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## **Transformation and Perception: How an Information System Project** Can Be Carried out Successfully

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#### **Abstract**

Perception is not taken into account at its true value by the research work on organisational transformation. The aim of this publication is to put forward an analysis of the critical first stage of organizational transformation (first phase). We think there is a link between the first stage of transformation, its perception by the actors, and the success of the implementation of the project. We therefore put forward a conceptual model, which we shall illustrate with two casestudies in information systems and a discussion.

Keywords: Organizational Transformation (first phase), Organizational Perception, Success, **Information System** 

#### Introduction

Even though perception is a concept which is necessarily intuitive in the analysis of transformations in information systems, it is not taken into account at its fair value in existing theoretical models. These models mainly deal with the following triptych: Intelligence (formulation of the problem), Design (conception of alternatives) and Choice (choice of a solution) (Simon 1976). However, the development of systems adapted to each phase of the decisionmaking process represents today a major challenge in information systems (Kivijärvi, 1997, Markus & Tanis, 2000. We will therefore focus on the first phase of a transformation: its perception. Very little mentioned in theoretical inputs, this phase is yet fundamentally linked to future organizational impacts of a project (Rowe and Besson, 2001: p. 5).

Thus, research has shown that the perception at the beginning of

transformation by the actors impacts the process of its establishment (Gellis, 2001) and increases the commitment to work (Leach, 2005) and the performance of the work (Rosen & al, 2006). Indeed, perception consists in undergoing an action and responding appropriately (Elsbach, 2006). However, there has been little research in management of transformation which examines the psychological mechanisms of perception (Chang & al, 2009: p. 780). Some works in cognitive psychology (Piaget, 1967) however provide a framework conducive to remedying this deficiency. This is particularly the case in recent advances on emotional experiences (Efenbein & al, 2007; Armenakis & al, 2007; Weick & al., 2005). The purpose of our research is therefore an attempt to understand how theoretical inputs in the processing field, on the one hand, and in the psycho-cognitive field of perception, on the other hand, can articulate and be mutually beneficial.

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From this analysis, the question that drives our thinking can be formulated thus: how can a manager and his project team express their way of seeing the first phase of organizational transformation? We identify, in the first part, the concepts of organizational transformation and organizational perception to highlight the interest of their close connection, so as to apprehend a more overall transformation in the information system projects.

In the second part, we build a conceptual model of the main psychological mechanisms that connect organizational perception to the results of the transformation and illustrate it with two case-studies.

Finally, in the third part, we note that there is a link between perception, the first phase of organizational transformation and the success of a project in information system. Therefore, it is at this stage that managerial interest will be meaningful. We will undertake a discussion on this link.

#### "Organizational Transformation" and "Organizational Perception": A Successful Connection

Organizational transformation represents the phases of realignment of the strategy, the structures and the processes of the organization and the behaviour of the actors. Specifically, the transformation process involves the following three phases:

- a state of full readiness leading to the first phase,
- the adoption and
- the institutionalization (Armenakis and Harris, 2002: p.169) of the project

During the first phase, the actors are prepared for the processing and (ideally) become followers. Thus, the success of the organizational transformation is linked to the perception of this initial phase (Chang & al, 2009). Therefore, it is likely that the management methods used to launch the

first phase of a transformation differ from those used in subsequent phases.

#### Organizational Transformation

The transformation is often referred to by terms of organizational changes (Coghlan, 2000) or reengineering (Hammer and Champy, 1993) and linked to related concepts such as leadership or the concept of resources and competencies (Burns, 1978); Gilmartin & D'aunno, 2008). Two lines of theoretical research determine the boundaries of the transformation without offering a specific reading grid management for the first phase organizational transformation. important to briefly trace the essential ideas and the boundaries of these two currents before sharing our point of view.

Firstly. the contextual approach representing an aspect of the processing situation (Hull and al, 1997) circumscribes the phenomenon. However, the contextual approach in the work in information systems is limited to the accumulation and transmission of preconceived knowledge without taking into account the psychological and emotional state of the actors (Dey and Abowd, 1999).

This approach is interesting because it specifies the transformation perimeter. The context, defined as an environment for performing tasks, is measured through indicators of: places, actors identities, activities and time (Dey and Abowd, 1999). The mobilization of those indicators provides different faces of the "context" concept as a critical factor in overall teamwork performance (Rotundo and Sackett. 2002) and facilitator organizational transformation (Milton and Westphal, processing 2005; Van der Vegt and Bunderson, 2005). This increases the belief of the team in the fact that the work is significant (Baron and Hannan, 2002, Bierly et al, 2000). Regarding this last aspect, Rowe and Besson (2001) point out, in a study on the dynamics of information systems projects, that the strategic maturity of the actors can be evaluated on the basis of their level of understanding of the consequences for the organization. In

this case, the first phase of processing is directly concerned.

