Galaxy-Bricks a Tool for Data Literacy and Scientific Approach Education in the Context of Citizen Science

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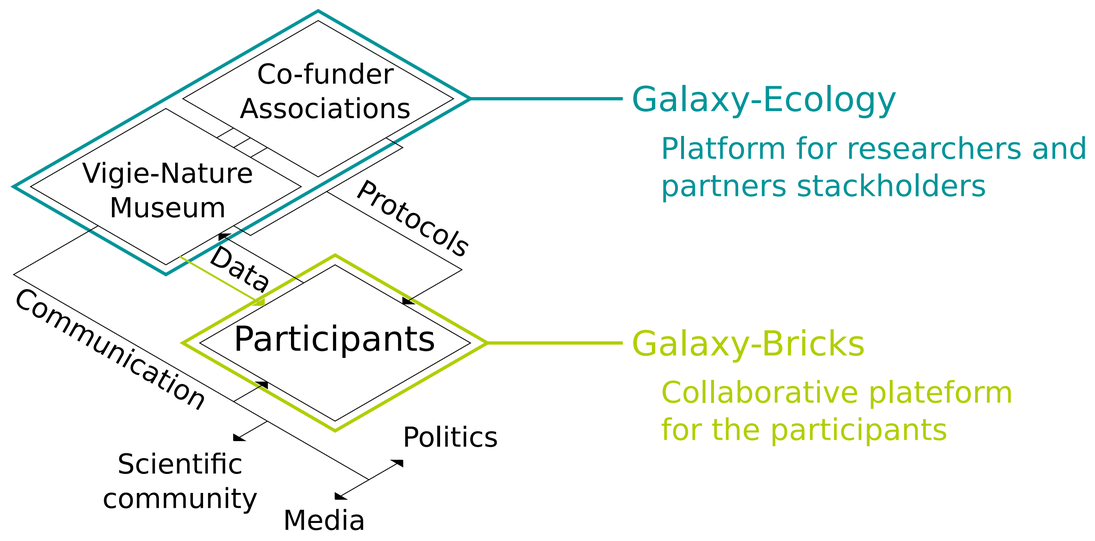
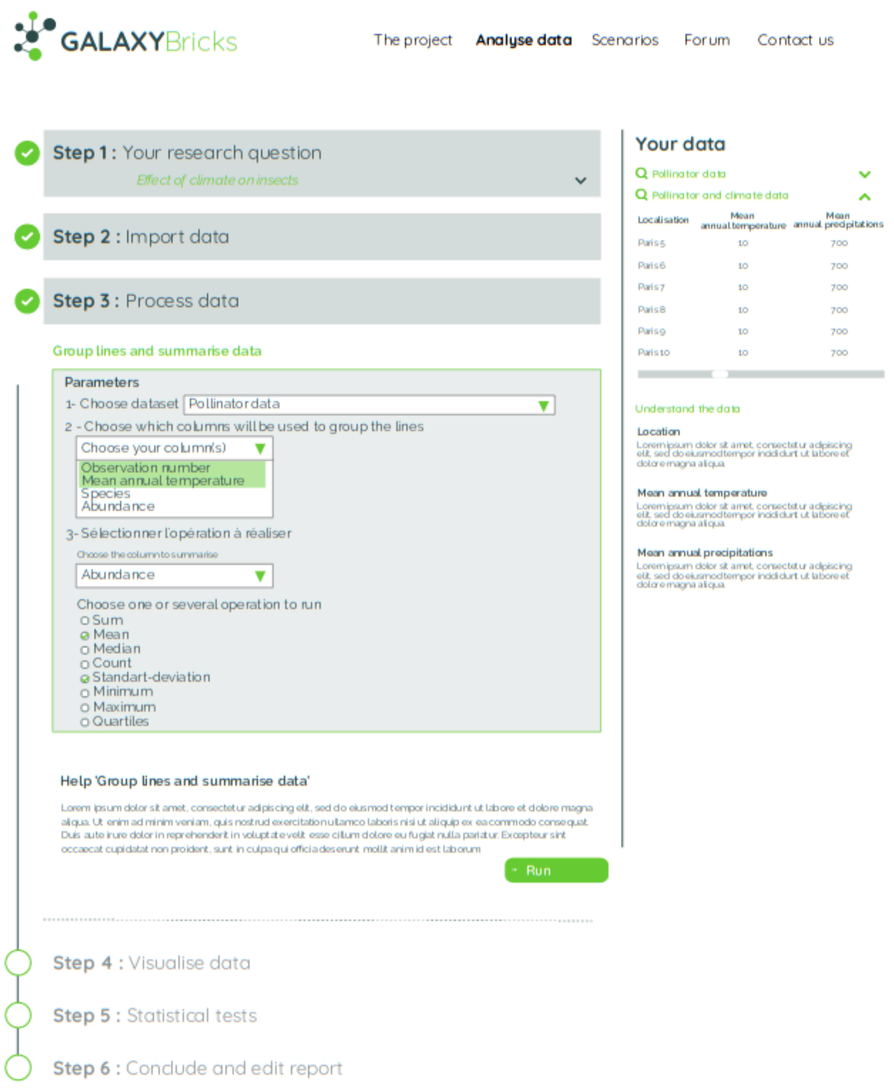
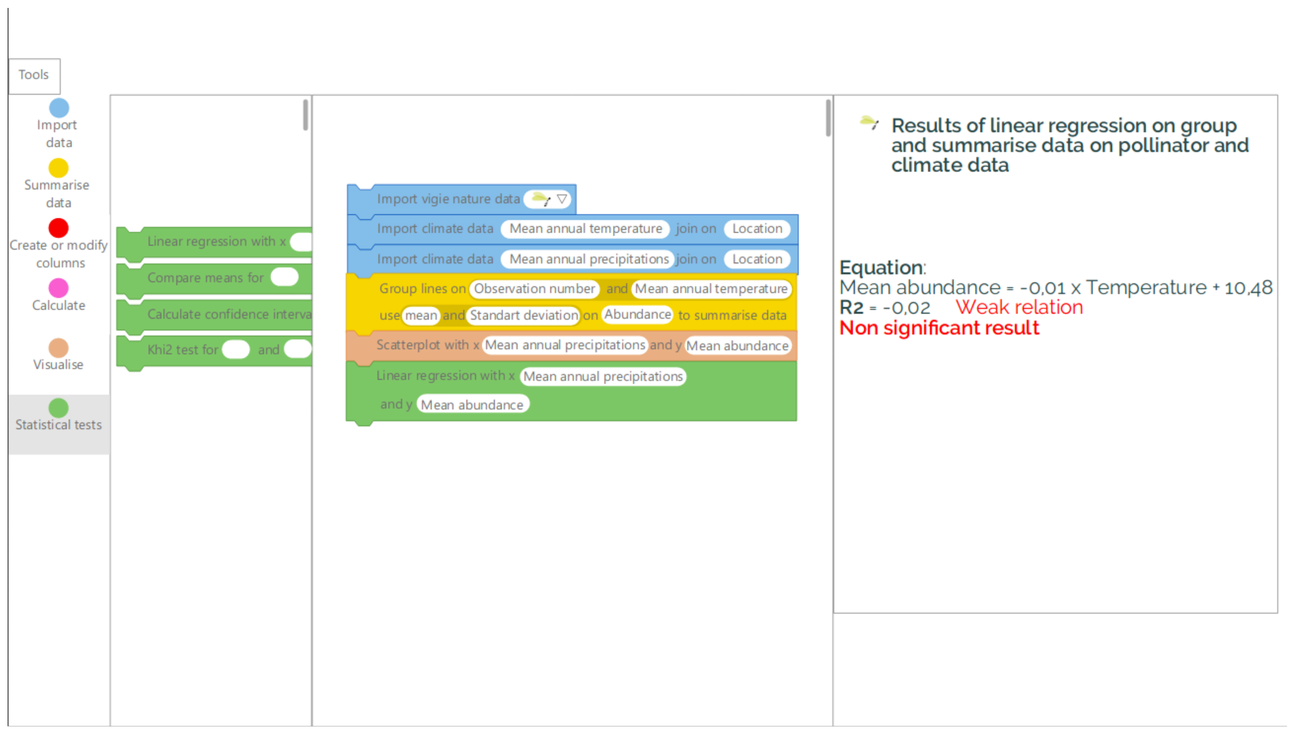
Introduction

