | **Maturity 3**Eco-design level 2*Product redesign*More in-depth development than in Maturity 2 to redesign the product. The concept of the product remains the same, it is a question of rethinking the architecture of the product, by developing or replacing certain parts with new ones. | **Maturity 4**Eco-design level 3*Functional innovation*Creation of a new product concept or technology, changing the way the product's function is performed: breakthrough innovation. |
| **Maturity 5***Product/service system innovation*Proposition of new organizations or product/service systems. This level may require changes in the value chain, infrastructure or even cultural change. The business model may be changed, for example from selling the product to selling a function as a service**.** |

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| **TO EVALUATE THE MATURITY LEVEL OF YOUR COMPANY** |

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| *Question* | *Answers* |
| How will you evaluate the eco-design maturity level of your company on the proposed scale?*Please refer to the definitions proposed for each maturity level and select the most appropriate one.* |  |
| * Maturity 0
 | ⬜ |
| * Maturity 1
 | ⬜ |
| * Maturity 2
 | ⬜ |
| * Maturity 3
 | ⬜ |
| * Maturity 4
 | ⬜ |
| * Maturity 5.
 | ⬜ |

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| **TO EVALUATE THE COMPANY POTENTIAL TO DEPLOY AN ECO-DESIGN APPROACH** |
| *Questions* | *Answers* |
| Do you think that people inside your company know about eco-design approach? | Yes / No |
| **AT THE COMPANY LEVEL**These questions aim to evaluate the company potential to implement the eco-design approach in their strategy. Which level of maturity does the company target? |
| *Internal policy*1. Is the company management aware of the environmental impacts?
 | Yes / No |
| 1. Is the management taking the lead in addressing environmental issues?
 | Yes / No |
| *Internal resources*1. Does the company have a R&D centre or a design office?
 | Yes / No |
| 1. If yes, how many employees?
 | ................ |
| 1. Are those services familiar with an eco-design approach (training)?
 | Yes / No |
| *Regulations and monitoring practice* 1. Are you aware of and do you comply with the regulations relating to the environmental constraints that concern you?
 | Yes / No |
| 1. If yes, name them?
 | ................ |
| 1. Do you follow regulatory projects to anticipate future regulations?
 | Yes / No |
| *Working method*1. Do you use any of these working methods?
 |  |
| * + - * Functional analysis
 | ⬜ |
| * + - * User-centred approach: develop only what is necessary
 | ⬜ |
| * + - * Environmental impact analysis
 | ⬜ |
| 1. Other: Describe in a few words your design process
 | ................ |
| *Management*1. Have you already integrated the environment into the management of your activities?
 | Yes / No |
| 1. Is it necessary to train the management teams in this objective?
 | Yes / No |
| *Available resources*1. Are you in a position to hire new people to reinforce the eco-design approach?
 | Yes / No |
| 1. If yes, how much?
 | ................ |
| 1. Are you able to make a financial investment to support the eco-design approach ?
 | Yes / No |
| 1. Are your teams trained in eco-design approach?
 | Yes / No |
| *Knowledge of your environment Supplier/ industrial partner?*1. Do you ask your suppliers about the environmental characteristics of their offers?
 | Yes / No |
| 1. Are your partners involved in an eco-design approach?
 | Yes / No |
| 1. In the life cycle chain of the product/service, which parts do you control?
 | ................ |
| **OBJECTIVE**Is your company planning to meet the regulations in its short-term strategy for sustainable development? | Yes / No |

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| **QUESTIONS RELATED TO THE MATURITY LEVELS 0 AND 1** |
| *Question* | *Answer* |
| What are the obstacles to the implementation of an eco-design approach in your company?*Several answers are possible, please select the most relevant ones for our company.* |  |
| * Lack of awareness of environmental issues and/or knowledge of sustainable development.
 | ⬜ |
| * Sustainable development is not a strategic priority for the company.
 | ⬜ |
| * Organisational barriers: the structure of the company does not allow it.
 | ⬜ |
| * Lack of business opportunities.
 | ⬜ |
| * Lack of financial resources.
 | ⬜ |
| * Lack of human resources.
 | ⬜ |
| * Lack of knowledge about eco-design methods and tools.
 | ⬜ |
| * Other
 | ……………… |

