## INSTITUTIONAL POLICIES ON GEOGRAPHICAL INFORMATION SYSTEM (GIS) STUDIES IN TURKEY AND A PROPOSAL

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- 5- CONCLUSION

New technologies can be applied in every branch of occupations nowadays called information age and save time, labor and cost for the users. Founding Information System interesting all occupation branches is one of the most popular work fields.

The studies on founding and applying spatial based Geographic Information System (GIS) by both private and government institutions in our country are increasing rapidly. Today GIS or Urban Information System (UIS) applications are being used by various institutions such as TAKBIS (Turkish Land Registry and Cadastre Information System), MERNIS (Central Population Information System) and E-DEVLET (Electronic-Government) but in the past it was only mentioned. However, these applications cause confusion in terms of data standardisation and institutional benefits.

Namely, Urban Information System used by municipalities is not coordinated with the GIS used by Turkish Land Registry and Cadastre and other institutions. The fact that there is not an accurate database prevent to establish an institutional structure, to share information, and to coordinate today.

In this study, the applications which are called GIS in Turkey were examined. The institutional approaches re-organizations, coordination and data standards were studied and we suggested

There are many institutional structures having the purpose of civil service in Turkey. They generally perform their present activities appropriate to classical comprehensions. The institutional preferences in institutional goals, comprehensions, methods, relationships with other institutions and etc. are regarded with great importance and other services and relations with other institutions can be regarded with minor importance.

At the same time, institutions are in re-organization research in order to present appropriate service to new social needs and expectations. It is observed that the usual institutional preferences are regarded with great importance in the re-organization studies that are compatible with the necessities of the present era. Because of their properties, preferences and resistances to protect their existing structures, it is evident that there will be experienced difficulties in achieving the goals to form institutional structures and understandings compatible with this century.

# 2- THE PRESENT CONDITION AND ANALYSIS OF INFORMATION SUBSTRUCTURE IN TURKEY

There are many institutions aimed to provide national needs in Turkey

Instead of forming goal and application accordance necessary in present studies, there can be met opposite results of each study. Having had great confusion in the past, studies are still continuing today with their similar properties. The list of some institutions in Turkey active today in business on spatial and non-spatial substructure is given in Figure 1.

Figure 1: Institutions Studying with Information Dense Information in Turkey



As it is seen in the figure, the basic structure of each unit in turning into an institution is the formation organized for various goals. The general determinations given in the following titles are made in a study performed to determine the condition of existing structure.

The confusions related with Information System Concept, Formation, Keeping Up-to-Date and Supply of Needs take place in the present system.

The thought of considering the existing studies with an Information System Concept has not been formed. This situation prevents to take information and resources with sufficient properties

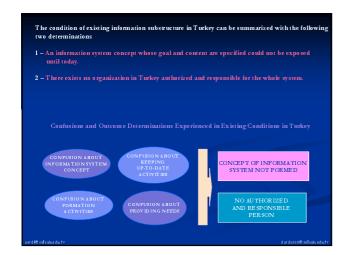
Most of the needs cannot be supplied from a definite center that institutions generally try to supply their needs by special solutions without making any relationships with the other institutions in Turkey.

Nowadays, when the studies of public institutions related with collecting information were examined, it was observed that the classification of the produced information was not made, by who and how the information will be collected was not defined and the information sharing rules were not formed sufficiently.

A master plan concept cannot be put forward in order to take system services to all over the country. While taking services to the whole country, not making time planning, not determining need and goal relationships, not making human and hardware projections and not having any responsible person in the whole system over the country cause to have coordination problems and emptimes

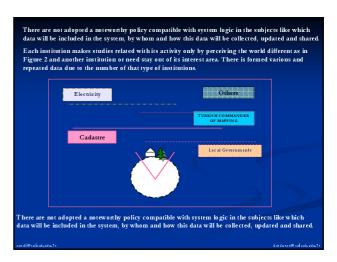
Updates of collected information parallel with time and changes have great importance besides collecting, storing and operating data in Information Systems. Present information substructure not being used by institutions and not serving the needs expected from the system is one of the experienced confusions.

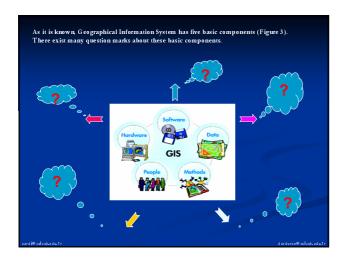
The qualities of information in the existing system does not let decision organs take reliable decisions. Some information existing in the system does not have the quality to be a base to other activities and usually cannot serve the needs of its institution. Since a systematic structure necessary for updating information cannot be established, there will appear many new problems.











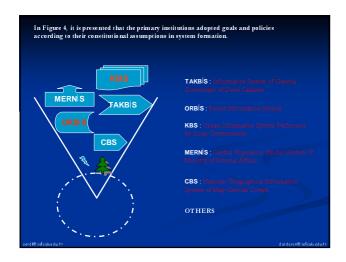
It is observed that there is no duty compatible with the system logic and no common policy about the collected data. Besides not making any classification for the collected data, there is not considered any systematic approach about the subjects of which institution will collect which data and according to which rules the update, security and sharing of data will be made.

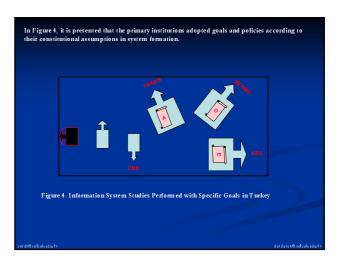
As in the existing structure, there is not behaved compatible with the era for the subjects like formation, keeping up-to-date, sharing, serving needs and the system logic could not be completely settled even if it takes place in their names.

Those problems continue inside the whole system beginning from data obtaining stage yet. There are problems caused from institutional comprehension of each institution, managerial approaches of them in formation activities and not having data of a definite standard but produced in various data formats or formed in various standards in technical meaning.

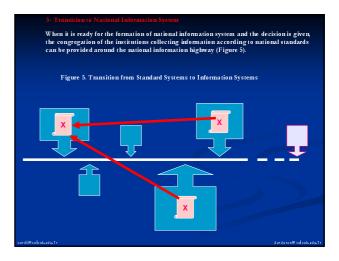
When there is asked a question like "Mad is the resource Falles?" about these components, it is difficult to say that there is a reliable plan, policy, volition or result even only about a subject.

When the data concentration and sharing obligation in an ideal Geographical Information System is considered, it seems to be impossible to achieve reliable results with the studies performed in today's comprehension.









The movement of all institutions in the country with this point of view means

"A NEW REORGANIZATION" in means of institutional structure and professional component logic.

SCONCIESION

There are met many confusions in the existing information substructure of Turkey. There are considered many new goals and studies in order to benefit from developing new information technologies and opportunities. The institutions in Turkey are continuing their usual policies under the name of "information system" by regarding their institutional priorities with great importance in their information system studies performed by them as a necessity of today.

There are also met many confusions during the formation of information systems, since national standards are not considered and no sanction is enforced in information systems, in order not to let this confusion grow and to perform the formation of national information system immediately, the national standards should be immediately determined and all the studies in the country should be performed appropriate to these standards.

Since data transfer and sharing will be very easy after having standard data in digital media, and then a re-organization will be possible.

This re-organization will be possible when profession groups, institutions and lawmakers want it and work together. This will be a re-organization. This will be a real system. This will be a deliverance from confusion.

