

## Zoom sur les systèmes et les technologies de l'information...

### Quelques modèles mentaux de management et aides à la décision...



IBM France 1967-1995  
1992-95 Directeur R&D IBM Conseil

Depuis 1995: Consultant  
Veille stratégique et organisationnelle  
Enseignant à

**Dauphine MIB, MBC, MCT,**

**HEC/MBA & eMBA**, ESCP, Collège de l'X, , MBA Varsovie, ....  
*Business models, Marketing planning, IT Governance, OM, Consulting,...*

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Zoom sur les systèmes et les technologies de l'information...

On parlera ici des impacts  
sur l'entreprise et le management

et non des aspects grands publics  
(largement déjà évoqués par le  
professeur Roux...)

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## CIO Research Reports

### Optimizing Business Performance: Using IT for Competitive Advantage, Part II

Jun 03, 2003

**Optimizing Business Performance: Using IT for Competitive Advantage**

A Study Conducted by CIO Magazine, PRTM, and The InterUnity Group

Aligning IT and business priorities is a key business competency, critical for achieving and sustaining a competitive edge. Although many companies believe that their IT function and business units are aligned, only a few companies have actually achieved this alignment and have the bottom-line results to prove it.

**Key Findings**

**Part II: Governance**

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**Delivering insight for smarter business decisions.**

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# Harvard Business Review

 May 2003



## IT Doesn't Matter

by Nicholas G. Carr

*As information technology's power and ubiquity have grown, its strategic importance has diminished. The way you approach IT investment and management will need to change dramatically.*

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vendors or partners, security breaches, even terrorism—and some have become magnified as companies have moved from tightly controlled, proprietary systems to open, shared ones. Today, an IT disruption can paralyze a company's ability to make its products, deliver its services, and connect with its customers, not to mention foul its reputation. Yet few companies have done a thorough job of identifying and tempering their vulnerabilities. Worrying about what might go wrong may not be as glamorous a job as speculating about the future, but it is a more essential job right now. (See the sidebar "New Rules for IT Management.")

In the long run, though, the greatest IT risk facing most companies is more prosaic than a catastrophe. It is, simply, overspending. IT may be a commodity, and its costs may fall rapidly enough to ensure that any new capabilities are quickly shared, but the very fact that it is entwined with so many business functions means that it will continue to consume a large portion of corporate spending. For most companies, just staying in business will require big outlays for IT. What's important—and this holds true for any commodity input—is to be able to conserve essential investments

### New Rules for IT Management

With the opportunities for gaining strategic advantage from information technology rapidly disappearing, many companies will want to take a hard look at how they invest in IT and manage their systems. As a starting point, here are three guidelines for the future:

**Spend less.** Studies show that the companies with the biggest IT investments rarely post the best financial results. As the commoditization of IT continues, the penalties for wasteful spending will only grow larger. It is getting much harder to achieve a competitive advantage through an IT investment, but it is getting much easier to put your business at a cost disadvantage.

**Follow, don't lead.** Moore's Law guarantees that the longer you wait to make an IT purchase, the more you'll get for your money. And waiting will decrease your risk of buying something technically flawed or doomed to rapid obsolescence. In some cases, being on the cutting edge makes sense. But those cases are becoming rarer and rarer as IT capabilities become more homogenized.

**Focus on vulnerabilities, not opportunities.** It's unusual for a company to gain a competitive advantage through the distinctive use of a mature infrastructural technology, but even a brief disruption in the availability of the technology can be devastating. As corporations continue to cede control over their IT applications and networks to vendors and other third parties, the threats they face will proliferate. They need to prepare themselves for technical glitches, outages, and security breaches, shifting their attention from opportunities to vulnerabilities.

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**LES PRINCIPAUX DEFIS SUR LES  
5 PROCHAINES ANNEES**

1. Développer les capacités organisationnelles de l'entreprise (temps de réponse et flexibilité, qualité totale, capacité d'innovation) (92%) 
2. Gagner des parts de marché dans ses métiers de base et y rechercher leadership (90%) 
3. Développer un compréhension détaillée des besoins des clients (87%) 
4. Poursuivre le développement international (85%) 
5. Lancer des programmes d'amélioration de la productivité et de réduction des frais généraux (83%) 
6. Renforcer les compétences dans certaines fonctions critiques (technologie / industriel / marketing) et en assurer la mobilité entre centres de profits (81%) 
7. Reconcevoir les principaux processus (reengineering) et transformer en profondeur l'organisation et le fonctionnement de l'entreprise (72%) 

*Etude BCG 1994*

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**THE US CEOs LOOK TO THE FUTURE**  
**Foundation for the Malcolm Baldrige National Quality Award 1998**

Six trends affecting major U.S. companies are judged to be "major" by more than 70% of the CEOs surveyed:

- **globalization (94%)**
- **improving knowledge management (88%)**
- **cost and cycle time reduction (79%)**
- **improving supply chains globally (78%)**
- **manufacturing at multiple locations in many countries (76%)**
- **managing the use of more part-time, temporary and contract workers (71%)**

Eight other trends were judged to be major by between 50% and 70% of the CEOs:

- **developing new employee relationships based on performance (69%)**
- **improving human resources management (68%)**
- **improving the execution of strategic plans (68%)**
- **developing more appropriate strategic plans (64%)**
- **ongoing measurement and analysis of organizational processes (60%)**
- **developing a consistent global corporate culture (56%)**
- **outsourcing of manufacturing (55%)**
- **creating a learning organization (52%)**

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## and now.....

The top three challenges?

Not surprisingly, they are all related to competitiveness as measured by revenue growth. The Conference Board's annual survey for 2004 listed the top three challenges identified by CEOs worldwide as:

1. Sustained and steady top-line growth
2. Speed, flexibility, adaptability to change
3. Customer loyalty, retention

In the AT Kearney survey<sup>7</sup>, only 28 percent of IT leaders ranked IT as a top 10 percent issue; only 37 percent of ALL the executives surveyed ranked IT as being this important.

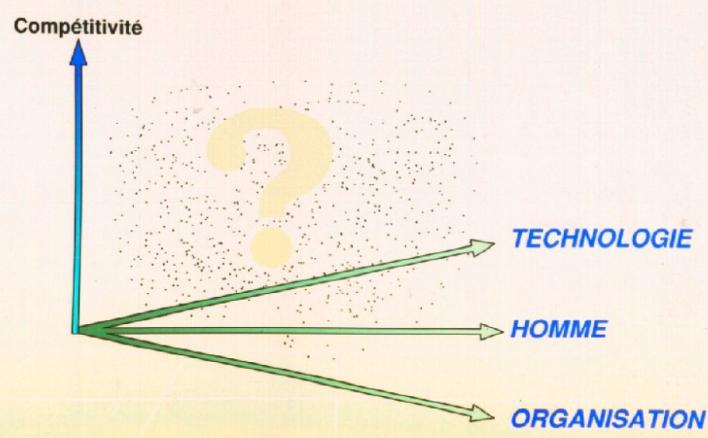


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## Les Conditions de la Compétitivité

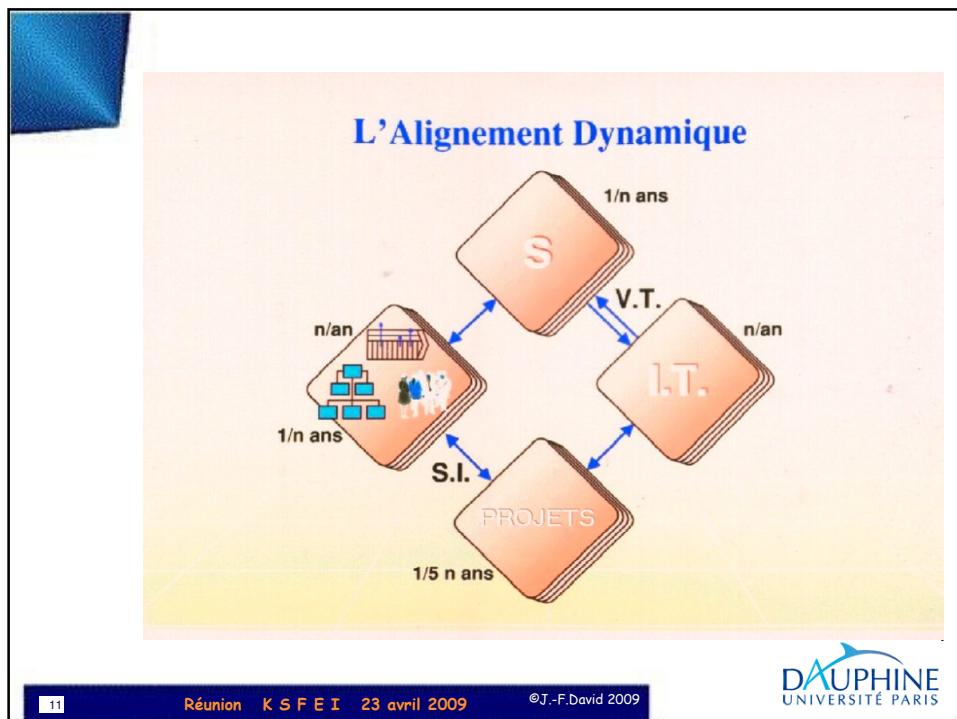


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## L'ENTREPRISE, UN SYSTEME VIVANT

- Réactions, régulations  
- Mémoires, décisions  
- Objectifs

COMPLEXITE  
+ 5 % / an  
Intelligence  
"Réactivité"  
Speed

B R

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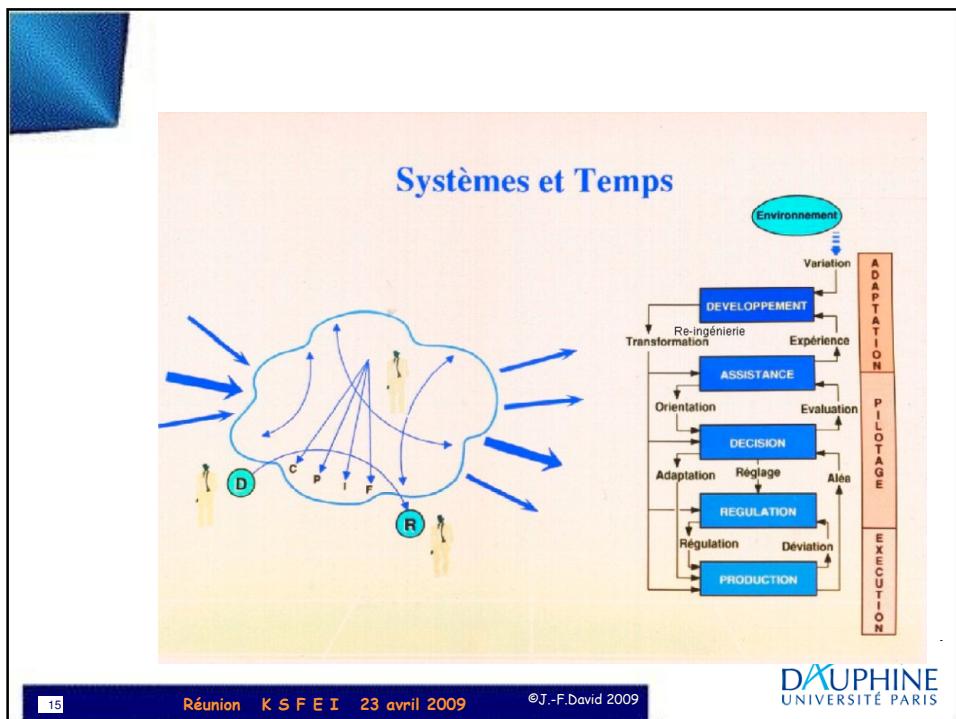
## Structures,....      Processus,....

"Les organisations ne sont pas faites pour servir le client mais pour préserver l'ordre intérieur.  
Pour le client, non seulement la structure interne ne lui est que peu d'utilité, mais de plus elle sert souvent de barrière.  
L'organisation est verticale, le service au client est horizontal"

G.Fischer, CEO, Motorola

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**The Magical Number Seven, Plus or Minus Two: Some Limits on Our Capacity for Processing Information**  
by [George A. Miller](#)  
originally published in *The Psychological Review*, 1956, vol. 63, nn. 81-97

**Information Processing Theory (G. Miller)**

**Overview:**  
George A. Miller has provided two theoretical ideas that are fundamental to cognitive psychology and the information processing framework.

