

Elmer/Ice, a software for Ice Sheet Modelling: tools for development, implementation and visualisation

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Elmer/Ice is an open source software for glaciers and ice sheet flow modelling. It is based on the finite element model Elmer mainly developed by CSC-IT Center for Sciences Ltd. in Finland.

Collaborative developments and specific applications of the code are concomitant. This requires the use of efficient tools to track any change of the model.

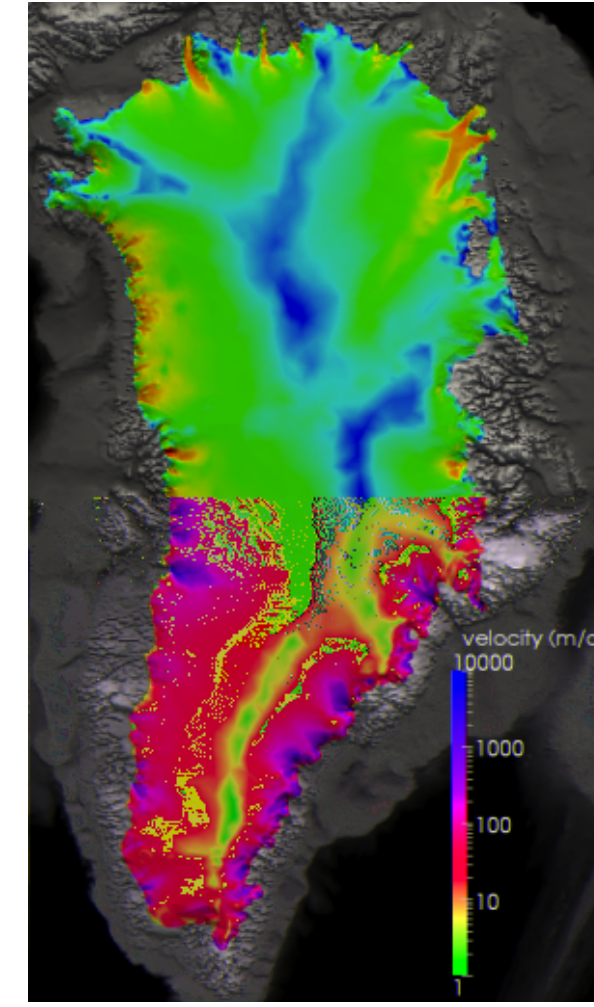
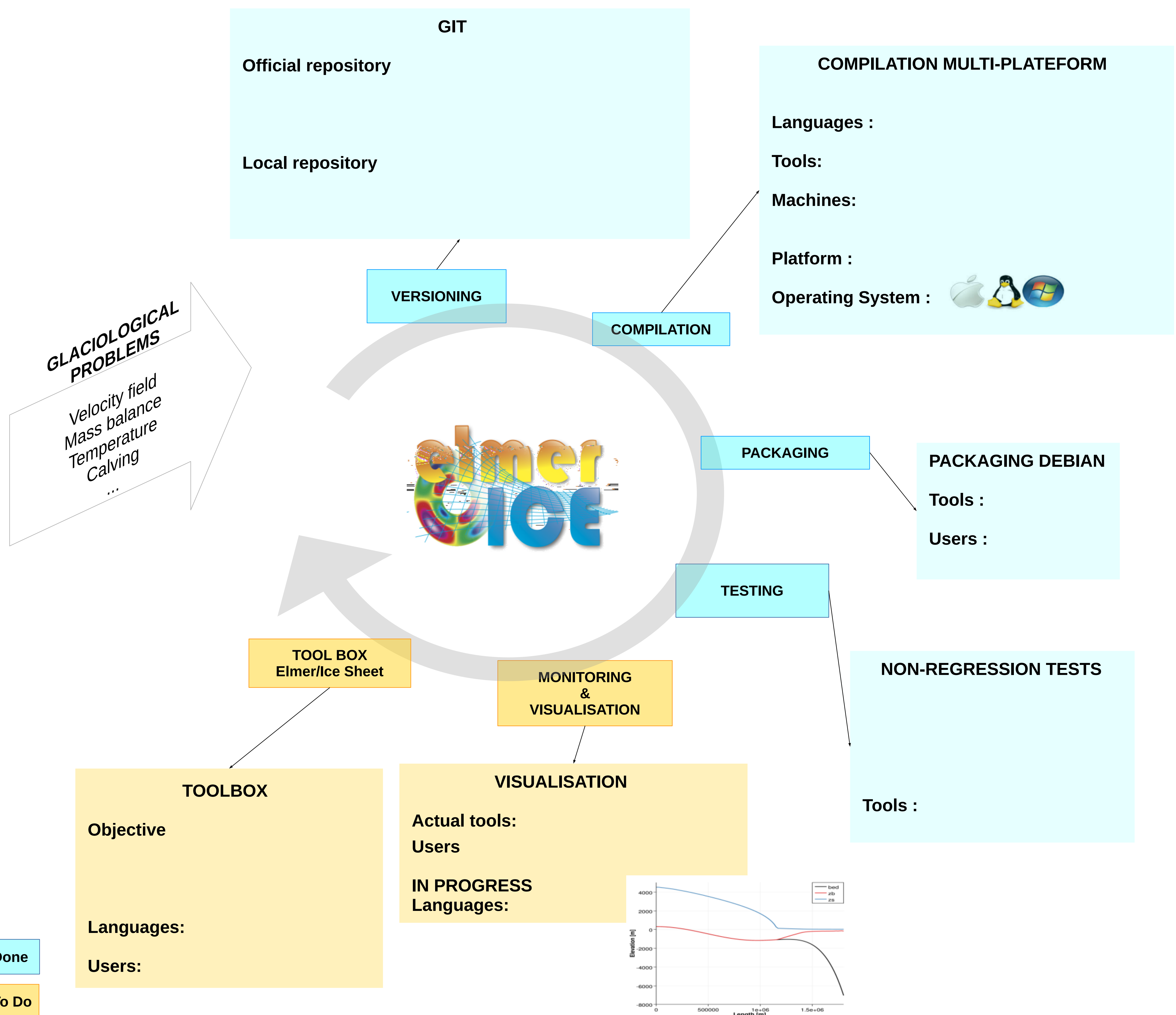


Figure 1: Surface velocity of Greenland computed with Elmer/Ice. Gillet-Chaulet et al., 2012



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Outlines for futures developments are :

MONITORING

Analyse the outputs of the simulations in real time and give some informations on technical elements (time step, ...)

Languages: Python, ParaView & VTK

TOOLBOX

Contribute to the coupled ice-sheet/ocean models, a toolbox is being developed to automatically generate input files and meshes for standard problems.

Languages: Python

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