



Work debate spaces for transforming representations and building work rules: a collective tool for preventing risks related to nanomaterials

Catherine L'ALLAIN (LIP-UGA) – Sandrine CAROLY (PACTE-UGA) – Eric DRAIS (INRS)
NANOSAFE 2016 – 9 novembre 2016

CONTENT

Discussion around work debate spaces

- Context
- Problematic
- Methods
- Results
- Discussion

THE ERGONOMICS APPROACH

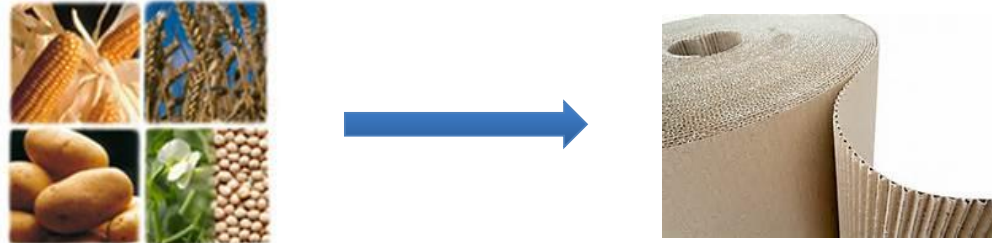
- **Nanomaterials**
 - Important scientific and economic issues
 - Partial scientific knowledge

- Industry facing difficulties in implementing prevention, despite of best practice guides

- **The ergonomics approach, the approach of the working activity**
 - A comprehensive approach
 - Focused on working activities observations
 - Complementary to other methods (exposure measurement)
 - To highlight regulation processes
 - To produce action rules, adjusted to the work context

2 CASE STUDIES

- Case A : a R&D laboratory in an industrial company
 - Valuation of agricultural materials rich in starch for the production of cardboard
 - 4 workers



- Case B : a scale-up facility pooling platform
 - Development of innovative organic nanostructured composite and coating technologies
 - 15 workers



- Objective: implementation of a prevention approach for risks associated with nanomaterials

QUESTIONING

- How to implement prevention in a context of uncertainty?

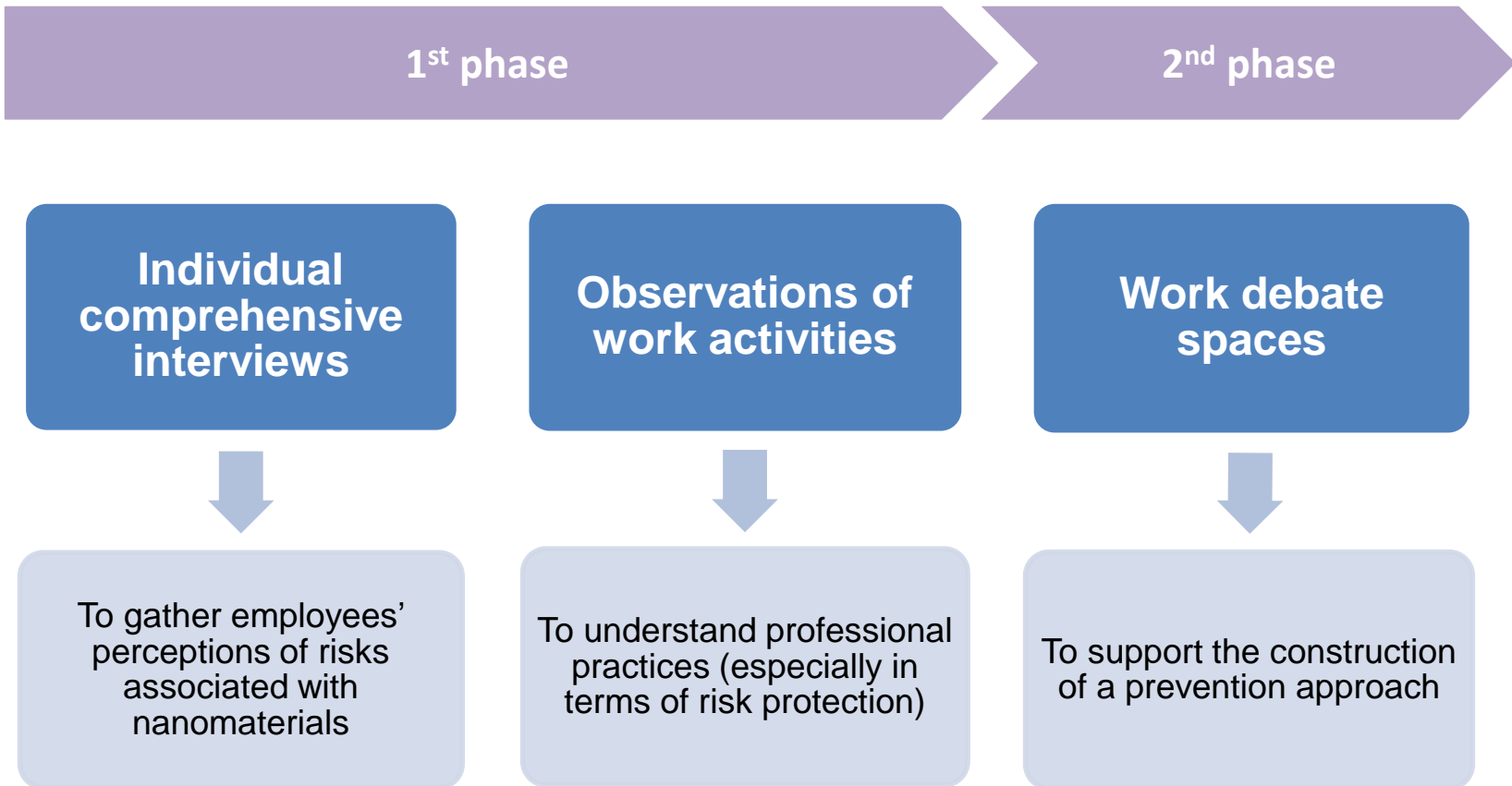
→ Need of places where employees can confront and discuss their professional practices and risk representations

