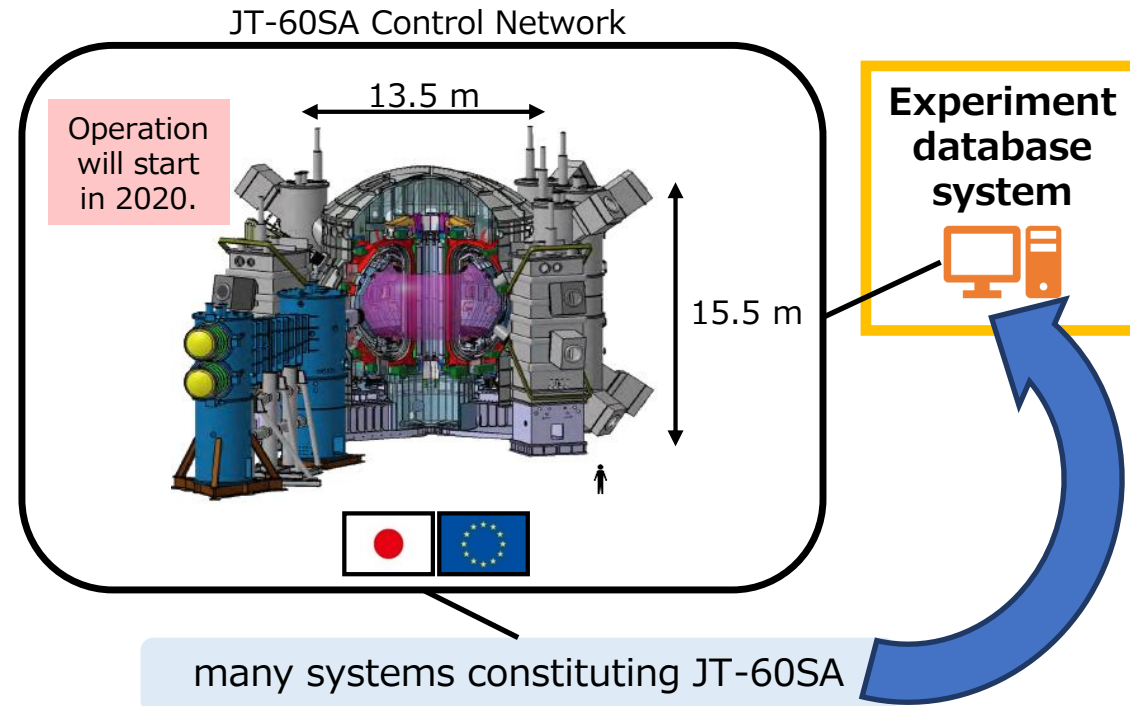


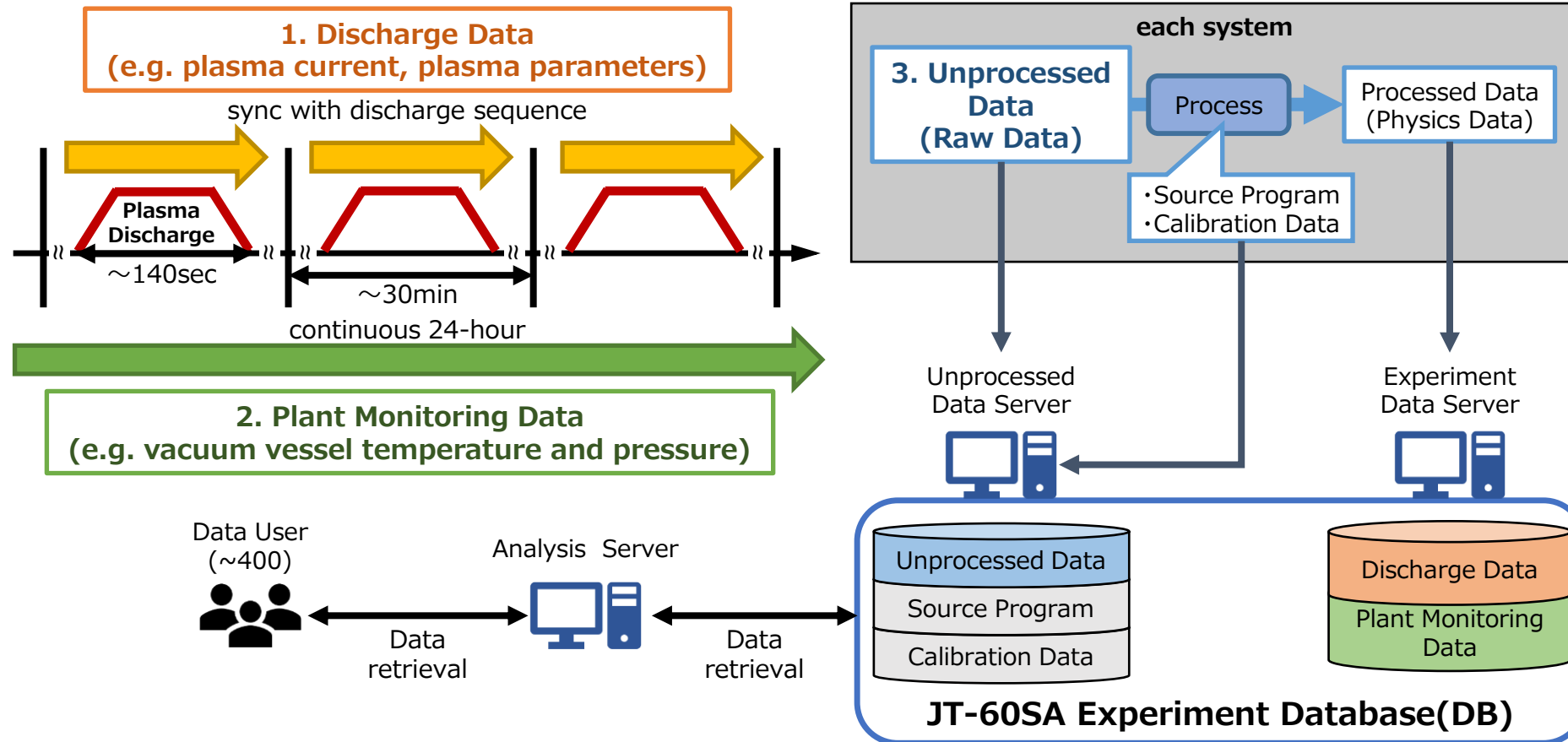
Development of JT-60SA Experiment Database System

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JT-60SA Experiment data are categorized into 3 types:



JT-60SA DB needs to meet 3 requirements:

1. to hold all the JT-60SA data and prevent loss of data
2. to allow users to use the data without knowing internal configuration and structure of DB
3. to manage revision of data and data processing information

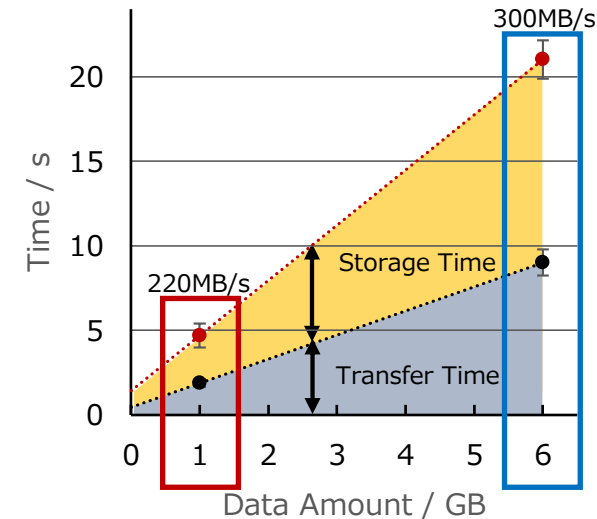
Discharge data needs to be referred to immediately after the plasma discharge.

Performance Test

- The data storage time is a little longer than the data transfer time.
- The data can be stored at a time sufficiently shorter than the discharge interval(30min).

| | 1GB | 6GB |
|--------------------|--------|-------|
| Data Transfer Time | 1.9 s | 9.0 s |
| Data Storage Time | 2.6 s | 11 s |
| Total Time | ~5.0 s | ~21 s |

(in a 140s discharge duration)
 1GB: maximum data amount of 1 data
 6GB: maximum data amount of all data



We report:

- details about the hardware configuration and the software functions of JT-60SA DB
- management methods of data revision and data processing information
- performance of data transfer time and storage time