Secondly, the conduct of organizational transformation is analysed mainly through the theory of leadership in two forms: transformational (Burns, 1978; Bass, 1985; Gilmartin and D'aunno. 2008) and emotionally intelligent (Cummings & al., 2005; Huy, 1999). This theory allows us to partially fill the limits of the contextual approach taking into account the actors emotions. Transformational leadership is positively and significantly related to staff/job satisfaction, to additional effort (Gellis, 2001), to performance unity perceived (Stordeur & al, 2000), to a favourable organizational climate (Corrigan et al., 2002), to organizational commitment and, finally, conservation of the staff (Leach, 2005). Studies point out that cascading transformations in leadership (Bass, 1985), the upper echelons of the hierarchy managers behave in a more transformational way than those with lower hierarchical position (Leach, 2005). With regards to studies that examine the role of leaders in the management of emotions in the workplace (Huy, 1999; Cummings & al., 2005; Haag and Laroche, 2009), they point out that an emotionally intelligent leader, open to others, generates increased reactions of satisfaction and dedication on the part of his staff. The feeling of "positive emotions" determines the level of performance seen in the project. According to Haag and Laroche (2009: p. 85), "positive emotions occur when the actual performance is close to the performance to which we aspire". Research results also show that this type of management creates fewer negative effects when restructuring an organization. Kan and Parry (2004) specify in this regard that if the leadership style is a key factor of transformation, organizational structure and organizational culture, and particularly resistance to change, are also very important. The work of Harvey et al. (2006) refines these analyses taking an stimuli and interest in cognitive, motivational and emotional processes change in organizational behaviour at the implementation of a project in information system.

In summary, it is therefore important to go beyond the context and the leadership aspect to fully identify the first phase of transformation of a project. Indeed, the managers adopt, during this phase of the process (with a perception of the potential benefits), a specific style of management (Rowe and Besson, 2001: p. 17), because organizational perceptions are associated with desirable outcomes, including the increase in commitment to the work and performance (Chang et al., 2009; Van Kleef et al., 2009). Thus, the performance of a project is the result of the dynamics of the first phase of a transformation established by the management, the perception by the actors of this project and the organizational benefits and freedom of action of the actors. Their perception of this phase is ultimately a critical factor to determine a project's success or failure (Rowe and Besson, 2001: p. 8). However, despite the intuitive appeal of the notion that the perceived transformation will have an impact on the key results, these previous works did not take an interest in the mechanism of such an impact.

The link between "transformation of organizations" and "organizational perception" having been established, we will now focus on the decryption of perception to obtain a more global vision of it. We seek to show that the perception of the first phase of processing is a critical variable in the success of a project.

#### **Organizational Perception**

Perception links the actor to the environment through a moderator: the senses. This perception is mobilized in management to study changing situations. Thus, the psycho-cognitive approach argues that the actors analyze their social environment to identify perceptual signals so as to determine their emotional experience (Efenbein et al, 2007; Davenport and Beck, 2000; Weick et al., 2005). Some psychologists have noticed that emotional experience follows the perception of a stimulus. For example,

Kelly and Barsade (2001) demonstrate that the interdependence of actors in a workplace results in a high intensity of evocative stimuli. Thus, the three stages of perception highlighted here are revelation, awareness and interpretation.

- (I) The revelation occurs when a stimulus is in the scope of a sensory receptor (e.g. vision). The principal dimensions of a stimulus are its novelty, being pleasant and its relevance to the objectives (Efenbein et al, 2007).
- (II) The awareness is involved in the interception of the stimuli by sensory organs (Davenport and Beck) organs, 2000.
- (III) Finally, the interpretation is the attribution of meaning to a given situation (Weick et al., 2005).

The research-action works by Armenakis et al. (2007, 2002) provide an illustration of the emotional experience. They emphasize the importance of the launching message of transformation. This message communicates the nature of the transformation while inducing some indicative elements (named "feelings") that determine the reactions to change (Armenakis and Harris, 2002: p. 169). The perception through experience shows a dynamic and constructive dimension. More specifically, the authors have five categories of feelings (Armenakis et al. 2007: pp. 276-277):

- The feeling of unconformity (divergence) is the existent perception of a need for change. The unconformity is a gap, a discrepancy, with regards to an acceptable performance. It represents justification for a strategic change. The identification and mobilization process of these cognitive styles, in a project team for example, allows an assessment of the awareness of the need for change (Armenakis et al, 2007: p. 276). The nonperformance of certain important functions for the organization represents an indication of unconformity. Thus, the unconformity imposes provide information to the actors explaining why

such organizational transformation is necessary.

