

The Provence Coalfield: trajectory, assessment and prospective

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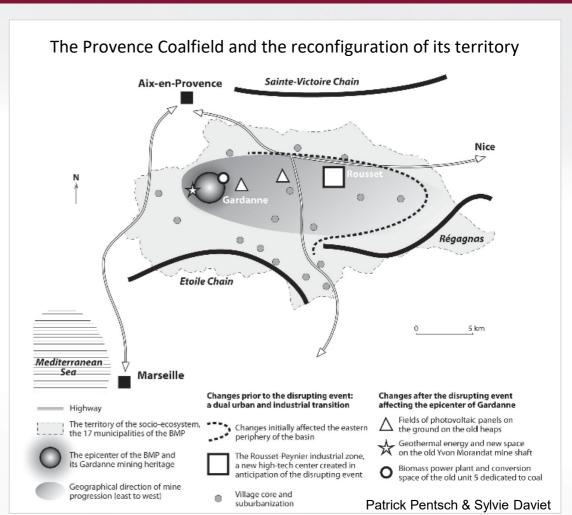
Reporting on the work* of the observatory since 2007

Materials and Methods

- Socio-Ecosystem responses to the disruptive event
- The research device through the calls for projects:
 - contribution of disciplines
 - major topics (lexicography of projects titles via IRaMuTeQ)
- The implementation of the science/society interface
- Main conclusion



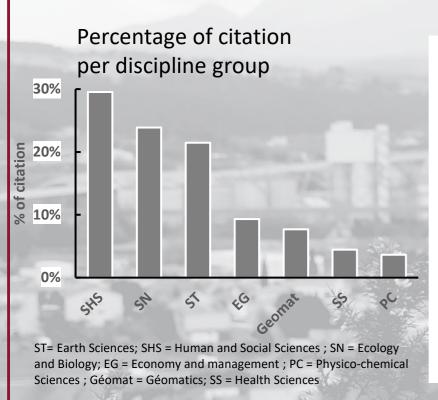
- * 1980-2000, before the closure of the mine (disruptive event), the changes mainly affected the periphery of the (suburbanization, microelectronics).
- Since 2003 (the disruptive event) the changes affected the center of the basin: it is the end of the coal power plant; the end of the Bayer process in the alumina factory, the end of the communist municipality ...

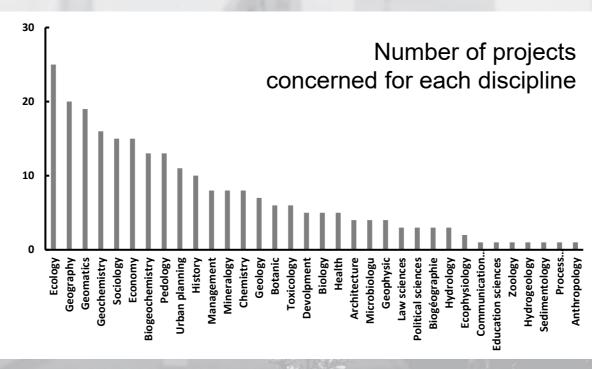


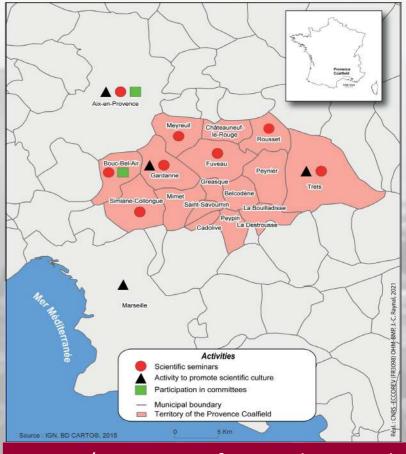
Major trends of the Socio-Ecosystem (SES): the multiplication of disruptions

Distribution of disciplines mentioned in the projects

Rather well balanced and giving rise to many interdisciplinary projects

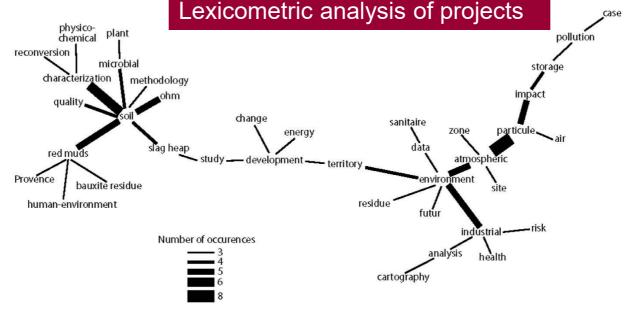






Science/society interface implemented





Word cloud derived from the titles of projects selected between 2008 and 2020

Graph showing word associations at threshold 3

Research content structured by two main topics: soil analysis and environment

Concerning these two topics, the association graph shows the importance of related dimensions: objectivation through methodologies, and issues at stake: humanenvironment relation, territorial development, pollution, health.

Conclusion: Towards which new equilibrium?

We can imagine at least two scenarios for the former Provence mining basin: -The first would lead to a strong deindustrialization with a rejection of heavy industry -The second would lead to a more negotiated balance between economic activities, residential needs and environmental protection.







^{*} Collective work produced for Compte-Rendus de l'Académie des Sciences