1.3.2 Metrics

Provide metric definitions

Metrics that are not clear by name only are required to have a metric definition. This to prevent ambiguity and possible mistakes due to miscommunication. After selecting the relevant method fragments, click on the "Add/Show" button as show in figure 1.

The add metric definitions window as shown in figure 2 will pop open. All the metrics from the selected methods fragments are shown in this window. For each of the metrics it is possible to add a definition. After writing a definition click on the save button located under the specific metric. If you want to remove a metric definition, click on the "reset metric definition" button. Have in mind that each metric has its own save and reset button and that they only work for that specific metric.
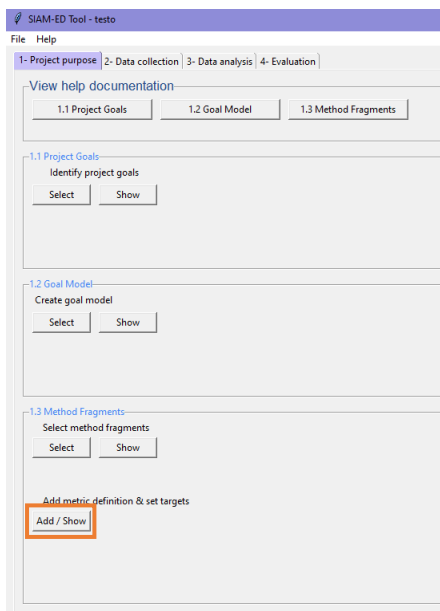

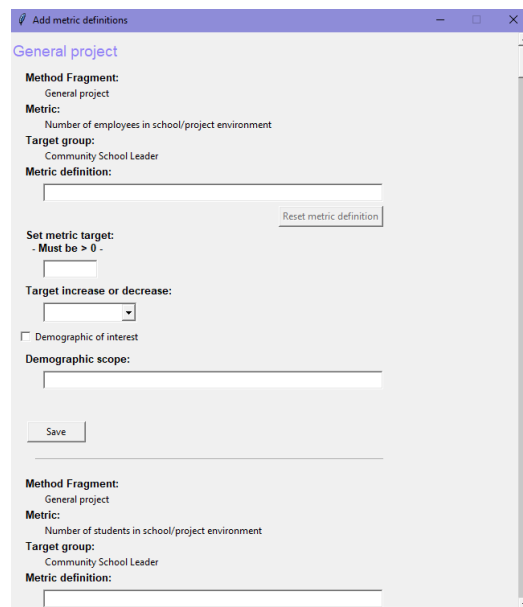*Figure 1 Open Add metric definition window*

Figure 2 Add metric definition window

Add additional metrics

This tool allows the user to add additional metrics to the existing method fragments. After selecting the relevant method fragments or pressing on the "show" button as show in figure 3, the summary window will pop up. In this window you can view all the metrics, add new metrics or remove user made metrics.
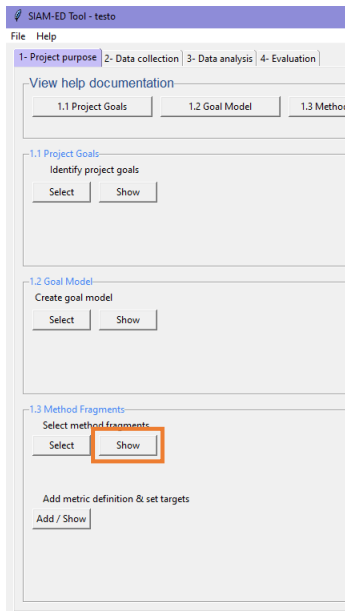

Figure 3 Open Summary window

To create a new metric fill in all the fields as shown in figure 4 except "Answer options" (unless you select "scale" or "multiple_choice" for question type) and click on "Add" to save the metric. If done correctly the window will refresh and the metric will be added and visible under the method fragment you selected. If not, a error line will be shown in red with the reason. The required fields are explained further in Table 1.
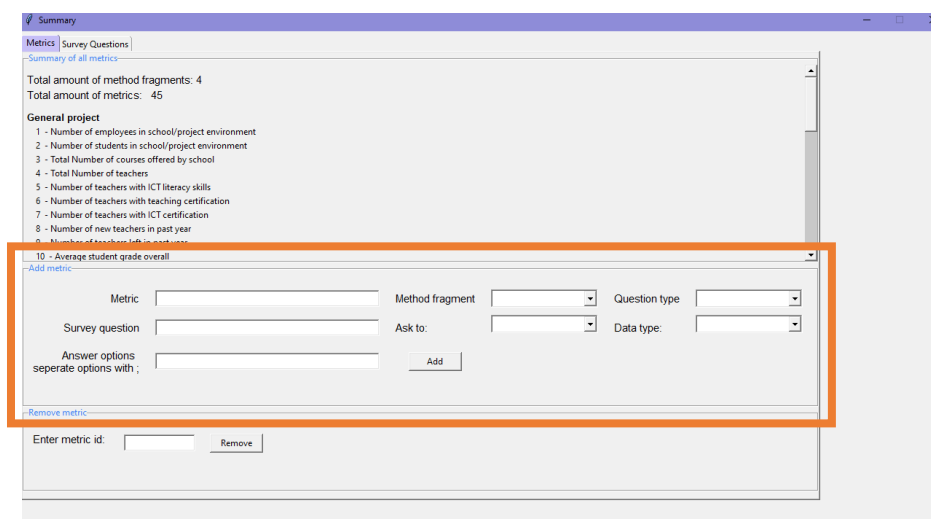

