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COORDINATING TRANSPORTATION AND URBAN PLANNING: 
FROM IDEOLOGIES TO LOCAL REALITIES

Caroline Gallez, Vincent Kaufmann, Hanja Maksim & Mariane Thébert

In Europe, the idea that coordinating transportation and urban planning is a necessary condition for setting sustainable urban development into motion has spread throughout academic and professional circles. This idea is largely supported by the observation that the only metropolitan areas which have succeeded in containing automobile use (Bale, Berne, Zurich, Karlsruhe...) are those which combine public transport development with various kinds of automobile use restrictions as well as urban planning and development measures.

Despite a consensus that it is necessary to better coordinate mobility management with the development and organization of urbanized spaces, debate over the objectives and means behind this coordination remains relatively limited. In this research project, we have examined the actors in charge of urban travel and development in four French and Swiss metropolitan areas, and addressed questions about the relationship between the city and transportation over the last forty years. How has the shift in perspective - from adapting the city to the automobile toward promoting sustainable cities and mobilities - been translated into action? And what of local issues, visions, and coordination practices surrounding transportation and urban planning? What factors favor this kind of integration, and can we identify sources of inertia and causes of public action fragmentation?

In this comparison, we have focused on the question of public policy change, considering either the concepts and the methods underlying the coordination of local urban planning and transport policy. The temporal perspective of analysis appears to be particularly appropriate for our problem, as the transport and urban planning coordination problem has persisted throughout the entire period, while referring to objectives and means of action that a priori (i.e. if we judge by the legal texts and administrative circulars which define them) have changed profoundly.

Key-words : urban planning – transportation policies – coordination – public policy change.

Introduction

In Europe, the idea that coordinating transportation and urban planning is a necessary condition for setting sustainable urban development into motion has spread throughout academic and professional circles. This idea is largely supported by the observation that the only metropolitan areas which have succeeded in containing automobile use (Bale, Berne, Zurich, Karlsruhe...) are those which combine public transport development with various
kinds of automobile use restrictions (notably parking restrictions) as well as urban planning and development measures (proximity-based urbanism, urbanization and densification around public transport stations, etc.)

In the field of urban planning, the question of the relationship between transport networks, the organization of traffic flows, and urban form is certainly not a new one, as shown by the formalizations elaborated at the end of the 19th century by Haussman and Cerdà, and in Madrid urbanist Arturio Soria y Mata’s famous linear city project (Ciudad Lineal). However, the issues underlying this problem have changed greatly, as have lifestyles and urban travel in general. Considering just the last forty years, we have gone from a vision where automobile travel had a hegemonic role in the city to one where values of urbanity, road surface sharing, and mixed-use public space serve as the basis for roadway design (Wachter, 2003). In academic debate, questions surrounding the relationship between transport network development, urban growth, and economic development, often evoked in terms of the “structuring effects” of transportation (Offner, 1993), have become both more modest and more ambitious: more modest, in the sense that network development is now considered to be one factor among many in these transformations; more ambitious because we now consider the political regulation of these interactions (Offner and Ollivier-Trigalo, 2000).

Despite a consensus that it is necessary to better coordinate mobility management with the development and organization of urbanized spaces, debate over the objectives and means behind this coordination remains relatively limited. In this research project, we have examined the actors in charge of urban travel and development in several French and Swiss metropolitan areas, and addressed questions about the relationship between the city and transportation over the last forty years (Gallez et Kaufmann, 2010). How has the shift in perspective - from adapting the city to the automobile toward promoting sustainable cities and mobilities - been translated into action? And what of local issues, visions, and coordination practices surrounding transportation and urban planning? What factors favor this kind of integration, and can we identify sources of inertia and causes of public action fragmentation?

To respond to these questions, we have employed diachronic studies of four metropolitan areas: Bern and Geneva in Switzerland, and Strasbourg and Bordeaux in France. In this sample, Berne and Strasbourg serve if not as models, at least as references for the integration of urban planning and travel policy (for the former), and the implementation of multimodal travel policies (for the latter). On the other hand, the dominant role of the car in urban development models has been questioned more recently in Geneva and Bordeaux.
This paper is divided into five sections. First, we will briefly present the four study areas, in terms of their spatial and demographic characteristics. The second section will present our methodology and choice of analytical framework. The three following sections will review the factors of continuity or change identified in the four study cities, from three complementary entry points: institutions, interests, and ideas. Finally, the conclusion will present the principal lessons drawn from this comparative study.