**TEST** →  
↓  
**OPERATE**

The first concept is "chunking" and the capacity of short term memory. Miller (1956) presented the idea that short-term memory could only hold 5-9 chunks of information (seven plus or minus two) where a chunk is any meaningful unit. A chunk could refer to digits, words, chess positions, or people's faces. The concept of chunking and the limited capacity of short term memory became a basic element of all subsequent theories of memory.

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## Le Temps de l'Acteur

- Bulle temporelle
- Double Langage
- Arbitrages
- Ergonomie généralisée

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## Le "speed" de l'entreprise et l'individu

**SPEED**

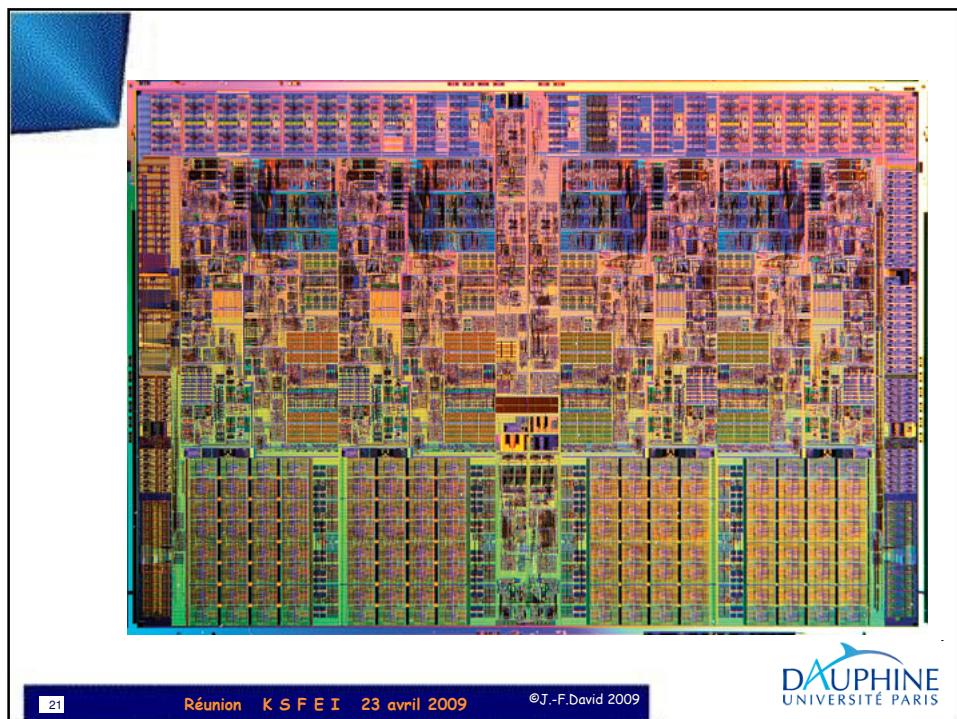
**STRESS**

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## Key technologies

The slide features four main categories of technology, each represented by an image and a label:

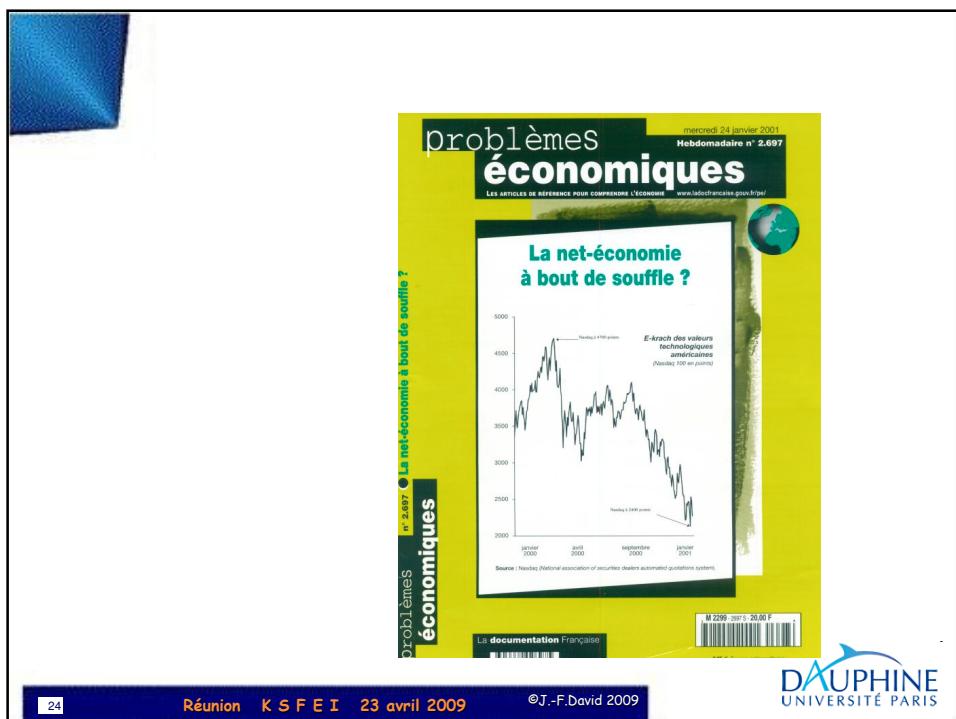
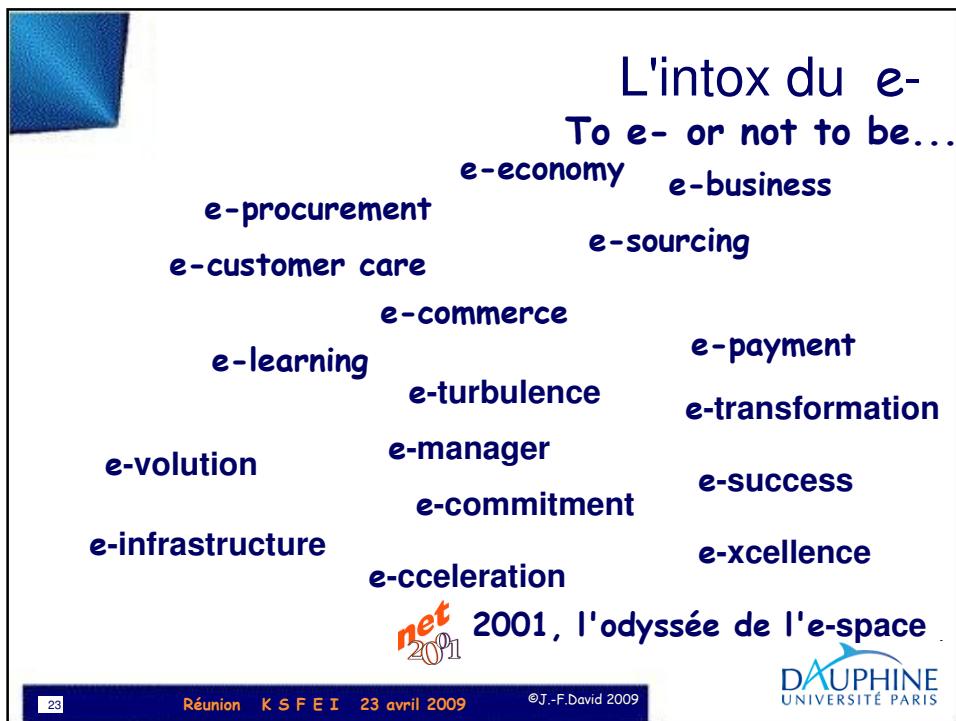
- Microprocessors**: An image of a person in a cleanroom suit holding a gold-colored microchip.
- Storage**: An image of several optical discs (CDs and DVDs).
- Communications**: An image of a globe with communication lines overlaid.
- M/M interfaces**: An image showing a mobile phone, a laptop, and a keyboard connected by lines, representing interface technology.

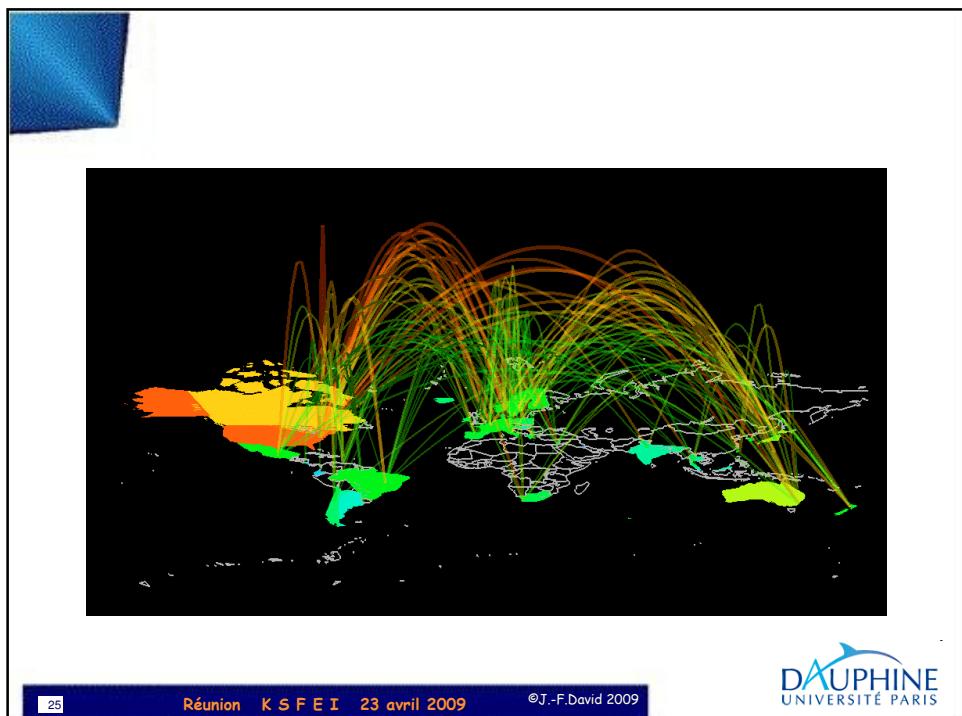
**FAST & CONTINUOUS PROCESS**  
*but unequal*

