

Transitions towards sutainability in the case of food systems - Issues for ergonomists and ergonomics

Marianne Cerf, Chloé Le Bail, Vincent Boccara

▶ To cite this version:

Marianne Cerf, Chloé Le Bail, Vincent Boccara. Transitions towards sutainability in the case of food systems - Issues for ergonomists and ergonomics. 14th Organizational Design and Management Conference - ODAM2023, Jul 2023, Bordeaux, France. hal-04216567v2

HAL Id: hal-04216567 https://hal.inrae.fr/hal-04216567v2

Submitted on 13 Nov 2023

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés. Transitions towards sustainability in the case of food systems Issues for ergonomists and ergonomics

BORDEAUX, FRANCE

Marianne Cerf, UMR SADAPT, INRAE, Université Paris Saclay <u>marianne.cerf@inrae.fr</u>

Chloé Le Bail, Vincent Boccara, UMR LISN, Université Paris Saclay



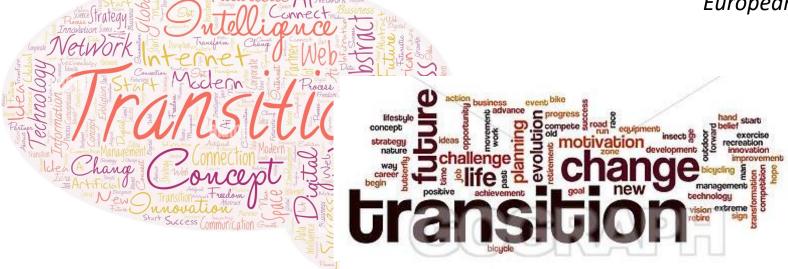




What do we mean by « transition(s) »

"Transitions (...) being evolutionary (...) it means that they are open ended, non-linear, fundamentally uncertain, and based on searching, learning, trial and error, and experimentation. Surprises and unintended outcomes are likely. Such transitions depend critically on interpretations and social acceptance. They are also conflictual and deeply political, producing trade-offs, 'winners and losers', and related struggles, as politically influential and well-resourced incumbents often resist change"

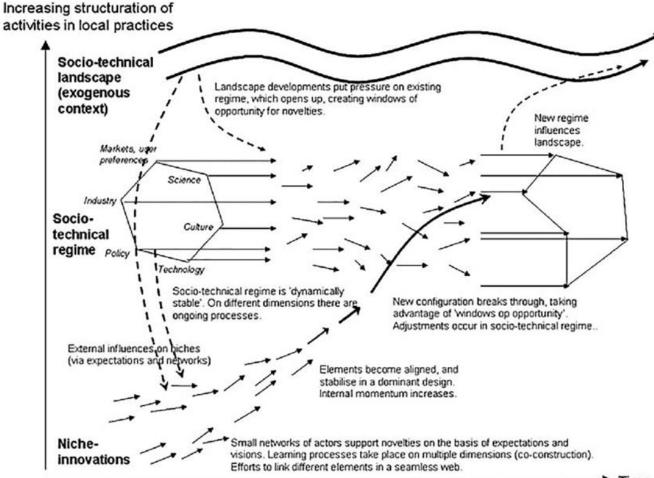
European Environmental Agency, 2018:11



Sustainable transition : MLP as a framework ?

Landscape (macro-level) Regimes (meso-level) Niches (micro-level)