- Problematic
 - How the setting up of work debate spaces facilitates prevention as part of so-called risk "uncertain"?

→ Work debate spaces

Places of explicit contradictions and repeated offs between employees (Detchessahar, 2011)

2 PHASES



2ND PHASE: THE WORK DEBATE SPACES

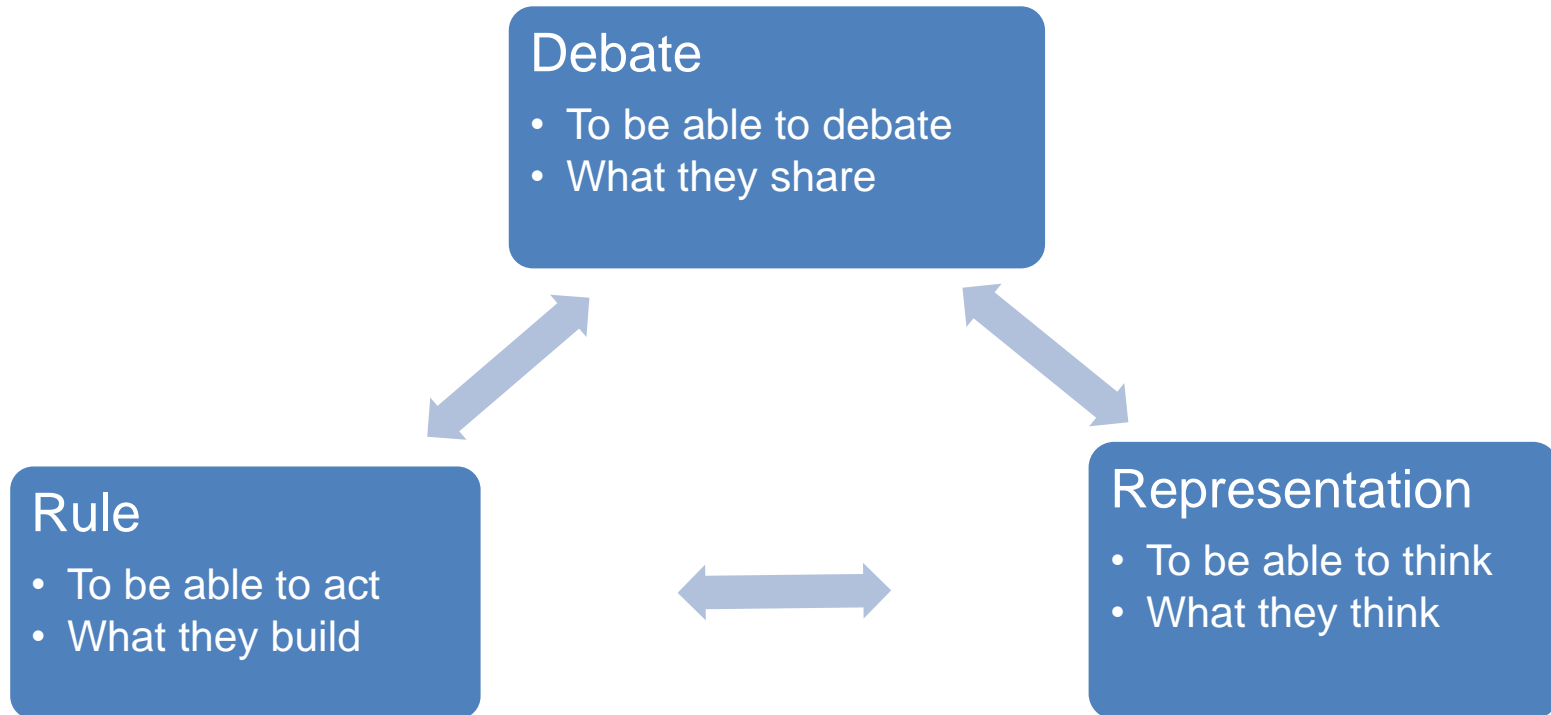
- Case A
 - 2 working groups
 - Operational committee
 - « Expert » committee

