

Application of WebGIS in the private sector

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Abstract:

The information society is going ahead rapidly. Especially the Internet technology is the important that mediates the information society. The application is provided not only the public organization but the private sector as the business development of CRM (Customer relation management), ASP (Application services provider), the internet technology opened a new GIS world. I will introduce the WebGIS in Japan and Geography network that ESRI developed the WebGIS as global scale in the private sector.

1. Introduction

IT technology ISO/TC211 that is provided the international standard of geographic information is indispensable to the latest geography data processing and be advancing the standardization from the management to service of the data regarding geography information. It is about to materialize the interoperability by the data exchange, Web that used the Internet by open environment from the view point that put on OGC (Open GIS Consortium) and IT technology that are doing the international standardization activity that similarly almost left it with this organization.

It is the network preparation of international geography information, beside it introduces ASP (Application Software Provider) for the local government that I am doing with the position of the private enterprise here, and the ESRI company as the goal that is the exclusive agent inside Japan of ESRI products. I want to introduce about Geography.net.

2. Configuration of the system

The function configuration of ASP for the local government is composed of the following sub-system.

1) Facility guidance service

Electro handbook services that town finds out the information, that wants to know the electron by using the map

Facility map services that information of the facility is displayed by the link with HP of the local government.

2) Map delivery services

Map data of various kinds map delivery service of local government possession is delivered can talk on

3) Electro proposal services

the map with the electron proposal box service, citizen and local government staff can talk with each other using the map.

That it depends on the local government which delivered it by using these functions, I am doing the information management, citizen service of city planning information management, disaster prevention information management etc. This mechanism has been shown in figure-1. The city gains access to DB of PASCO CORP. without establishing DB for map DB, service personally. The citizen gains access to DB of PASCO CORP. as if he gains access to DB that is in a city, so to speak, and inspect the administration information of the city and also can send the order of executively to the city freely. DB is possible application every day for 24 hours, and even the holiday the citizen can receive the service and also, the street lamp that the bridge damaged became possible to transmit the order to the city such as the likes that cut local government.

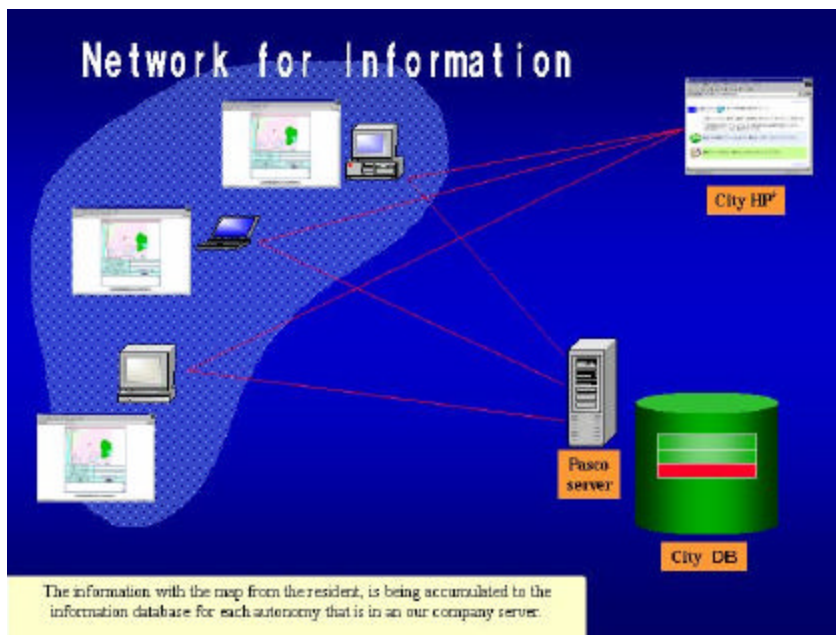


Fig.1 Network for Information

3.Function of GIS

In the function of this system, the function regarding GIS has prepared the following.