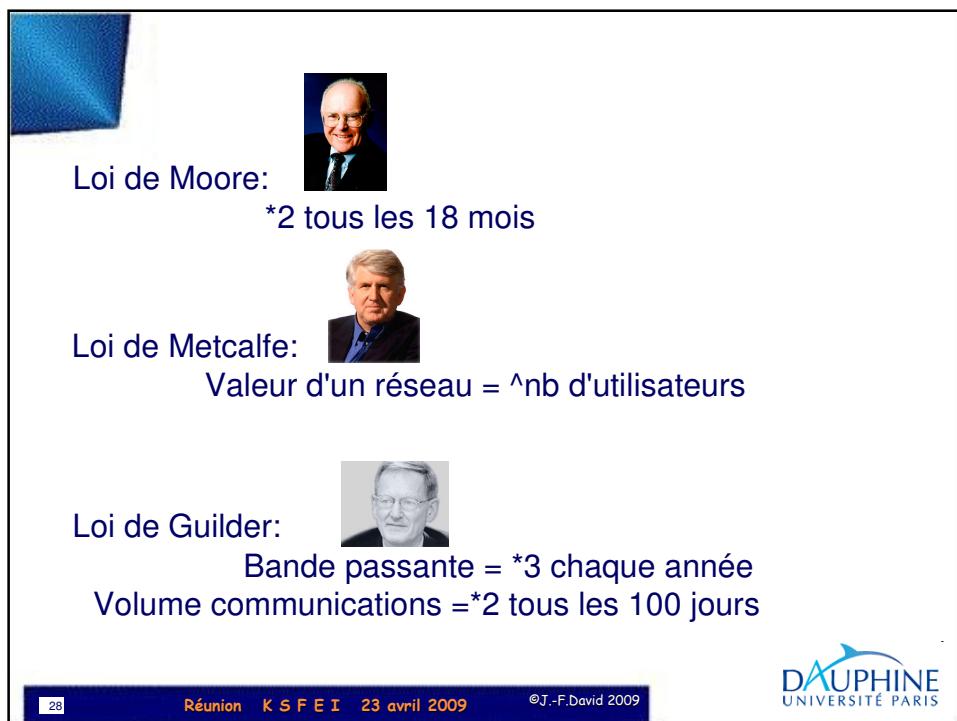
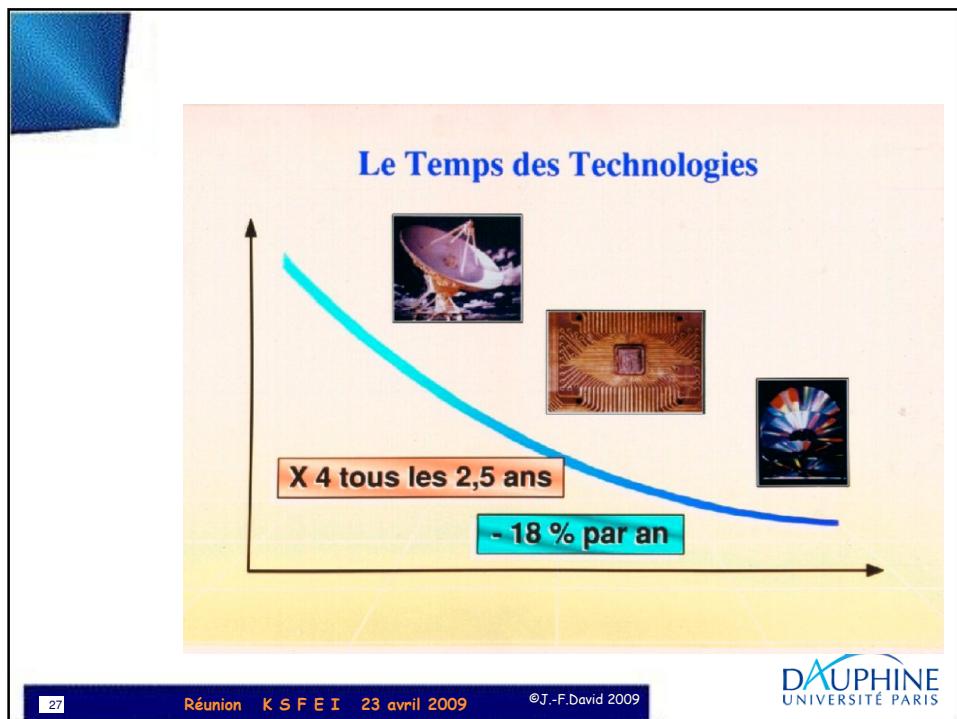
Source: IBM France

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**Nanotube field-effect transistor**

Transistors are the basic building blocks of integrated circuits. To use nanotubes in future circuits it is essential to be able to make transistors from them. We have successfully fabricated and tested nanotube transistors using individual multi-wall or single-wall nanotubes as the channel of a field-effect transistor (FET).

(b)

1.4 nm

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A circuit on a molecule?

1μm

500nm

carbon nanotube

10μm

Researchers have just discovered how to build the first complete electronic integrated circuit around a single carbon nanotube molecule

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**RFID Goes Mainstream**

The smart-label business finally joins the real-world supply chain, with working products and solid profits.

KEVIN R. SHARP, SENIOR TECHNICAL EDITOR

**RFID Metro Pass**

This pass is not transferable  
Print Name \_\_\_\_\_  
**MONTHLY Bus Pass**  
031823  
RadioBand  
RFID Inlay  
Premier Southern Ticket Co.

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## Wearable computers: Aesthetics

How comfortable would  
you be chatting  
socially with  
this guy?



Figure from Proem, a wearable system for exchanging flexible user profiles

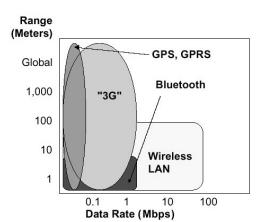
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### Accès hauts débits : une richesse de solutions

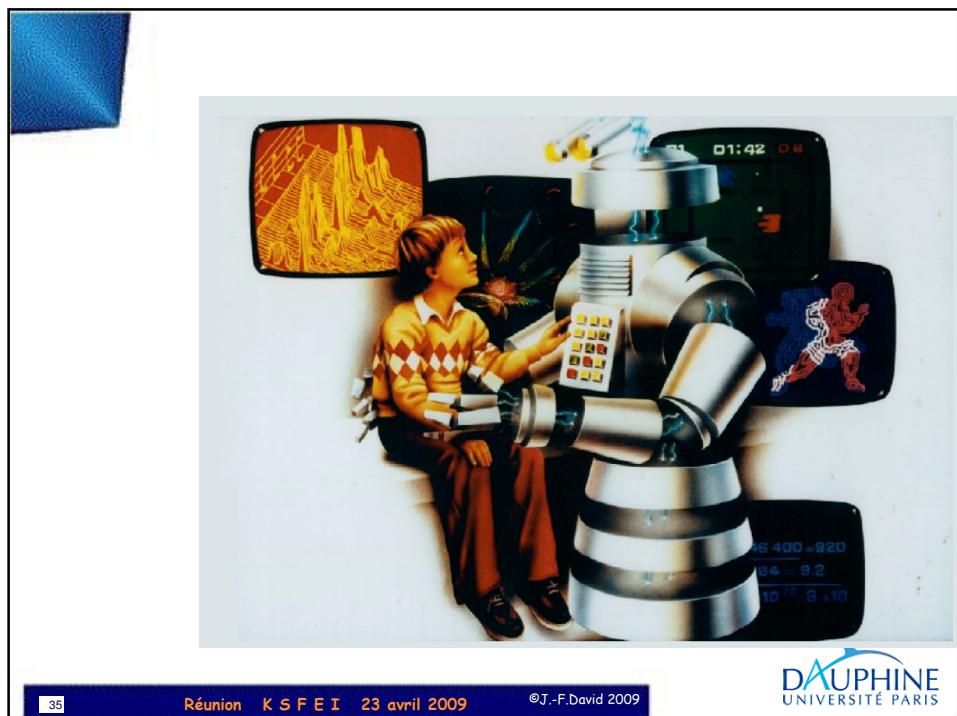


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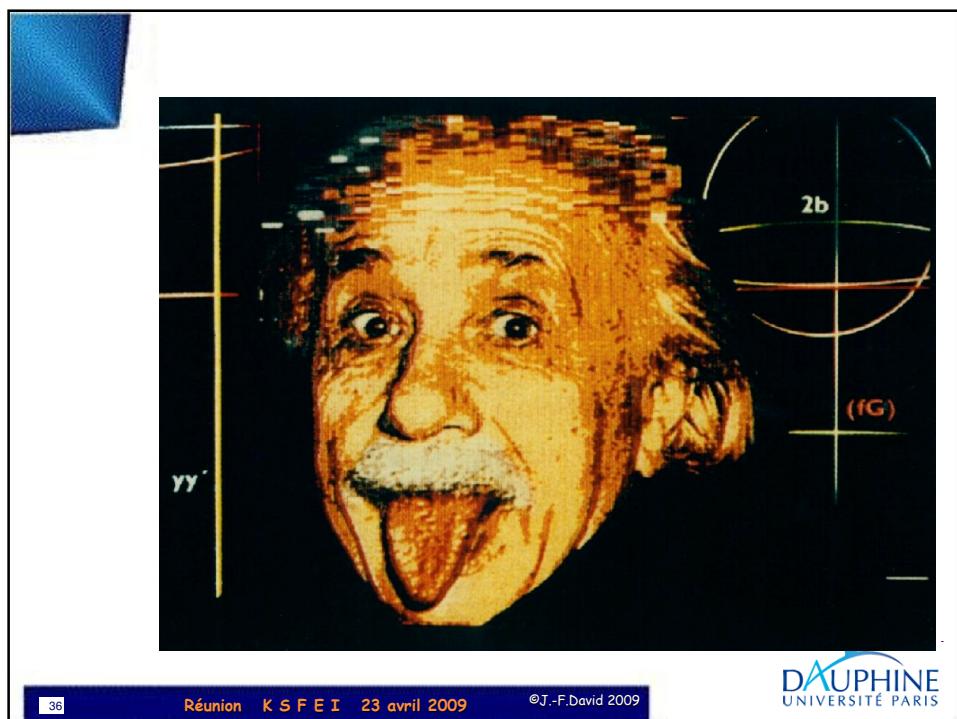


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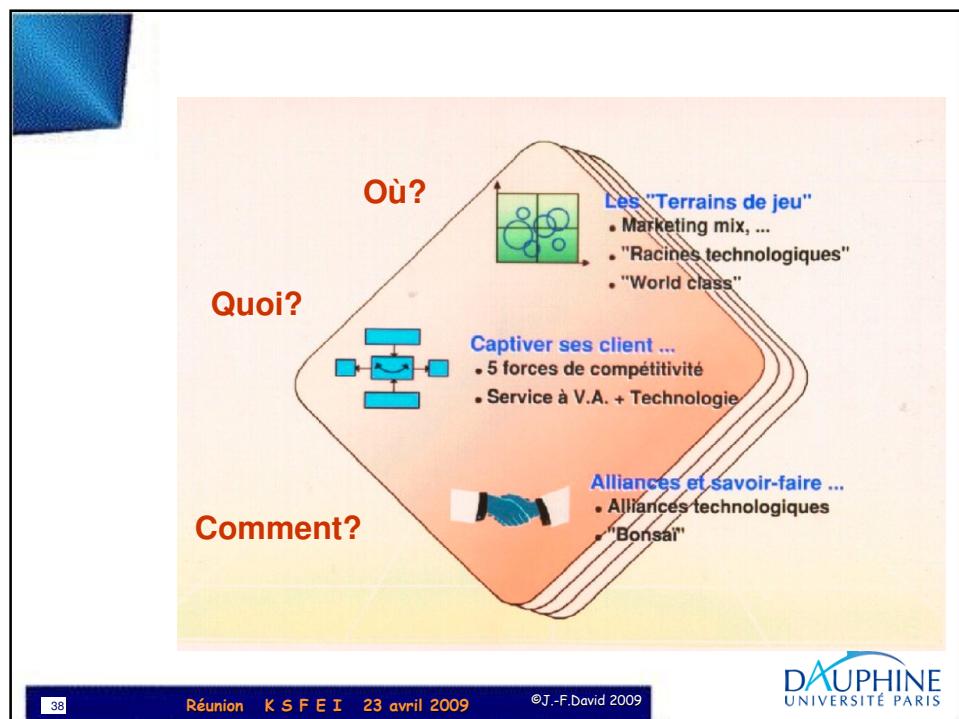
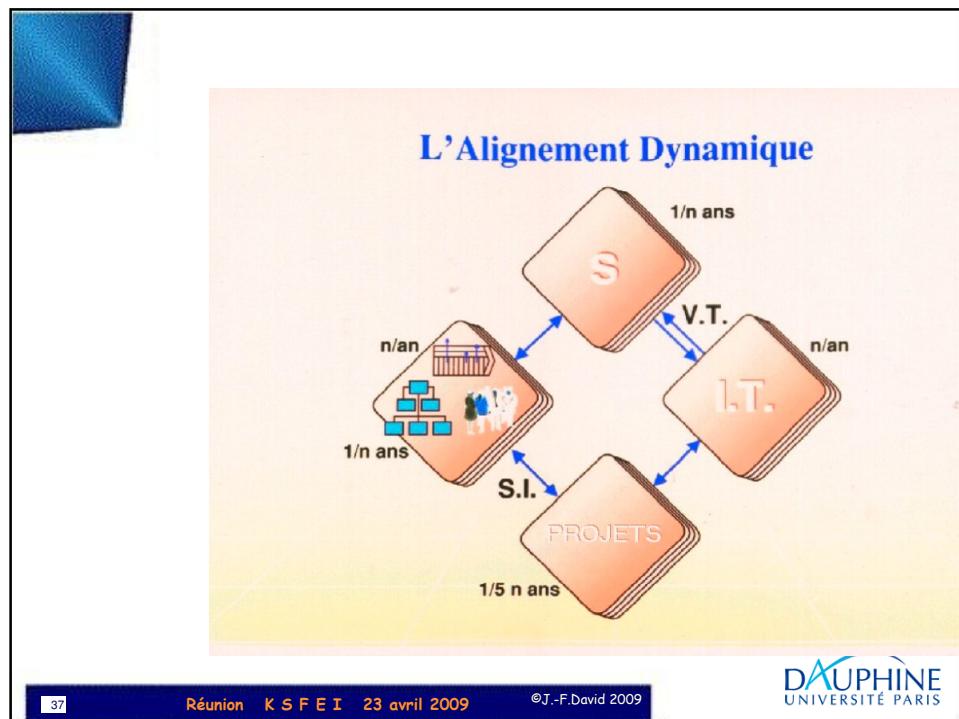


