Memo

PreSTo_M_Names_Defined_in_Excel_10-04-28.doc

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Names Defined in Excel

PreSTo is a tool based on Excel. As it used formulas in every cell calculation, there are two ways to write theses formulas.

The first one is to use the cell address. Ex : = G2 * B3. This is the easiest way, but it is hard to understand the formula.

The other one is to use the defined names. Then we have: =JET_mPAX * REQUIREMENT_nPAX + REQUIREMENT_mcargo

The formula is longer, but then anyone can understand it.

In order to avoid conflicts with the names we want to give, the names should be given like this:

- Fuselage sheets : F_<variable name> ex: F_n_pax_FC
- Wing sheets : W_<variable name> ex: W_cMAC
- High-lift sheets : HL_<variable name> ex: HL_cHL_TE_c
- Tailplane sheets : TP_<variable name> ex: TP_SH
- Landing gear sheets : LG_<variable name>
- Mass sheets : M_<variable name>
- Direct operating costs sheets : DOC_<variable name>

How to give a name to a cell:

When you want to give a defined name to a cell, proceed like this:

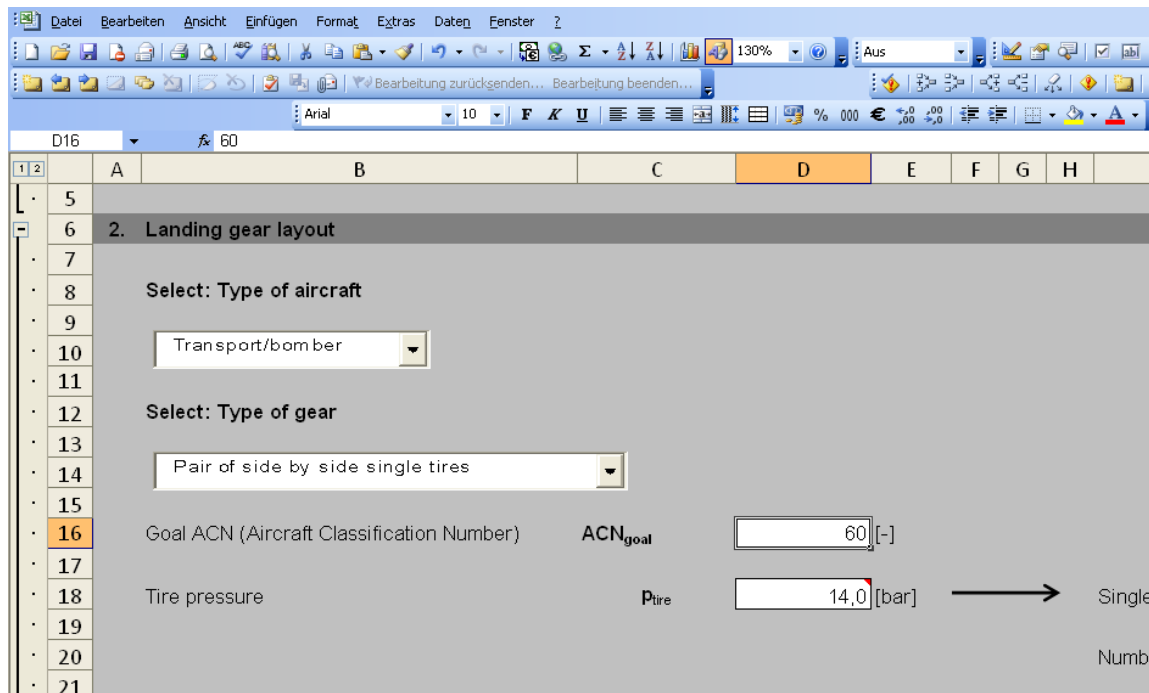First select the cell you want to name. In this example, we want to name the cell D16

