Good morning everyone,

My name is Daniel Aguiar and I am in the beginning of the second year of project. My thesis project is entitled a SLA-Guided Data Integration on Multi-cloud environments. I am working in the research center Magellan at Lyon (in the University Jean Moulin Lyon 3), being supervised by Chirine Ghedira Guegan (also from Lyon 3), and co-supervised by Nadia Benani (from Lyon1, INSA) and Genoveva Vargas-Solar (from University of Grenoble).

The project deals with data integration and cloud computing. The data integration is a well-known and widely studied problem in the database domain. And, the emergence of architecture like cloud opens new challenges to data integration and processing. The possibility of an unlimited access to resources changes the problems associated to data processing.

The figure in the slide shows the problems we are interested to tackle. Given a user query (tagged with quality preferences), how can we obtain results for his query such that they meet his quality preferences?

The quality aspect in the cloud environment is agreed in contracts between service providers and service consumers called service level agreement.

Considering this environment it is possible to highlight different challenges as: (i) which services should I select to answer the query? Are the requirements being respected? (ii) How to be sure that all SLA associated to the selected services are being respected? (iii) How to integrate different SLA associated to the services involved with user's preferences? And the last one (iv) how can the results be used for a future query?

Regarding all these challenges, we are interested in a data integration solution on a multi-cloud context considering user requirements and service quality aspects expressed in service level agreement contracts.

Thank you very much for you attention. And, for more information, please find me in the poster session. Have a nice day, see you.