



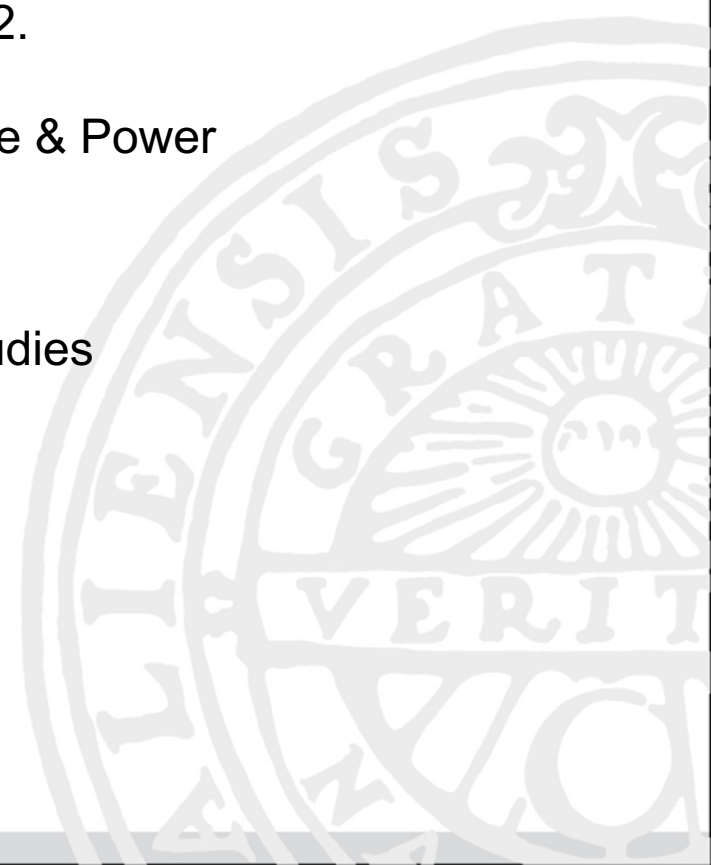
UPPSALA
UNIVERSITET

Doctoral Course Management, Organisation, ICT.

Meeting 5, June 9, 2022.

Digital Transformation/ Change & Power

Jan Lindvall
Department of Business Studies
Uppsala university



Agenda, approx.

10.15 – 11 Overview

11-12 Small group discussion: Power in organisations

13 - Presentations

Digital Transformation/ changes

"The lessons we've learned from studying thousands of companies over our careers is that while technology creates options, success depends on how people take advantage of these options. The success of a venture rarely turns on how much technology it can access, but on **how its people use that technology**, and on what values they imbue in the organisation."

McAfee & Brynjolfsson (2017, p 330) in *Machine, Platform, Crowd. Harnessing our Digital Future*.



Research Article

Voluntary use of information technology: an analysis and synthesis of the literature

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Abstract

Voluntariness is recognized as an important influence on individual and collective technology acceptance. We conducted a comprehensive review of this literature and identified a rich set of voluntariness concepts and methods of operationalization. However, while considerable empirical evidence is reported in the literature, our review also revealed inconsistent results concerning the relationship between voluntariness and other concepts. Against that backdrop, we synthesized the literature into three types of voluntariness – perceived, intended and realizable voluntariness (RVOL), and showed how prior literature had not adequately accounted for RVOL. Moreover, we examined the multiple mechanisms that influence voluntariness and created a model to describe how to advance new knowledge about the important relationships among the three types of voluntariness and between voluntariness and user behavior. We argue that these concepts and relationships may help advance our knowledge of how a new technology is used individually and collectively in organizations.

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Keywords: voluntariness; technology acceptance; technology use; choice; freedom; psychological reactance