- -The sense of the appropriation is the belief of the actors that a specific organizational transformation effectively resolve unconformity. This belief is necessary so that they support the transformation. This sense means that the proposed transformation is perceived as appropriate for the concerned organizational context. Indeed, the actors can perceive a need for transformation, disapprove of the suggested amendment. Studies highlight importance of confidence in the relevance of the change being implemented. The influence of the reasons given by the manager on the actors reactions is a function of the adequacy or the credibility of the mentioned reason, as well as the sincerity of the manager (Sitkin and Bies, 1993).
- The sense of efficiency is defined as the confidence in the personal and organizational capacities to implement a successful organizational transformation. It is the hope (an effort that will lead to the success of a transformation), the feeling that success is possible, and the hope of achieving the new and necessary skills.
- -The main support is the sense of behavioural integrity. meaning the perception of the correspondence between the words and the acts of the leaders. It is defined by the belief that the actors and their immediate manager support the organizational transformation and are motivated to lead it to success. The main support includes the influence of respected colleagues and the networks of interpersonal relationships in an organization.
- The sense of valence refers to the perception of personal benefits (or losses) which can reasonably be expected after an organizational change. This is a motivating factor that refers to the attractiveness of the (perceived or real) outcome associated with the initiative of an organizational change. Indeed, there is

a link between attitudes toward the work transformations and their expected results. Some extrinsic motivation (for example, financial compensation) can be used to encourage actors to change their behaviour, at least until that the intrinsic value becomes apparent. Thus, a management encouraging the sharing of earnings, for example, provides the extrinsic reward and can be integrated within the change initiatives.

Finally, perception includes the meaning that change represents for leaders and actors, the extent in which they control (information) and the degree of confidence in people that promote the change (Coghlan, 2000). The transformation is evolving on the following continuum: improvement, uncertainty with positive probability, uncertainty with negative probability, threat and destruction. The response of the individual will depend on the assessment of his impact. Confronted with a specific situation, he may deny, dodge, oppose, resist, tolerate, accept or support. Some cognitive bias or aberrations (Sadler-Smith and Shefy, 2004) may then appear in the exchange of views between several actors interacting in a team. These points of view correspond more to an opinion rather than to a real perception of the world.

It is then important to mention the measurement of organizational perception, i.e. the difference between the objective of the change set by management and the perception that the members of the concerned team will have. Therefore, there exists a link between perception, the first phase of organizational transformation and the performance of the project as we seek to illustrate, as this triptych is at the heart of the managers concerns in information systems.

#### Illustration

In order to appreciate all the various elements of theoretical currents on perception, allowing assessing organizational transformation, we put forward a mapping of the perception of the first phase of organizational transformation. The suggested model will

then be illustrated by two case-studies leading to a discussion.

# Proposal of a Perception Model of the First Phase of an Organizational Transformation

Our visualization of facts has a stimulus for a starting point. The phenomenon of perception can be apprehended at two levels:

- (i) the effects of a set of characteristics (situational characteristics of the stimulus and the potential to deal with the situation<sup>1</sup>) on perception (structuring the types of perception - by the senses or by experience);
- (ii) the effects of this perception on the evaluative judgment of actors for a given organizational transformation (corresponding to attitude and intent).

The evaluative judgment (favourable, reserved or opposed) therefore leads to a certain performance, i.e. a certain faculty to implement actions so as to meet the objectives and to continue reporting the results. To create this mapping as a tool for analysis, the indicators created to address these conceptual dimensions are derived from the works that we presented earlier. Schematically, the visualization of the problem is the following (see figure 1).

