

# DATA MANAGEMENT

**-very brief slides of the practical session framework-**

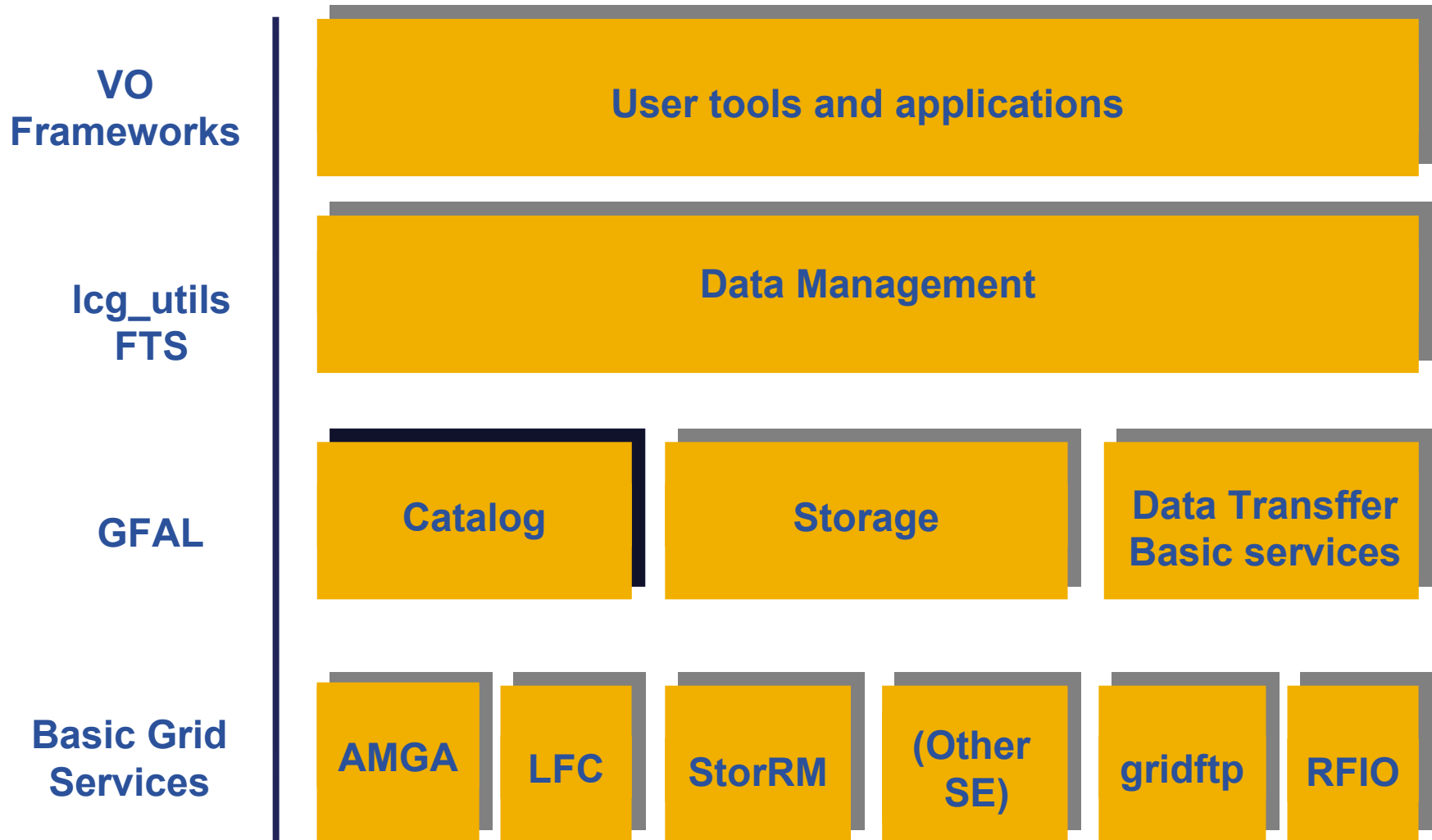
**Dr.Víctor Méndez Muñoz**



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- 1. glite Data Management Architecture**
- 2. Catalog and metadata structures**
- 3. Structure of the practical session**

