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A Semantic Approach to Manage Ideas in an Innovation Process

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A Semantic Approach to Manage Ideas in an Innovation Process



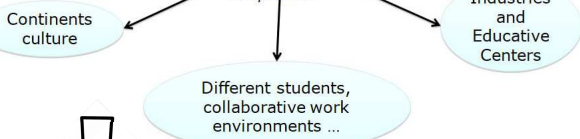
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Research Context

« 48 Hours to generate ideas »
CWS challenge by University of Lorraine



“Organizational creativity depends on the abilities of the individuals within it”
(Acar and Runco 2012)

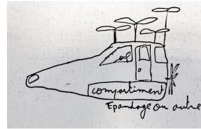
Example:

Multifunction flying tractor

Équipe: Toulouse-équipe 13

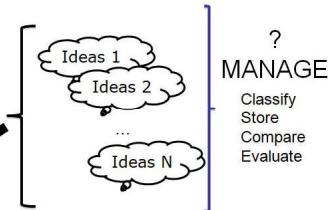
Description détaillée:

propeller based conveyor (or futuristic propulsion) that would move in the air in any direction. It would include: - A cabin for two people (optimized in comfort: seat, radio, simple interface, nice) - Ventral compartment dedicated to the task at hand (fertilizer / pesticide / embedded system for data collection, etc.) - Support tools (GPS, etc.)



IDEA-CARD

Problem



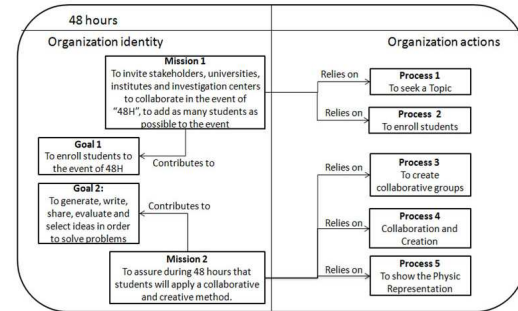
The format of idea-card's fields are heterogeneous as Khemiri idea in (Khemiri et al., n.d.)

Proposition

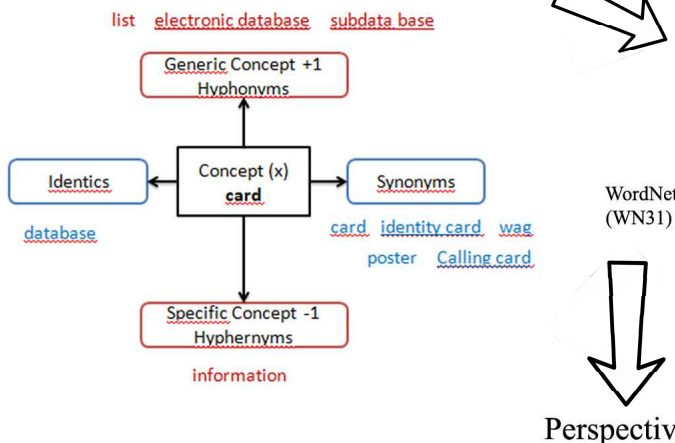
- 1 • To Design a Model to Highlight Knowledge
- 2 • To Propose a Semantic Approach to annotate Idea Cards
- 3 • To implement an Intelligent System for Innovation Management

Organizational Structure

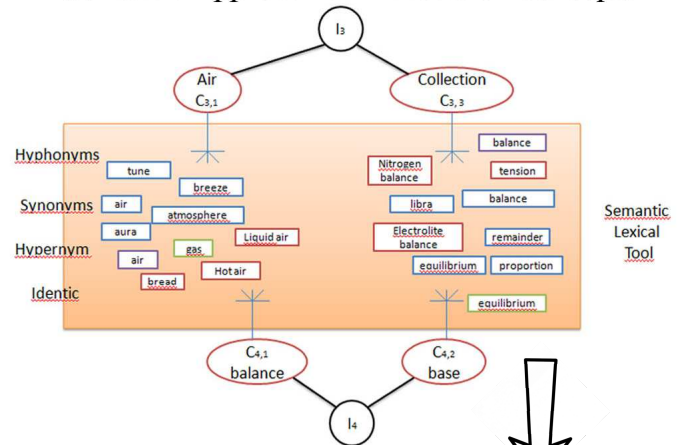
To model the 48H with the meta-model KROM (Girodon et al. 2015a).



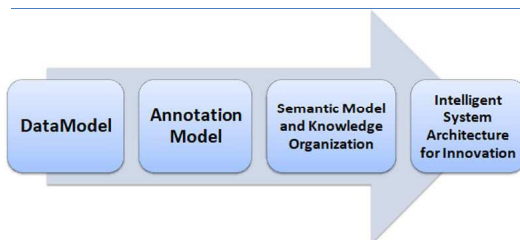
Model of Knowledge Organization



Semantic Approach on Annotation Concepts



Perspectives



Our perspective is to build three models: Data Model, Annotation Model and Semantic Model and Knowledge Organization to obtain an Intelligent System Architecture for Innovation.

Implementation in Progress...

Bibliography

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