Spatial distribution of population in the four study areas

Bern, Geneva, Strasbourg, and Bordeaux differ in terms of their geographic location, size, and population distribution. The following factual and descriptive elements should clarify the scope (and limits) of our comparative study.

Geographic location and topographic constraints have strongly influenced urban development in these four metropolitan areas.

Bordeaux is situated in the southwest of France, at the mouth of the Garonne river. Other than the presence of large vineyards, which have lead to unequal urbanisation of the river’s two banks, there is a lack of topographic constraints to constrain urban development. The urban region of Bordeaux, which had almost one million inhabitants in 2006, is one of the most sprawling in France (table 1).

<table>
<thead>
<tr>
<th>Centre city</th>
<th>Urban region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area (km²)</td>
<td>Population 2006</td>
</tr>
<tr>
<td>Bern</td>
<td>52</td>
</tr>
<tr>
<td>Geneva</td>
<td>16</td>
</tr>
<tr>
<td>Strasbourg</td>
<td>78</td>
</tr>
<tr>
<td>Bordeaux</td>
<td>45</td>
</tr>
</tbody>
</table>

Sources: INSEE (RP) – OFS - Ocstat (Geneva)

With 122,422 inhabitants in the centre and 350,000 in its urban region, Bern is the smallest European capital, and also the smallest of the four cities in our sample. The capital of the Helvetic Confederation has developed in a series of meanders on the Aar River. The historic

1 In France, urban regions are defined through a functional approach, using a commuting criterion. The « aire urbaine » includes a primary urban pole (a centre city and its suburbs) with at least 5000 jobs, plus a peri-urban space composed of municipalities where at least 40 percent of the resident active population work in this urban pole. The Swiss and French data are not entirely comparable, because there is no shared definition of the urban region. The Swiss definition is both more restrictive and more complex than the French one. Its criteria are morphological (continuity of built environment, contiguity of municipal borders), functional (commuting), and structural (type of employment, ratio of jobs to workers). The application of both definitions to the same territory, which has been done for the Geneva urban region, shows that the French definition delimits a larger space than the Swiss one, with a comparable population. (Schuler, Perlik, Dessemontet, 2005).
centre is entirely contained by one of these loops, and access conditions are thus practically those of a peninsula.

Strasbourg and Geneva are cross-border conurbations with very different topographic contexts.

The Strasbourg conurbation is situated in the plain of Alsace, with urbanisation constraints linked to hydrographic conditions and the existence of ancient military roads. The Strasbourg urban region is much less spread out than that of Bordeaux (965 km$^2$ versus 2,872 km$^2$), and has just over 612,000 inhabitants. Peripheral urban development is structured around many small towns and cities, and was contained by the presence of vineyards.

The canton of Geneva's territory is both very small (246 km$^2$ without the lake) and almost entirely surrounded by France. This city has developed at the southwest end of Lake Geneva, within a basin surrounded by several mountain ranges, most of which are in France (in the Jura and Haute-Savoie). Using the French definition, the Geneva urban area has a just under 700,000 inhabitants, around 250,000 of whom live in France.

Because of salary and land price differentials between France and Germany (for Strasbourg) and France and Switzerland (for Geneva), national borders have played a very different role in these two cross-border conurbations. Strasbourg essentially exerts its force of attraction within its own country, whereas most of Geneva's periurban development occurred outside the canton of Geneva, on the French side of the border. Because of this, cross-border flows are much more significant in the Geneva region than in Strasbourg-Ortenau. Movements are primarily centrifugal in the first case (from the Strasbourg region outward) and centripetal in the second (from France or the canton of Vaud toward Geneva).

Method: choice of analytic framework

Switzerland is one of the European countries which, in a few urban areas over the last thirty years or so, have practiced action strategies coordinating transportation and urban planning. In Basel, Bern, and Zurich, these policies seek to reduce urban automobile use by increasing public transport supply while structuring urban development around this supply and limiting car access to the city centre. The example of major urban areas in German-speaking Switzerland has been widely publicized in the media as a “best practice” by European urban transport professionals. This situation has encouraged the export of expertise and measures inspired by the Swiss model: numerous major cities and French, German, and Italian urban regions refer to it (for example, Grenoble, Strasbourg, and Orléans in France), relying on Swiss engineering and planning firms to apply these principles locally. However, these
exports have often ended in failure, as not enough attention was paid to local differences in political opportunities and structures. It is also noteworthy that this model has not yet been successfully exported to other Swiss cities such as Geneva and Lausanne, for similar reasons. Rather than addressing the question of transferability, which would require us to refer to normative models of urban planning and transport coherence, we have chosen to focus on public policy change. In each of the study sites, we identify the conditions that either prohibit or encourage change by altering how problems are formulated or how these two sectors of public action are coordinated. To do so, we have reconstituted these four cities’ urban planning and transport policy trajectories over the last forty years. By trajectory, we mean the path taken through changes in these sectors' issues and orientations, organizational mechanisms, procedures, and regulatory instruments, as well as the principle means employed at different spatial scales (from the centre city to the entire urban region.)