Introduction

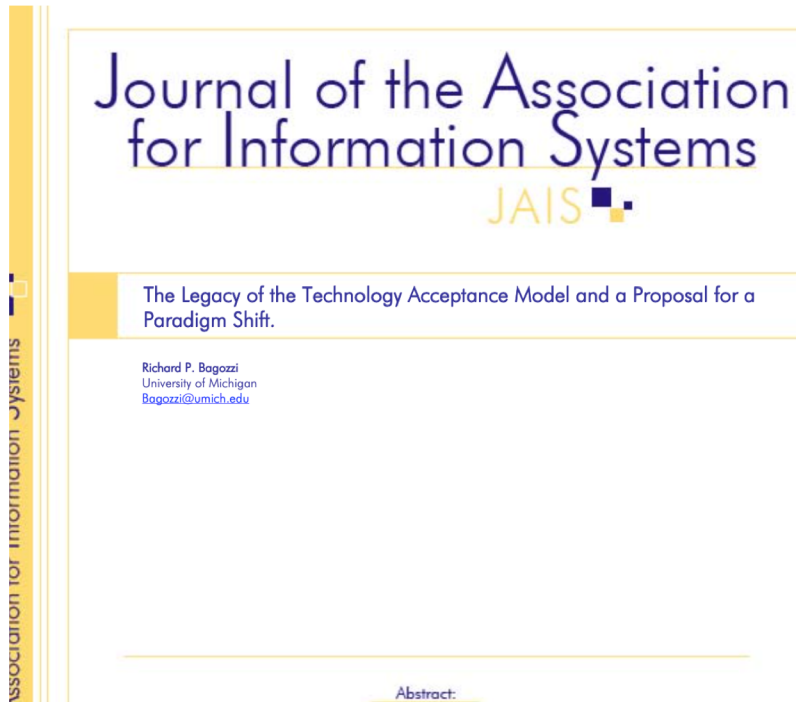
Voluntary use

Table 1 Key features of two major conceptualizations of voluntariness

	Conceptualization	
	Voluntariness as cognition	Voluntariness as an attribute of the environment
Definition	Voluntariness is an individual's perception of 'the degree to which use of the innovation is perceived as being voluntary' (Moore and Benbasat, 1991: 195)	Voluntariness is 'a context-dependent freedom in adopting an information system ... that stems from a physical context, and is independent of personal biases and points of view' (Wu and Lederer, 2009: 421)
Theoretical Foundation	<ul style="list-style-type: none"> • Theory of Planned Behavior (Ajzen, 1985) • Kelman's (1958) internalization 	<ul style="list-style-type: none"> • Kelman's (1958) compliance
Operationalization	<ul style="list-style-type: none"> • PVOL scale: <ul style="list-style-type: none"> ◦ PVOL1: My superiors expect me to use the system. ◦ PVOL2: My use of the system is voluntary (as opposed to required by my superiors or job description). ◦ PVOL3*: My boss does not require me to use the system. ◦ PVOL4*: Although it might be helpful, using the system is certainly not compulsory in my job.* short form 	<ul style="list-style-type: none"> • Measured with a question (Hartwick and Barki, 1994) • Judged by researchers (Igbaria et al., 1997; Lee et al., 2006) • Confirmed with the PVOL scale (Venkatesh and Davis, 2000) • EBVOL scale (Wu and Lederer, 2009) <ul style="list-style-type: none"> ◦ EBVOL1: The survey participants' superiors/professors expect them to use the system. ◦ EBVOL2: The survey participants' use of the system is voluntary (as opposed to being required by their superiors/professors or job/program description). ◦ EBVOL3: The survey participants' boss/professor does not require them to use the system. ◦ EBVOL4: Although it might be helpful, using the system is certainly not compulsory in the survey participants' job/program.
Influence and Example	Predictor of: <ul style="list-style-type: none"> • PCIs (Moore, 1989) • Current use (Agarwal and Prasad, 1997) • Intention to adopt (Plouffe et al., 2001) • PBC (Benham and Raymond, 1996) • Infusion (Hester, 2010) 	Predictor of: <ul style="list-style-type: none"> • Relative advantage (Speier and Venkatesh, 2002) Moderator in: <ul style="list-style-type: none"> • TAM (Wu and Lederer, 2009; Ramayah, 2010) • SN-usage intention (Venkatesh et al., 2003) • SN-utilization (Staples and Seddon, 2004)



Technology Acceptance Model



- TAM has stood the test of time by being the leading model for nearly two decades and earning many commentaries and the focus of this special journal issue. In sum, the importance and impact of TAM are impressive.
- The main strength of TAM is its parsimony: intentions to use a technology influence usage behavior, and perceived usefulness (PU) and perceived ease of use (PEU) determine intentions to use.



User response to mandatory IT use: a coping theory perspective

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ABSTRACT

The introduction of a new information technology (IT) into a workplace often engenders a wide range of responses among users. These responses encompass a variety of emotions, such as excitement, indifference, skepticism, and fear, and behaviors, such as user engagement, avoidance, and workarounds, that are often manifested concurrently in the same work environment. We present a taxonomy of these responses in the context of mandated IT use by classifying user responses as engaged, compliant, reluctant, or deviant. Using a coping theoretic lens, we offer seven propositions to describe the causal factors and processes that drive specific IT user responses and how such responses might change over time. A qualitative analysis of 47 interviews of 42 physicians at a large community hospital over an 8-year period provides support for our taxonomy and propositions. The study's key contributions are that it conceptualizes different types of user responses that may emerge in mandatory IT use settings, elaborates the key drivers of and processes underlying these diverse responses, and suggests how those behaviors may change over time with changes in the coping process.

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KEYWORDS

IT use; user responses;
resistance; coping theory;
healthcare IT

Mandatory use

Table 1. A taxonomy of user responses.