- Case B
 - 4 working groups
 - Maintenance
 - Flow
 - PPE
 - Waste

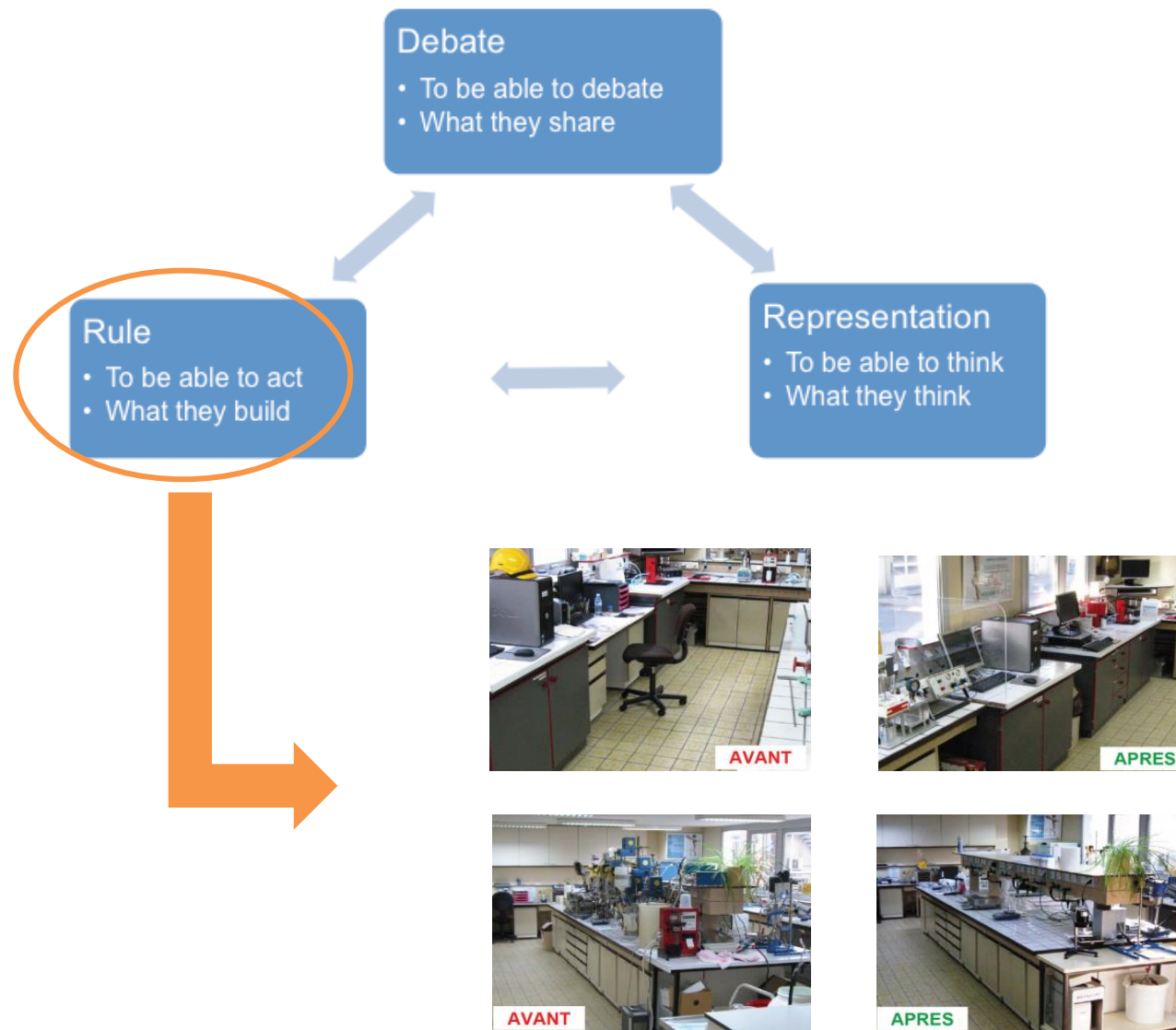
- Seeking solutions from the traces of the work activity
 - Method of collective confrontation
 - A form of collective reflexive activity