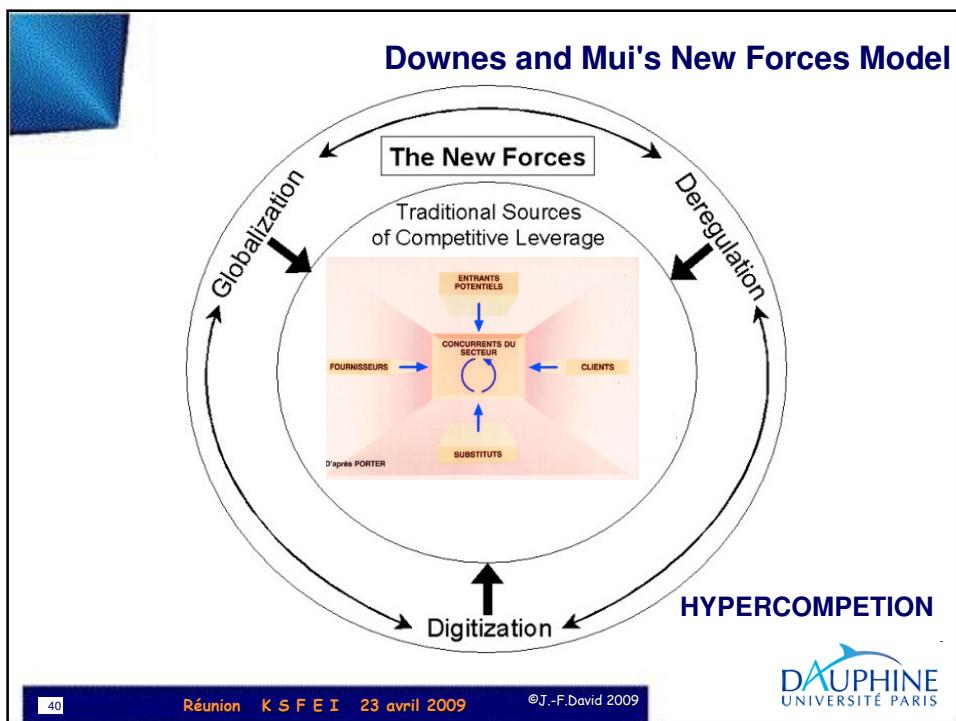
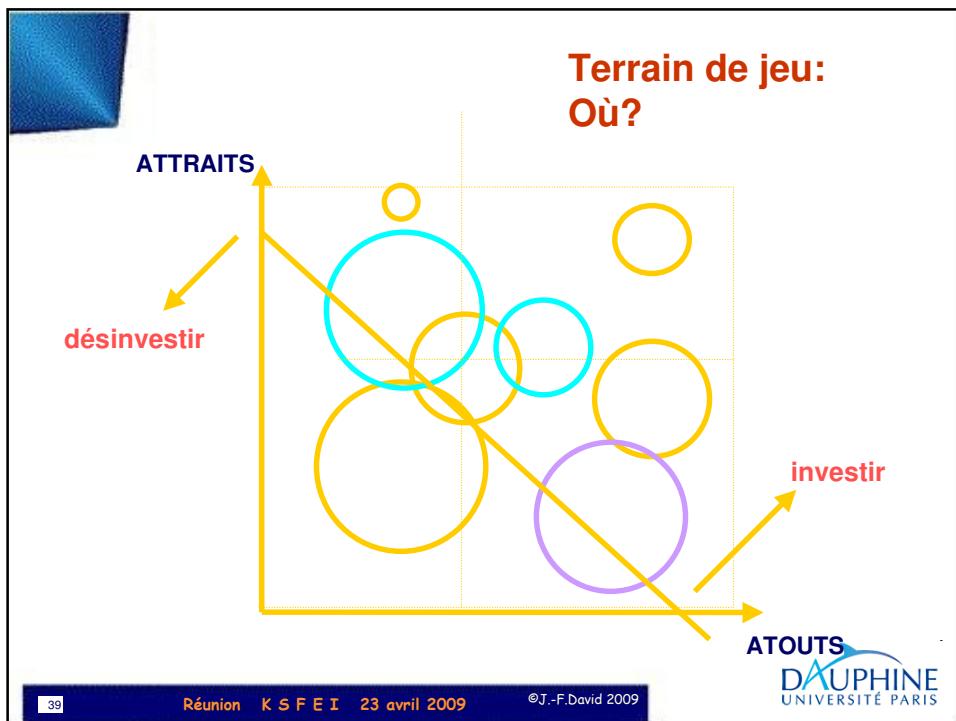
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## LES GLISSEMENTS DE MÉTIERS

Banques	produits d'assurance, de retraite
Assurance	voyage, loisirs, retraite
Cartes cie crédit	luxe, service, vente par correspondance
Grande distribution	crédit, voyage, assurance
Compagnies des eaux	câblage, télévision, multimédias, bâtiment
Bâtiment	câblage informatique, parcs de jeux, loisirs
Hôpitaux	hôtelier, informatique médicale
Nucléaire	ingénierie logiciel, systèmes experts
Immobilier	services 3"/4' âges, robotique
Aviation	CAO, informatique embarquée
Hôtels	santé, thalassothérapie, check-up, sports

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## Strategie du Bonzai

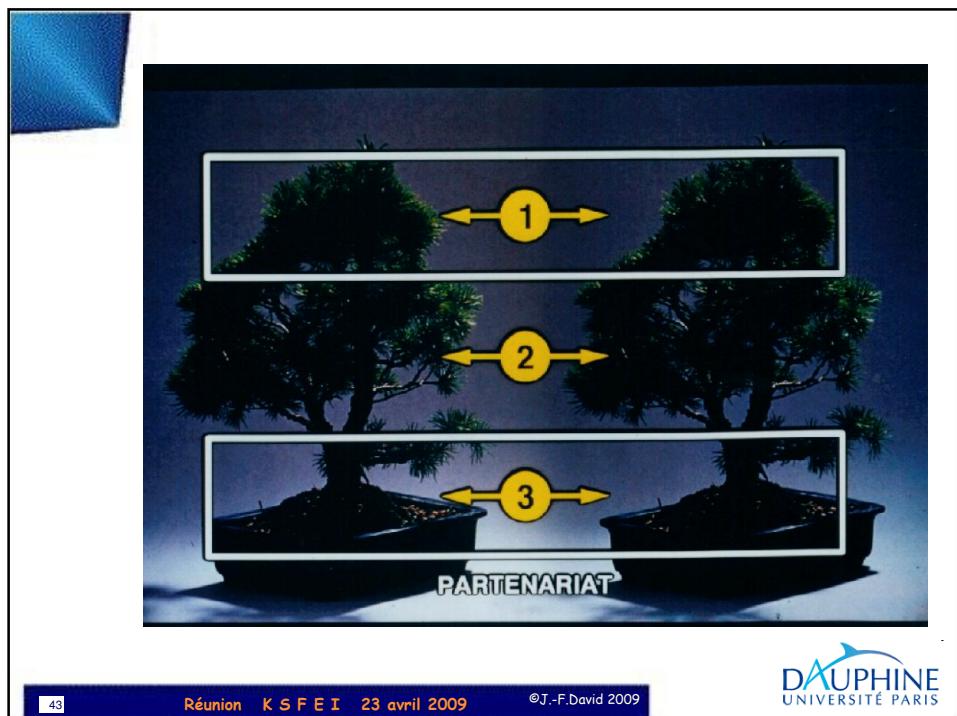
PRODUIT / MARCHE

KNOW-HOW

TECHNOLOGIES DE BASE

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### *Méthode 1*

a) Changement de paradigme, glissement métiers  
 Pourquoi achète-t-on ce type de produit ?  
 → Nouveaux métiers, concurrents  
 → Nouvelle vision

b) Liste des produits/services  
 Comment ajouter  
 → plus de "sur-mesure"  
 → des TIC plus émergentes

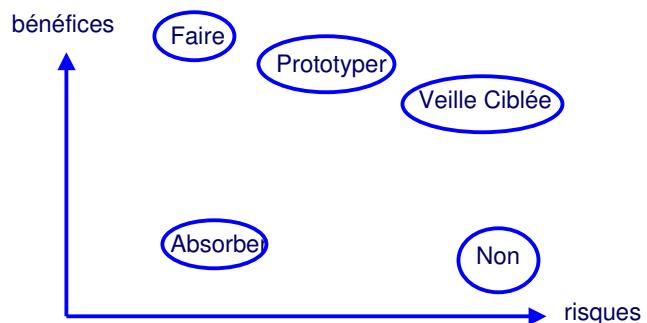
SM  
 ↑  
 ← TIC

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## Méthode 2

Comment décide-t-on d'y aller ?



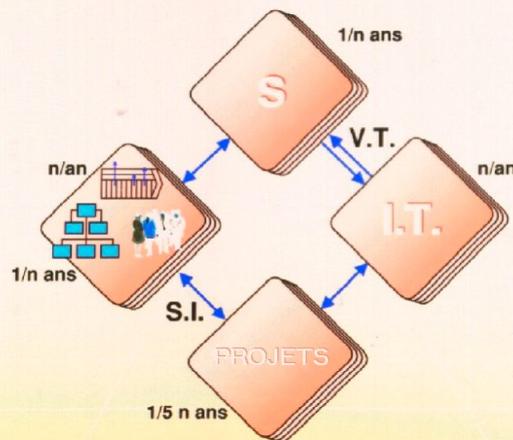
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## L'Alignement Dynamique



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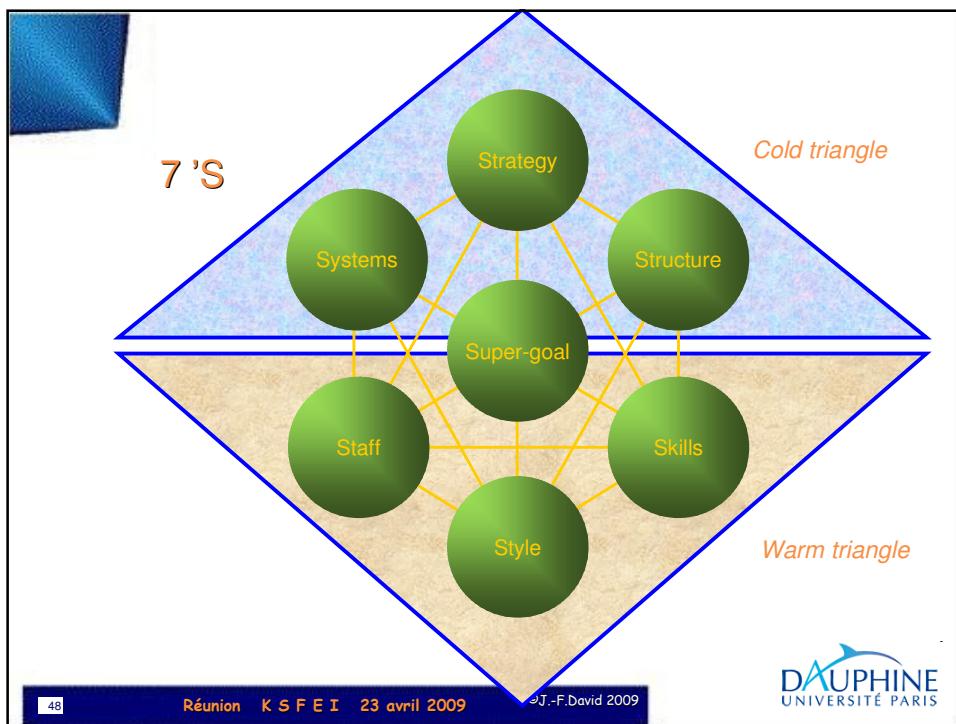


