Hi everyone, I would like to point out that the conversion from shapefile to raster is not possible, with no tools. I tried all the tools of potential conversion from polygon to raster, but they don't work, so much so that I had to use another gis!

Please be specific: what tools have you tried (the actual names)? what are the error messages? Can you attach a sample of the data you are trying to convert? Thanks.

1) tools used (the actual names): The command used is "rasterize" (raster menu, conversion).
2) What are the error messages? I correct myself: it does not allow to convert from shapefile to raster (raster polygons) data with a high geometric resolution (1x1). If I use a 10x10 resolution, the data is produced but not needed.

the tool you are trying to use (note: there are others, for example the GRASS or SAGA ones) is actually just a GUI of command line tool from GDAL. You should try to use this tool from the command line https://gdal.org/gdal_rasterize.html: if it works is a QGIS issue, if does not is not a QGIS issue.

Just tested GDAL's rasterize tool via Processing and everything works fine.
Please provide test data and exact steps to reproduce issue.