# A new Data Analysis team:
# Data re-processing and storage

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On behalf of the Data analysis WG

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## Objectives

⇒ <u>Team members :</u> Fabio Crespi, Jérémie Dudouet

⇒ Support on data transfer management:
  ↪ Tools to simplify data transfer from the grid
  ↪ Tools to simplify data replay from the grid

⇒ Support on data processing:
  ↪ Organization of workshops dedicated to data analysis
    • The next one will be organized in Orsay, probably in January, dedicated to the 2018 campaign
  ↪ Contributions to the elaboration of documentations
  ↪ Software support

# Support related to Data download from the grid

⇒ Development of a new python script python for a user-friendly download of the data
- ↪ manages the generation of proxies
- ↪ allows to list the data repositories on the different "Storage Elements"
- ↪ selection of the repositories to download (from Lyon or Bologna)

⇒ A full documentation is available

```
[dudouet@ipngrid08 GridTest]$ ./DataSync.py
********************************
** Hi ! How can I help you ? **
********************************

   --help             : print this help
   --proxy_info       : show proxy info
   --new_proxy        : create a new proxy
   --show_tiers       : show the different Tier paths
   --show_se          : show agata storage elements
   --show_ce          : show agata computer elements
   --from_CNAF        : download data from Bologna
   --from_LYON        : download data from CC Lyon (default)
   --ls_dir           : show grid arborescence of folder dir
   --input_dir        : copy grid data data from folder dir
   --output_dir       : copy grid data data into local folder dir
   --clean_dist_dir   : remove a folder from a Tier2 server
   --build_list       : build the list of files to be downloaded (mandatory before start)
   --show_locality    : show locality of the files ( ONLINE= on disks ; NEARLINE= on tape )
   --bring_online     : move files from tape to disks (make the copy of files faster)
   --start            : download files from the grid
   --v                : verbose mode

********************************
**  Hope this helps ! Bye !! **
********************************
```

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**Contents**

*People involved in this document*:

F. Crespi, J. Dudouet

NOTE: Please for any comment/question/suggestion, use the forum:
http://www.agata.org/forum

# Support related to data-reprocessing

⇒ The Local Level Processing userguide has been updated

↪ takes into account all the needed operations from the producer to the Post-PSA level: energy calibrations, time alignment, X-talk, neutron damage, data replay...

↪ It will be soon tested on the GANIL site, and shared after validation

## Contents

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$\hookrightarrow$ For various subjects: Software, Grid, Data analysis...

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Now, we just have to use it !