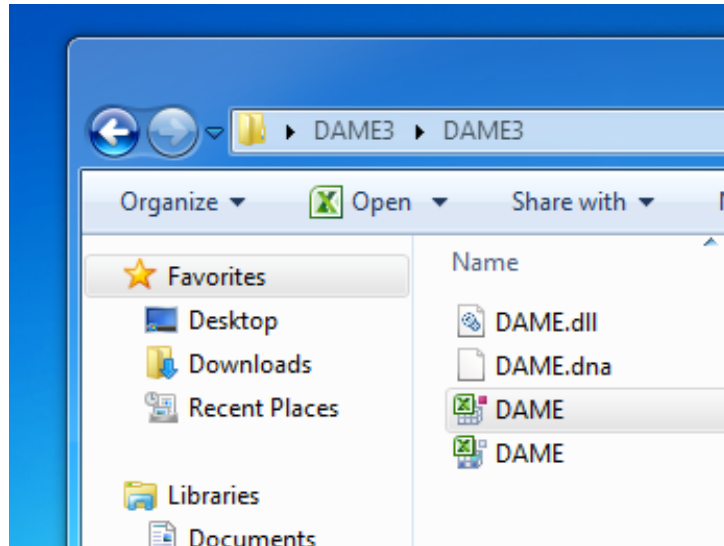


# Instruction Manual DAME

Dame works for all 32-bit versions of Excel from 97 to 2013

## Starting the program

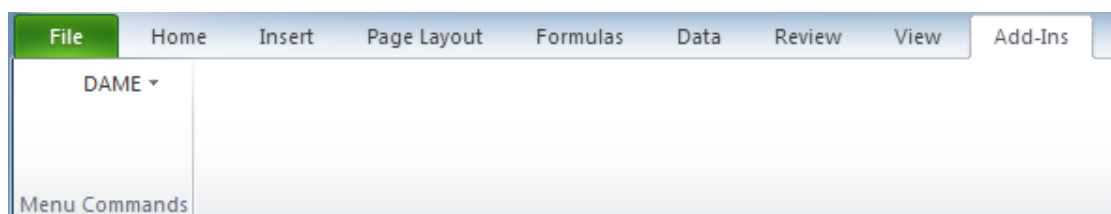
Start the program by clicking "Dame" file - the one with the little red square on it.



Excel is opened automatically. A security screen appears warning you of potential security risks. Ignore that and Enable Macros:



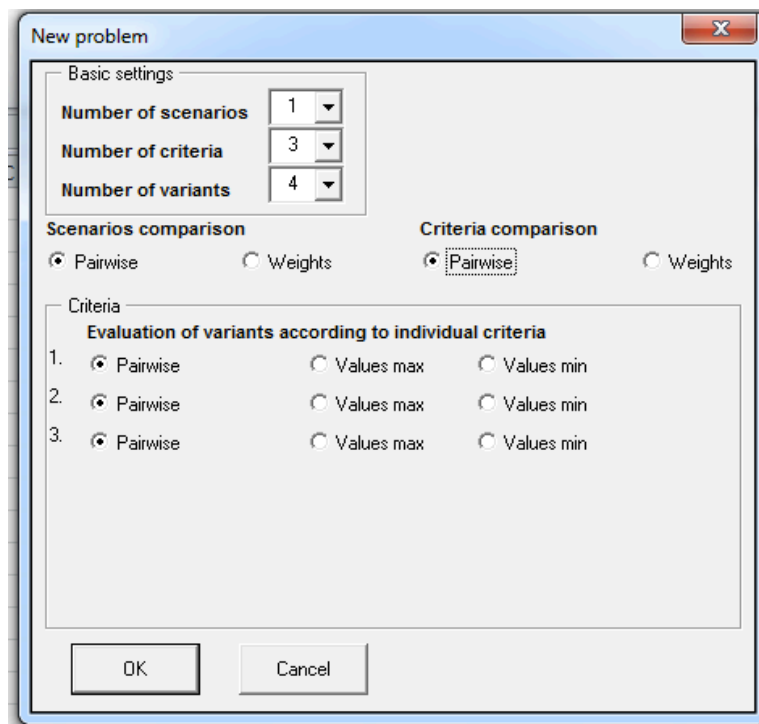
Add-ins item with DAME drop down menu will newly appear on the main menu:



## Generating a new decision-making problem

(You have to have a new clean workbook open before working with Dame. If you only have a shadow screen, you will get Run-time error 1004.)

