

22–26 Ap**ris^e, Hamoi, Vietna**m

"Grospatial information for a Smarter Life and Environmental Resilience"



Integrated application of separately managed GIS resources for land administration

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Japanese NSDI

- Basic Act on the Advancement of Utilizing Geospatial Information (2007)
 - Positional reference
 - ➤ GEONET (GNSS CORS with 1300 stations)
 - ➤ Unified precise coordinates
 - > FGD (Seamless Vector map as reference of position)
- Data and Tools
 - > e-STAT
 - ➤ Geospatial Information Center









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e-STAT



ORGANISED BY





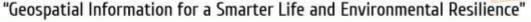
PLATINUM SPONSORS

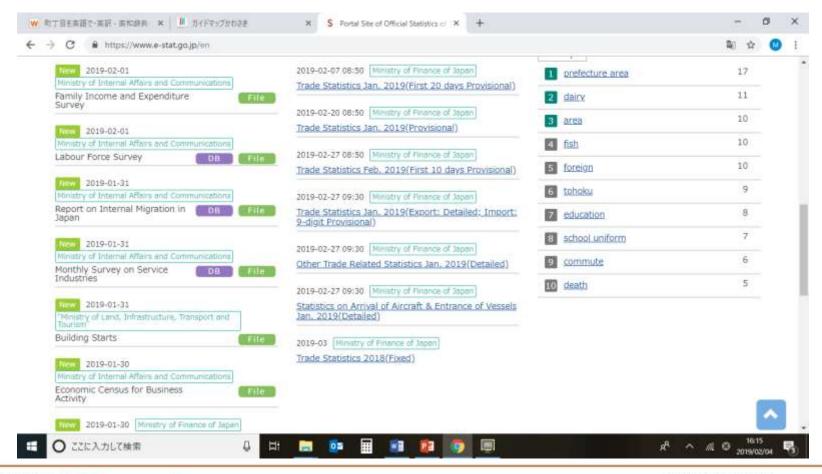






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An example of e-STAT data -Statistics from Economic census-

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Distribution of business – if we check temporal change, effect of development or regulations can be seen We can map data through address.







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Geospatial Data Center





There actually exist many data in collected, owned data sets which are

Geospatial Data Center is established to be a gate way to access such datasets through public private partnership. Thus, some of the data sets are not free of charge.

Even so, it is a great advantage that we can access those data.













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Effort of Municipalities and Prefectural government

- Municipalities and prefectural government also act along NSDI act
- Nowadays we can find data related to local administration in their web site









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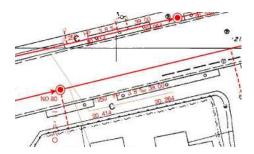
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Example of accessible municipal data



Percentage of senior residents



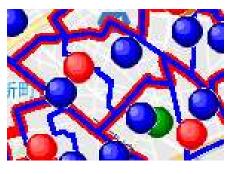
Sewer map



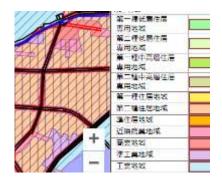
Population density



Land price (spot and route)



Primary and secondary schools and school area



Zoning map













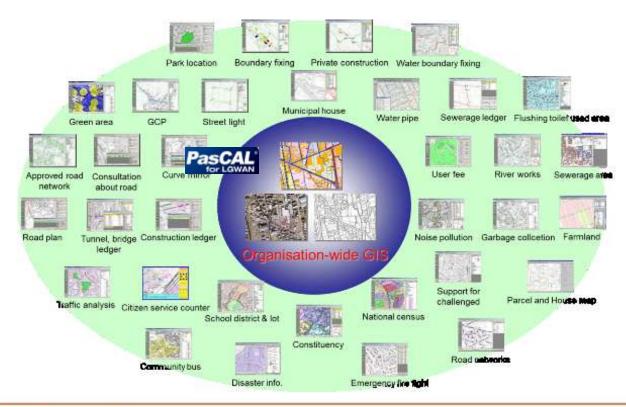


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Integrated application on platform on a secured WAN



After Pasco corporation











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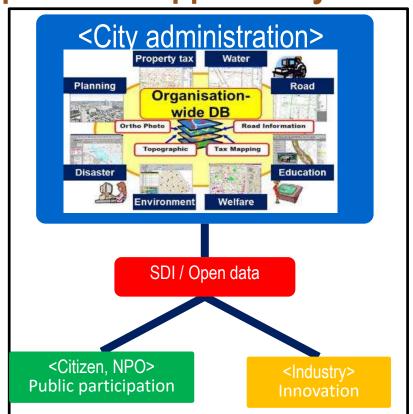
Smart utilization of open data supported by NSDI