Recent work in the field of political science has underscored the importance of analyzing public policy changes over the long term. According to Fontaine and Hassenteufel (2002), this historic distance allows us to better describe changes by bringing out the inertial and continuity factors characteristic of public action processes, as well as interaction between the different decisional echelons, notably the local and national scales. This temporal perspective of analysis appears to be particularly appropriate for our problem, as the transport and urban planning coordination problem has persisted throughout the entire period, while referring to objectives and means of action that a priori (i.e. if we judge by the legal texts and administrative circulars which define them) have changed profoundly.

We have opted for the analytical framework referred to as the “three I’s”, which allows us to combine three complementary classic entry points for the analysis of public policies: Ideas, Institutions, and Interests, which are often approached independently of one another (Palier and Surel, 2005). Ideas refers to the intellectual dimension of public action: the values, beliefs, and norms which influence the formulation of problems and the choice of political solutions. Institutional logic refers to the manner in which formal action frameworks (laws, institutional organization, and procedures) influence the individual decisions. We attempt to identify the cumulative effects of these mechanisms and decisions. Finally, Interests refers to the strategic dimension of public action, that is to say, the manner in which actors formulate their objectives and their demands, negotiating representation and putting strategies into place to defend them. These three dimensions were first applied successively to the four study sites with no a priori hierarchy. Reconstructing the different phases of their urban trajectories then allowed us to show the dominant role of factors belonging to one or several of these three
dimensions over each period. In this paper, we will concentrate on these local dynamics, which served as a basis for our comparative analysis.

**Ideologies and local traditions in the relationship between the city and transportation**

At first glance, these four urban areas' trajectories reveal coherent changes in the ideas, values, and norms underlying the logic of local urbanism and transport actions. In the movement from the automobile city toward the sustainable city, similarities in the arguments justifying the foundations of public intervention attest to the strength of certain general doctrines, which have spread widely through international professional circles. Nonetheless, a more in-depth analysis reveals a certain number of ideological differences between France and Switzerland, which have more or less pronounced effects at the local scale.

**Visions of urbanity and territorial development**

Urban planning and development policies in Switzerland and France refer to visions of the urban phenomenon that were initially quite divergent.

In Switzerland, the beginnings of urban planning were at first influenced by anti-urban ideologies, associated as much with moral considerations ("the city is bad for mankind") as a rejection of the political domination of the countryside by cities (Salomon Cavin, 2005). This reserved attitude of the Swiss Confederation toward the urban phenomenon can be interpreted, on the political front, as a result of federalist organization founded on the strict respect of cantonal autonomy. On the ideological side, we also find a clear influence from the ruralist doctrines characteristic of the first half of the 20th century (Walter, 1994) in the roots of planning policies. A federal law on the protection of agriculture was created in 1952. It refers to the principle of agricultural self-sufficiency, and helped agriculture take its place as a privileged sector of the economy after 1940. Up until very recently, neither planning policy nor regional policies supporting struggling territories took urban areas into account.

The rarity of land and the protection of agricultural spaces solidly imposed themselves as organizing principles in the domain of territorial development and planning, notably in the most confined spaces, like that of the canton of Geneva. The first cantonal master plans sought to densify urbanization within a central zone delimited by an agricultural green belt, which has been strictly protected since 1952. The effects of this protectionism on the coordination of urban planning and transport vary according to the time or urban area considered. Within the limited and densely populated territory of the Geneva canton, the accent was placed on the development of an intensive public transport network, and by 1925,
the canton of Geneva thus possessed one of the densest tramway networks in Europe. Almost entirely dismantled in the 1950s to make space for the automobile, it has been replaced by a network of busses, trolleys and motor coaches that is equally effective. However, this strategy of densification and short-distance service was not accompanied by restrictions on car use as it was in Bern. On one hand, there exists an old but living tradition automobile use in Geneva, as evidenced by the physiognomy of the city and the polemics which even today enter into debates on the place of the car in the city. On the other hand, interurban accessibility to this internationally prominent financial centre is essentially provided by the road and motorway network rather than rail connections, which have long been judged unnecessary to the canton's functioning. Nevertheless, increases in cross-border travel over the last two decades tend to challenge this original “dense automobile city” model, as much of Geneva's periphery lies outside the canton in France.

