





In this part, geocoding is performed using address or zip code information included in public data, and SFDIC is constructed. Geocoding is a technique for obtaining geographical coordinates using information that can be converted to a location. Since Korea implemented the road name address system in 2014 and used the parcel number system before, the address information of the public data is stored in either or both. Therefore, in order to convert public data into spatial data, a geocoding module to support both address and zip code is required. Using the coordinate information converted through this module, point type spatial data is generated. The SFDIC thus constructed can support various disaster management activities together with the SFDI map.

### 3.2 Linkage system prototype

For the verification of the process described in the previous section, it has developed a prototype ecosystem consisting of server module for data collection and conversion and web system for spatial information verification. The test data collected the data of the hospital, the public health center, and the general hospital in the health & medical area, and converted it into the spatial information and constructed the SPDIC. The constructed data can be visualized as a map based on the web page as shown in Figure 3.

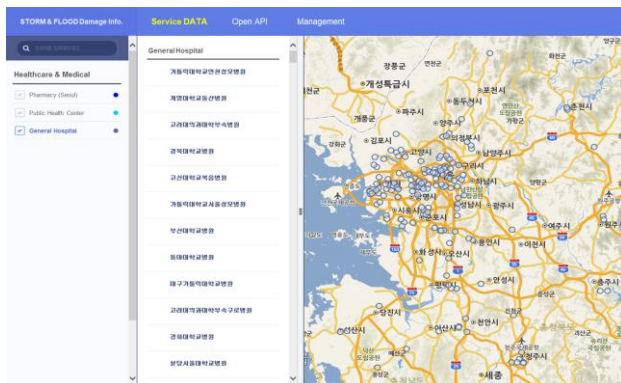


Figure 3. Figure placement and numbering

## 4. CONCLUSION

The SFDI map can be used not only for insurance information management purposes, but also for various policies related to prevention, preparedness, response and recovery of natural disaster. To do this, it is necessary to construct various related disaster information, which is related to various disaster information, in addition to SFDI map production. Open public data is an important source for efficient disaster information content construction. In this paper, a method for constructing SFDIC by collecting and converting this data has been proposed. Public data open policy is a global trend, and more data will be opened in various ways. Therefore, various researches are needed to utilize this data as disaster information.

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