User response	Emotional response	Behavioral response	Similar categories from prior research
Engaged	Passionate and/or enthusiastic about IT use Wanting to discover new features about IT A sense of ownership of the IT	Uses IT beyond required use (e.g., remote login from home) Experiments with IT Modifies work procedures to optimize the use of IT and/or modifies IT to optimize work No customization of IT	Emergent use (Saga & Zmud, 1994) Innovative use (Li et al., 2013) Trying to innovate using IT (Ahuja & Thatcher, 2005)
Compliant	Generally positive about IT, but views IT use as less rewarding IT seen as a necessity and nothing more	IT use is purposeful but mechanistic Little or no innovation No customization of IT	Standardized use (Saga & Zmud, 1994) Routine use (Li et al., 2013)
Reluctant	Fear of or reservations about IT IT seen as a distraction from work Low expectations of IT	Uses IT only to 'meet quotas' or comply with mandates Occasional disengagement from IT use and training Tendency to fall back to old ways of work	Passive resistance (Lapointe & Beaudry, 2014) Resigned use (Lapointe & Beaudry, 2014)
Deviant	IT believed to be an affront/challenge to work and autonomy Desire to disown IT	IT nonuse or use of 'proxies' Use of workarounds Voices opposition to IT Dissuades IT use among peers Employs delaying tactics Undermines or sabotages IT implementation	Active/aggressive resistance (Lapointe & Beaudry, 2014)

The Model – how to cope

EUROPEAN JOURNAL OF INFORMATION SYSTEMS 401

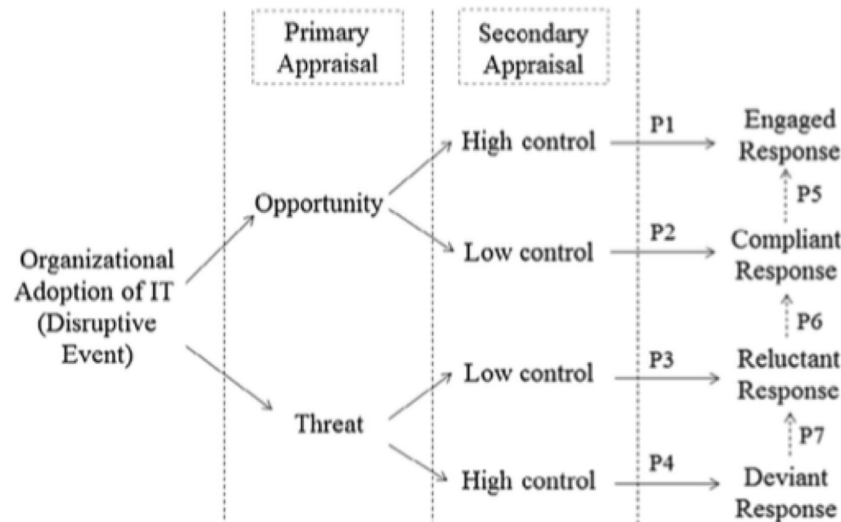


Figure 1. Coping responses to mandated IT use.

Adapted from Beaudry & Pinsonneault, 2005; Lazarus & Folkman, 1984.

whereby users cannot fully exploit the IT threat appraisal.

A Tripple Take – System Implementation

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A Triple Take on Information System Implementation

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While researchers have used a variety of models to explain information system (IS) implementation outcomes, few have analyzed the same project or set of projects with different models looking for complementary explanations. Recognizing the multilevel nature of IS implementation, our study rises to this challenge by conducting an alternate template analysis of three cases of IS implementation in hospitals. First, we explain individual use, group resistance, and organizational adoption with models situated at the same level of analysis as each outcome. At the individual level, we use a model of cognitive absorption to explain individual system usage. At the group level, the political variant of interaction theory is used to explain group resistance to IS implementation. At the organizational level, we use organizational configurations to explain IS adoption in terms of emergence and routinization. We identify each model's limits and prediction failures, and we show that using alternate models helps to remedy a model's prediction failures and overcome its limits. Finally, we propose an alternate-template theory of IS implementation outcomes that takes into account all three levels of analysis, their respective outcomes, and the time dimension. This multilevel, longitudinal theory provides a better understanding of IS implementation and further elucidates what may initially have seemed to be contradictory results.

Key words: information systems implementation; implementation outcomes; cognitive absorption; perceived usefulness; perceived ease of use; interaction theory; organizational configurations; individual use; group resistance; organizational adoption

Lapointe and Rivard: *Triple Take on Information System Implementation*
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90

Table 1 The Alternate Templates

Model	CA	PVIT	OC
Depiction			
Theory	Cognitive absorption is a determinant of perceived usefulness and perceived ease of use, which influence behavioral intentions.	When a system implies a loss of power from a group of actors, this group will resist implementation.	Design parameters, which characterize an organizational configuration, will influence organizational IS adoption.
Unit of analysis	Individual	Group	Organization
Key concepts	Cognitive absorption, ease of use, usefulness, intention	Power, interests, tactics	Design parameters
Dependent variable	Intention to use as a proxy for use	Group-level resistance to implementation	Adoption of innovations in terms of emergence and routinization
Questions	Why do individuals use an information system?	Why do groups of actors engage in resistance behaviors toward a system?	What explains the propensity of an organization to experience emergence and routinization with respect to an information system?
General propositions	Ease of use and usefulness will influence individual use.	When the actors in power resist, the system will not be adopted.	Most design parameters of a professional bureaucracy favor the emergence of innovations but hinder their routinization.