In France, urban questions are an essential part of the national territorial development policy, which was put in place in the 1960s. Here the major issue was not limited available land, but rather the balance between major urban areas and the redistribution of economic growth. This vision is based on both Malthusian principles concerning the growth of the Parisian region and the desire to support the development and equipment of major towns outside the capital. The urban planning and development schemes (SDAU) of the 1970s and the “new towns”, which were intended to polarize peripheral urban development, employed a very hierarchical approach to urban structure. Urban planning was also dominated by a functionalist approach, relying on zoning and the principle of hierarchy in traffic flows.

In urban planning practices in Strasbourg and Bordeaux, we see both the influence of these national planning doctrines and nuances in their local implementation. During the 1960s and 70s, planning documents and decisions regarding transport infrastructure in the Strasbourg area reveal two opposing views on the relationship between the city and transportation. The first, which was based on traffic model and accessibility experiments carried out by transport engineers in cooperation with the Transport Ministry, evaluated the need for transportation (primarily road) infrastructure based on projected urban growth. The second, developed within the planning services of the city of Strasbourg, is coherent with local urban history and its German heritage. It refers to a culturalist vision of planning which is particularly attached to the defence of architectural heritage and a clear distinction between urban and rural environments.
The ambiguous role of ecology

The idea that the success of transport/urbanism coordination strategies can be explained by the strong ecological sensibility of the Swiss is fairly common. However, an analysis of our four urban areas’ trajectories requires us to nuance this argument.

In Switzerland, environmental awareness as a global approach emerged on the national political scene at the beginning of the 1980s, in the context of “acid rain” episodes that were widely covered by the media, provoking a special session of the Helvetic Confederation's parliament. This preoccupation takes root in an existing tradition of landscape conservation born out of the confrontation between the two (aesthetic and economic) functions of nature, and a desire to identify the homeland with the alpine landscape (Walter, 2005). In the transportation and urban planning, this turn in environment policies are twofold. First, the reduction of pollution appears among the objectives of the extension and modernization project for railway infrastructure, RAIL 2000, which sought to develop a supply of intermodal and well-connected public transport. Second, the federal environment protection law (LPE) of 1983 is accompanied with the definition of noise and pollution norms, which limited urban development in zones exceeding certain thresholds.

In France, environmental protection was taken into account much later by the urban and transport planning fields, at least on the national scale. The text of the 1996 law on “air and the rational use of energy” addresses environmental concerns almost exclusively through modal shift from the car toward public transport, walking, and the bicycle. Openness to environmental problems varied from one place to another, but was rarely focussed on urban and travel questions. In the 1970s in Strasbourg, the strongest movements addressed national or regional issues such as nuclear power and industrial development along the Rhine in the greater Strasbourg region. In Bordeaux, it was not until the conflict surrounding the VAL automated metro project in the 1980s that ecologists turned toward transportation and took an active part in debates. Nevertheless, the battle was less about modal shift or urban structure issues than financial costs. With the creation of a Green Plan for Strasbourg in 1974, which sought to improve a system of green spaces within the urban area, ecology advanced into the field of urban planning in a way that was original (this process had no equivalent in France at the time) but restricted. The relative disconnect between urban and ecological issues limited public intervention to a few isolated cases geographically targeted on centre cities, which were subject to the most important degradation.
Though the weight of environmental questions in the promotion of alternative modes to the private car seems indisputable, its role in the implementation of urban planning-transport coordination policies seems more ambiguous. An analysis of the urban travel plans (PDU) required by the Air Law in France has already pointed out how weak local interpretations of the new public action referential, *i.e.* urban air quality and the rational use of energy, can be (Offner, 2003). This lack of coordination is likely due in part to the important role played by zones (agricultural or natural zones, risk zones) in classic environmental protection policy, which is somewhat incompatible with reticular (*i.e.* network-oriented) urban planning. For example, applying noise and pollution standards to construction in Swiss urban areas often meant paradoxically locating noisy or polluting industrial activities far from residential zones. In order to avoid this sort of effect, the Bern canton recently created a “travel weighting” criterion, which takes the traffic generated by new industry into account for location choice.

