



March 15 2016

Dear

**Dr. Nora Newcombe**

Spatial Intelligence and Learning Center

sensus synergy is an organization of corporate entrepreneurship. We are a networking project to build integrated and interdisciplinary activities in environmental and human sciences, and technology both for research and/or consulting. Interacting with other networks as well.

One of our areas is in *cognitive science*. A specific theme which we are focused on is in *spatial cognition* and *decision making*. The following information is about the research scheme which I wish to make known.

There are 3 works to be developed in the earth science context:

1. Metacognition of quantitative and qualitative concepts for mapping.
2. Efficacy and Efficiency of strategies for spatial assessment in soil geography. (simulation models)
3. Mathematical accuracy for mapping alternatives: learning organization as for geometric inference in abiotic variables.

An extensive literature review and a preliminary experimental design are already done and conceived. In addition, professional field and academic experience in earth science support the research process.

It is needed professionals who are interested in participating as co-authors in at least one of three works. Although, at this time only the studies n.1 and n.2. are the priority to continue developing. Apart from the authors, some senior advisers might be involved in the projects.

**General activities to collaborate on:**

- A. final design of the survey/test, as well as the consensus about the platform or methodology to carry out the survey.

- B. getting one of the groups of professionals and/or students who could take the tests.
- C. information analysis (as a team).
- D. process of correction and verification for the final document.
- E. being one of the contact or to coordinate the process of publication of the research.
- F. programming and/or modelling software and/or help in the respective conceptual design. This point is especially for the works n.2 and n.3.

**Resources needed: time and knowledge**

Additional financial resources could be needed in the work n.2 to improve presentation and speed of the assesment but it is not a requirement to be involved in the projects n.1 and n.2. For the research n.3 computing and software resources or costs are higher.

Interest in the research scheme and questions about the process of the project, write to: [cognition.sesproject@gmail.com](mailto:cognition.sesproject@gmail.com) with copy to [rolando@sensussynergy.com](mailto:rolando@sensussynergy.com)

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