





Retour d'expérience d'un projet sur l'émergence d'une co-conceptualisation Hadj Batatia, Pascal Dayre



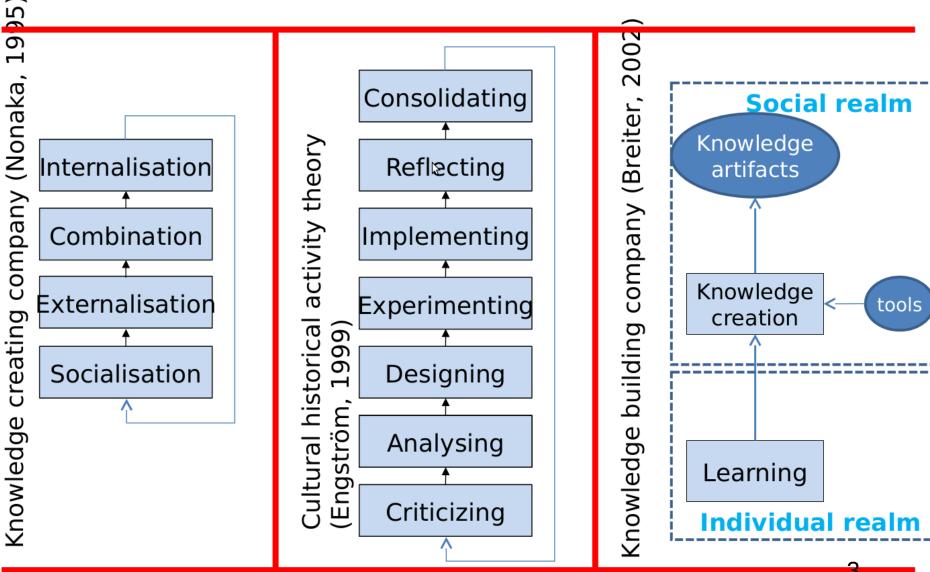


Context

Learning and innovation in knowledge intensive environments : tacit knowledge based framework

- Domains
 - -Innovation in workplaces
 - -Learning in higher education
 - –Research processes
- Collaboration
 - -Experts building an artefact
 - -Company emproving business processes
 - -Teams solving problems

Different theoretical approaches



Principles of the proposed framework

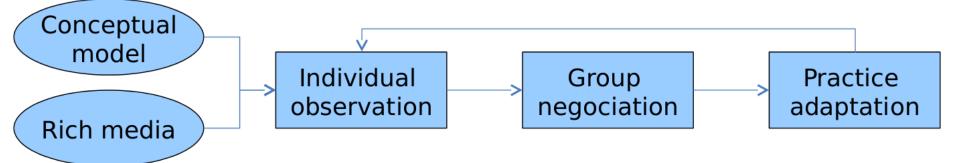
- Tacit knowledge in a key factor to innovation and learning
- Learning goes beyond cognitive and social perspectives
- Collaborative Knowledge creation is the ultimate level of learning
- Collaboration must be mediated technologically

SMAT Principles

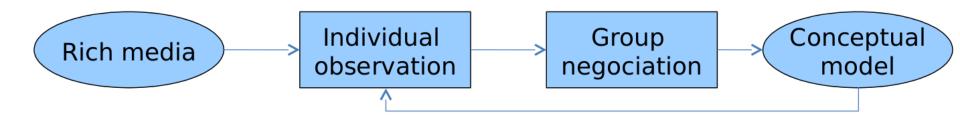
- Rich media as means of representing activity (story telling approach)
- Semantic schemas and ontologies to represent explicit knowledge
- Semantic annotations, links to capture thoughts, ideas
- Scenario based organisation of collaborative activity
- Group negociation of common understanding
- Capture knowledge practices

Supported processes

Internalisation : making formal knowledge tacit

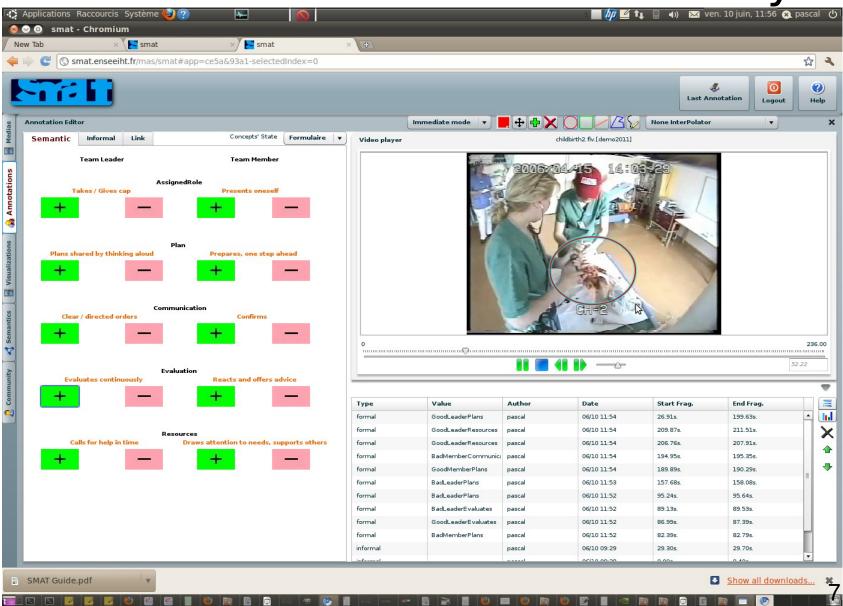


Externalisation: making tacit knowledge explicit



SIIM2011

View of the annotation activity



Critical care team training (a SMAT usage scenario)