**Coordination and institutional frameworks: between flexibility and inertia**

The role of ideas in the change of transportation and urban planning strategies is limited by existing institutional framework, which organizes and constraints decision process.

The creation of integrated authorities, acting within a jurisdiction considered “pertinent” for problems regarding the development, organization, and attractiveness of major urban areas is often presented as an essential prerequisite for coordinated urban policy. We have found the comparison of Switzerland (a federal state) and France (a nation-state that has progressively decentralized power) to be particularly useful in testing such an assertion. Here we present two specific results of this comparison.

*The existence of an integrated transport and urban planning authority is not sufficient to set coordinated policies into action*

This observation principally concerns the two French urban areas, Strasbourg and Bordeaux, which were given the status of Urban Communities (*communautés urbaines*) by the State at the end of the 1960s. Despite the resultant cooperative, integrated inter-municipal structures, there has been no real coordination of transport and urban planning policies at a regional scale. The municipalities retained most decisional power in urban planning, while the regional institution served to develop urban transportation services and manage a certain number of major roadways. Parking and local roadway maintenance are generally municipal responsibilities. This geographic and technical separation of responsibility has been strengthened by local elected officials' resistance to the creation of cooperative structures,
which were imposed by the State. In both cases, a political pact founded on the principle of non-interference by the Urban Community in municipal affairs has managed to neutralize any requirements for cooperation. This kind of consensual operation yields an absence of planning priorities at the regional scale.

In Strasbourg in particular, the defence of municipal prerogatives was for a long time reinforced by a desire to maintain an exceptional construction law regime inherited from German law, in which the Mayor of the centre city has quasi-monarchic power. Pierre Pfimlin, president of the Urban Community and mayor of Strasbourg until 1983, was strictly opposed to the replacement of these unique municipal construction laws by common law. Strasbourg's land use plan (POS) procedure was launched immediately after the approval of the master plan in 1973, but took nearly twenty years to complete. The process was hijacked in various ways, even leading to convictions in the administrative courts. At the beginning of the 1990s a municipal team led by Catherine Trautmann re-launched planning procedures and finally secured rapid approval of the POS, without which it would have been impossible to construct the new tramway. Despite this step toward coordination, the Urban Community, though legally responsible for elaborating a collective Local Urban Plan, continues to delegate this task to the 27 member municipalities. Though the tramway is indeed an inter-municipal project intended to improve accessibility for the entire Strasbourg region, it is not connected to a shared urban development project at the overall Urban Community scale.

In the case of Geneva, segmentation of responsibilities is also quite visible, but unlike the two French study areas, this fragmentation is less geographic than technical. In fact, the canton of Geneva is one off the Swiss cantons where municipal autonomy is the weakest, and municipal influence on urban planning and transportation is quite limited. Because of its limited territory, the cantonal institution got involved very early in the field of territorial development, concentrating all planning and transportation functions at its level. Several master plans have been created since the 1950s, even before the Helvetic Confederation made this a legal obligation in its 1979 law on territorial development (LAT). Despite this technical and geographic integration, procedures and projects were increasingly sectorialized over the course of the 1980s, particularly in the transportation field. A revival of traffic and modal shift policy in the canton of Geneva at the beginning of the 1990s (Circulation 2000) made no reference to urban planning problems. From this time forward, transportation and land use plans, which were previously both part of the cantonal master plan, were created separately (Kaufmann, Säger, Ferrari and Joye, 2003).
Coordinated transport and urban planning policy can emerge in the absence of integrated regional-scale institutions

As in most other Swiss cantons, municipal autonomy is more pronounced in the canton of Bern than in that of Geneva: municipalities are responsible for territorial development, as well as the organization of urban transport and parking. The canton of Bern is also unique in that it includes several development regions, which emerged in the 1970s as communal associations involving almost every municipality in the canton. The Bern urban region association of municipalities, which adopted the name Verein Region Bern (VRB) in 1991, saw its prerogatives progressively extended over this period. Nevertheless, institutional reform giving the association greater power to address regional development problems was not begun until the 1990s, without changing the principles of free association and municipal autonomy. Any attempts to do otherwise were immediately met with strong opposition from citizens and elected officials. At the same time, following the 1993 law on public transport, the canton of Bern launched regional transport conferences in order to improve public transport supply coherence at different scales, and encourage coordination between public and private transport. The Bern Transport Conference (RVK4) was created in 1994 and includes 89 municipalities.