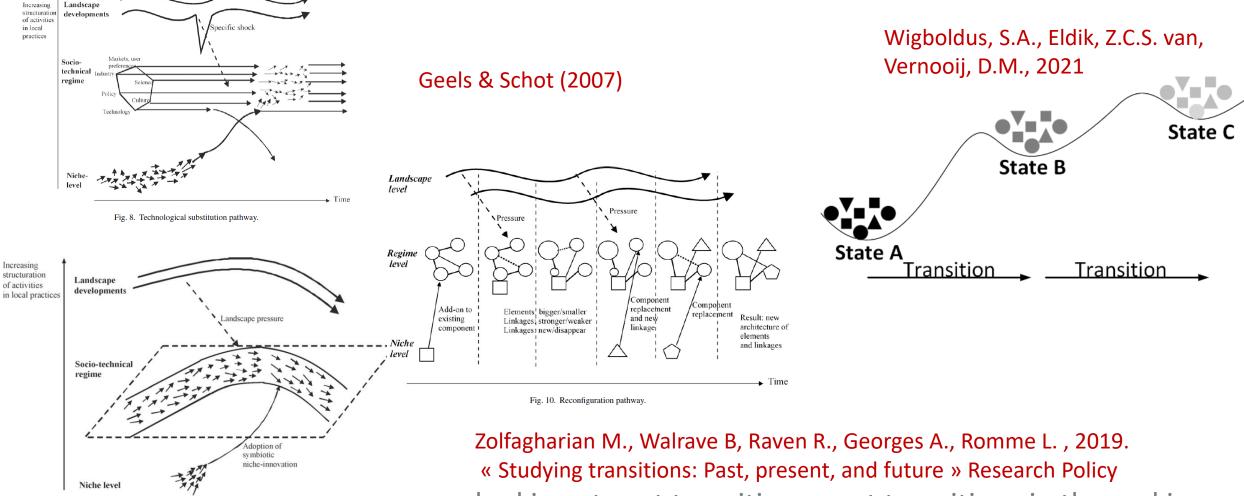
Geels & Kemp (2000)



Multi-Level Perspective (MLP) - Geels & Schot (2007)

Time

DAMS Various transition pathways?



looking at past transitions or at transitions in the making?

Fig. 5. Transformation pathway

▶ Time

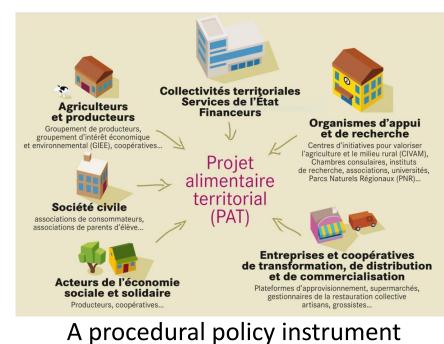


Food systems transition towards sustainability The case of the territorial food project « de la Plaine aux Plateaux »

A multi-layered object!

 A policy instrument to support transition in food systems related to various French laws regarding food, nutrition, health and social inclusion. Main purpose : relocalize agriculture and food in so called territories

by supporting the installation of farmers, short circuits or local products in canteens.





PRÉFET DE LA RÉGION ÎLE-DE-FRANCE

Liberté Égalité Fraternité RANC

France Relance : agriculture, alimentation et forêt Mesure 13 Volet B

Amplification des Projets Alimentaires Territoriaux

Appel à candidatures 2021

Actions d'investissement dans le cadre de Projets Alimentaires Territoriaux

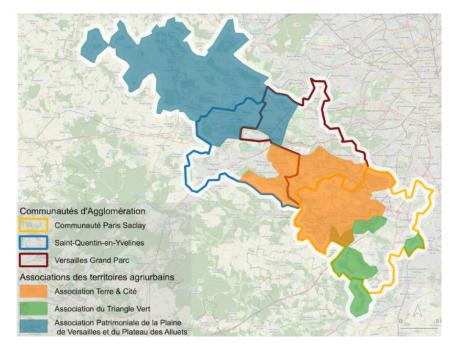
National label & contract with a regional public administration

Financial means (after Covid crisis)

https://agriculture.gouv.fr/quest-ce-quun-projet-alimentaire-territorial

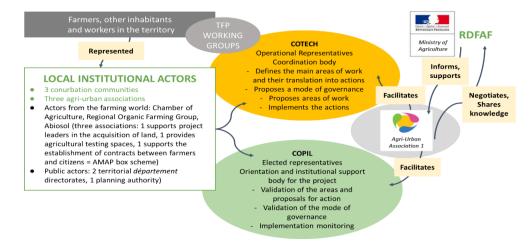
DAMS « territorial food project » A multi-layered object!