Hospital – Professional Bureaucracy

92

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Table 2 Elements of the Professional Bureaucracy and Their Relationships with the Emergence and Adoption of Innovations

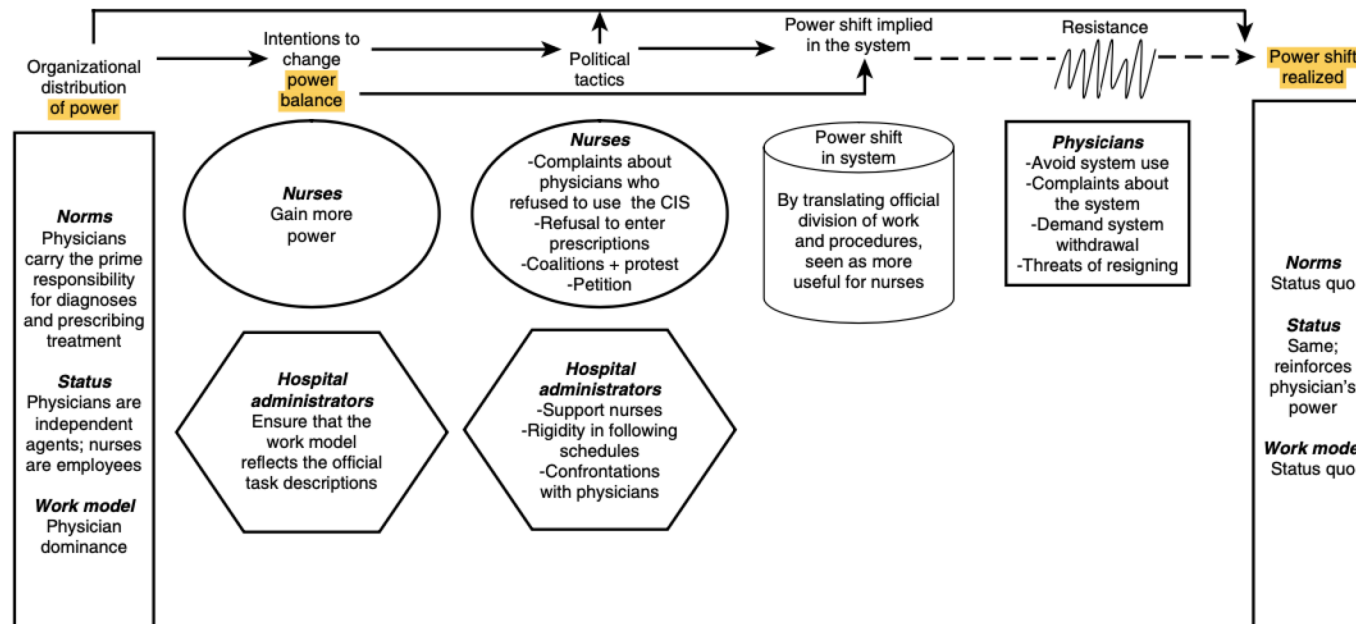
Design parameters	Definition	Professional bureaucracy	Inferred relationship with emergence and/or adoption
Specialization of jobs	Horizontal: division of labor Vertical: degree of separation between performing work and managing it	High horizontal specialization Low vertical specialization	Facilitates emergence (Kimberly and Evanisko 1981, Moch 1976, Aiken and Hage 1971); hinders adoption (Damanpour 1991)
Training and indoctrination	Means of knowledge and skill standardization; usually takes place outside the organization, prior to entering the organization	High training and indoctrination	Facilitates emergence (Pierce and Delbecq 1977); hinders adoption (Damanpour 1991)
Formalization of behavior; bureaucratic/organic	Standardization of work processes through rules, procedures, etc.	Little formalization; bureaucratic	Facilitates emergence (Aiken and Hage 1971, Pierce and Delbecq 1977); hinders adoption (Zaltman et al. 1973)
Grouping	Base by which direct supervision is most affected	Functional grouping by means and by ends	Facilitates emergence and hinders adoption (Baldrige and Burnham 1975)
Unit size	Number of positions or sub-units that are grouped into a single unit	Wide at bottom, narrow elsewhere	No prior study
Planning and control systems	System by which outputs are standardized in the organization	Little planning or control	Hinders adoption (Daft and Becker 1978, Damanpour 1987)
Liaison devices	Means used to encourage mutual adjustment across units	Some liaison devices in administration	Hinders adoption (Aiken and Hage 1971, Ross 1974)
Decentralization	The extent to which power over decision making is dispersed among organizational members	Horizontal and vertical decentralization	Facilitates adoption (Thompson 1965)

Markus's political variant of interaction theory (**PVIT**) (Markus 1983), which is considered a classic in the study of IS in organizations (Lee et al. 2000).