Integrative institutional reform thus appeared after coordination, which emerged in the 1980s in both planning practices (at the regional and cantonal scales) and the outlining of projects. In Bern, the progressive institutionalization of land use-transport coordination was the result of a compromise between the effectiveness of structures and the defence of local democracy. In fact, any increase in regional power was systematically checked by the introduction of citizen participation rights and the retention of municipal independence.

Conflict, negotiations, and compromises around the city-transport connection

Seen from the perspective of individual and institutional strategies, the coordination of urban planning and transport involves tensions, misalignments, and conflicts of interest that characterize the coexistence and joint development of transport networks, travel flows, and urbanization. From this perspective, we see coordination as local actors' attempts or strategies to regulate these mismatches, tensions, and conflicts.

Beginning with the classic opposition between two visions of urban production, that which privileges centrality (the areolar approach) and that which accentuates the development of networks (the reticular approach), we first seek to identify which kind of interests refer to each of these conceptions, and to understand their role in the evolving relationship between
the city and transport. Next we will question the weight that economic reasoning carries in the process of land use and transport policy coordination, from the example of the cross-border territories.

Networks vs. territories?
The development of networks and the diversification of mobility brought political-administrative boundaries into question, threatening to dispossess political powers whose legitimacy was built on a delimited territory (Offner, 2000). How then was coordination established between urban planning, whose approach remained fundamentally forged by the areolar vision of territories, i.e. that defined by zones and borders, and transport planning, which refers to the reticular approach in which networks and flows constitute the urban?

In questioning the importance of an approach “which relegates networks to the subaltern function of circulatory technology” within the field of urban planning, Gabriel Dupuy (1991) returns to the emergence of urban planning practices at the end of the 19th century, when urbanists’ desire for reform ran up against opposition from landed property owners, who were careful to preserve as much of their land rent as possible (Gaudin, 1989). In this context, zoning gradually appeared as a means to justify public action and clarify the rules for landowners. Expropriation through zones allowed both real estate prices and housing densities to be controlled. In other words, the areolar and reticular points of view correspond to somewhat antagonistic interests which, in different periods and under different degrees of tension and discord, resulted in either the reinforcement of border logic or the networking of territorial interests.

Two of our case studies show the importance of conflicts between these two perspectives in the production of urban planning practices. These conflicts of interest affect both how problems are formulated and how concrete solutions are implemented, for both integrated technical solutions and cooperative practices.

For example, the 1975 plan to create a pedestrian-only area and a tramway in the centre of Strasbourg was the result of a compromise between the political vision of the municipal administration, which was motivated by the defence of architectural heritage and the re-conquest of central public space, and the objectives of national technical authorities, which were expressed in terms of road accessibility improvement. Despite the fact that this project was postponed for political and economic reasons (poor acceptance of the tramway, a temporary reduction in State transport subsidies, and the business owners' hostility toward eliminating automobile traffic from the centre), it was a major step forward in the local
consideration of urban planning and transport interaction. At the beginning of the 1990s, the tramway project was re-launched using almost exactly the same right of way that was defined at the beginning of the 1980s.

Urban planning and transport coordination strategy in the canton and urban region of Bern is particularly interesting. Everything starts in 1972, after a project of urban motorway has been rejected by “popular voting” (votation populaire), in the name of the defence of quality of life. Two places in the city center were closed to car traffic. In the first decade following this decision, the municipality of Bern adapted public transport supply and car traffic regulation to these new access constraints. Facing the increase in car traffic due to urban sprawl, these measures proved insufficient. In a second act, Bern elected officials negotiated with municipalities of the suburbs in order to attenuate the outflow of inhabitants towards the periphery, thereby regulating growth in commuter flows. This is the beginning of coordination between transportation and urban planning at the scale of the VRB. In the third act, at the end of the 1980s, the canton of Bern enters the scene. Considering the lack of building land in areas well served by public transport, the canton initiated the policy of the “poles of economic development” (PDE), which aims at planning and facilitating economic development closed to the nodes of S-Bahn network. Though local actors readily declare that spatial planning and transport have been coordinated for thirty years in Bern, the history of local policies shows that coordination is an ongoing and conflictual process. It seems that the memory of this process has faded with time, aided by simplifications accompanying the spread of the “Bern model” in technical circles. The reconciliation of transport and urban planning objectives was the result of progressive changes in scale, from the centre city to the urban region to the canton.