Increase performance of city administration Multiple party participation

- Local government
- Industry
- Citizen, NPO

Sustainable system

- data production costs
- unnecessary license fee
- Share knowledge



After PASCO corporation

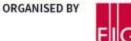










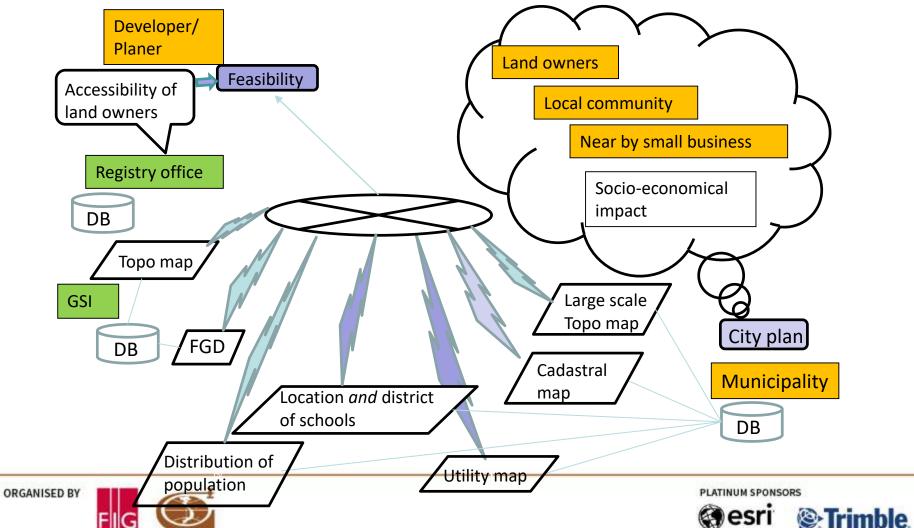
FIG WORKING WEEK 2019 22-26 April Case study High rise

condominium -

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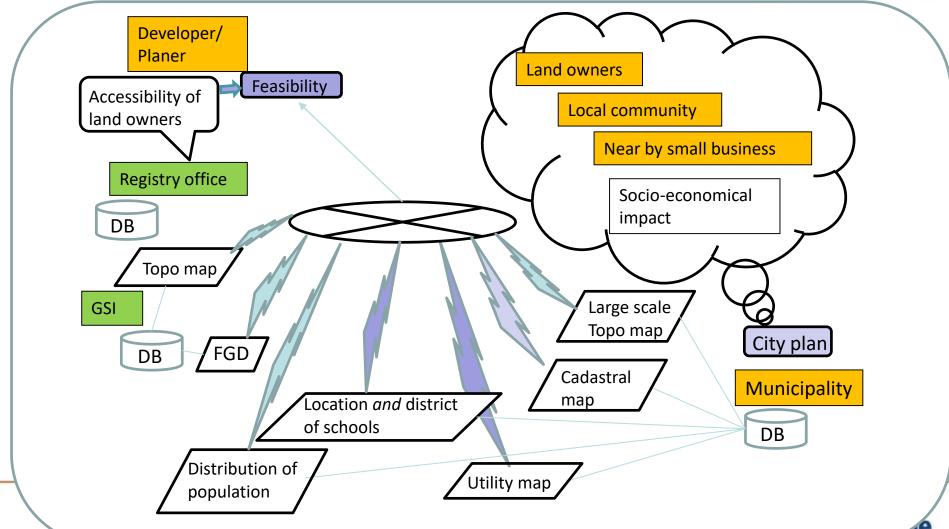
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Case study – High rise condominium –







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Groups and their main concern

Developer: Smooth acquisition of land

Smooth release of product to market

Good sales and good reputation

Municiparity: Convinient and active town

Increase of residence and increase

of tax income

Capacity of utility

Capacity of schools

Public transportation









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continued

Old resident: Change of wind field,

espetially strong wind caused by

high rise building.

Shadow created by large building

Traffic congestion

Small shops near by: Suck up customers by large scale

commertial facility in new

buildings

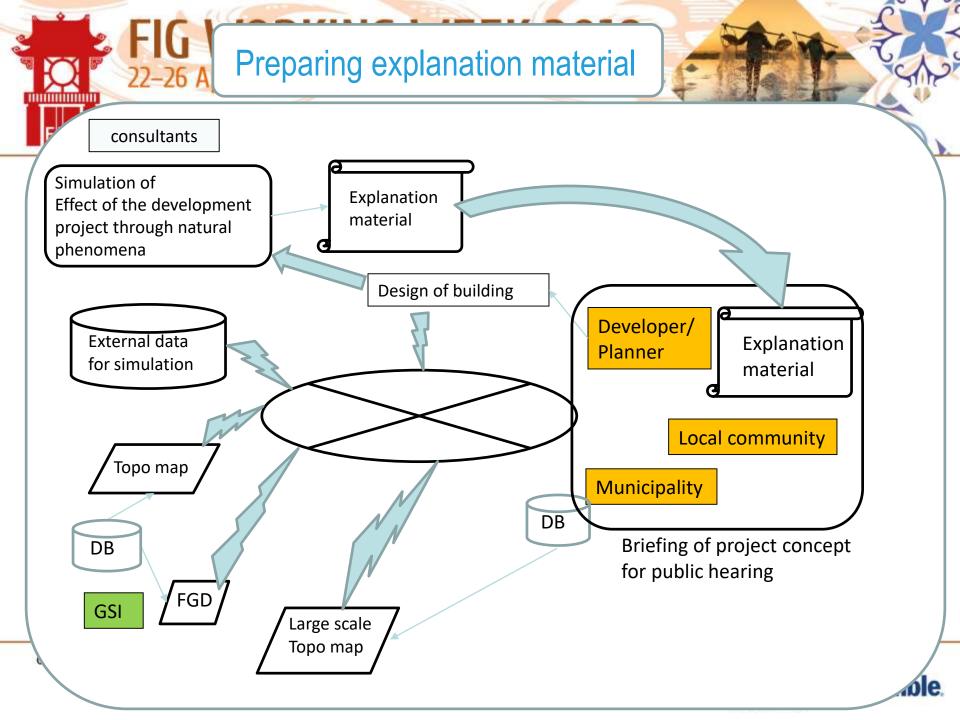
New resident: Traffic congestion

Nursery











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SDI and Secured LAN ease Land Administration through integrated applications

Thank you