2. A physical and administrative area



3. A collective project with a common goal *Acting together to reinforce the food resilience within the area*

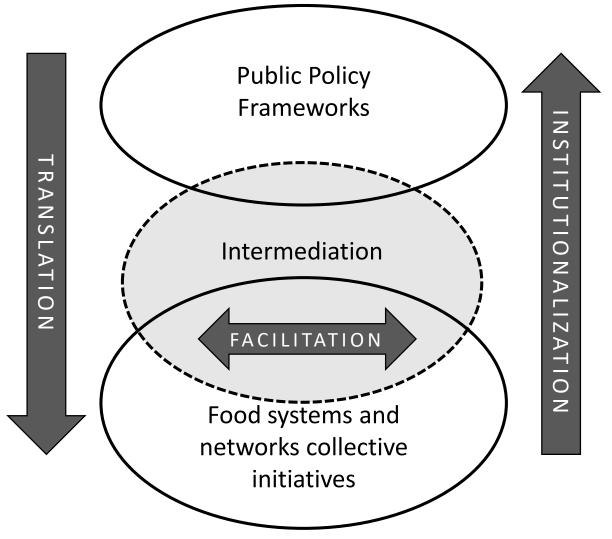
4. A multi-stakeholder governance



5. An action plan with distributed tasks

PLAN D'ACTION DU PAT de la Plaine aux Plateaux			Cibles	Périmètre géographique
Axe 1	IIMATION : Consolider la démarche partenariale du PAT et impliquer les acteurs du territoire			
	Sous-objectif 1.1: Coordonner la démarche et assurer l'animation transversale et le secrétariat	Co-construire une gouvernance partagée : Organiser les Cotech et Copil, mettre en lien les partenaires, construire des outils de dialogue territorial efficaces	Les Partenaires PAT et les acteurs du territoire	PAT
		Animer des Groupes de Travail : Regrouper les acteurs et favoriser les partages d'expériences		
		Organiser une Conférence annuelle par an		
		Inclure les communes et les acteurs locaux : ateliers intra-agglomérations organisés par les communautés d'agglomérations		
	Sous-objectif 1.2: Inscrire la démarche PAT dans les dynamiques de territoire Sous-objectif 1.3: Renforcer les connaissances partagées du territoire et documenter cette notifique publique	Articuler le PAT avec les politiques publiques existantes : faire le lien avec différentes échelles (projets des départements, de la région), les autres politiques publiques et avec la dynamique living lab (et les projets de recherche)	Communes, communautés d'agglomérations, départements, région, chercheurs. PATs voisins	PAT et autres PATs
		Coordonner des actions avec les PATs voisins		
		Actualiser le diagnostic agricole et alimentaire	Les Partenaires PAT, les acteurs du territoire et les autres PATs	PAT
		Construire un dispositif d'évaluation du PAT		
		Valoriser la démarche auprès de partenaires extra-territoriaux		Autres territoires
Axe 2	PRODUCTION ET TRANSFORMATION: Pérennis	er l'agriculture sur le territoire et accompagner le développement d'une offre alimentai	ire locale, diversifiée et de qu	alité
	Sous-objectif 2.0: Préserver les prérequis à l' activité agricole sur le territoire	Agir pour garantir les fonctionnalités agricoles (circulation, drainage, bâti)	Agriculteurs et porteurs de projet agricole Collectivités (élus et service)	РАТ
		Favoriser les innovations pour lutter contre les ravageurs des cultures : privilégier l'expérimentation sur des filères de diversification comme les légumineuses		
		Préserver le foncier agricole et intervenir sur les friches		
		Veiller à la diminution des incivilités (dépôts, vols)		
		Introduire les enjeux des logements agricoles dans les projets urbains		

How to analyse the management of a food territorial project?