#### Methodology and Analysis of the Results

To illustrate this approach, going back before the process of transformation, we have chosen to refer to two case-studies to have a critical approach of perceptions,

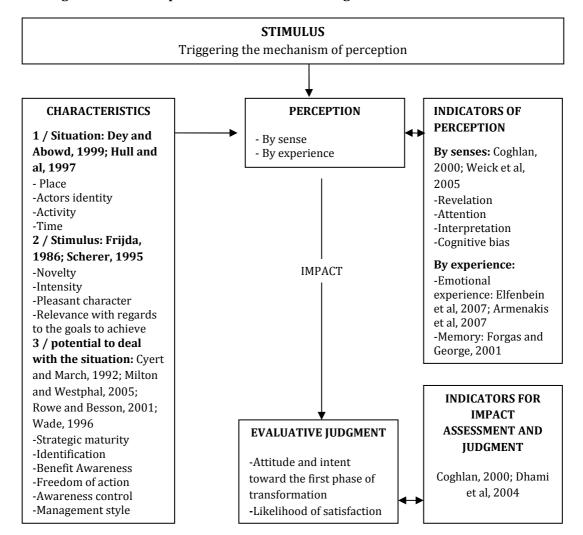
<sup>&</sup>lt;sup>1</sup> Paul Fraisse (1949) points out the obvious effect of attitudes on perceptual data selection. "The very efficiency of our perceptual activity is dependent on an agreement between our attitude and given factors" (p. 239). Thus, according to the author, the perceptual system must be understood as a function of the personality. "The perceptual processes which are responsible for detecting, selecting and controlling information, are an aspect of the control system which may be called personality" (p. 247).

commitments, incidents and resistances of the actors when confronted to the first phase of organizational transformation. The selection of the following case-studies meets several criteria: they are evocative when it comes to information system practices, they are relatively detailed so as to capture all the organizational dimensions and they are able to help us in the understanding of the links between transformation and perception.

- The data from the first case-study of Alpha Company were collected from a semistructured interview guide that led to question the members of a team facing an organizational transformation in information systems (see Appendix 1). Interviews include issues related to the themes presented in the first part, while respecting the logic and the links of the perceptive model of organizational transformation (figure 1). -The data from the second case-study were recovered from Schebath and Mehmanpazir (2005) studies, detailing the transformation process in information systems. The case-studies are presented in table 1. The data were analyzed according to the qualitative method of textual analysis (Huberman and Miles, 1991).

The results are presented in the following characteristics tables: the organizational transformation (table 2), the characteristics of the stimulus that corresponds to the announcement of the first phase of the transformation (table 3). the organizational perception of the first phase of processing (table 4). These tables are organized as follows: the first column sums up the responses provided by the Alpha company actors interviewed on their own ground; the second column gathers the data of the case-study of the CCR foundation (Schebath and Mehmanpazir, 2005).

Figure 1: The Perception of the First Phase of Organizational Transformation



**Table 1: Presentation of Case-studies** 

Project	Description				
Primary o	Primary data collection				
1.	The questioned company that we shall name Alpha <sup>2</sup> is the French subsidiary of an international group specialised in the development of business process management software. It is a ten-year-old company with approximately 200 employees; its commercial object is to perform three major development missions concerning: software, customer support and applied research. The sector in which it lies in is highly competitive.  The project concerns a micro-transformation: a change of department for the team and technology for the project that this team is carrying out.				
Secondar	Secondary data collection				
2.	The C.C.R foundation (Schebath and Mehmanpazir, 2005) is a non-profit making cultural organisation governed by the 1901 Act. Their main mission is to support and conduct cultural events (regional theatrical tours, fund management to support contemporary art, summer animations and the creation of informative catalogues). For some 20 years of existence, it has employed about 30 employees (p. 3).  The project concerns a macro-transformation: establishment of a new organizational structure and the acquisition of new computer resources (servers and computers).				

