Journal: Natural Hazards and Earth System Sciences (NHESS)

Title: The environmental balance of the Alta Val d'Agri: a contribution to the evaluation of the industrial risk and strategic sustainable development

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Special Issue: New observing strategies for monitoring natural and technological hazards: the case-

study of the Agri valley, Southern Italy

Anonymous: **Yes**/No

Formal Manuscript Rating and Recommendation to the Editor (non-public)

### 1) Scientific Significance

Does the manuscript represent a substantial contribution to the understanding of natural hazards and their consequences (new concepts, ideas, methods, or data)?

#### Excellent

Good The manuscript represent the study – preliminary balance of the Alta Val d'Agri region.

DPSIR methodology has been used to outline the environmental impacts mainly caused by the oil extraction. This study could be as a background information for future developments. This preliminary analysis is essential to identify the strengths and weaknesses of the study area, the potential risks as well as to define strategies and measures to promote a sustainable development of the energy system.

Fair Poor

## 2) Scientific Quality

Are the scientific and/or technical approaches and the applied methods valid? Are the results discussed in an appropriate and balanced way (clarity of concepts and discussion, consideration of related work, including appropriate references)?

#### Excellent

Good The applied methods are valid, only one remark concerning this methodology – the methodology was initiated in 1995 (it means long time ago), but still is useful and still is in use. Despite that, the additional indicators were applied and today's scientific information was used for the study and results interpretation.

Fair

Poor

## 3) Presentation Quality

Are the scientific data, results and conclusions presented in a clear, concise, and well-structured way (number and quality of figures/tables, appropriate use of technical and English language, simplicity of the language)?

Excellent The scientific results are presented in a clear and well-structured way. The tables and figures are good quality.

Good

Fair

Poor

For final publication, the manuscript should be

# accepted as is.

accepted subject to technical corrections.
accepted subject to minor revisions.
reconsidered after major revisions:
I would like to review the revised paper.
I would NOT be willing to review the revised paper.
rejected.