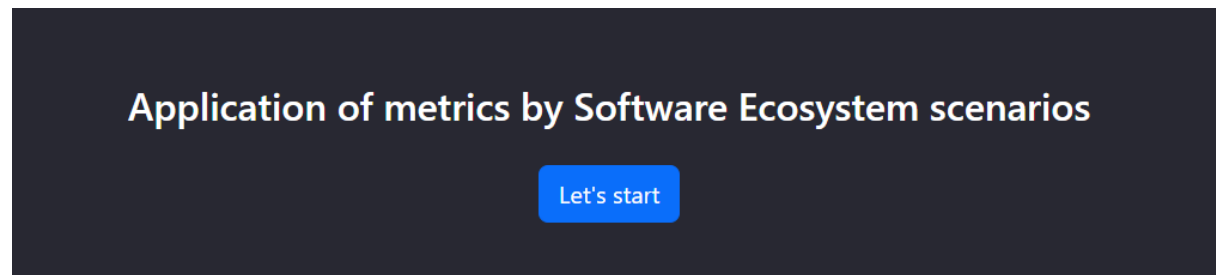


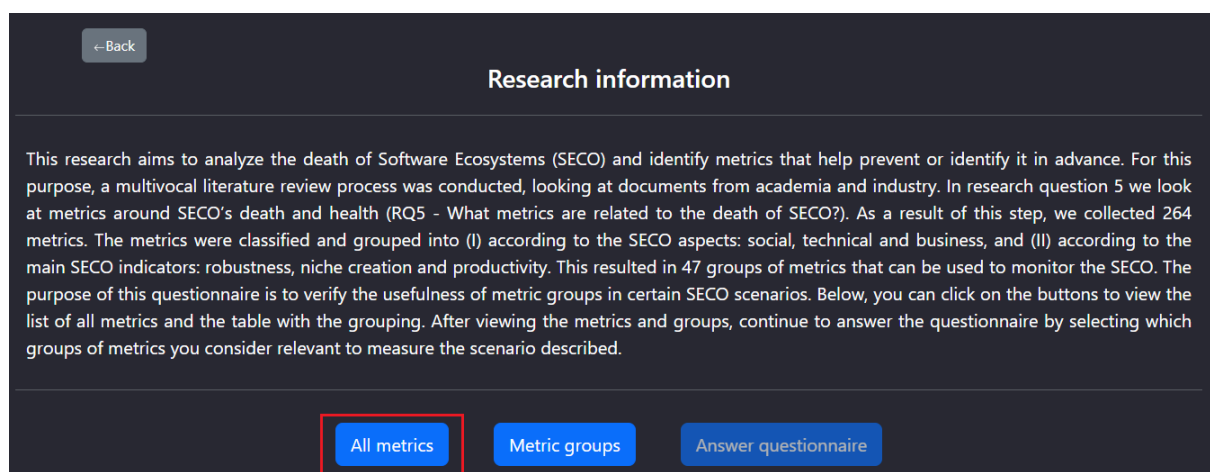
# Step by step to answer the questionnaire

## 1. Start application



## 2. Research information

This section allows you to view the survey information. Then click the All Metrics button to see the full list of metrics collected.



### 3. All metrics

<div>← Back</div> <div>All metrics table</div>		
Id	Name	Definition
M1	Amount of Inquires or Feature Requests	Number of queries or feedback received by the OSS community. Contributions can be corrective, adaptive, perfective, or preventive.
M2	Betweenness Centrality	Reflects the number of shortest paths passing through a specific node.
M3	Bug Tracking Activity	Number of comments created in the project's bug tracker and total number of actions in the bug tracker.
M4	Buildup of Assets	Total factor productivity over time. Can be measured using individual company data.
M5	Centrality	Number of member relations in cliques. Number of individual network relations of a partner. The most central partner is the most persistent.
M6	Cluster of Collaborating Developers	Nodes are developers and edges between them represent projects in which they collaborated. Both make modifications to the project at least a certain number of times.
M7	Code Vocabulary Map	Summary of terms used in the project's source code. The vocabulary map is a tool for developers who want to get an overview of the project's domain language.
M8	Community Effort	The combined effort of all members belonging to the community.
M9	Contributor Activity Graph	The distribution of contributors at the ecosystem level.

After viewing the list of metrics, click the Back button to go to step 2. Then, click the Metric Groups button to view the metric groupings.