<sup>&</sup>lt;sup>2</sup> For confidentiality reasons

**Table 2: Characteristics of Organizational Transformation** 

ALPHA COMPANY	THE CCR FOUNDATION		
Situational features of the first phase of the	Situational features of the first phase of the		
transformation (contextual approach)	transformation (contextual approach)		
Place	Place		
The transformation takes place in a small team	The transformation concerns all the employees of		
of a company specialised in the development of	the association.		
business process management software.			
(This project also concerns modules developed in foreign subsidiaries)			
in foreign subsidiaries).  Identity	<i>Identity</i>		
The five respondents are executive managers of	Five people were interviewed by a consulting firm.		
the team, having either a degree or a doctorate.	The selection is representative of the non-profit		
They have a service of 5 years in the company,	organisation (NPO) (the director, the head in		
the same rank, for an average of 40 years of age	information system, a department head, a chargé		
and with different past professional	de mission and a secretary (pp. 11-19)		
experiences.			
Activity	Activity		
The members of the team are responsible for	The employees of the NPO are responsible for the		
the development of innovative projects in	animation of the cultural life of the region by their		
information system such as the creation of integrated software modules.	participation and the organisation of cultural events (p. 3).		
Time of the transaction	Time of the transaction		
The project was limited in time: it was done	The project was limited in time: it was done over a		
over a period of 3 years.	period of one year and a half (p. 11).		
The potential of the actors and their	The potential of the actors and their		
preparation	preparation		
Strategic maturity of actors	Strategic maturity of actors		
The Alpha corporation has a cross	The CCR Foundation is in development. It has a		
organizational structure by projects. Therefore,	The CCR Foundation is in development. It has a unit type organization, organized in 4 autonomous		
organizational structure by projects. Therefore, the activities of the members vary, depending	The CCR Foundation is in development. It has a unit type organization, organized in 4 autonomous departments and a universal IT department. The		
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5 / empowerment of employees, 6 / opportunities for personal development, 7 / evaluation of individual performances as well as the company's, 8 / evaluation of informational process and the evolution assessment of the organizational structure, 9 / innovation, 10 / customer service 11/ understanding of the company's strategy and the business model 12 / balance between work and private life.

#### Organizational benefits

For this transformation, the mobilized resources are mainly human and financial, and to a lesser extent, technical and computer resources. For the human resources department, this is an important issue, due to the fact that the transformation requires a new definition of the staff's tasks and financially, it involves many budget transfers.

#### Freedom of action

This transformation was the intention of the sole hierarchy. It is a collaborative project and it is described as an "improvised" initiative by the members of the team who have a total freedom of action to accomplish it. The actors consider the concept of organizational transformation is primarily an internal change of the organization and the most often cited examples can be grouped into three broad categories: a transformation on a small scale (such as a change of project), on a medium scale (such as a change of department) and on a large scale (such as a change of components, or a change of both department and technology).

#### Conscious control

The manager hardly ever uses emotions in his management. An average score of 5/20 has been attributed to the following question: does your manager use his emotions in his management?

#### Management style

Interviewed employees believe that their manager has a "comprehensive" style of management, is open to others and does not employ specific indicators to measure the satisfaction and climate of the team. Thus, there is no interference with the annual analyses distributed by the parent company for all employees (in form of surveys) which is of crucial importance for them.

#### Organizational benefits

The implementation of the new computer media has benefited from several sources:

-the support of an external consultant specialized in the development of databases, and whose mission was to put in place all the management tools taking into account the necessary data for the various services.

-training courses about certain IT tools for employees (p. 11).

#### Freedom of action

This transformation originated from the will of the managing director supported by the board of directors. This transformation was supervised by a consultant, as far as IT is concerned. The departments were not given any help to coordinate themselves, employees had to use the "D system" (p. 8), that is to say, their own resourcefulness.

#### Conscious control

Nothing is said on the emotions of the manager, but "the actors are left to their entire goodwill, or their organization is strongly linked to their past acquired knowledge" (p. 7).

#### Management style

The management style is very authoritarian. Employees believe that "it is always the management (of the Foundation or of one of its departments) that "holds the reins" and use their power of decision or their authority to manage missions" (p. 8).

**Table 3: Characteristics of the Stimulus** 

ALPHA COMPANY	THE CCR FOUNDATION		
The characteristics of the stimulus	The characteristics of the stimulus		
Novelty  The transformation stimulus simultaneously includes two elements: the change of department for the team and a new technology for the project that they must carry out. If the change of department is easily understood, we have requested more details about the change of technology. It consists of a change in the programming language and of the technological environment (client-server technology, Web).	Novelty  The transformation stimulus includes several elements: the establishment of a new organizational structure (autonomous departments), the acquisition of new IT resources (servers, computers, Ethernet network) and a two day-training course for half of the employees.		
Intensity Although this is a micro-transformation, the actors interviewed regarded it as a major one because it involves, simultaneously for the team, a change of department and the use of new technologies.	Intensity This is a macro-transformation that impacts the entire organization of the foundation. It is a major internal transformation which has upset working relations.		
Pleasant character  The organizational transformation here has been implemented to meet a specific and frequent request: the development and delivery of a new software.	Pleasant character  This transformation was designed to contribute to the development of the foundation, which was meant "to considerably reorient its activities according to the will of their management and the growing expectations from the political and administration actors participating in its financing (p. 8)."		
Relevance to the goals  This type of transformation is common in the company and it corresponds to the company's objectives, who wish to meet its customers' expectations.	Relevance to the goals  This transformation was necessary due to enlargement of the foundation and its new objectives.		