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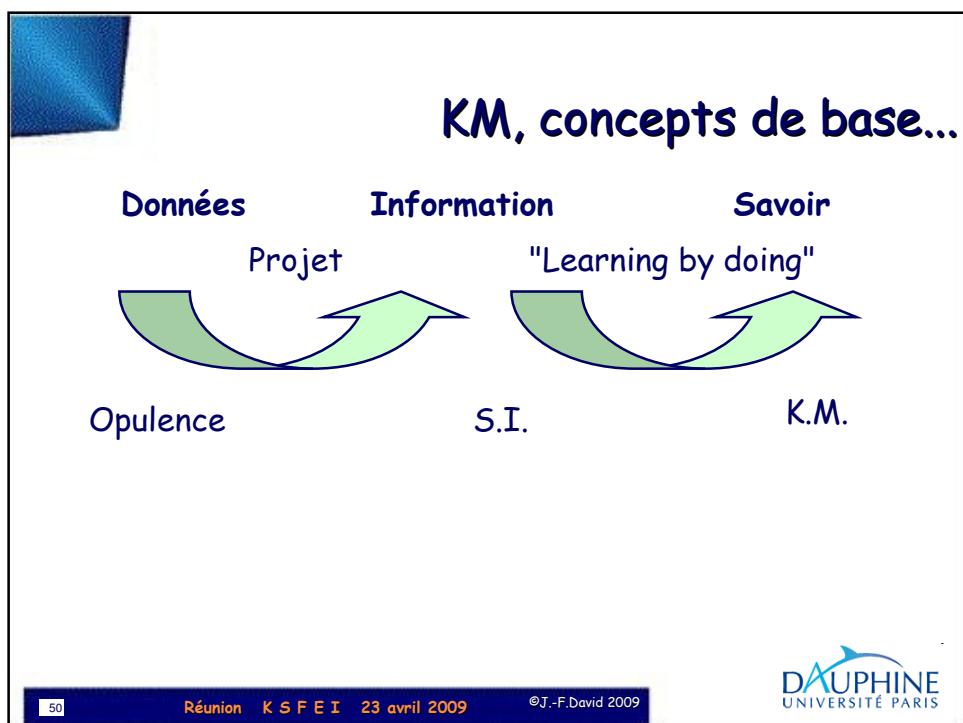
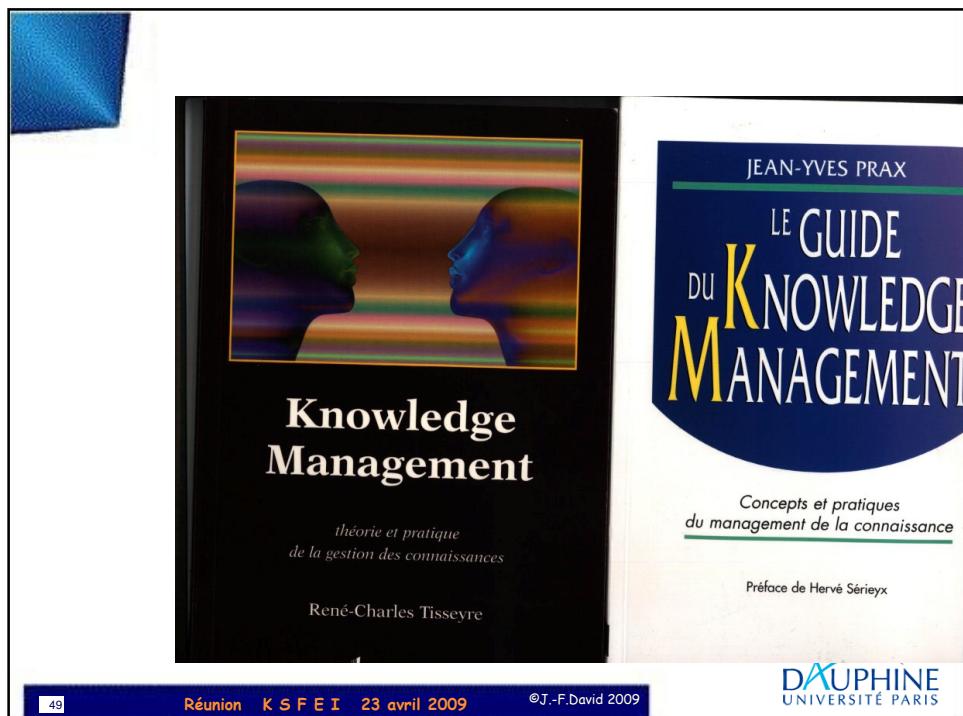


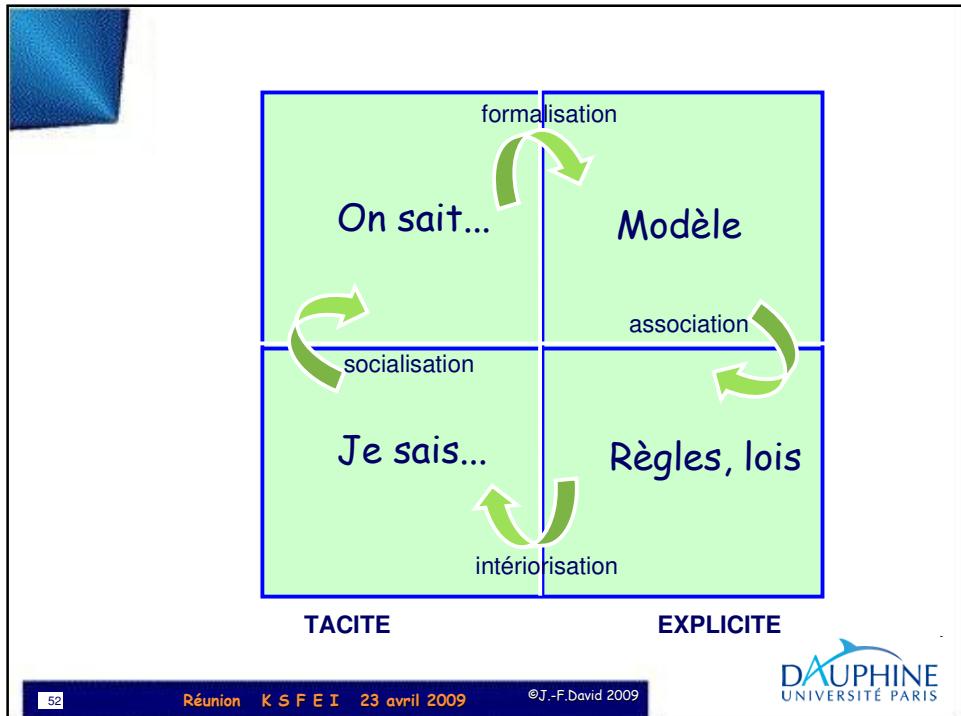
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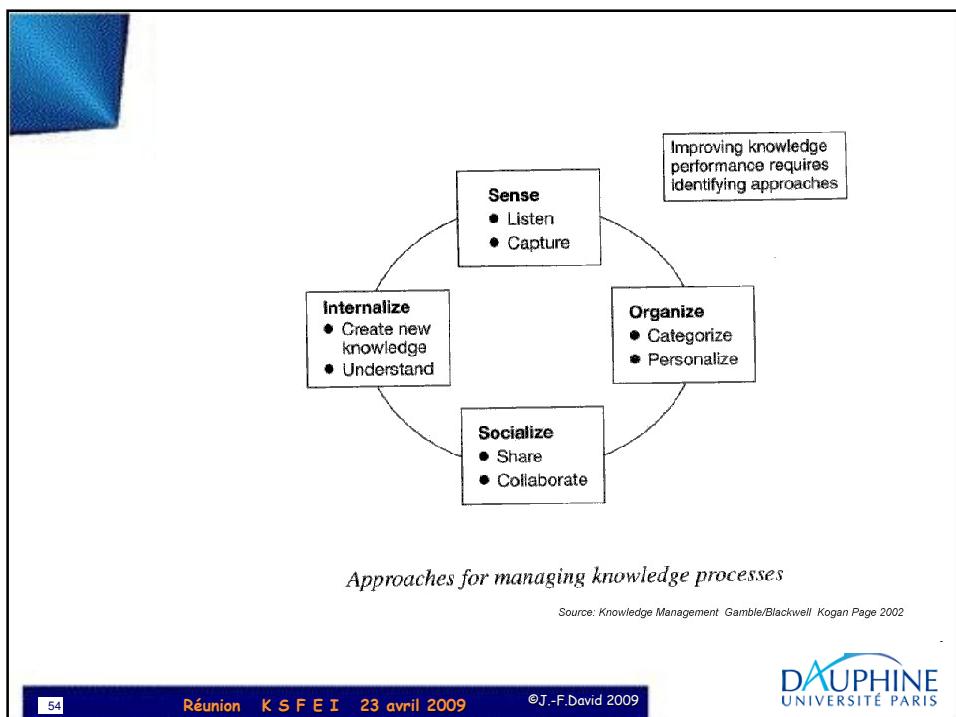
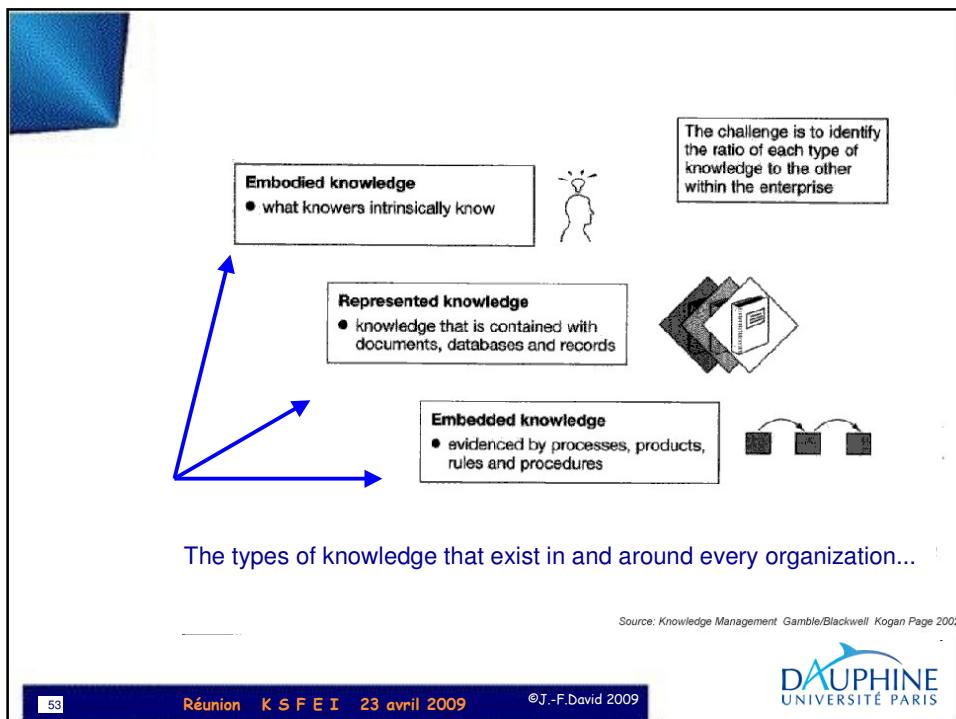
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Type	Approach	Embodyed	Represented	Embedded
Sense	Observe • Knowledge surveys • Workshops/interviews • Network analysis	Gather • Business intelligence • Text and data mining • Intelligent agents	Hypothesize • Market/customer/competitor analysis • Modeling/reasoning tools • Reverse engineering	
Organize	Contextualize • Focus groups • Expertise guides • Knowledge coordinators	Categorize • Knowledge taxonomies • Libraries • Data marts	Map • Job/workplace design • Workflow analysis • Performance measures	
Socialize	Share • Mentoring/coaching • Communities of practice • Conferencing tools/groupware	Disseminate • Broadcast tools/Internet/ Intranet/e-mail • Distance learning • Application systems	Simulate • Scenario planning • After-action reviews • Training/competency management	
Internalize		Apply – Decide – Act		

