Design IT system optimized for Science Museum– Preparing for Big Data.

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People learn a lot of things through experience. And their needs is becoming increasingly various. So exhibit require complicated and complicated structure to experience exhibition. Exhibit is not simple anymore. There is various task to manage exhibition. And that tasks make a lot of data. We need integrated IT system optimized for Science Museum to manage them efficiently. So I designed and created Exhibition integrated System (EIS) in 2016. Our BNSM is using it successfully. So I will suggest integrated IT system optimized for Science Museum.

EIS is composed of 3 parts. First is exhibit DB. The exhibit DB can manage all data even to design. And DB can consistently manage historical Data of exhibit. This is a base of whole EIS. Second is maintenance of exhibit. Without integrated system, we cannot help using several means, e.g. calling, SMS, SNS messengers, in person, etc. We can't control all requests of repair. Using a mobile device, we can request repairs everywhere on sight in EIS. And EIS inform repairman and we can check process of the repair. We share all image and text with maintenance of exhibit by PC and mobile. Therefore we automatically can get historical data of maintenance. Third is managing the exhibition. Various functions are required for efficient managing the exhibition, e.g. reporting dairy statistics, ticketing the riders. And the various functions make large amount raw data. If we extracted from it, we get information to make good decision for management Science Museum. In future, I will apply raw data collected, using Big Data technology.