Table 4: Organizational Perception of the First Phase of Transformation

#### ALPHA COMPANY THE CCR FOUNDATION **Perception by senses** Perception by senses Revelation Revelation The announcement of the transformation was The announcement of the transformation was by the manager of the team made by the managing director in agreement with (commissioned by top management) at a the board of directors. All employees were meeting of about 30 minutes. It was by this informed. stimulus that team members were informed of the changes that would affect them. Attention given to this information the day of the Attention given to this information the day of the announcement announcement Actors focused their attention on this focused Actor their attention on this announcement. announcement. *Interpretation* Interpretation The team waited for the hierarchy's directives Nothing was proposed to them and they had no before starting to change the work organization. freedom of action. Nothing was undertaken by Concerning this transformation in particular, them except in case of emergencies, they adopted the actors considered that it was an internal the "system D" (p. 10). "Whether it concerns change, from an organizational origin and close information processing tools or collaborative work to an internal restructuring. More specifically, procedures, nothing is defined, or written." "the from a structural point of view, the actors indications given by the managing director or one regarded it as an evolution, and from an of the department's manager, during the period of operational point of view, as an innovation (or the "system D" approach, may delimit the tasks to regression). However, this transformation will carry out for a mission" (p. 10). only impact a part of the organization.

#### Perception by experience

### Description of feelings toward this transformation

If we refer to the analysis of "feelings", the results show that feelings of discordance and "valence" are, for the team, the most important. Divergence comes from a conscious need for change. The team and their manager are particularly sensitive as to the outcome of the project. Nothing alters their motivation mainly oriented towards success.

Valence corresponds to the perception of personal benefits from the outcome of the organizational transformation. Indeed, it is a creative value at the same time for the company, for the client and especially for the members of the team who hope to get more interesting projects and performance bonuses.

The indicators capable of measuring the perception of this transformation on several periods (in the beginning, mid-term and the day of the meeting) allow us to see that there are very few differences. Thus, for each period, regarding the success of project, it has been estimated at 80%, the visibility of the means made available, at 50%, the visibility of the time allocated, at 100%, the satisfaction they get from this participation, at 80%, informational

### Perception by experience

Description of feelings toward this transformation

If we refer to the analysis of "feelings", the results show that feelings of discordance and "valence" are the most important for the actors. The divergence comes from the conscious need for change. The terms used to describe this feeling vary, depending on the function of the person interviewed. Thus the managing director expresses himself in financial terms. He feels that "a return on investment is not to be expected" and that there was no "improvements in global performance" (p. 11). The head of information systems expresses himself in user's terms. As users do not master technology, he spends "50% of his time" assisting them (p. 13). The head of a department is limiting the uses of office automation and internal messaging (p. 16). The project manager, only uses a few of the computer tools but believes, with his colleagues, that "they need to be trained or be accompanied regularly" (p. 18). Finally, the secretary has "the impression of not knowing how to use the proper software needed" to the work and feels "a need for more training" (p. 19). Valence corresponds to the perception of personal benefits from the (perceived or real) outcome of the organizational transformation. The satisfaction that the actors are

control that they hold, at 70%, the degree of trust granted to the hierarchy, at 20%.	gaining is "very uncertain, according to skills and		
Experience of similar experiments (memory)	availability" (p. 7).		
Although members have already experienced	Experience of similar experiments (memory) The employees questioned had no similar		
similar situations (this can be explained by their	experience		
cross organizational structure by projects), they	experience		
believe that their prior experiences do not interfere in their reactions to this			
transformation and argue that the content of			
their actions are renewed with each new			
project.			
Bias and aberrations	Bias and aberrations		
Actors consider being sensitive to some	Employees are sensitive to information circulation in		
interferences (false rumours, denials,	so much as "the lack of collective spirit regularly		
contradictory announces), and to some	causes tensions due to the inability of exchanging		
constraints in the transmission of the message	and sharing the information needed for a better		
stimulating the organizational transformation.	coordination of each other's interventions" (p. 8).		
They existed since the beginning of the project, to			
an acceptable degree, but this fact does not upset			
them.	n 1 1		
Evaluative judgment	Evaluative judgment		
Evaluation of the transformation project	Evaluation of the transformation project		
Evaluation of the transformation project The project is evaluated with an "uncertain and	Evaluation of the transformation project  The project is evaluated with an " uncertain and		
Evaluation of the transformation project  The project is evaluated with an "uncertain and positive probability".	Evaluation of the transformation project		
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#### Discussion

Our research offers the opportunity to illustrate an aspect of the dynamics of information systems in their organizational environment by shedding some light over existing theories: the contextual approach and current research work on leadership.