96

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Figure 1 Analyzing Case 1 Using PVIT

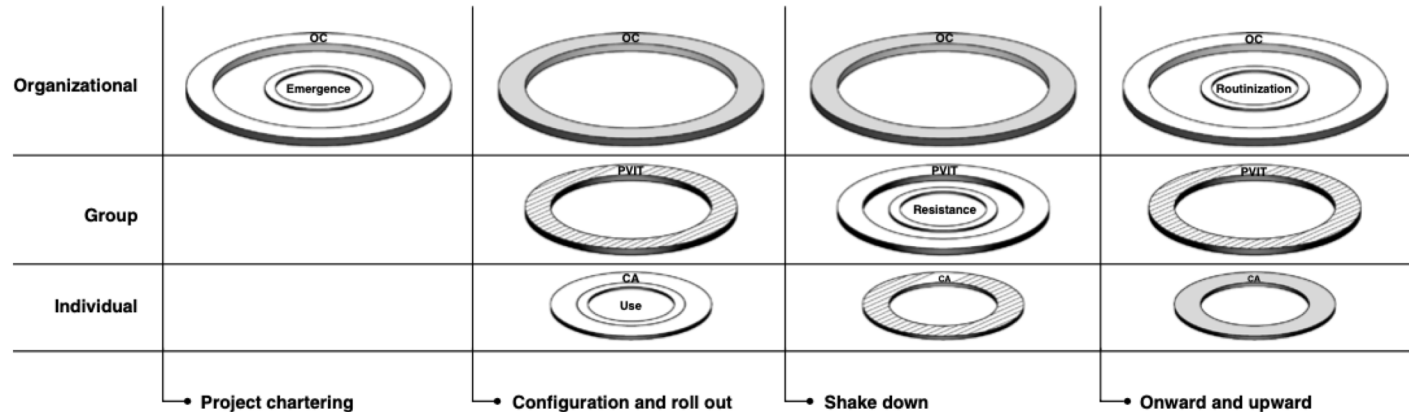


Result: Alternative

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103

Figure 4 An Alternate-Template Theory of IS Implementation



Change/Transformation: Affordance

MIS
Quarterly

SPECIAL ISSUE: CRITICAL REALISM IN IS RESEARCH

CRITICAL REALISM AND AFFORDANCES: THEORIZING IT-ASSOCIATED ORGANIZATIONAL CHANGE PROCESSES¹

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Convincing arguments for using critical realism as an underpinning for theories of IT-associated organizational change have appeared in the Information Systems literature. A central task in developing such theories is to uncover the generative mechanisms by which IT is implicated in organizational change processes, but to do so, we must explain how critical realism's concept of generative mechanisms applies in an IS context. Similarly, convincing arguments have been made for using Gibson's (1986) affordance theory from ecological psychology for developing theories of IT-associated organizational change, but this effort has been hampered due to insufficient attention to the ontological status of affordances. In this paper, we argue that affordances are the generative mechanisms we need to specify and explain how affordances are a specific type of generative mechanism. We use the core principles of critical realism to argue how affordances arise in the real domain from the relation between the complex assemblages of organizations and of IT artifacts, how affordances are actualized over time by organizational actors, and how these actualizations lead to the various effects we observe in the empirical domain. After presenting these arguments, we reanalyze two published cases in the literature, those of ACRO and Autoworks, to illustrate how affordance-based theories informed by critical realism enhance our ability to explain IT-associated organizational change. These examples show how researchers using this approach should proceed, and how managers can use these ideas to diagnose and address IT implementation problems.

Keywords: Affordance, critical realism, generative mechanism, organizational change, case study

Affordance & Generative Mechanisms (Volkoff & Strong, 2013)

”Recent IS literature has described affordances as emerging from the **relation between IT systems and organization systems** (Zammuto et al. 2007), and defined them as “**the possibilities** for goal-oriented action afforded to **specified user groups by technical objects**”

Affordance as Generative Mechanisms: In a Situated Practice!

”Thus, researchers seeking to **identify affordances** need to uncover the **immediate concrete outcomes** the actors experienced or expected to experience. Through observation and/or interviews **with questions such as** “what did the technology enable you to do,” “what did it make it more difficult to do,” “what did you use the technology for,” “what happened once you started to use the technology,” or “were there things you expected to be able to do that were not in fact possible,” **the actual events that allow for retroduction back to the affordances can be uncovered.**”

"Potential" not deterministic or voluntaristic.