- 1) enlargement/reduction
- 2) scroll
- 3) movement function to the center position of the display screen
- 4) town searching, feature searching
- 5) land number searching function
- 6) change selection function of the display map
- 7) aerial photograph display
- 8) optional setting of screen size

The system preparation team as for the service to local government, there is the following thing.

- 1) for 24 hours operation
- 2) data renewal
- 3) correspondence at the time of the system reduction
- 4) correspondence to at the time of network jam

The distance between government became a nearer with the citizen by these services. Figure shows the screen on the information management and operation of each.

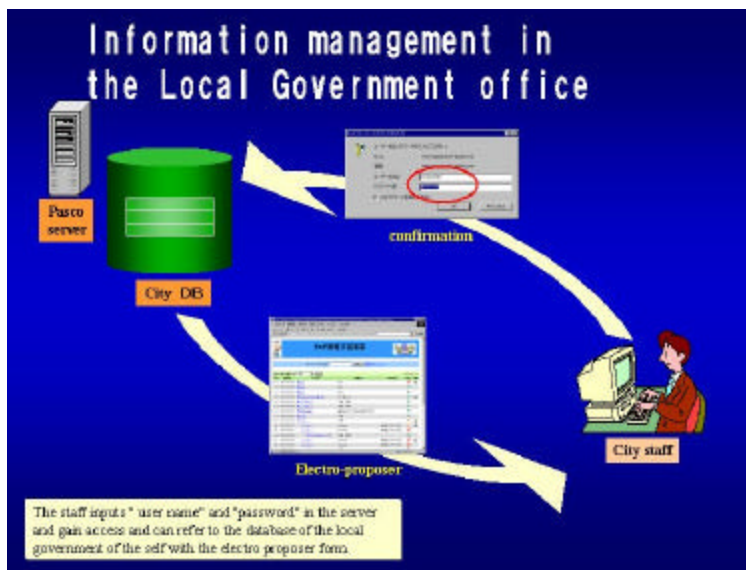


Fig.2 Information management in the network

4. Geography. net

Figure-4 be Geography that the ESRI company of America is global WebGIS that made. It is the top of screen of the HP. It is famous even that this network is the one that was developed the data

exchange of the user of GIS in the world to the purpose and there are many the accumulation

and users of voluminous data. It is thought that even map data becomes a colorful thing more and more



Fig.3 Operational imagery

and even data quantity increases, through the means that the user increases from now on, although there is not the map data of Japan yet.

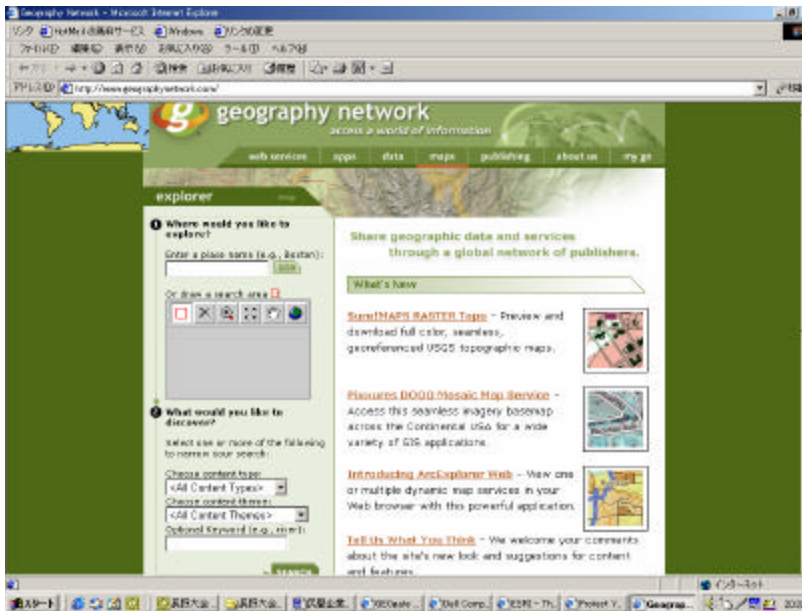


Fig.4 Geography. net

References,

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