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| **QUESTIONS RELATED TO THE MATURITY LEVEL SUPERIOR TO 1** |
| *Question* | *Answers* |
| At what level does the eco-design approach apply to your portfolio of products put on the market?* Beginner level: We are starting the process and only one product has been eco-designed.
 | ⬜ |
| * Intermediate level: About half of the products/services have been subject to an eco-design approach.
 | ⬜ |
| * Generalized level: The eco-design/eco-innovation approach is widely used; it is systematically integrated into our design and/or innovation process.
 | ⬜ |
| How many years has your company been implementing an eco-design approach? | ……………………. |
| Did you put into place an environmental management system?*Only one answer is possible.* |  |
| * Internal company system
 | ⬜ |
| * ISO 14001 2
 | ⬜ |
| * None
 | ⬜ |
| Does your company have an Ecolabel or any other environmental certification?*Only one answer is possible** No such certification
 | ⬜ |
| * European Ecolabel
 | ⬜ |
| * NF Environment
 | ⬜ |
| * Other environmental ecolabels

 Please specify | ⬜…………………… |

# WHAT IS THE ECO-DESIGN MATURITY LEVEL OF YOUR COMPANY?

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| **QUESTIONS RELATED TO THE ECO-CONCEPTION APPROACH POSSIBILITY FOR YOUR PROJECT***Here is a series of suggestions that will allow you* ***to identify opportunities to introduce eco-design or eco-innovation in the project****. This questionnaire is extracted from “ecoconception.fr”.* ***Please select the opportunities that best fit your strategy.*** |
| *Opportunity* | *Rationale* | *Select* |
| **MARKET** | It is the MAIN motivation, my customers ask me directly or indirectly to integrate environmental notions in my products | ⬜ |
| **CONTEXT** | Our sector of activity or our products regularly make the headlines. We are subject to media pressure, NGO positions, expectations expressed by various stakeholders. | ⬜ |
| **COMPETITION** | Has the competition already taken position? Reading their positions can be contradictory. Globally, my competitors are eco-designing: i) I am following them and playing another card to differentiate myself, ii) I am pushing the concept further, at the risk of having to invest too much. Another case, no competitor is visibly committed to eco-design, but are they without displaying it, or are they simply not committed to this subject? If they are not, maybe there is no challenge or market? Why am I the only one who thinks this will work? I have several options: passive follower, active follower, leader, or other possible ways of differentiation. | ⬜ |
| **REGULATION** | Are there any regulations concerning my type of product and the environment, or which should be disclosed in the medium or long term, directly and/or indirectly, on the whole product or on a single sub-part? | ⬜ |
| **COMPANY IMAGE - AWARENESS** | To promote the company through eco-innovation in general and specifically through products. | ⬜ |
| **SUB-CONTRACTING** | Are the sub-contractors innovative? Do they have the capacity? Have we analysed the various offers? Are we in confident relationship/partnership and trust (co-development)? | ⬜ |
| **OVERALL COSTS** | Are my clients attentive to "non-price" criteria (performance, efficiency, service provided, etc.)? What about the whole life cycle cost approach (purchase cost + use + end of life)? | ⬜ |
| **INTERNAL MOTIVATION** | Rally our team around innovative approaches, in line with the eco-citizen and business approach, strengthen attachment to the company. Strengthen inter-service dialogue. | ⬜ |
| **DIVERSIFICATION** | On the basis of my company's know-how, is it possible to transpose it to another product and/or another market? | ⬜ |
| **RISK CONTROL** | Eco-design will offer a better vision of the life cycle, consequently, a much better sensitivity to the control of risk. | ⬜ |
| **COSTS REDUCTION** | Cost reduction on raw material and manufacturing. | ⬜ |

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| **QUESTION RELATED TO EARASHI ECO-DESIGN SERVICE FOR YOUR PROJECT** |
| *Question* | *Answer* |
| Which support do you think you will need? *See the list of available services in the framework of EARASHI**(*[*https://earashi.eu/coaching-services/*](https://earashi.eu/coaching-services/)*)* |  |
| * Service 1 (*Pre-diagnosis to identify how to start eco-design in the company*)
 | ⬜ |
| * Service 2 (*Environmental qualitative analysis of the product*)
 | ⬜ |
| * Service 3 (Environmental quantitative analysis of the product)
 | ⬜ |