The KM Matrix

Range of tools used in approaches to knowledge management

Source: Knowledge Management Gamble/Blackwell Kogan Page 2002

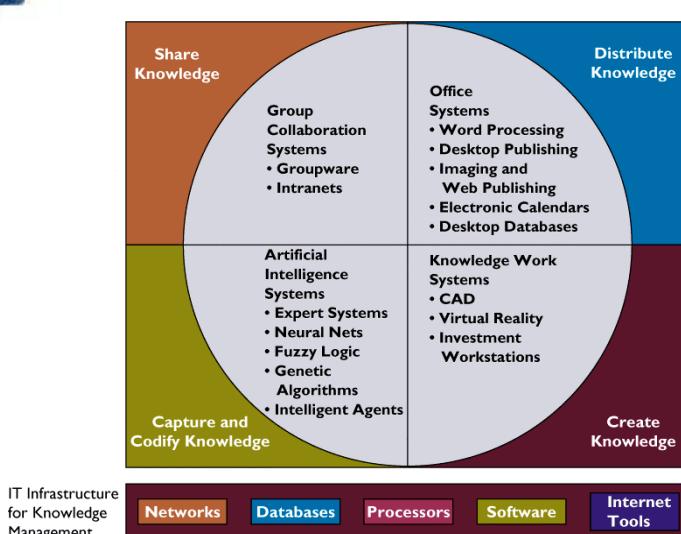


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### KM and ICT (Processes and Tools mapping)



IT Infrastructure  
for Knowledge  
Management

Networks Databases Processors Software Internet Tools

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„If we spend more than 1/3 of KM budget on  
IT it is no longer a KM project but IT project“

Laurence Prusak, Thomas Davenport

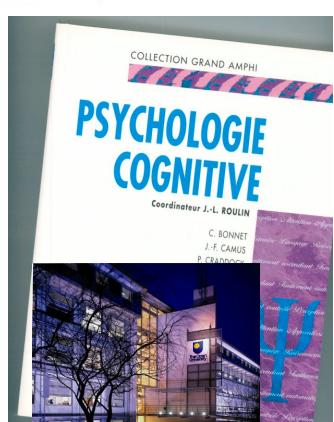


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## e-learning



Illumination

Approfondissement

Définition Projet

Projet

Capitalisation vers la suite....

Vers un mix de media...

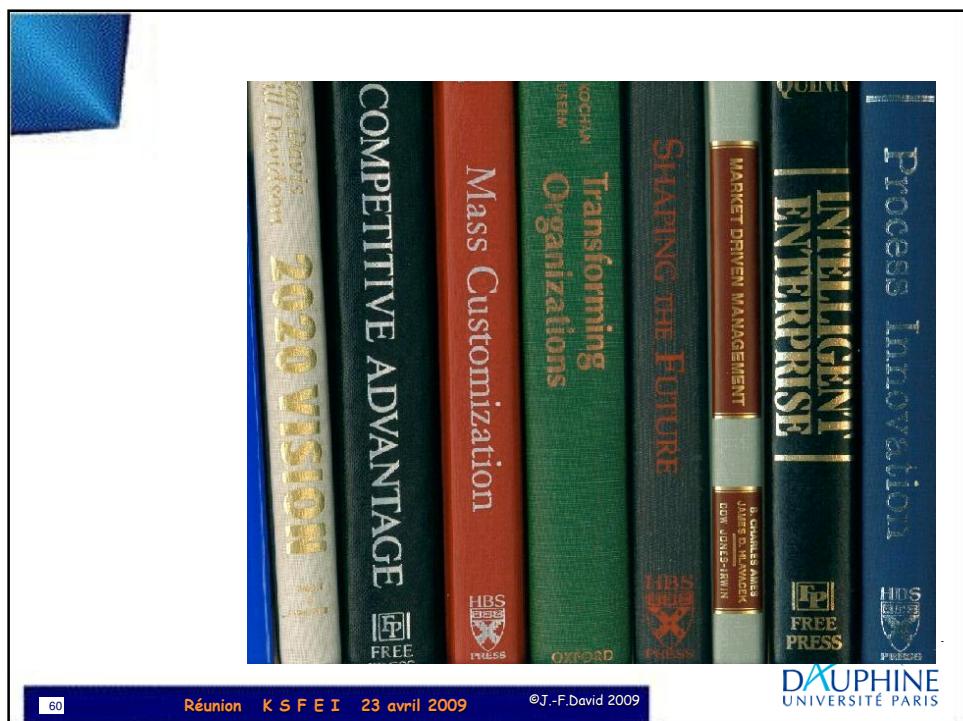
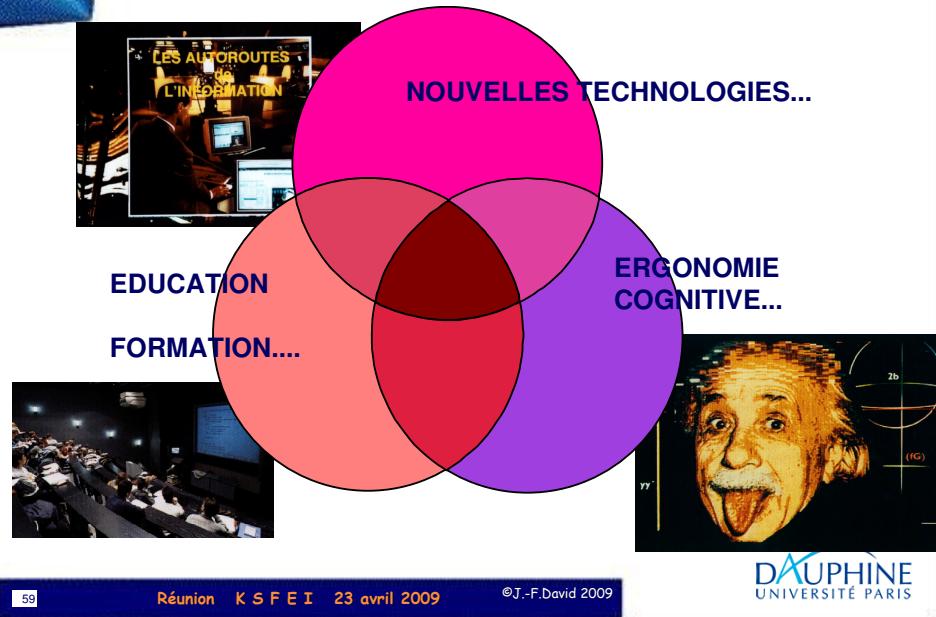


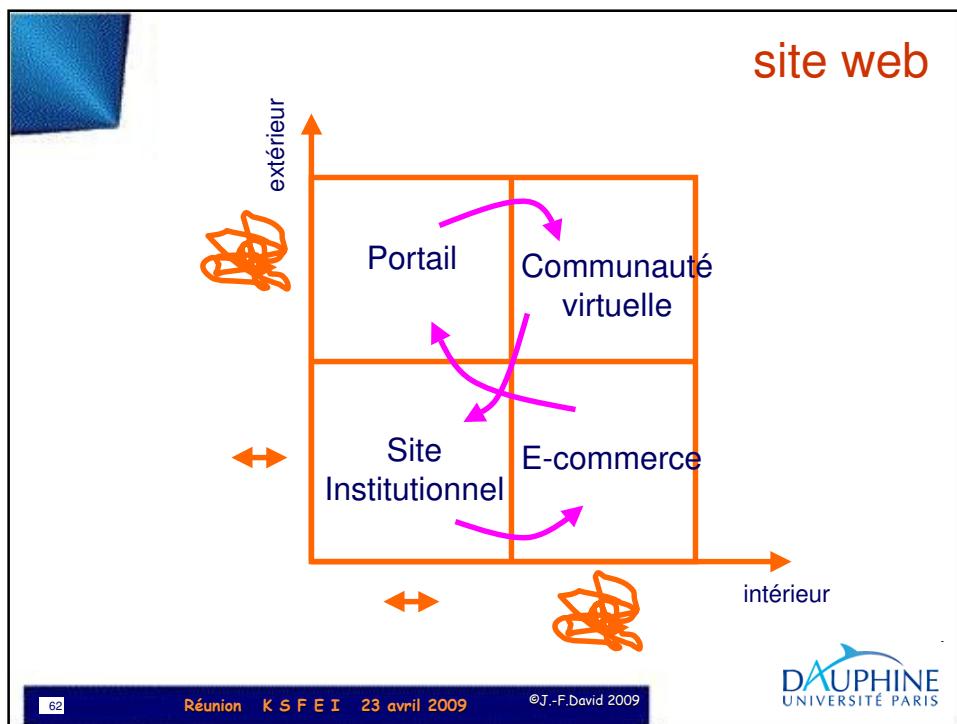
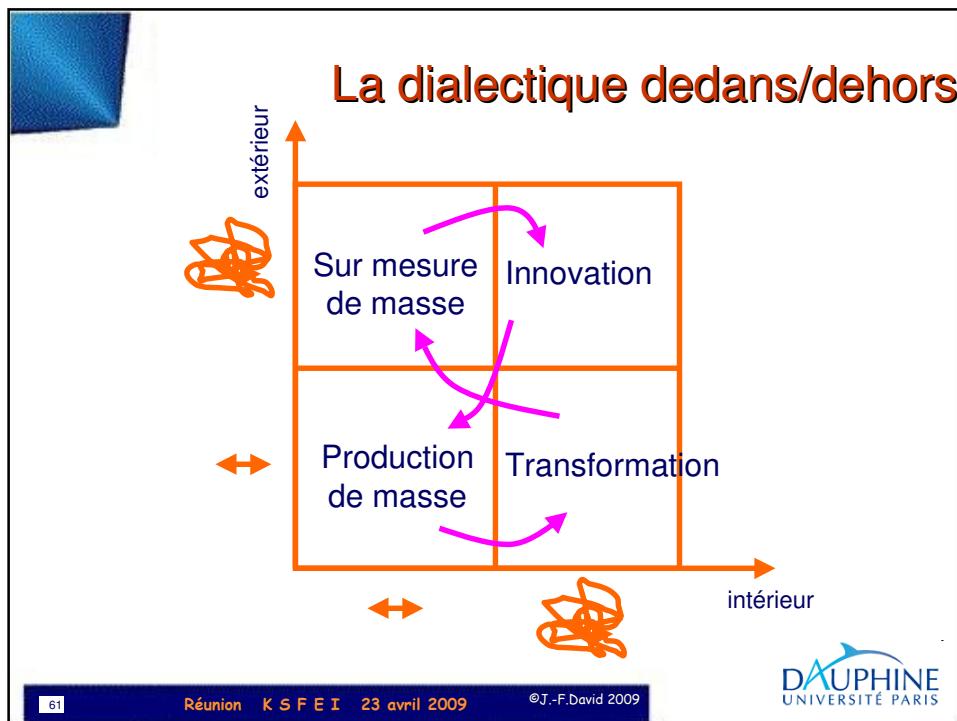
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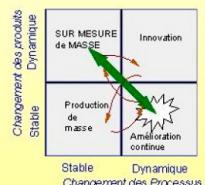
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## Une cross-fertilisation nécessaire





## 70% des efforts de transformation butent sur le facteur humain.....



Comment savoir?  
Et les autres?  
dirigeants vs employés ?