To increase the accessibility to data and extend collaborations between research teams and participants of our citizen scicence programs, we are developing Galaxy-Bricks, a data analysis tool based on Galaxy for Ecology. This platform will include user-friendly tools together with specific training material, designed for non-professional contributors. We are using the possibilities that Galaxy provides to reach this goal and we are investigating simplification of the graphical user interface using notably external softwares (Scratch and NGPhylogeny.fr).







Based on Galaxy

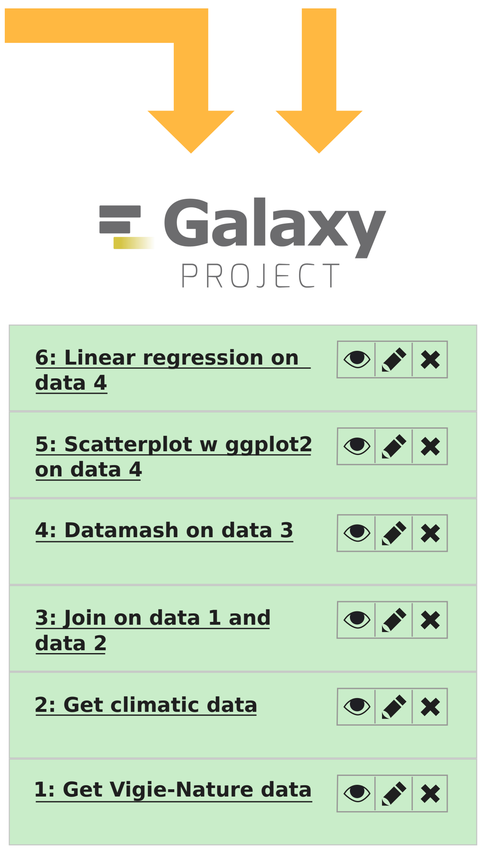
to move towards FAIR practices

to give access to the data the citizen produce

to give access to high performance computing

to reduce coding effort and share the tools produced with the community

to allow the production of different user interfaces



Develop user interfaces

to fit the diversity of participants (experts, amateurs, highschool students) by reducing the complexity of galaxy

to give access to a user friendly interface facilitating scientific approach education