From the DAME drop down menu select English. Then select 'Novy problem' (New Problem). The following screen appears:



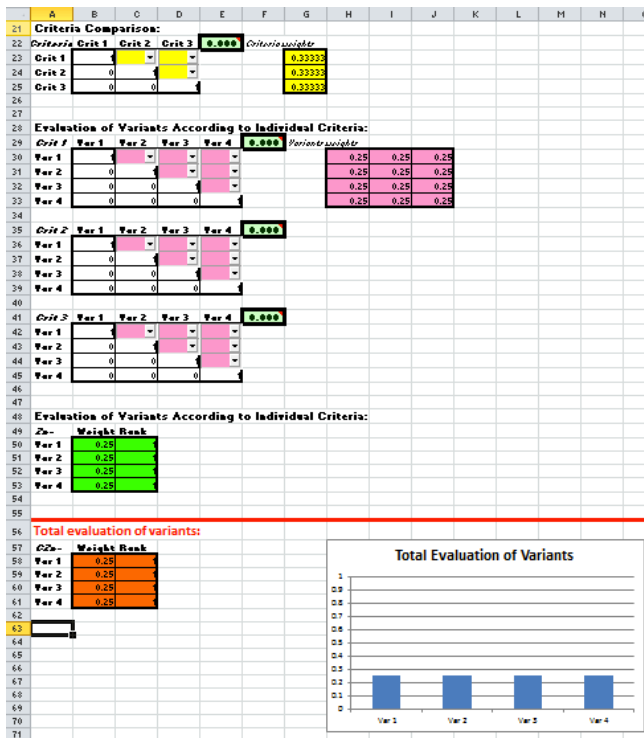
The screenshot shows a dialog box titled "New problem" with a close button (X) in the top right corner. The dialog is divided into several sections:

- Basic settings:** Contains three dropdown menus: "Number of scenarios" set to 1, "Number of criteria" set to 3, and "Number of variants" set to 4.
- Scenarios comparison:** Features two radio buttons: "Pairwise" (selected) and "Weights".
- Criteria comparison:** Features two radio buttons: "Pairwise" (selected) and "Weights".
- Criteria:** A section titled "Evaluation of variants according to individual criteria" containing a list of three criteria. For each criterion, there are three radio buttons: "Pairwise" (selected for all), "Values max", and "Values min".

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Now select the number of Scenarios, Criteria and Variants (Alternatives) depending on the type of a problem you are faced with.

Once you make your selection here and click OK, a set of charts are generated:



If make a mistake (say you wanted weights instead of pairwise comparisons) you have to generate the task again from the beginning. Settings cannot be modified once the problem has been laid out on the spreadsheet.

Pairwise comparison weights are automatically generated in the column to the right of the matrix.

20	<b>Scenario 1</b>				
21	<b>Criteria Comparison:</b>				
22	<i>Criteria</i>	Crit 1	Crit 2	Crit 3	0.010 <i>Criteria weights</i>
23	Crit 1	1	2	3	0.387371
24	Crit 2	0.5	1	3	0.443429
25	Crit 3	0.333333	0.333333	1	0.1692
26					

There are 3 methods to choose from when evaluating items by pairwise comparisons:

- Saaty's method
- Fuller's method and
- Geometric mean

Once selected, the method is applied to ALL pairwise calculations that follow.

Inconsistency Index (in the top right corner of the matrix) is calculated automatically and should not exceed 0.1.

The program calculates overall weights for all evaluated variants (alternatives) at the end and presents results in a bar chart.