The economic logic of territorial dialogue: the special case of cross border territories

History shows that economic reasoning carried significant weight in the development of urban technical networks, whose emergence owes much to private interests and initiative. In fact, these networks first extended their reach wherever “demand was solvent” (Dupuy, 1991). Urban landowners were generally opposed to their extension elsewhere, where these networks might induce new urbanization and create real estate value. This close correlation between network development and urban density explains why networks initially had minimal impact on urban morphology.

The rise of individual motorization in the 1950s spread access to urban road networks and thus accelerated metropolitan areas’ changes in scale. Improved travel conditions altered the
trade-offs made by individuals, households, and businesses by greatly increasing their opportunities within urban space, both in terms of real estate and workplace or activity choices. By weakening proximity constraints, increases in speed became an essential factor in the peri-urbanisation of habitat and activities (Wiel, 2002). Depending on context and time period, different lines of economic reasoning either sustained or slowed down the resultant expansion and fragmentation of cities.

The case of urban regions that span borders is unique in that salary, tax, and land price differentials have a direct impact on commuting flows, the formation of interest groups, and the kinds of confrontation that emerge between them.

From the point of view of city-transport coherence, the weight of economic reasoning appears to be relatively weak in the construction of a cross-border cooperation between the Strasbourg urban area and Kreis d'Orteneau, compared to what we observe in the Franco-Swiss case of Geneva. The recent arrival of the TGV high speed train line in Strasbourg reinforces the priority accorded to interurban connection projects: it is at this scale, more than that of the cross-border employment basin, that State subsidy requests are focussed. This follows from rhetoric that emphasizes Strasbourg's position as a “European crossroads”, referring to its role as the political capital of the European Union (Ollivier-Trigalo, 2007).

In Geneva, urban spatial and travel questions are quite present in the history of relationships between Swiss and French municipalities. Growing dysfunction in Geneva's transport system oriented cantonal priorities toward the improvement of public transport during the 1980s, and was an integral part of establishing the cross-border scale of the Geneva metropolitan area.

Since the end of the 1980s, the acceleration of urban sprawl has been accompanied by a strong increase in commuting flows between Switzerland and France, and pushed Geneva's access roadways to saturation. The creation of a heavy rail public transport system between Switzerland and France thus became a particularly pressing issue, and was integrated into the project to create a regional express network in the 1990s. A new actor called Transborder Economic and Social Coordination (CEST) intervened on the local scene, and was decisive in initiating Franco-Swiss negotiations on the implementation of cross-border public transit service. This organization, which sought to encourage concertation between labour unions on either side of the national border, defended the specific interests of cross-border workers according to a reticular logic, attempting to lessen the hermetic character of national borders. Despite effective mediation, negotiations between the canton of Geneva and the municipalities of the Annemasse urban area stalled when both parties refused to finance the line. In 1992, Switzerland's referendum decision against European Union membership
accelerated cross-border cooperation. However, it was not until the beginning of the 2000s that the rail line project between Geneva and Annemasse (CEVA) was re-launched.

We can conclude that strategic territorial planning efforts undertaken over the last ten years probably demonstrate a common desire of Swiss and French authorities to advance cross-border cooperation. The interplay of interests is shifting, and French municipalities are asking that employment opportunities spread to their territory in exchange for contributions to public transport supply improvement. However, the brusqueness with which the canton of Geneva has taken the initiative on the CEVA project does not facilitate negotiations. Discussions involve the Rhône-Alpes Region and the French State rather than the French municipalities, which do not have decisional power over rail services. When faced with French hesitation to participate in financing, the Geneva canton recently threatened to stop contributing to the “Geneva fund”\(^2\). Thus it seems that the future of CEVA, a spearhead of cross-border development policy, is not entirely sealed.

**Conclusion**

Based on this comparative analysis, what can we say about changes in the concepts and methods behind the coordination of local urban planning and transport policy?

