**Data Management Module**

**Project Template**

**Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Data identification**
	1. Dataset 1
		1. Description
		2. Origin (Source of data, e.g. Sensors, measurement stations, public/restricted access dataset...)
		3. Collection (How data have been collected?)
		4. Update/Timing (e.g., one single time, each hour, each week, ...)
		5. Other Info
	2. Dataset 2
	3. …..
2. **Data lifecycle** (use Arass et al. “Data lifecycles analysis: towards intelligent cycle” as a reference)
	1. Needed phases of DLC (What phase is mandatory? What phase could be useful?)
		1. 
	2. Lifecycle selection (What is the best lifecycle for your needs? Why? Look at table 2 of the previously referred paper)
3. **Conceptual modelling of data** (using E-R model)
	1. List of Entities and relationships with attributes and keys
	2. E-R graphic representation
4. **On-Line Analytical Processing (OLAP) modelling**
	1. OLAP conceptual model of facts
	2. STAR schema of facts
	3. Some sample queries
5. **Conclusions**

Appendix: Table 2 of Arass et al. paper