The public policy prescribes compulsory tasks

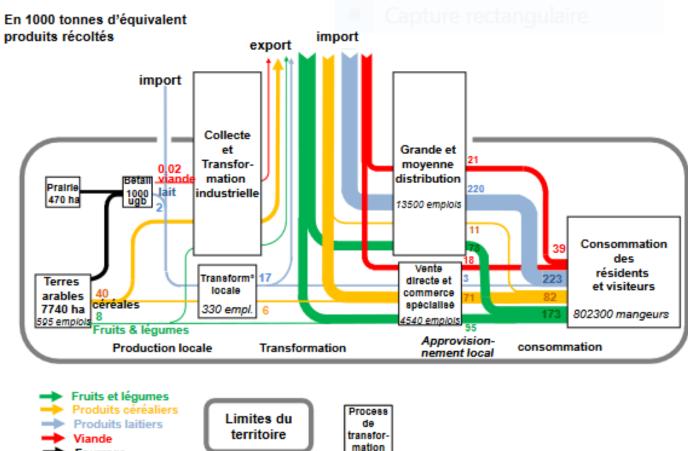
- ✓ Diagnosis of the food systems
- ✓ Definition of a governance structure
- A clear action plan with milestones and deliverables
- An assessment of the outputs and outcomes, and more recently of the impact on change in agri-food systems towards sustainability

Cerf et al., to be published, WORK

a way used to represent the territorial food system :

Périurbain de l'Ouest Parisien

Fourrage



A « cold » picture

It does not acknowledge that such flux are the result of a long history of interactions between farm land and urbanization, food production and consomption.

How do intermediaries anchor this analysis in a long-term dynamics ?

https://www.metis.upmc.fr/sites/default/files/media/projets/torsades/torsades_fiches_juin_2021.pdf

DAMS A richer picture dynamics which co-exist locally





Citizens handling contracts with small-farming holdings

A « french silicon valley » planned by the State , with circular economy Municipalities : offering job and land to farmers who are comitted to provide vegetables for canteens



Farmers offering to urbans various services (on-farm picking & selling, training)



Farmer organizing local diversification and transformation

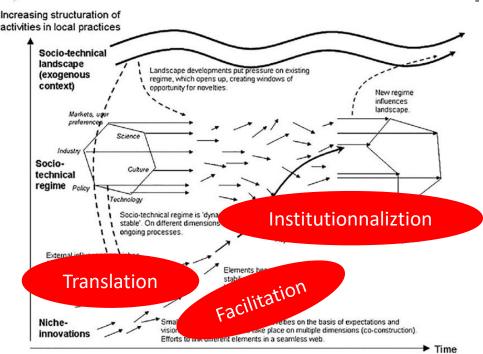
Local agri-urban associations building internet facilities to reconnect farmers & consumers



Retrouvez tous les produits locaux DANS LES FERMES ET POINTS DE VENTE



DANS Which place for the ergonomist?



The MLP can be related to intermediation processes but don't really support the way we can contribute, as ergonomist, in such intermediation processes

Participate in opening inquiry spaces in which to include

- the multi-voicedness related to the diverse systems developed to re-connect local food production and consumption from an activity perspective
- the workers and their way to perform their activities within these systems including those designing and implementing policies
- => In our case we chose to point unseen issues such as
- the activity of workers to access to sustainable food at their workplace
- the way private collective catering managers reorganize work and access to local food while faced the high competition among the various food systems wishing to access local food
- The activity of intermediaries while they collaborate to enable interactions between niches and regime food systems.