Our research reflects the existence of a link (which remains to be generalized in future research), between the first phase of an organizational transformation and how the team members perceive the objective that is assigned to them which leads to some form of performance (Chang et al, 2009). On the whole, the results show that the actors commit themselves more strongly if the project can create some personal and collective value. In such a case, their perception seems to impact the manner in which they are going to invest themselves in the project. Secondly, the results of the two case-studies differ when one considers the leadership of the transformation. In the case of the Alpha company, the leader has a comprehensive behaviour. This leader does not seek to maintain the exercise of his control; he has a receptive attitude and shows a certain "latitude" toward the team's anticipated objective. For their part, the team members accept the project without trying to be withdrawn from it. The team seeks to create favourable conditions for the establishment of a new transformation. Thus, the team members take over the transformation positively and feel more concerned with its achievement. In the case of the CCR foundation, the leader only uses his authority and power, and the processing results are not satisfactory. In comparison, transformation leadership borrows conflicting paths, whose social meanings would require to be analyzed more specifically, to understand the processes involved.

Thus, our results highlight that actors organize their sensations, interpret them and complete them thanks to experiences based on their perception of the transformation. Their perception is therefore as important as the study, the prediction of the performance factors and the risks of the transformation. In the

responses given by the employees of Alpha company, we can find an attitude of resignation initiating a certain "inertia", which annihilates the actors resistance to change. The fact of being used to changes usually weakens the reaction of the team to new projects but, indirectly, influences more strongly the perception they have of their company in general. This habit originates from the cross organizational structure of this company. The transversal aspect (and with it the frequency of the projects and therefore the constitutions and reconstructions of teams) somehow diminishes the reluctance. They are then replaced by the spirit of overachievement, and by a stimulation linked to a challenge to take up. On the contrary, in the case of the CCR foundation, when these elements are missing and the probabilistic ratio is low, the project is a failure. More generally, these observations may be moderated by influences from minority or majority groups of actors. These influences exist within any company, they originate from different representations of reality and differ in their development, underlying conflicts and their action.

Finally, the theoretical contributions on the evaluative judgment (Coghlan, highlight regular situations deviations that create corrective actions are aimed at achieving a certain organizational performance. It is significant to note that the nomenclature of "cognitive assessment" tends to induce a false dichotomy (controlled automatic/registration of the stimulus) where the term "cognitive" suggests that the assessment is verbal, conscious, deliberate, logical and slow (Ellsworth and Scherer, 2003). However, the results of our research show that evaluations, even controlled, can be made very quickly by experienced actors who are able to assess events with the greatest judiciousness in the first phase of a transformation. Thus, if their choices are appropriate, the result of the transformation process can be achieved with some degree of success.

The interest of our model (the assessment of the perception as seen through the eyes of the actors) to organizational

transformation is then double. Firstly, this approach allows to improve the integration of the various organizational processes and to capitalise experiences. Secondly, it can be a key-element of the decision-making process, when it comes to making the decision with to continue transformation or not. Indeed, this model implies that the transformation and involves perception process anticipation and adaptation processes that refer to the concept of perceptual experience. Actors use the information stored (Forgas and George, 2001) to reduce some of the uncertainty. Similarly, intuitive knowledge and immediate understanding (Simon 1989: p. 63) play an important role in the development of a proactive vision.

#### Conclusion

Our research underlined several objectives: firstly, the development of a model to understand the perception of the first phase of organizational transformation better; secondly, implementation of a protocol to highlight the major steps that lead to the evaluative judgment of the project; and thirdly a search for the existence of a link between the expression of the team's perception and the success of the project, from which a certain performance of the transformation derives. Built on the concept of transformation and the psycho-cognitive approach perception, this research demonstrates the need to articulate these two theoretical approaches in a structure describing the management of information systems projects. The illustrative results of our investigation lead to several conclusions. We have shown that the first phase of transformation can be grasped through a collective perception model which allows to take the intentions of the actors into consideration. Once the model is detailed, it may become a significant element of action research projects conducted in information systems. However, at a time when researchers pay more and more attention the "black box" effects transformational leadership (Kirkman et al, 2009, Gong et al., 2009), the cultural influences that affect leadership and other phenomena of organizational behaviour remain to be explored.