Figure 4 Add metric

Name	Description
Metric	Name of the metric
Method fragment	Method fragment where the metric will be added to

Question type	Boolean:
	- Question with yes or no as answer.
	
	Likert_6:
	- Question with a custom Likert scale options only relevant for SIAM-Ed.
	
	Likert_7:
	
	- Question with the following answer options:
	    1. Strongly disagree
	    2. Disagree
	    3. Somewhat disagree
	    4. Neither agree or disagree
	    5. Somewhat agree
	    6. Agree
	    7. Strongly agree
	
	Multiple_choice:
	- Question that has multiple possible answers. If chosen "Answer options" must be filled in!
	
	Numerical:
	- Question where the answer is numerical.
	
	Scale:
	- Question where there the answer is a ranking (from low to high). If chosen "Answer options" must be filled in!
	
	String:
	- Question where the answer is plain text with no pre-determined answers.

Survey question	Survey question that will asked in order to measure the metric.
Ask to	The target group the metric is intended for and the survey question is asked too.
Data type	The data type which the answer of the survey question will be saved as.
Answer options	Custom answer options that are required when making a scale or multiple choice question. Answers need to be separated with a ;

Table 1 Add metric definition table

Define targets

To define the metric targets, open the "add metric definition" window by clicking on the "Add/Show" button shown in figure 5. Under each metric there are some fields to specify the target of that metric. The target can be filled as well as whether or not it's an increase or decrease. For example if your current average grade is 6 and want an increase in grade you would fill in a number higher than 6 such as 7 under "set metric target" and select increase for "target increase or decrease". You must fill in both fields otherwise the tool will not save it.
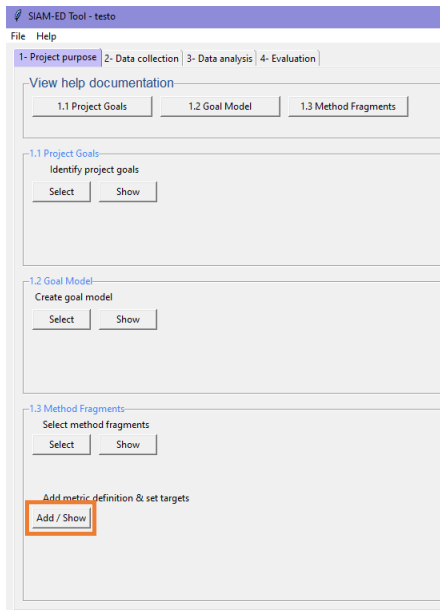

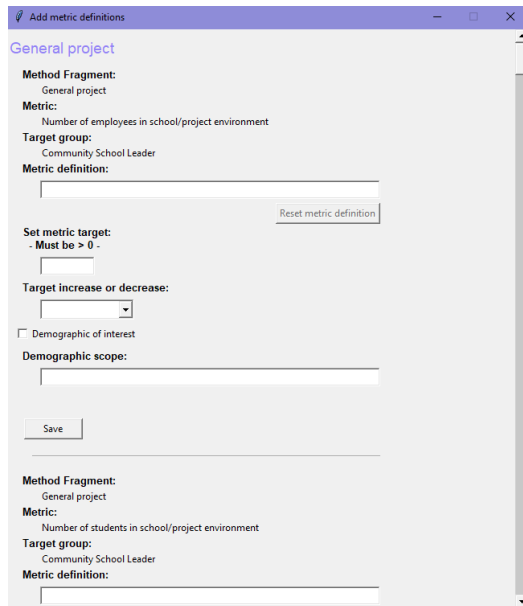Figure 5 Open add metric definition window

Figure 6 Add metric definition window

Determine demographics of interests

It is possible to indicate whether or not a metric has a demographic of interest or in other words a demographic that you want to pay a closer attention to. For example for the metric grade, females can be an demographic of interest if you have a reason to monitor it more closely. In the tool you can select the "Demographic of interest" checkbox and fill in the demographic. Afterwards press save and you are done.