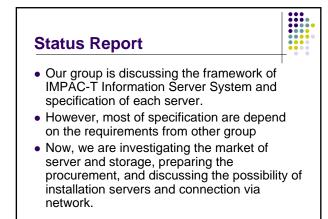
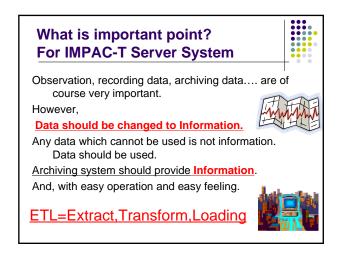
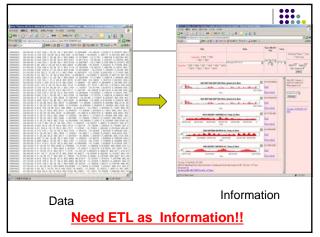
IMPAC-T Information Server System

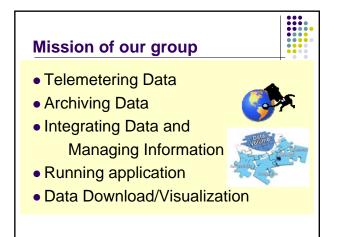
Eiji Ikoma*, Daisuke Komori, Masaru Kitsuregawa @Telemetering and information server group *EDITORIA/IIS, The Univ. of Tokyo

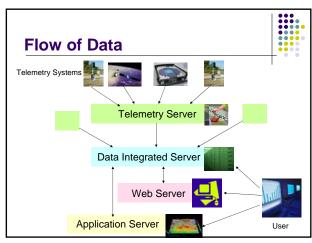












What type of servers are required?

Telemetry Server

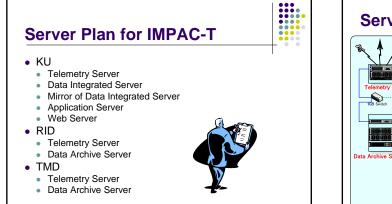


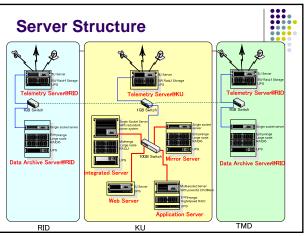
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- Data Archive Server
 - Archiving data loading from Telemetry servers
- Data Integrated Server
 - Integrate data from Archive servers and manage
- Application Server
 - Running application using integrated data
- Web Server
- Interface for Download, Visualization

Requirements for each server Telemetry Server • Stable running (once lost, never get again) Data Archive Server

- Never lose data
- Data Integrated Server
 - Integrated Management as "Information"
- Application Server
- CPU and I/O power
- Web Server
- · Easy and useful Interface





Requirements for KU servers Telemetry Server

- For Flux etc... data collecting and archiving server. Stable system (non-stop) and mid-range storage (sw-raid 1) GPRS I/O Card
- Data Integrated Server
- Main Data "archive" Server Redundant system with high speed large scale storage (mid-range raid-1) Dual network IF for Mirror Server
- Mirror of Data Integrated Server
- Sub Data archive Server Normal system with stable large scale storage (entry-range raid-5/6) Application Server
- For Model Processing Server
- Powerful CPU and Memory, high speed storage High-speed Connection to Data Integrated Server
- Web Server
- For data download and visualization
- High-speed network connection to Data Integrated Server

Requirements for RID/TMD servers

- Telemetry Server
 - For telemetry data collecting and archiving server.
 - Stable system (non-stop) and mid-range storage(sw-raid 1)
- GPRS I/O Card
- Data Archive Server
 - Data Storage for telemetry system(s)
- Stable system with mid-range storage (entry-range raid-5/6)
- Dual Network IF (for Intra/Internet)

Discussion About Priority

• Telemetry server for KU,RID,TMD will be necessary soon. • If so, and environment is ready, how about introducing "small"

- data archiving server for RID? = to prepare the methods for sending data to KU on the technical
- and political aspects. Web Server should be prepared soon.
- X3650(supplied in 2010) has multi-purpose specification (mid-range CPU, mid-level memory, powerful UPS, redundant powersupply..) \rightarrow before procurement of other server, X3650 can
- work and run for software development. However, to build up the framework of telem-archive-mirror-app.
- servers, purchasing small servers is also one idea for practice.
- KU's big servers(Integ. and App.) is necessary to discuss deeply.