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#### Appendix 1:

The interview questions (Note: the explanations and/or relationships with key concepts are presented in a smaller fount and italics)

#### **Contextual Questions**

1. Can you present your business?

(Framework = describe the business, number of employees...)

2. What can you say about its evolution and its important strategies?

(The context (=situational characteristics): situation of the company in its group, with its competitors, and type of strategy)

- 3. What can you say about yourself?
- = (Individual characteristic of the actors), CV of the interviewees, situation in the business, rank, position, seniority... (attitude, type of personality...)
- 4. Can you describe Project X:

(The subject = the stimulus; the stimulus characteristics = characteristics of transformation)

#### **Characteristics of the Transformation**

- 5. Could the project you are currently working on, be regarded as an organizational transformation?
- (Yes, no, partially)
- 6. First of all and in a general manner, what is your point of view concerning organizational transformations?
- 7. More specifically and in a general manner, organizational transformation makes you think of (the closest synonym):
- an organizational change, a reengineering of management, structuring-restructuring, a metamorphosis, a second-order change

- Please categorize these proposals (from the nearest = 1 to the remotest = 5)
- 8. How would you define, in a general manner, the idea of "an organizational transformation"?
- 9. More specifically, (regarding this project in particular) how would you define this transformation?
- from a structural point of view, do you consider it as... an innovation, a mutation, an evolution?
- 10. Specifically, (regarding this project in particular) how would you define this transformation?
- from the operational point of view do you consider it rather as... an innovation, a mutation, an evolution?
- 11. What are, for this project, the mobilized resources?
- in terms of human resources.
- in terms of technical and IT resources
- in terms of financial resources
- 12. Would you say that this project impacts all or a part of the organization?

(Evaluation of the magnitude of the transformation = from a description - systemic or incremental)

- 13. Between these proposals, you would say that this project rather originates from:
- The sole initiative of the hierarchy; a consensus between the hierarchy and managers; an individual project; a collaborative project; a spontaneous initiative; a well thought out initiative; an improvised initiative....

(Evaluation of the intensity of the transformation (of the project) = from a description - reactive, proactive, passive - spontaneous, collaborative or dictatorial.)

Evaluation of the model: with a historical description - research of the origin of the improvisation / formalization stimulus)

- 14. In a general manner, what is your "management style"?
- 15. Do you involve your emotions in your management?

(If so, what importance do you grant them? How would you evaluate this importance, giving it a score from 0 (no importance) to 20 (extreme importance)?

- 16. What are your indicators to assess the satisfaction of your team members?
- 17. What are your indicators to assess the climate in your team?
- 18. What are the incentives that you use most to motivate your team?
- 19. And on the other hand, what are the disciplinary actions that you use the most?

(Latitude = flexibility of a leader and use of his power)

### The Perception:

		At the beginning	2weeks/1month	Today
20.	What % of success have you assigned to the project?			
21.	What % of visibility have you assigned to the project concerning means / resources provided?			
22.	What % of visibility you have attributed to the project concerning the time allotted?			
23.	In 4 or 5 key-words can you define what the project represents for you?			
24.	What degree of confidence do you have in your hierarchy? (answer on a scale from 1 to 5)			
25.	Did you think you had full control (precisely information control) of the project? (answer on a scale from 1 to 5)			
26.	Are you happy to participate in this project? (answer on a scale from 1 to 5)			
27. Enhancing,	How do you evaluate the project? Uncertain, Threatening, Destructive			
- op - tol - suj	With regards to the project, what is your point of view? Would say that you: ny it? - dodge it? pose it? - resist it? erate it? - accept it? pport it? - embrace it?			
_	scribe what your feelings are, this project?			

- 29. How were you informed of the transformation? *(revelation)*
- 30. How was it presented to you? *(revelation)*
- 31. What degree of attention did you grant this information, on the day you got the information? (degree of attention)

(It was just an information among others, we kept on thinking about it all day..., we talked about it with colleagues, we went to talk about it with the hierarchy)

32. How did you interpret this information? (interpretation)

Did you take any immediate initiatives? Did you plan ahead for some future actions..?

33. Had you ever experienced a similar situation?

If so, did it have an influence on your behaviour? (Yes, no, partially) (Memory = is the short-term use of "meaning" for an immediate decision-making process, or the conservation of "meaning" in the long run

#### **Bias and Aberrations:**

- 34. Were there any...
- False rumours?
- Denials
- Rumours
- Support / Information / Communication)
- Conflicting announcements
- 35. Did the events listed above affect your vision of the project?

#### **Results**

36. What do you think of the outcome of the project?