The Information Steering in Government: Information Resource Managed by Administration in Welfare Sector

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INTRODUCTION
In government, the impact of information on organizations and humans has been under increasing scientific interest (e.g. Jones, Boushey & Workman 2006). Information can indeed generate fundamental changes both to the structure, processes and management of inter-government collaboration and to the choices of public policy. As research has been done about information processing, usage and sharing, however, there has not been enough research neither about the role of information as a steering method in governmental organizations nor about its effectiveness. In current study, the information is seen like a valuable asset and resource for the inter-government collaboration that the government must power as a public trust on behalf of local public organizations.

The questions rise about the instrumental roles of information (e.g. Sbragia 2000). Hence, it can be asked how the steering strategies and the forms of steering are build up or could be structured in order to coordinate quasiautonomous public organizations? Also, what is the effect of information when used as a steering mechanism? As a result, the information steering is seen as an approach to manage with the information resource. Information steering has an effect to the actor’s behavior by sharing or transmitting the information (Stenvall & Syväjärvi 2006). In addition, the information management is seen as interdisciplinary procedures designed to provide, create, transmit and improve appropriate information systems and resources (Soeparmann & Wagenaar 2006).

An information organization (e.g. Webster 1995) can be respectively recognized as a society of public unions either supported or not by the information. The organizations in public administration confront many challenges due to the information and technology. Information has indeed a direct effect on organizational behavior. Public organizations have to realize the role of information, for example, in the relation to other steering methods. In addition to information steering, there is steering by resources and steering by norms recognized in public sector (Stenvall & Syväjärvi 2006). Thus, information modifies or even challenges traditional organizational practices and further activates to scrutinize organizational processes (Syväjärvi & Stenvall 2006). The suitability of information steering is based on view that organizations operate at least partly according to the information. The success in information usage influences on organizational decision making and coordination (rf. Casson 2001; Adams 2004).

AIMS AND OBJECTIVES
This research aims to build up a theoretical framework or model for a successful information steering. In addition, the effectiveness of information steering is under investigation. The research has focus on the role of Central government as it carries out the information steering. More precisely, the research considers steering of the Ministry of Education and the Ministry of Social Affairs and Health in Finland. The purpose of steering, which coordinates the production of public welfare services, is to power local public organizations. The main research tasks can be set as follows:

How information steering can be modeled from the perspective of inter-governmental collaboration?

How effective is information as a steering instrument and how it could be developed?

The research considers information as an instrument from the theoretical point of view, models information as a collaborative steering method, but also includes an assessment on the effectiveness of information steering. A comprehensive approach is needed when establishing information steering among inter-governmental organizations. This is partly because the autonomy and control of the public sector organizations affect the choice of coordination methods. We argue that information steering should be approached from the perspectives of traditional steering theory, communication theory, and knowledge and information management theory.

PERPECTIVE OF STEERING THEORY
Steering is an inherent part in the implementation of public policies. It can be seen as a part of political processes. After a democratic decision-making processes, the steering can be used to direct administration in order to execute the public policy. Steering power means the right, power based on status or an expertise to influence on the behavior of another operating unit. Correspondingly a steering impulse means incentives or means, such as information, that the steering unit sends to the steered unit in order to produce desired behavior. (Oulasvirta, Ohtonen & Stenvall 2002, 16-21.)

The objective of information steering is to provide information that helps service producers to develop their own operations. Other objectives may be to increase expertise, to provide more general information, and to ensure the implementation of norm and resource steering and, more extensively, the public policy.

Figure 1. Components of steering
Research is indicating that information steering can produce effects, but often these effects on the behavior of the object remain with respect to the expectations minor or deviate from the objectives (e.g. Vedung 1998, 117-118). In addition, the effects of information steering may be difficult to detect. It is also possible that a steering impulse is lost or remains completely unnoticed by the steered unit. In conjunction to steering impulses we can talk about noise (i.e. organization or information noise), which means factors that weaken or prevent the free transfer of information. These factors have a distorting or disturbing effect on interactive operation, flow of information and confidential observations (Zaheer et al 1998; Ivancevich & Matteson 1999).

METHODOLOGY
Both methodological and data source triangulation principles were applied (Patton 2002). More precisely, the research data was collected by interviews and by focus group meetings (Barbour & Kitzinger 1999). Totally 14 high-position officials from Central government were interviewed and eight experts attended to the focus group. All those were directed to people in Central government. In addition, a questionnaire (n=360) was implemented in local governments and a focus group meeting was arranged to eight managers representing Municipalities. The response rate was 45%.