On the level of the ideas and values underlying changes in the relationship between the city and transportation, these four case studies show both a convergence of dominant doctrines among urban planning and transport professionals, and the existence of ideological differences on issues of territorial development and transportation, based on different views of the urban phenomenon and different degrees of ecological sensibility. First and foremost, this study underscores the fact that local interpretations of general policies are diverse, and that priorities and action strategies follow local political and cultural traditions. For example, certain metropolitan areas like Geneva anticipated territorial planning and development mechanisms later imposed by the Helvetic Confederation because of particular topographic constraints. In Bern, the beginnings of urban policy change and the first measures restricting car access to the city centre also predate the rise of environmental concerns at the national level. But in the latter case, it appears to be political opposition to an infrastructure project

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\(^2\) The Geneva Fund was established in the 1970s by negotiations between the French State, the local French municipalities, and the canton of Geneva. French municipalities close to the Swiss border were facing an influx of cross-border workers residing in France, and asked that the canton of Geneva finance public amenities. The Geneva Fund is financed at the rate of 3.5% of the total salary of French cross-border workers. It is managed by a consultative commission including elected officials from Geneva's State Council, as well as representatives of the French national and Swiss federal administrations.
that was decisive, with site constraints later confirming the necessity of a rigorous linkage between transport and urban planning policy.

These various observations confirm the notion that a strong interdependence exists between the dimensions of knowledge (ideas) and power (interests and institutions) in the elaboration and implementation of local policies. According to this hypothesis, which is foundational in cognitive approaches to public policy (Muller, 2000), the manner in which an idea imposes itself in the political domain depends on the concrete conditions under which power is exercised.

Our analysis of urban planning and transport policy coordination methods also yields two different lessons.

First, a look at local policies reveals that practices allying these two sectors are diverse. Coordination takes place where we do not expect it, outside purpose-built frameworks, as suggested by a comparison of local organizational dynamics. Though this observation implies that the weight of institutions as means for political change is relative, it does not deny their influence on the structure of local individual action. The specificity of the observed policies, the manner in which they insert infrastructures in the urban landscape over the long term, the frequent emphasis placed on networks in the governance of urban territories, are all facets of this institutional continuity. However, in the domain of institutional reform, it is less urgent to invent new structures that are “coherent by design” than to reflect on the capacity for change in existing institutions and ways in which they can cooperate.

Second, an examination of actors’ capacity for negotiation and compromise reveals that temporal and spatial misalignment is a central issue in the comprehension and management of urban space. Ideals of land use-transport coherence are static, unlike the reality of urban policy, which is characterized by a lack of synchronization between network development and urban growth, constant misalignment between existing infrastructures and their uses, and actions situated within a history (Scherrer, 2004). Transport and urban planning policies are strongly influenced by the weight of past decisions, which can prohibit local strategies from immediately adjusting to strategic changes in direction. Bern's trajectory reminds us that sectorial integration is the result of a long, conflictual process, even if this fact has been forgotten locally. The issues of spatial planning and mobility regulation were a continuous source of political tension, particularly at the moment when the Helvetic Confederation decided to accord more weight to urban problems. Coordination is the result of confrontations between the areolar and reticular views of urban development, within an adaptive process that follows a constantly moving target.
These results encourage us to imagine political change differently, moving beyond the incantatory consensual statement that better urban planning/transport coordination is necessary. Recent research on local planning processes has underscored the difficulty of renewing cognitive frameworks on the relationship between the city and transport through the idea of sustainable development, evoking a crisis in expertise or the lack of territorial anchorage for issues formulated at a global or intergenerational scale (Paulhiac, 2005). The difficulty of this paradigm transformation also attests to the fact that tensions and conflicts around the question of regulating spatial mobility are alive and well. The legitimacy of local transport and urban planning policy depends on several coexisting registers: the necessity of metropolitan competitiveness, environmental protection, and the struggle for social justice. This multiplicity of referentials makes debates over the objectives and means of spatial mobility management far from clear-cut. Thus, this double conceptual and political crisis invites us to step back from traditional images of transport/urbanism coherence focussed on the relationship between (public) transport and land use, and reflect on fields of urban public action, such as housing policy. However, our case studies confirm that strong sectorial segmentation continues, even within the transport sector. Today, the idea of city/transport coherence is primarily concerned with the relationship between urbanization and public transport network development, and tends to ignore the question of development around roads. Road infrastructure construction, if not dressed up in environmental virtue (cf. discourse on the “anti-asphyxiant” virtues of large bypass motorways), can be a genuinely “taboo” subject. Urban sprawl may indeed be the antithesis of the sustainable city, but this does not make it any less a reality in many countries. By giving excessive priority to the search for structural solutions to environmental risks, urban thought may neglect the essential question of peri-urban territories and their inhabitants’ capacity for adaptation.

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