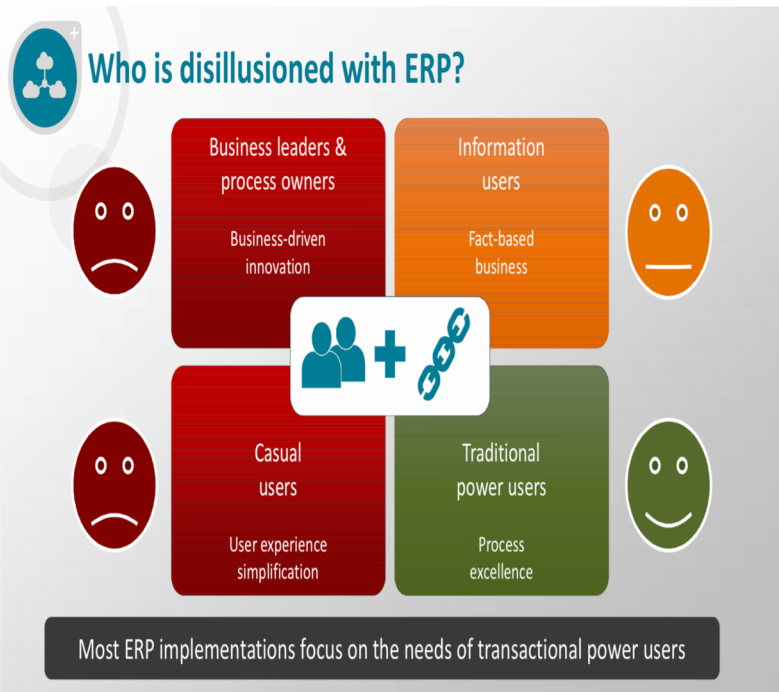
"..we define affordances as **the potential** for behaviors associated with achieving an immediate concrete outcome and arising from the relation between an object (e.g., an IT artifact) and a goal-oriented actor or actors."

...on we have highlighted four aspects of affordances:

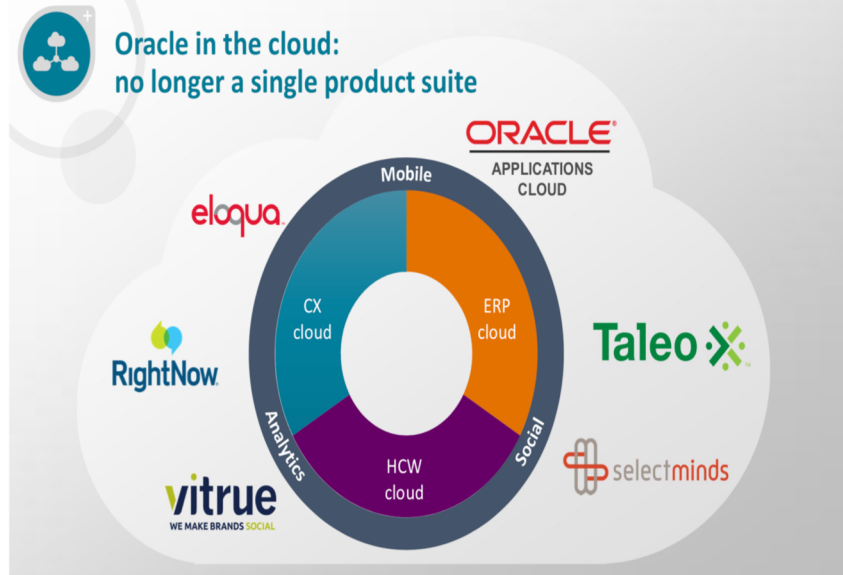
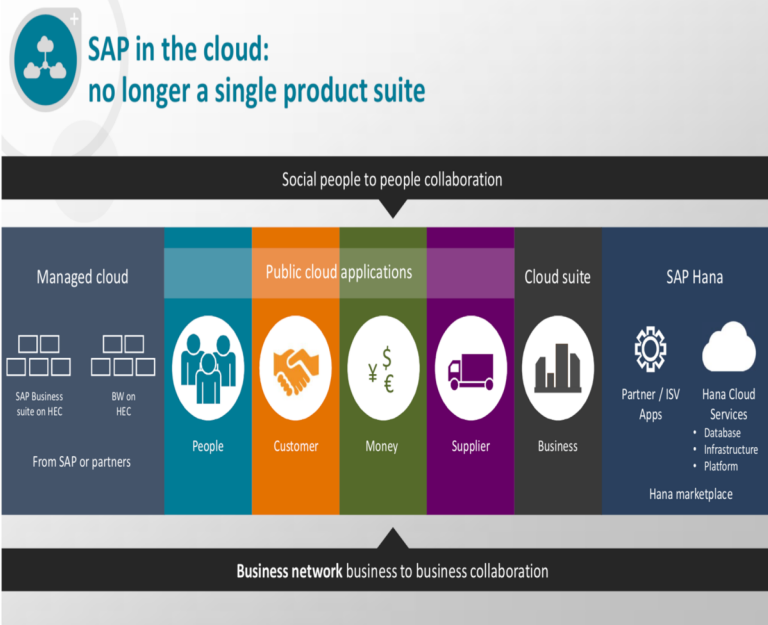
- the **potential for action** rather than the action itself,
- their **relational** aspect,
- their **connection** to an immediate concrete outcome resulting from goal-directed behaviours,
- their **application** at multiple levels.