PERSPECTIVE OF COMMUNICATION
Communication has traditionally been considered to deal with the sending and receiving of messages. Typical communication research objectives include the question how people understand communicated messages, verbal and non-verbal communication as operating modes, and the study of changes in the contents when people exchange messages. Information steering is, indeed, quite naturally understandable and analyzable as a matter of communication. From the system perspective and combined with traditional steering ideas, the communication is a tool for management for achieving its objectives. From the viewpoint of objectives it is possible to set four different tasks to information steering: public information, promotion of objectives, bi-directional asymmetric communication, and bi-directional, symmetric communication.

Besides system perspective, the communication can be approached from a number of other directions that help in studying the success and nature of information steering. These are for example, the organizational communication (Craig 1999), the linguistic approach (Hood 1983, 38), the semiotic approach (e.g. Vedung 1998, 107-114; Oulasvirta et al 2002), and the approach of social psychology and sociology (e.g. Gibson et al 2003).

The communication principle means a process where information steering includes exchange of information. For instance, the actors in the central administration and at the local level take turns as equal senders and recipients. It should be noted now that the function and approval of information transfer and the related interactive nature seem to depend on the situation. Alternatively in long-term development operations communication and information should preferably have more bi-directional and dialogical nature (Waterhouse & Lewis 2004).

PERSPECTIVES OF KNOWLEDGE AND INFORMATION MANAGEMENT
Information steering is connected to the idea that organizations are increasingly dependent on knowledge and information. This has been studied in organization and management theories within the areas of information management, knowledge management as well as the management of so called expert organizations. Information can be loosely defined in public administration as knowledge of the facts, values, and ideas that help in the implementation of things. Some researchers (e.g. Adams 2004, 30) also include in information the separate information element of public politics, such as political programs. Information steering can, indeed, be used for strengthening organizations. Thus organizations can combine understanding, generate information, and develop decision-making.

Many questions that have been analyzed include the different elements of information and their relations to each other (e.g. data, information, knowledge, wisdom). The more advanced information steering is the more it has been developed in the direction of knowledge and wisdom, and the more the organizations also resemble organizations that are able to comprehensively utilize the information potential. In this conjunction we also talk about information management, which means the overall management of information, operating processes, and information technology (rf. Sena & Shani 1999; Syväjärvi & Stenvall 2006).

It is essential that the conveyed information is true and accurate. Thus, the effective information must be reliable (Pfeffer & Sutton 2006). In this case attention is paid on, for instance, the fact whether the information also contains other factors than just those corresponding to the desired political will. One consideration of information quality is also the extent of its contents. Information is often conveyed solely on what should be done. Another, wider view is also that information steering should tell how things should be implemented (Gelders 2005, 377).
is not well taken care. Elements inducing trust and mistrust will reinforce each other. The information steering can be seen, together with its deepest goals, as an element to develop more interactive inter-governmental collaboration. The quality of information is also one critical factor. Sanderson (2002) has pointed out that a problem in public administration is the lack of information quality about social conditions in which the information will be applied.

The effectiveness of information steering in somewhat blurred as steering does not have a collaborative and strategy-based logic. The outcome is thus uncoordinated, unbalanced and unfiltered. In current research a challenge is to model information steering from the perspective of inter-governmental collaboration. The shaded arrows indicate how information steering consists of four major elements that interact and are in relation to each other. In addition, the dashed arrows indicate how information steering challenges to effective inter-governmental collaboration between the Central and Local governments.

Hence, the information steering can be developed and modeled by the means of information management, trust-based communication, and also in good synchronization to traditional steering methods like norms and a mixture of resources. Information as an instrument requires overall competence with information management (cf. Sooparvan & Wagenaar 2006), it requires careful planning and action with two-way communication (Waterhouse & Lewis 2004), it requires the notion of trust and mistrust (Zaher et al. 1998; Harisalo et al. 2006), and finally it requires well coordinated harmony that takes into account the deep nature and needs of various other steering methods (Sbragia 2000).

It was noticed that the information steering without logic and systematic is not very powerful approach. The information steering seems to have significance for two different levels of information processing that are individual and organizational levels. In order to gain the information steering as a useful part of public policy information processing should be modeled one way or another. In parallel to previous arguments Jones et al. (2006) have showed the information-processing approach of policy making, which focus on both complex environment of policy-makers and on their cognitive capacities.

Finally, organizations are always operating with more or less deficient information. This was noticed already in 1940 by Herbert Simon (1977) as he introduced the bounded rationality. Due to a number of situational factors, such as limited time or intelligence, it is not realistic to assume that any operation could be based on complete information. Information steering is thus inevitably accompanied by a shortage of information between the conveyed information and the demand. This argument is supported by the thematic of information and organization noise presented in conjunction to the theoretical framework.

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