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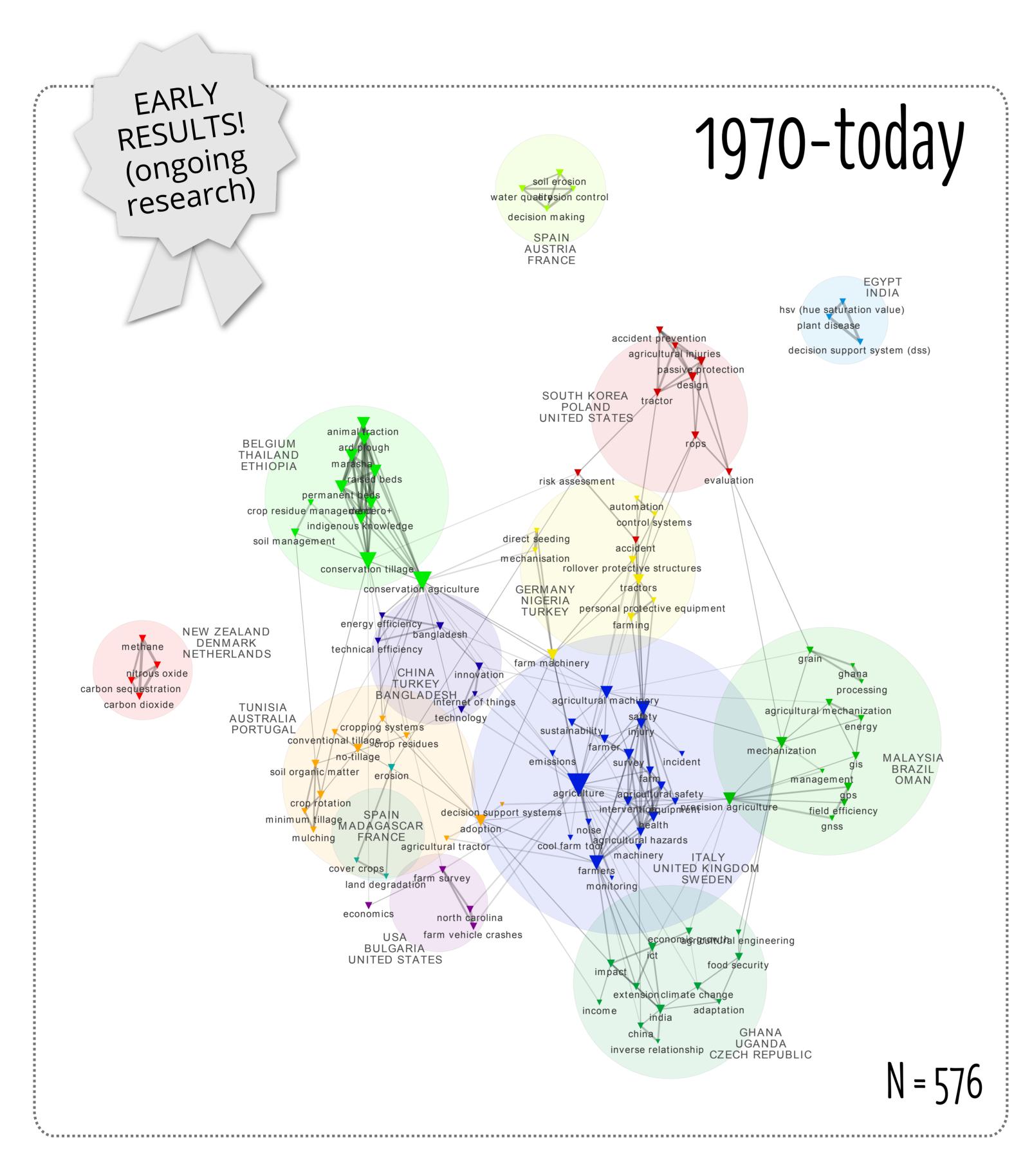
1st AXEMA-EurAgEng Conference

Intensive and environmentally friendly agriculture
an opportunity for innovation in machinery and systems
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Factors influencing farmers' preferences about agricultural equipment supply. A literature overview

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UP 2012-10-103 INTERACT
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EARLY RESULTS! (ongoing research)

1970-today

N = 576

The aim of this study is to identify the key factors influencing farmers' decision making and preferences about the equipment supply. The study is based on an overview of the available scientific literature and reports, and it is being completed by an ongoing survey of the farmers' needs concerning the agri-equipment.