Les 15 "critères" de Carnegie-Mellon.....  
**VISION**  
**VALEURS**  
**CULTURE ORGANISATIONNELLE**  
**STRUCTURE**  
**COMMUNICATIONS**  
**PRISE DE DECISION**  
**MESURE DE PERFORMANCE**  
**RENUMERATION**  
 Programmes DRH  
**CONTRAT**  
**COMPETENCES INDIVIDUELLES**  
**LEADERSHIP**  
**CAPACITES de l'ORGANISATION**  
**MORAL**  
**TOLERANCE au CHANGEMENT**

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### Vision :

Auto-projection à 3/5 ans de l'entreprise, décidée par la direction et véhiculée et appropriée par le management

### Valeurs :

Plus pérennes, liées à l'histoire de l'entreprise, explicites ou implicites

### Culture Organisationnelle :

Rigueur ou souplesse des règles, rigueur ou souplesse de leur application

### Structure :

Type d'organisation, classique, matricielle, réseaux, ...

### Communication :

Mode de communication, descendant, montant, transverse, ...

### Décision :

Qui décide et comment?

### Performance :

Sur quoi mesure-t-on les individus?

### Apprentissage :

Modalité de l'accroissement des savoirs

### Compétences :

Quelle compétence recherche-t-on, favorise-t-on?

### Leadership :

Archétype ambiant en ce qui concerne "l'image du chef"

### Motivation :

"A quoi" marchent les individus?

### Changement :

Positionnement par rapport aux changements

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*Short "Culture" test based on IBM Consulting Group expertise*

- 1) Which of these sentences describes in closer the "vision" of your entity?**
  - a) We focus on the value creation thanks to our innovations and to our know-how
  - b) We focus on the rise of the customer satisfaction thanks to the improvement of our processes
  - c) We focus on the increase of the variety and the level of adaptation of our products / services offers thanks to the flexibility of our processes and the decrease of the response times
  - d) We focus on the efficiency through our objectives and our controls
- 2) What of these various approaches is the most valued in your entity?**
  - a) Be capable of adapting itself quickly to changeable needs
  - b) Make things for the way they must be made
  - c) Find new innovative manners to make things
  - d) Always look for the most effective way of making things
- 3) What of these sentences describes best your organization?**
  - a) We have habits and some main rules and we are flexible
  - b) We have clear and described rules and they must be respected and followed
  - c) We have habits and some main rules, but we are strict on their application
  - d) We have clear and described rules, but we are flexible
- 4) What describes best the way people work in your entity?**
  - a) The work is mostly made in cooperation between people of different structures
  - b) People work mainly only
  - c) People work mostly in cooperation, in multi-professions teams formed in a informal way according to the task to be made
  - d) People work mostly with colleagues of their specific profession
- 5) What describes best the way people communicate professionally?**
  - a) People rely mainly on informal information
  - b) The information rises permanently towards the hierarchy ( bottom / up )
  - c) The information navigates freely in all the directions, in a formal and informal way
  - d) The information comes mainly from the hierarchy ( top / down )
- 6) What describes best the way the decisions are taken in your entity?**
  - a) In a collective way
  - b) Hierarchical
  - c) In a transverse, inter-functional way
  - d) Delegation, empowerment

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**7) What reflects in closer the way the performance is estimated?**

- a) By the individual contribution to new and/or better manners to do
- b) By the level of supplied service
- c) By the weak number of defects or errors
- d) By the amount of work supplied

**8) What reflects best the capacity of your entity to learn and to innovate?**

- a) The entity learns in a progressive way
- b) The capacity of the entity to learn is weak
- c) The organization learns after the implementation of specific programs
- d) The entity is endowed with an integrated system for permanent learning

**9) What describes in closer what is professionally asked to the actors of your entity?**

- a) Competence and wide, inter-functional knowledge
- b) Competence and knowledge defined in a precise way
- c) A high level specialized competence and knowledge
- d) Competence and knowledge complementing those of the others in the teams

**10) What describes best the style of "leadership" in your entity?**

- A) Orchestrator
- B) Decision-maker
- C) Participative
- D) Entrepreneur

**11) What influences most strongly the morale of the actors in your entity?**

- a) Satisfy every customer
- b) The "rewards" and the "penalties"
- c) Personal auto-motivation
- d) The shared values

**12) What is the level of acceptance of the change in your entity?**

- a) The persons generate the change
- b) The persons resist to the change
- c) The persons accept the progressive change
- d) The persons manage the permanent change

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**Cultures....**

Invention	
Vision .....	Entrepreneuriale
Valeurs .....	Innovation
Culture .....	Très informelle
Structure .....	Corporation
Communications .....	Réseaux informels
Processus de décision .....	Participatif
Contrat de travail .....	Individualisé
Evaluation de performance .....	Créativité
Rémunération .....	Individuelle
Politique Res. Humaines .....	Flexible
Capacités .....	Créatives
Compétences individuelles .....	Expert
Leadership .....	Entrepreneurial
Moral .....	Motivation personnelle
Tolérance au changement .....	Génère le changement

Production de masse      Amélioration continue

Stable      Dynamique  
Changement des Processus

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**Cultures....**

produits américain	
<b>Production de masse</b>	
Vision .....	Statu quo
Valeurs .....	Stabilité
Culture .....	Très formelle
Structure .....	Hierarchique
Communications .....	Descendante
Processus de décision .....	Séquentiel
Contrat de travail .....	Banalise
Evaluation de performance .....	Productivité
Rémunération .....	Temps travaillé
Politique Res. Humaines .....	Rigide
Capacités .....	Réactives
Compétences individuelles .....	Spécialiste
Leadership .....	Autoritaire
Moral .....	Récompense
Tolérance au changement .....	Résistance

INNOVATION  
Amélioration continue

Dyn...  
Changement des Proces

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## Cultures....

SUR MESURE de MASSE	Transformation
Changeement des produits	Vision ..... Qualitative
Dynamique	Valeurs ..... Efficience
Stable	Culture ..... Formelle
Production de masse	Structure ..... Equipe
	Communications ..... Ascendante
	Processus de décision ..... Consensuel
	Contrat de travail ..... Volontaire
	Evaluation de performance ..... Défauts
	Rémunération ..... Equipe
	Politique Res. Humaines ..... Innovative
	Capacités ..... Anticipation
	Compétences individuelles ..... Réalisation
	Leadership ..... Facilitateur
	Moral ..... Reconnaissance
	Tolérance au changement ..... Progressive

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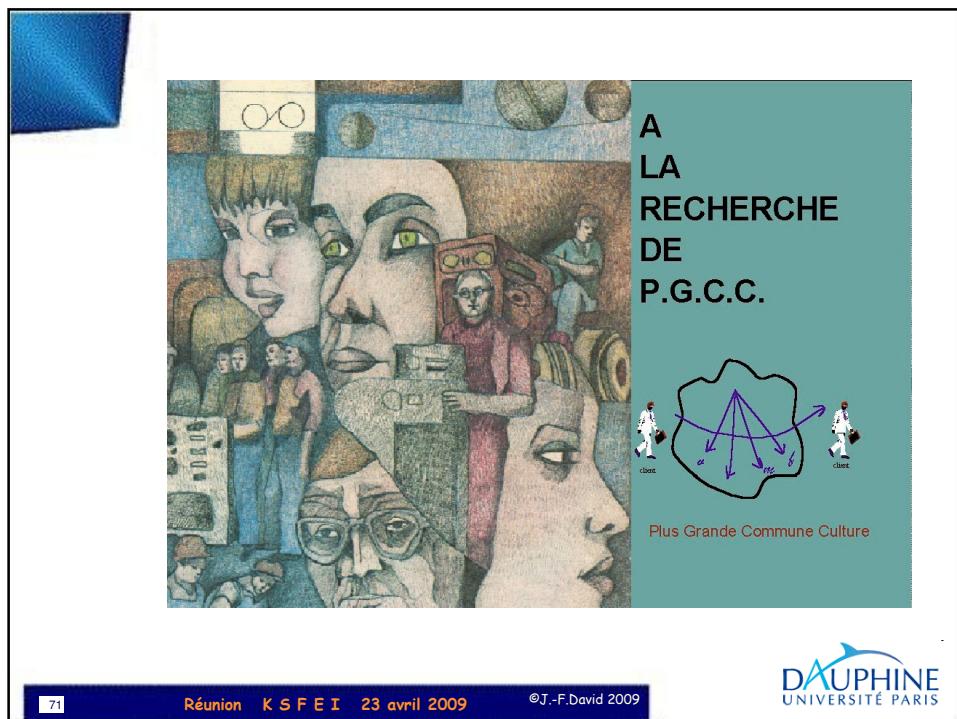
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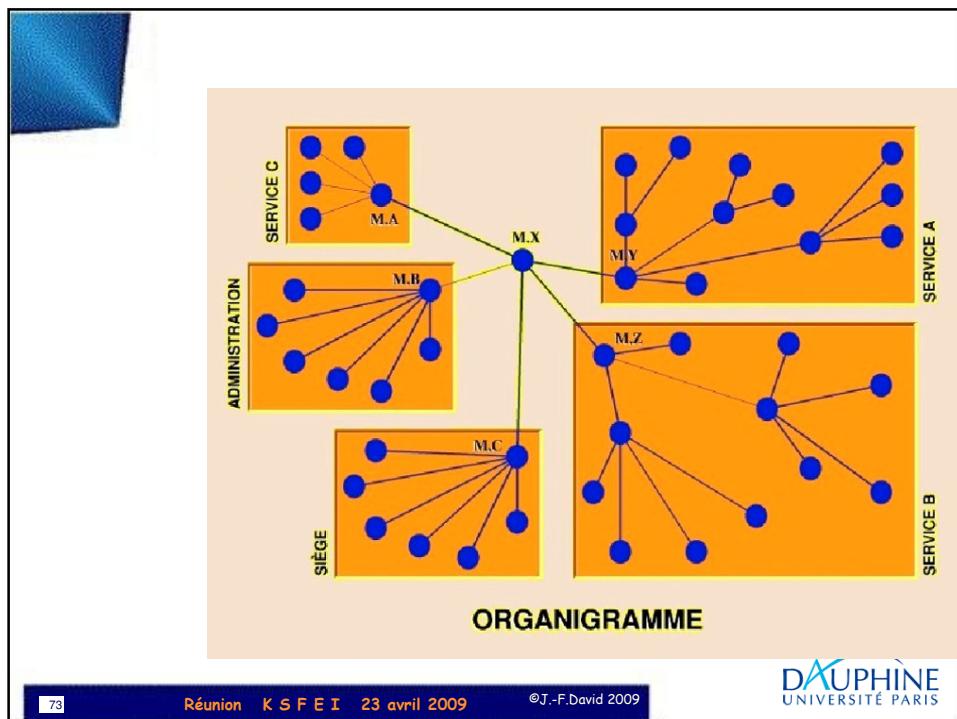
## Cultures....