One example: The "Backbone"

ERP: Transaction system



Not single and closed. "Open" and in "The Cloud"!



ERP/ES: Many stakeholders – different intentions/expectations – **different power bases**

- Success viewed in **technical terms**.
- Success viewed in **economic, financial or strategic** business terms.
- Success viewed in terms of the **smooth running** of business operations.
- Success as **viewed by** the ERP-adopting organization's managers and/or employees.
- Success as **viewed by** the ERP-adopting organization's customers, suppliers, and investors.

Markus, et al, 2000, Learning from Adopters

ERP – projects: Three different phases

Markus, et al, 2000

- (1) the **project phase** during which ERP software is configured and rolled out to the organization,
- (2) the **shakedown phase** during which the company makes the transition from 'go live' to 'normal operations'
- (3) the **onward and upward phase** during which the company captures the majority of business benefits (if any) from the ERP system and plans the next steps for technology implementation and business improvement.

1. Success in **Project Phase**

Project **cost** relative to budget.

Project completion **time** relative to schedule.

Completed and installed system **functionality** relative to original project scope.

1.1 Problems in Project Phase

Project phase problems

The most challenging project phase problems reported by our respondents involved software modifications, system integration, product and implementation consultants and turnover of project personnel.

2. Success in the **shakedown phase**

- **Short-term changes** occurring after system 'go- live' in key business performance indicators such as operating labour costs.
- **Length of time** before **key performance indicators** achieve 'normal' or expected levels.
- **Short-term impacts** on the organization's adopters, suppliers and customers such as average time on hold when placing a telephone order.

2.1 Problems in Shakedown phase

Shakedown phase problems

As mentioned earlier during the discussion on 'success', many of our companies experienced negative outcomes during the shakedown phase. Among the outcomes experienced were the following.

- (1) Performance problems with the ERP system (and underlying IT infrastructure).
- (2) A slow down in business processes.
- (3) Errors made by users entering data into the system.
- (4) Increased staffing required to cope with slow downs and errors.
- (5) A drop in the company's key performance indicators.
- (6) Negative impacts on customers and suppliers from an inability to answer their queries and from delayed shipments and payments.
- (7) A need for manual procedures for addressing lack of functionality in ERP software.
- (8) Data quality problems.
- (9) Inadequate management reporting.

3. Success in the **onward and upward phase**

- **Achievement of business results** expected for the ERP project, such as reduced IT operating costs and reduced inventory carrying costs.
- **Ongoing improvements** in business results after the expected results have been achieved.
- **Ease in adopting new ERP releases**, other new ITs, improved business practices, improved decision making, etc., after the ERP system has achieved stable operations.

3.1 **Problems** in Onward and upward phase

- Unknown business results
- Disappointing business results
- Fragile human capital
- Migration phase problems

What to do? How to reduce/solve? Problems?

In some cases, onward and upward phase problems could have been avoided by taking action during the project phase:

- (1) Doing a much better job of end-user training during the project phase.
- (2) Starting the project phase with plans for long-term maintenance and migration.
- (3) Documenting the reasons for configuration decisions, not just the parameters, so that people not involved in the project phase can get up to speed quickly.
- (4) Not disbanding the project team when the project goes live, but instead staffing a competence centre for managing future evolution and learning.



Organizational Challenges

organizational challenges that threaten ERP success. Among such challenges are the following, which were observed in several of our study companies.

- (1) **Lack of results orientation** in the business is a key factor in failure to achieve business results. This is not something that an ERP project team can fix.
- (2) **A culture resistant to change** is another big impediment to ERP success. Project teams can design and execute change management programmes, but senior executives must work to make these efforts a success.
- (3) **When top managers do not buy in to the goals and plans of the ERP project team, the chances for success are weak.** Good project managers can contribute to buy-in by good and frequent communication, but again success requires a concerted effort at the top, before and during the project.

Power & Influence

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Power in Management and Organization Science

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Abstract

This paper reviews and evaluates the concept of power in management and organization science. In order to organize the extant literature on this topic, we develop a framework that identifies four faces of power (i.e. coercion, manipulation, domination, and subjectification) and four sites of power (i.e. power enacted “in”, “through”, “over”, and “against” organizations). This allows us to evaluate assumptions both shared and contested in the field. Building on the review, the paper then points to potentially novel areas of research that may extend our understandings of organizational power in management and organization science.

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Four Faces of Power

” The first two faces of power—*coercion and manipulation*—can be considered **episodic modes** of influence because they rely upon identifiable acts that shape the behavior of others. *Domination and subjectification* are faces of power that can be considered **systemic** because they mobilize institutional, ideological, and discursive resources to influence organizational activity. As such they are often less visible than overt and explicit acts of power.”