### 4. Metric Groups

<div>← Back</div> <div>Metric Groups</div>					
Name	Metrics	Definition	Transformation	Aspect	SeconIndicator
Activity Visualization ↑	M9, M12, M53	Visualizations of project and developer activity	Aggregation of visualization metrics	Technical	Productivity
Bug Tracking ↑	M3, M33, M69, M91, M101, M102, M212, M233, M246	Activity and response time in bug tracking	Aggregation of bug metrics	Technical	Productivity
Centrality and Connectedness ↑	M2, M5, M14, M15, M73, M76, M99, M132, M135, M137, M202, M239	Centrality and connectedness metrics in the ecosystem	Aggregation of centrality metrics	Social	Robustness
Code Size ↑	M211	Project code size	Single size metric	Technical	Productivity
Community Activity Rate ↑	M26, M35, M229, M234	Community activity rate	Aggregation of activity rate metrics	Social	Productivity
Community Communication ↑	M45, M66, M83, M213, M228, M232, M235, M236, M237	Activity and responsiveness in discussion lists and communication	Aggregation of communication metrics	Social	Robustness

In this section you can view the metric groups. You can click on a row in the table to expand the group and view the metrics in the group.

## 5. User Information

[← Back](#)

Research information

This research aims to analyze the death of Software Ecosystems (SECO) and identify metrics that help prevent or identify it in advance. For this purpose, a multivocal literature review process was conducted, looking at documents from academia and industry. In research question 5 we look at metrics around SECO's death and health (RQ5 - What metrics are related to the death of SECO?). As a result of this step, we collected 264 metrics. The metrics were classified and grouped into (I) according to the SECO aspects: social, technical and business, and (II) according to the main SECO indicators: robustness, niche creation and productivity. This resulted in 47 groups of metrics that can be used to monitor the SECO. The purpose of this questionnaire is to verify the usefulness of metric groups in certain SECO scenarios. Below, you can click on the buttons to view the list of all metrics and the table with the grouping. After viewing the metrics and groups, continue to answer the questionnaire by selecting which groups of metrics you consider relevant to measure the scenario described.

[All metrics](#)[Metric groups](#)[Answer questionnaire](#)

User Information

① The user data collected is only for form control and profile mapping.

Name \*

Email \*

What is your current position? \*

What is your highest academic degree? \*

High school

If do you have Bachelor's degree or undergraduate degree, What's your degree in?

How long time do you work with software ecosystems (in months, only numbers)? \*

Which country do you work? \*

Gender  
(We collect this information to understand SECO from your perspective and deliver inclusive insights that appeal to everyone in our community)

☒ I agree to participate in this research.

☒ I declare that I have read and accept the Free and Informed Consent Form.

☒ I want to receive the research results.

[Click here to view the Free and Informed Consent Form](#)

[← Back](#)

[Next →](#)

At this stage, some data is collected to map the respondents' profiles. You can also see the informed consent form.

## 6. Evaluate the scenarios

Metric Groups

5

1

**Scenario 1 (of 15):** Company 1 is a mature low-code development platform experiencing significant challenges in developer engagement and ecosystem vitality. After five years in the market, the platform's Developer Relations team has detected critical signals of potential technological and community decline during the past two quarters, which could threaten its market positioning and future growth. Current challenges include:

- Decrease in participation in online events;
- Fewer contributions to documentation;
- Drop in the number of new extensions/plugins;
- Increase in complaints about unresolved issues;
- Competitors gaining more attention on social media.

2

Select the groups of metrics that you believe can help measure the scenario described above:

Contributors and Active Developers	Variety Metrics	Centrality and Connectedness	Lines of Code Metrics	Community Communication	Bug Tracking	Community Contribution	Total Factor Productivity	
Network Resources	Project Lifecycle	Repository Metrics	Number of Commits	Market Share and Activity	Financial Health	Ecosystem Connections	Downloads and Usage	Satisfaction and Rating
Ecosystem Structure	Extension Metrics	Knowledge Creation	User Base	Developer Experience	Files Changed	Value Creation	New Members	Update and Maintenance
Community Health	Costs	Platform Metrics	Organizational Metrics	Community Activity Rate	Activity Visualization	Security and Stability	Event Metrics	Web Presence
Developer Retention	Release Activity	Innovation and Evolution	Language Support	Switching Costs	Developer Collaboration	Node Metrics	Compatibility	Q&A Metrics
Digital Independence		Long-term Sustainability				Code Size		

3

Contributors and Active Developers x

Variety Metrics x

4

Any additional considerations about this scenario? Write here.

←Back

Next→

- 1 - Software Ecosystem Scenario.
- 2 - All metrics groups.
- 3 - Selected groups.
- 4 - Additional considerations.
- 5 - Click to view the metric groups table.

The aim is to select which groups of metrics you believe are most relevant to analyze the scenario in question.

## 7. Thank you for participating!