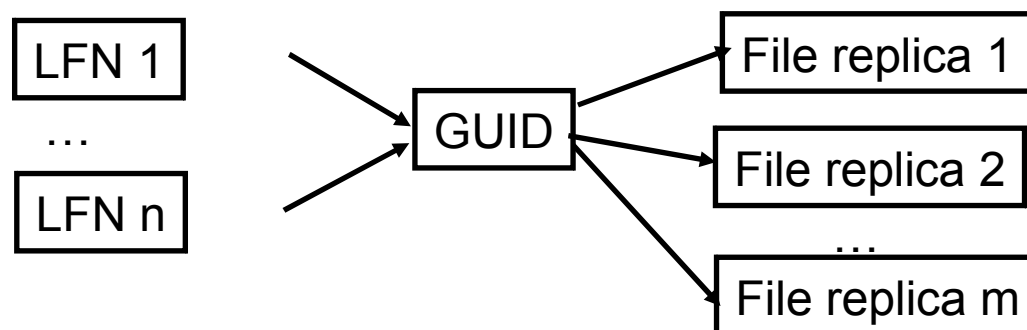
# 1. glite Data Management Architecture



## 2. Catalog and metadata structures

LFC: LCG File Catalog

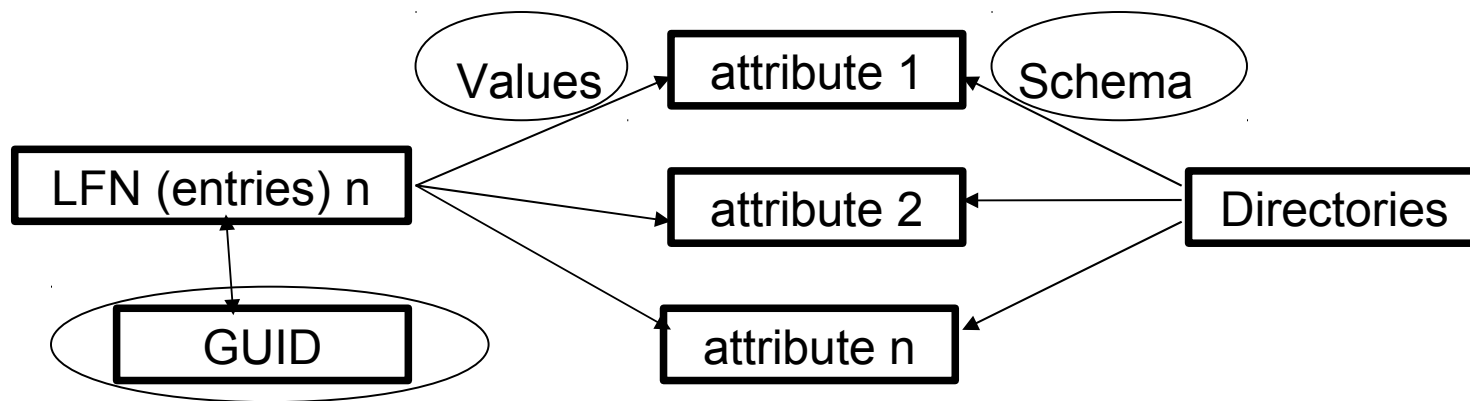
- Each VO has a catalog.
- A catalog can give services to many VO
- A catalog is a directories structure that manage the relation between a Logical File Name (LFN), and their corresponding site replicas (SURLs) and Transport names of the replicas (TURLs)
- The LFC use a Grid Unified Identified (GUID) to identify a file



## 2. Catalog and metadata structures

AMGA: ARDA Metadata , standard for glite.

- ARDA - A Realisation of Distributed Analysis for LHC
- The metadata are information about the stored data within the files
- The LFN are stored in a directories structure
- The directories have an schema of associated attributes
- Each LFN within a directories gives values for the attributes
- Such attributes are the metadata used to select specific files.



### **3. Structure of the practical session**

- 1) Working with the SE, using the lcg-utils**
- 2) Integrating the LFC catalog with the SE, using lcg-utils**
- 3) Using AMGA and integrating in the data management**
- 4) GFAL programming for remote Grid File I/O,  
From the UIs and the Working Nodes**