Sur-mesure de masse	
Vision .....	Sur mesure
Valeurs .....	Adaptation
Culture .....	Informelle
Structure .....	Réseaux
Communications .....	Réseaux
Processus de décision .....	Autonome
Contrat de travail .....	Compétence
Evaluation de performance .....	Service
Rémunération .....	Fixe+variable
Politique Res. Humaines .....	"libre service"
Capacités .....	Génératives
Compétences individuelles .....	Polyvalence
Leadership .....	Orchestrator
Moral .....	Réalisation collective
Tolérance au changement .....	Change permanent

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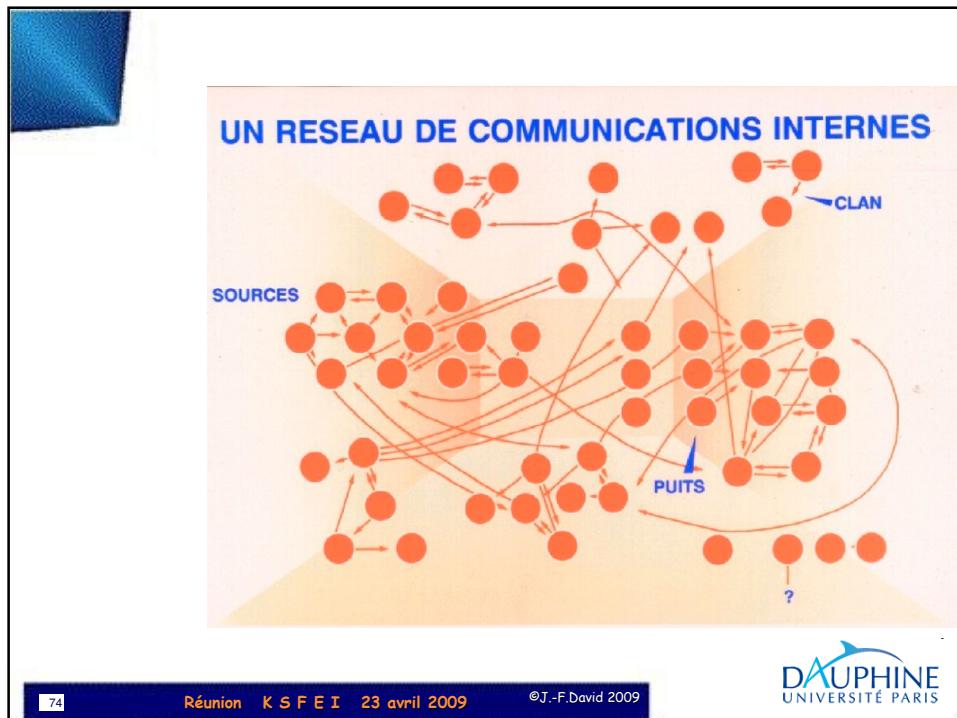


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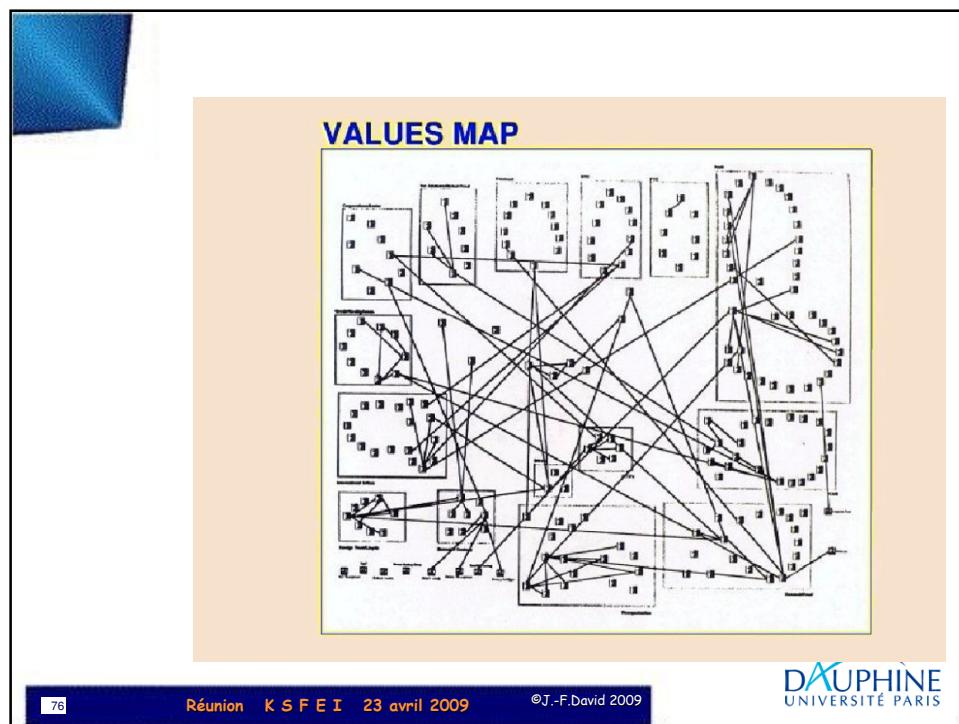
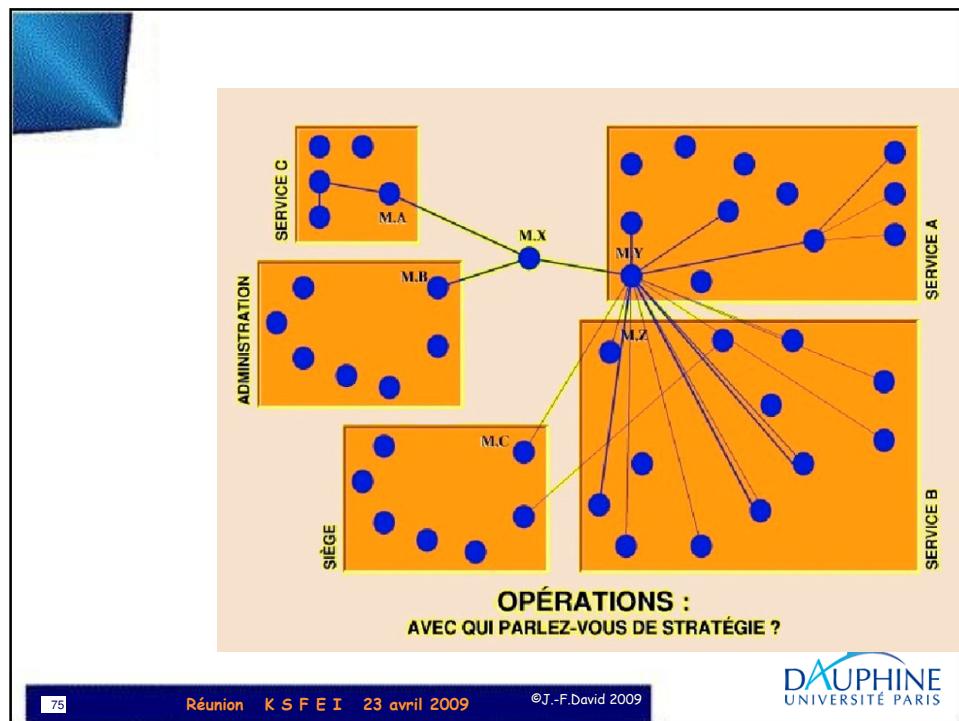


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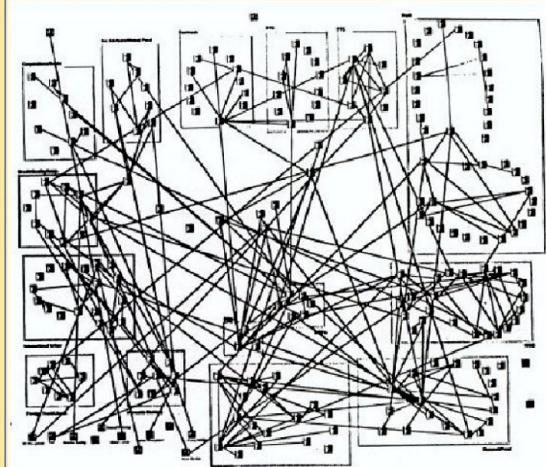
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### EXPERT MAP



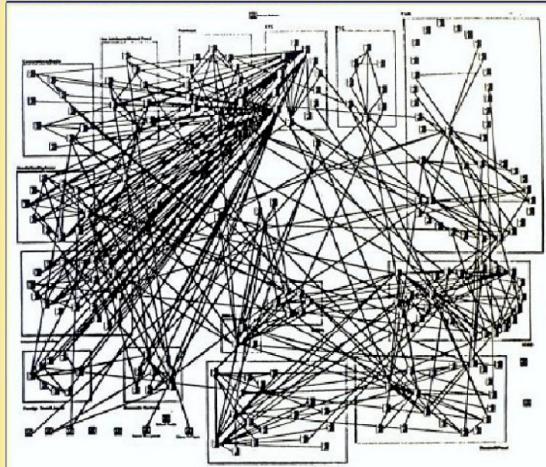
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### DECISION MAKING MAP

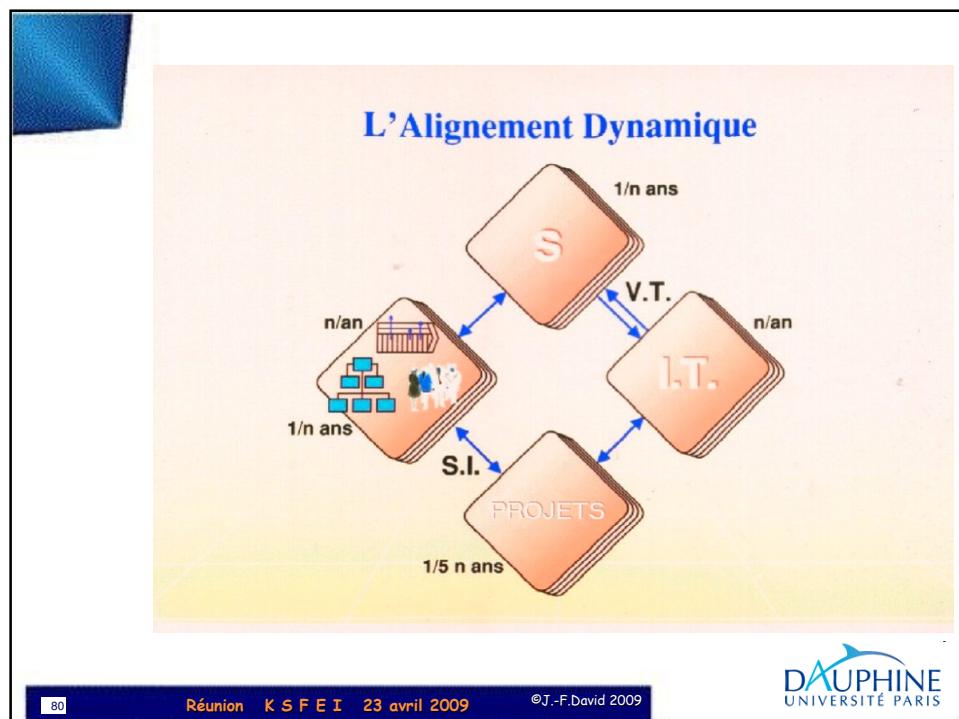
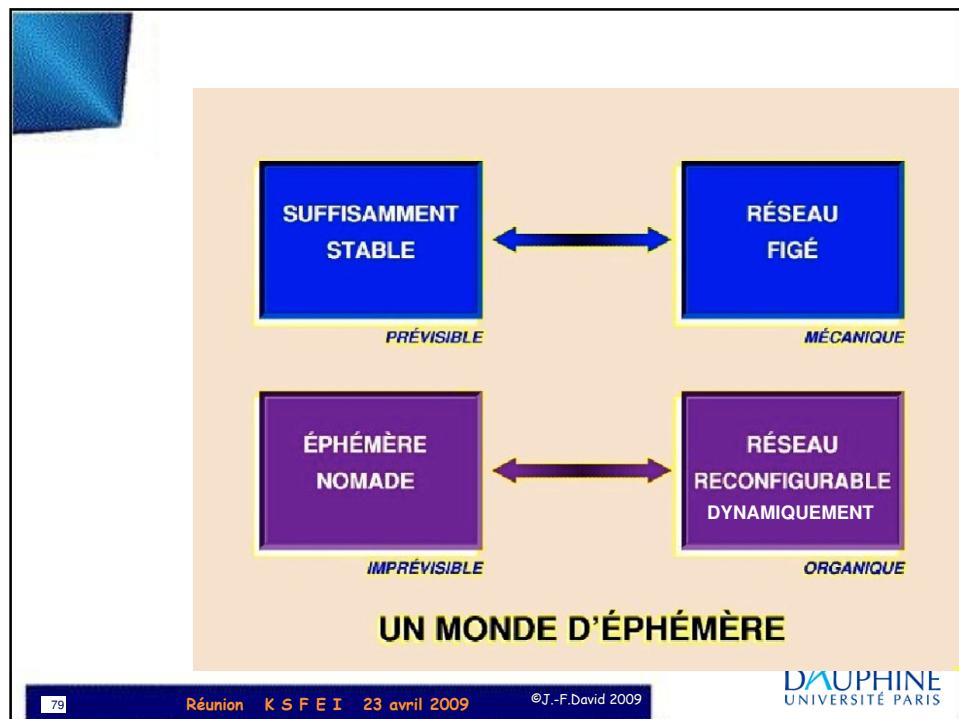


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Le rôle clé des processus....