Figure 1   Select the cell

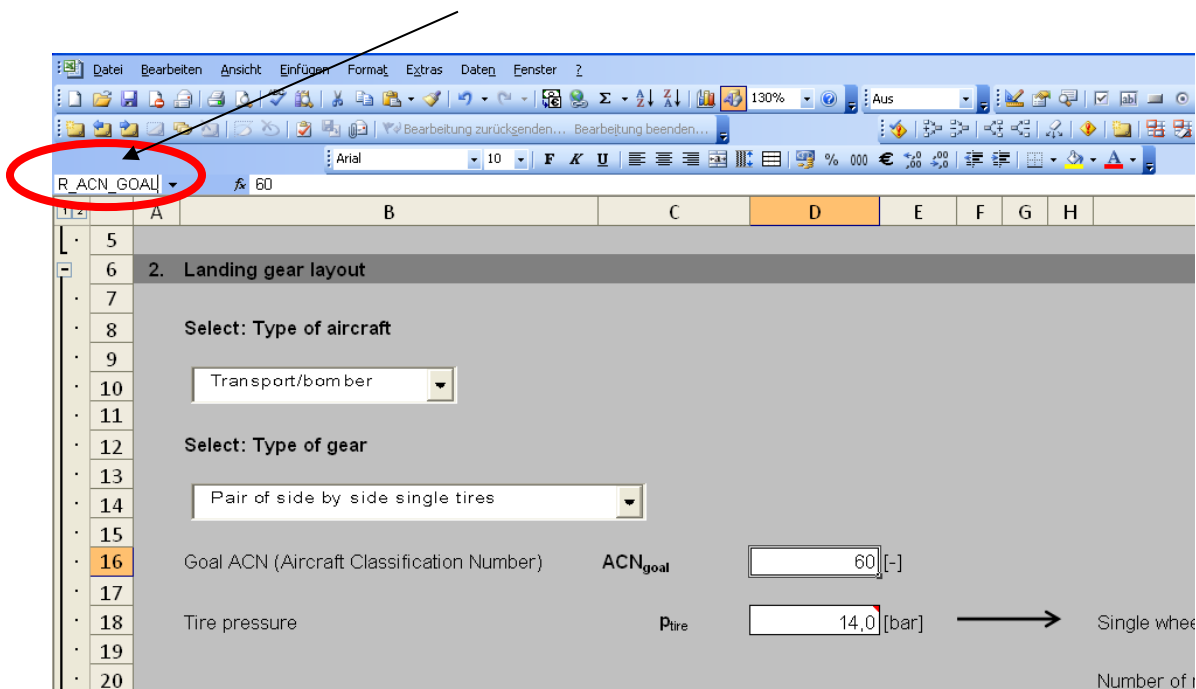Then write the name in the top left "cell", were the cell address was written:

Figure 2   Write the cell name

Hit "enter" key. The defined name is now given to this cell. Every time you will use this cell for a new formula, the name will appear instead of the address.

If you have no idea for the name you should give to a cell, you can try: Insert -> Names -> Define
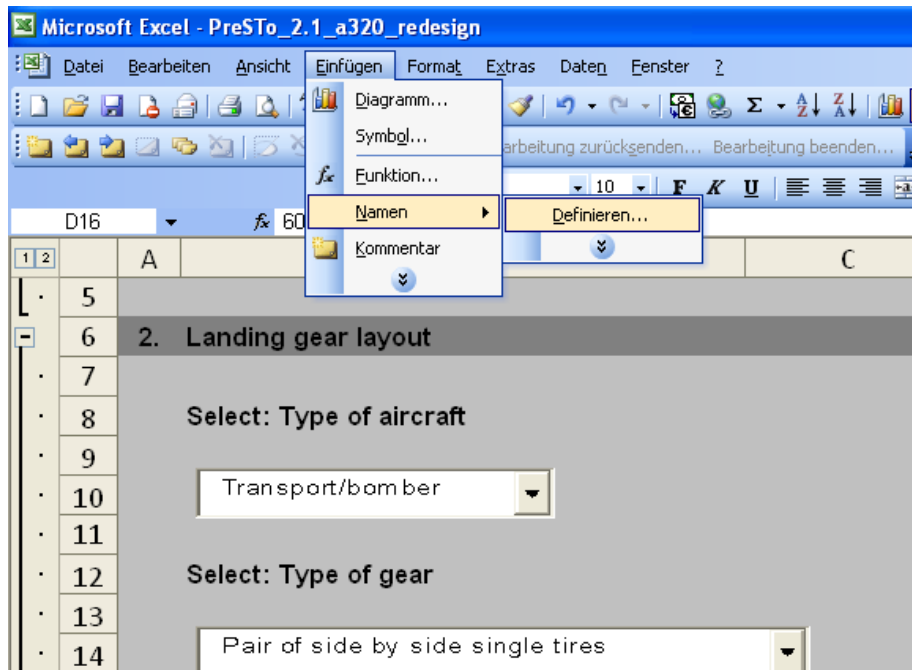

Figure 3   Go to "Define Name"

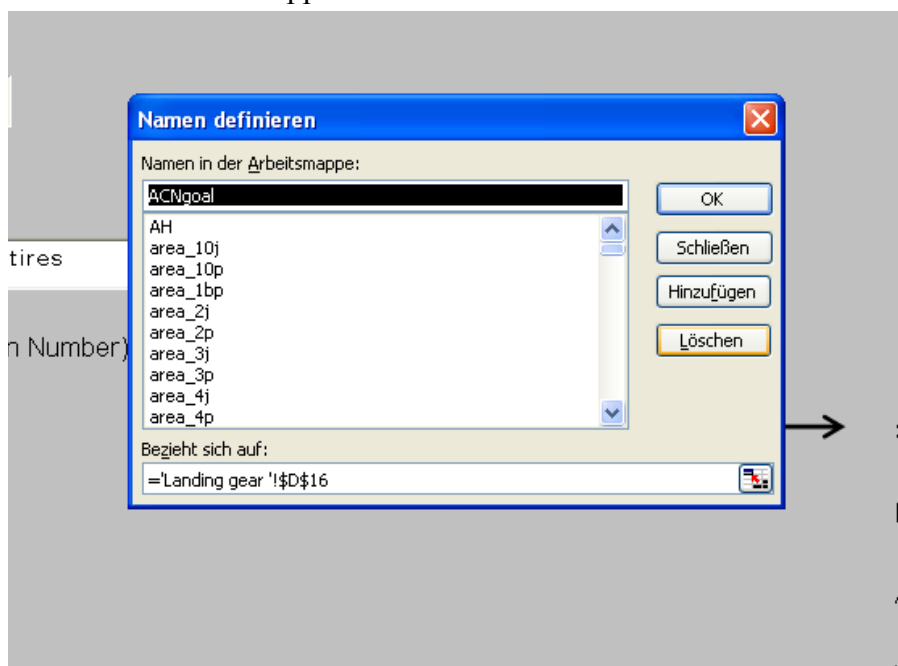Then a window will appear:

Figure 4   The "Define Name" window

You just need to add the prefix related to your sheet, for example "F_", and then hit "Insert", or "OK".

How to update the existing formulas with a new defined name:

Once you gave a defined name to a cell, you may have to update the existing formulas. It takes a lot of time to do it one by one.

The best solution then is to do like this:
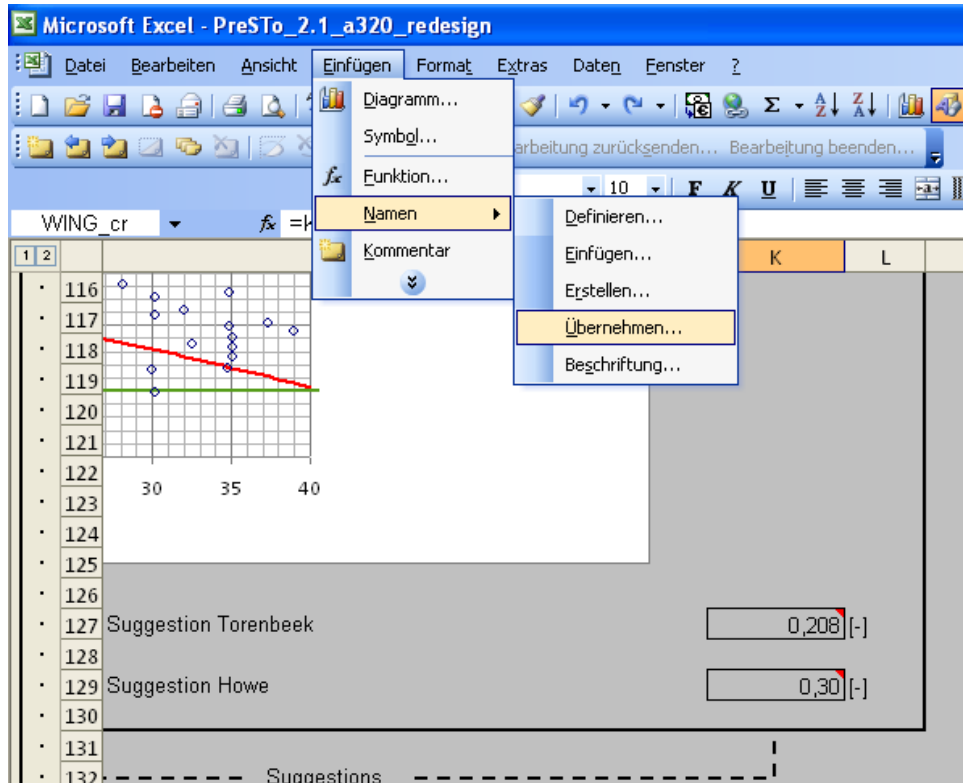
Go to Insert -> Names -> Apply

Figure 5   Go to "Apply names"

Select the names you want to update in the formulas, and hit "OK"
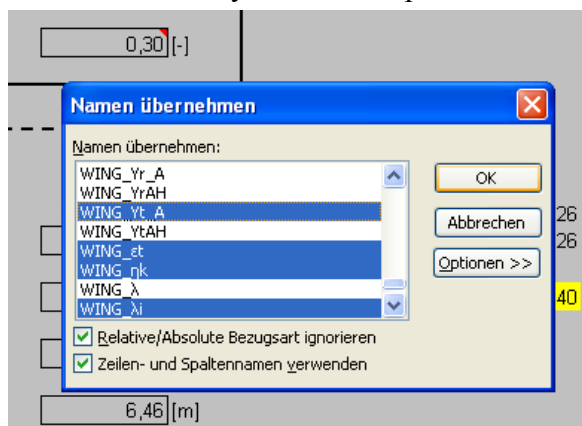

Figure 6   The "Apply names" window

The selected names will then be used in the existing formulas.

References

PEAR 2010   PEARSON SOFTWARE CONSULTING, LLC: *Defined Names*, URL: http://www.cpearson.com/EXCEL/DefinedNames.aspx (28-4-2010)