Faces of Power

Table 1 Faces of Power

Focus	Faces of power	Description	Theoretical roots	Core mechanisms	Representative studies
Episodic	Coercion	Direct mobilization of power	Dahl (1957)	Formal position Personality Ability to reduce uncertainty Possession of valuable resources	Weber (1947) House (1968) Crozier (1964) Pfeffer and Salanick (1974)
	Manipulation	Attempts to ensure action and discussion occurs within accepted boundaries	Bachrach and Baratz (1963)	Manipulation of rules Shaping anticipated results Network positioning	Salznick (1949) Gouldner (1970) Burt (1995)
Systemic	Domination	Attempts to make relations of power appear inevitable and natural	Lukes (1974)	Mobilization of bias Articulating ideology Manufacturing consent Conformity with institutions	Alexander (1979) Alvesson (1987) Burawoy (1979) Fligstein (1987)
	Subjectification	Attempts to shape sense of self, experiences, and emotions	Foucault (1977)	Disciplinary regimes Construction of identities Articulation of discourse Governmentality	Townley (1993) Du Gay (1996) Maguire, Lawrence, and Hardy (2004) Holmqvist and Maravalias (2011)



Power: In, Over, Through, Against

Table 2 Intersecting Faces and Sites of Organizational Politics

Faces of power	Politics in organizations	Politics over organizations	Politics through organizations	Politics against organizations
<i>Coercion</i>	Formal authority (Weber, 1947) Bases of power (French & Raven, 1959) Control of sources of uncertainty (Crozier, 1964) Control over valuable resources (Pfeffer & Salanick, 1974)	CEO control over scarce resources (Hambrick, 1981)	Control over resources need by stakeholders (Elg & Johansson, 1997) Organization use of resources to fend off unwanted environmental pressure (Lamburg & Pajunen, 2005)	Social movements mobilize valuable resources to pressure change in firms (McCarthy & Zald, 1977) Undermining existing resource flows (Hiatt, Sine, & Tolbert, 2009)
<i>Manipulation</i>	Position in social networks (Hackman, 1985) Impression management (Maitlis, 2004) Use of storytelling (Humphreys & Brown, 2002)	Use of informal social ties (Allen & Panian, 1982) Informal social manipulation (Westphal, 1998) Sense-making and symbolism (Clark, 2004) Enrolling external agents (Maguire et al., 2004)	Selective information provision (Aplin & Hegarty, 1980) Use of elite networks (Siegel, 2007) Establishing operating principles in new fields (Santos & Eisenhardt, 2009)	Manipulation of political climate (Böhm et al., 2008) Careful management of media image of firm (Carty, 2002) Creation of links with formal institutions (Palazzo & Richter, 2005)



Power: In, Over, Through, Against

<i>Domination</i>	<p>Hegemony (Benschop & Doorewaard, 1998)</p> <p>Use of indeterminacy and autonomy (Sewell, 1998)</p> <p>Depoliticization (Contu & Willmott, 2003)</p> <p>Creating a sense of inevitability (Knights & McCabe, 1997)</p> <p>Incorporation (Guest & King, 2004)</p>	<p>Representation of external forces as immutable pressure (Morgan & Sturdy, 2000)</p> <p>Control by external resources (Pfeffer, 2003)</p> <p>Control by state agencies (Yoo & Less, 2009)</p> <p>Financialization (Davis, 2009)</p> <p>Shaping ideological climate (Vaara & Tienari, 2011)</p>	<p>Elites shaping interests of other actors (Barley, 2010)</p> <p>Shaping lawmaking and regulatory processes (Kerr & Robinson, 2012)</p> <p>Capturing civil society (Levy & Egan, 2003)</p> <p>Fostering strategic ambiguity (Davenport & Leitch, 2005)</p>	<p>Articulation of new ideologies to change industries (Van Bommel & Spicer, 2011)</p> <p>Social movements creating new organizational forms (Hensman, 2003)</p>
<i>Subjectification</i>	<p>Aligning self with the organization (Knights & McCabe, 1998)</p> <p>Articulation of discourses that shape identity (Townley, 1993)</p> <p>Disciplinary mechanisms (Thornborrow & Brown, 2009)</p>	<p>Propagation of new discourses (Spicer & Sewell, 2010)</p> <p>Development of new disciplinary technologies (Oakes, Townley, & Cooper, 1998)</p> <p>Shaping practices of sense-making (Clark & Geppert, 2011)</p>	<p>Constructing novel social identities (Hardy & Phillips, 1999)</p> <p>Development of new legal categories (Benjamin & Goclaw, 2005)</p> <p>Construction of new professional identities (Suddaby & Greenwood, 2005)</p>	<p>Rise of autonomous work settings (Adler, 2001)</p> <p>Resubjectification of organization (Sutherland, Bohm, & Land, in press)</p> <p>Tempered radicalism (Meyerson & Scully, 1995)</p>

A "meta- summary" of some themes

- Digital Transformation/changes. Business models, Value systems, Processes.
- Different cognitions – cognitive views/mindset acceptance vs resistance?
- Different analytical levels: individual, group, organisation? Linkages?
- Different focus – voluntary use vs mandatory use?
- Different time periods. Variance vs Process (Mohr, 1982).
- Affordance!