DEBATE DYNAMIC

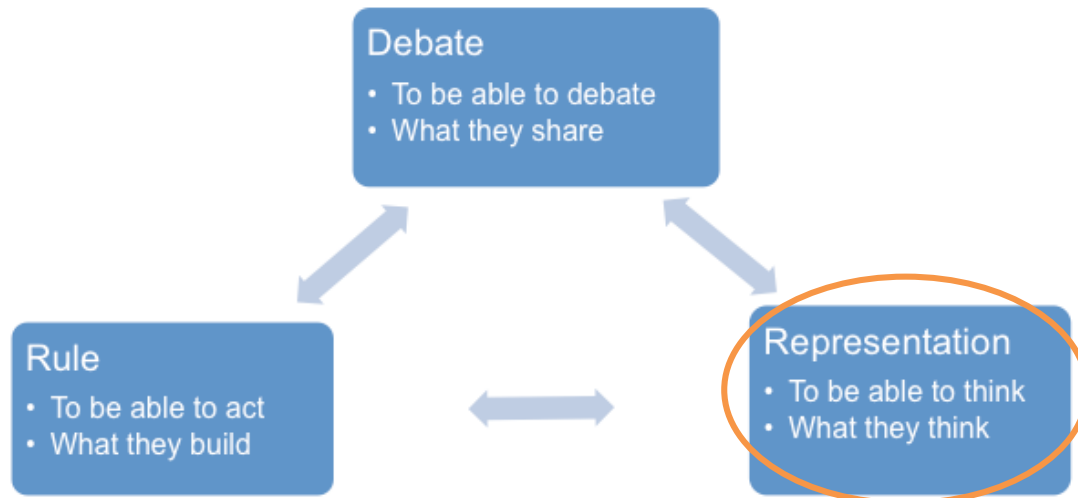
Inspired of Daniellou, 1998



CASE A: SEPARATION OF OFFICE SPACES FROM HANDLING SPACES



CASE B: EFFECTIVENESS OF A MOBILE CAPTURE HOOD



DISCUSSION

- The work debate spaces, a collective tool for prevention
 - Transformation of representations of nanomaterial-related risks
 - Collective construction of rules for prevention

 - In this context of so-called risk « uncertain »
 - A meeting place for various corporate stakeholders
 - A place of collective work
 - A place of cross learning through sharing individual experiences
- A place of social construction of risk prevention



Thanks for your attention

Questions?

Catherine L'ALLAIN (LIP-UGA) – Sandrine CAROLY (PACTE-UGA) – Eric DRAIS (INRS)
NANOSAFE 2016 – 9 novembre 2016