Lessons learn from this case study some challenges we had to face

Getting out companies, supporting controversial collective or/and public action by organizing multistakeholder participation from an activity perspective

Coping with the spatiotemporal relationships among systems during transition processes

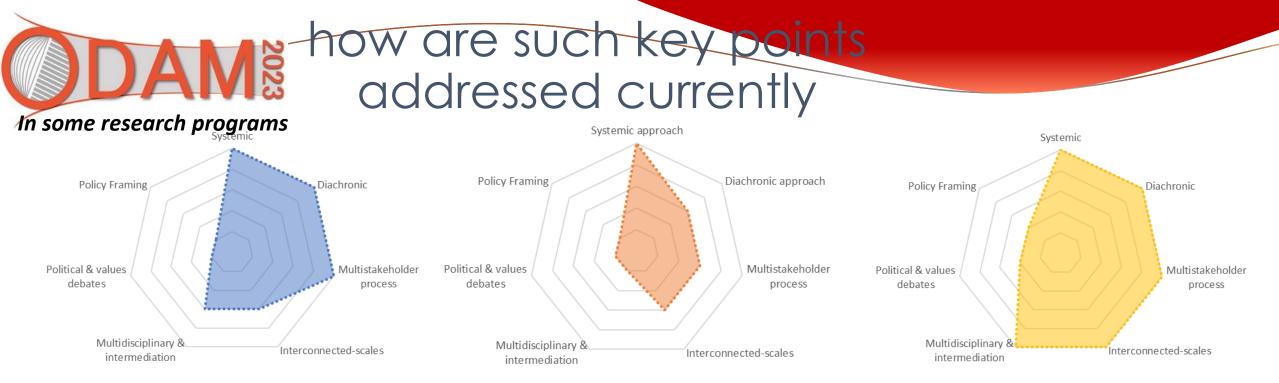
Challenges

To be one among others in shaping intermediation processes taking place in policy framing and opening inquiry spaces Address the multi-voicedness about trade-offs regarding sustainable issues in various sociotechnical systems and how it transforms all workers activities

DANS Key points to be addressed by ergonomic frameworks

In order to help ergonomists to face these challenges

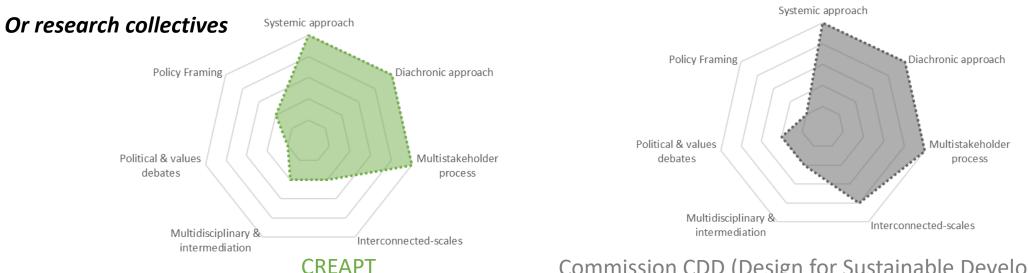
- Develop a systemic AND diachronic approach
- Support the involvement of stakeholders acting at various interconnected scales
- Enable the ergonomist to be part of a multidisciplinary intermediation team which contributes to a policy framing and implementing process
- Give account and support a multi-voicedness process on the long term in which political and values debates take place



Cultural-Historical Activity Theory

Sustainable System of Systems





Commission CDD (Design for Sustainable Development) of ARPEGE

DAMS owards an ergonomic community contributing to sustainability transition management

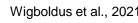
A need of structuration

- At a national (e.g. SELF) & international level (IEA) ?
- Symposium, Technical committee (as ODAM) ?
- Researchers , students and practitioners in ergonomics or within an interdisciplinary community

Which topics to discuss ?

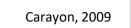
- How to represent system : limits, interaction, connections
- How to represent transition : as a multi-layered transformation of intertwined systems/ various stabilization and consistent phases
- How to analyze intermediation work and to intervene as an intermediary ?
- How to be reflective on the way we and others address sustainability
 Geels & Schot, 2007
- How to make aware transition managers of what ergonomics and ergonomists can offer ?

<complex-block>









Tasks Envir



BORDEAUX, FRANCE

Thank you for your attention