Our goal is to define a generic analytical framework to explore the expectations and willingness of farmers in the adoption of equipment innovation. We foster studies at levels ranging from regions to countries.

We present here the early results of the first step: a literature review performed on the SCOPUS database. We searched for all the documents mentiong (in title, abstract or keywords) the farmers and the agricultural or farm|ing equipment, with a focus on survey, needs, decision (-making, support, etc.), criteria and adoption.

TITLE-ABS-KEY ("farmer*")

AND TITLE-ABS-KEY ("surve*") OR TITLE-ABS-KEY ("need*") OR TITLE-ABS-KEY ("decision*") OR TITLE-ABS-KEY ("prefer*") OR TITLE-ABS-KEY ("criter*") OR TITLE-ABS-KEY ("adoption")
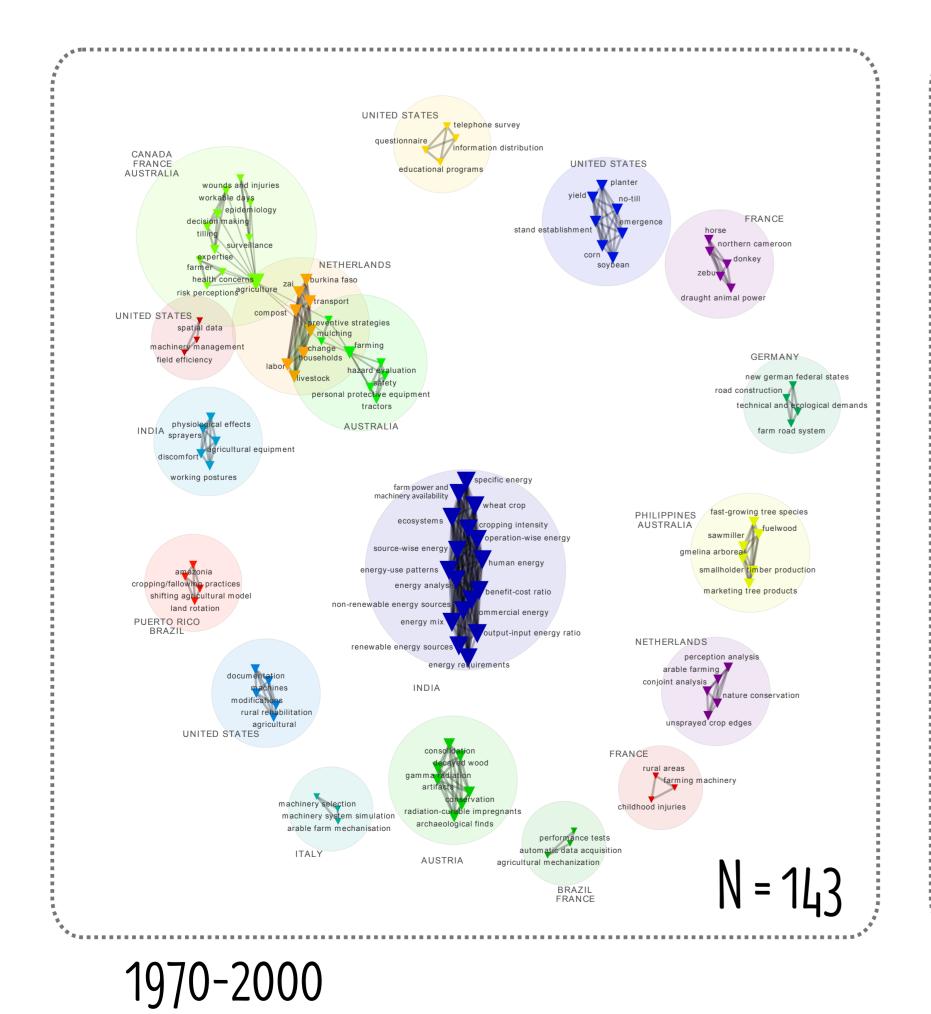
AND TITLE-ABS-KEY ("agri* equipment*") OR TITLE-ABS-KEY ("farm* equipment*") OR TITLE-ABS-KEY ("agri* tool*") OR TITLE-ABS-KEY ("farm* tool*") OR TITLE-ABS-KEY ("agri* machine*") OR TITLE-ABS-KEY ("farm* machine*") OR TITLE-ABS-KEY ("agri* mechani?ation") OR TITLE-ABS-KEY ("farm* mechani?ation*")
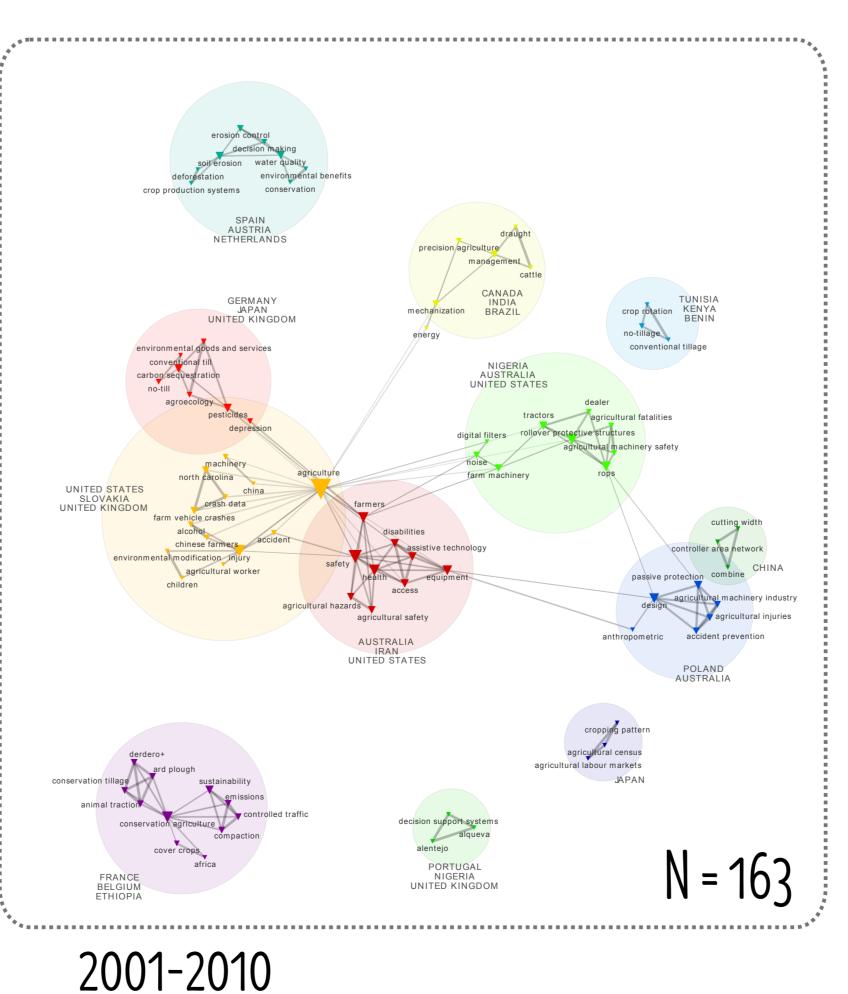
A bibliometric analysis was performed using the CorText software (IFRIS, 2014) to perform lexical analysis and mapping the structure and the dynamics of the corpus. The software first calculates the frequency of occurrence of each term; then normalizes these occurrences and co-occurrences as proximity measurements to link the nodes (Tancoigne et al., 2014).

Combined mapping and clustering of the most frequent keywords that appeared in the research field in the period 1970-2017 using CorText software. The dimension of the circles is proportional to the number of retrievals. Nodes are linked according to different types of proximity (measure: chi-squared test).

References
IFRIS, 2014. CorText. Université Paris-Est 77420 Champs Sur Marne. Available from: http://manager.cortext.net/
Tancoigne et al. 2014. The place of agricultural sciences in the literature on ecosystem services. Ecosyst. Serv. 10:35-48

Clusters of the main keywords and related Countries (above) and difference per sub-period (below)

N = 143

1970-2000

N = 163

2001-2010

N = 270

2011-today

Chaire Agro-Machinisme et Nouvelles Technologies

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