Collaboration with Karolinska institute IIM2011







\$IM2011

Bloc opératoire



\$2M2011



\$BM2011



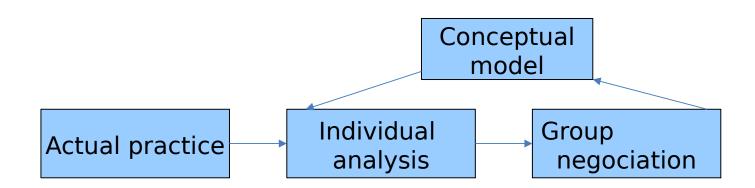
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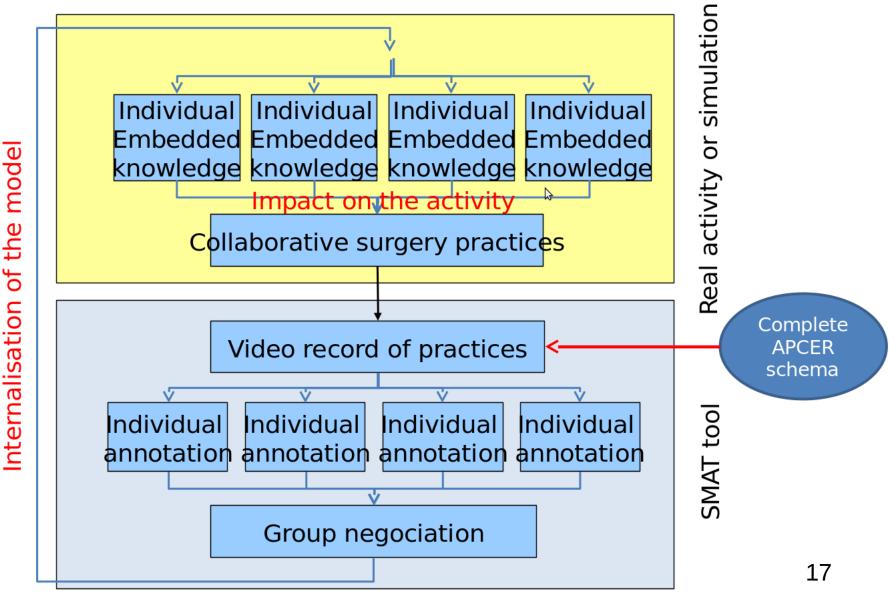
Problem

- The team of trainees does not perform well
- Lack of coordination and understanding of roles and responsibilities
- How to allow changing the practices in order to improve the process?
- How to help the team develop a common understanding of the activity ?

A learning scenario with SMAT

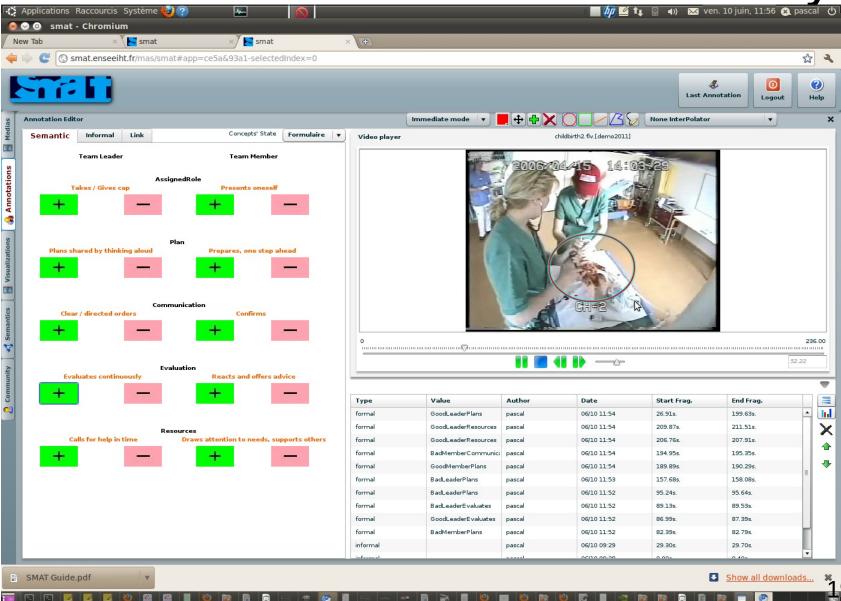


Learning scenario : collaborative knowledge creation



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View of the annotation activity



Conclusion/Perspectives

- An original conceptual framework for collaborative learning and knowledge creation
- A multimedia tool based on semantics and social interaction to internalize/externalize knowledge
- Application to training medical staff
- Transposable to other workplace processes