SimDAL

Status & Goals

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Status

- Theory I.G. started in 2004

- SimDM in 2012

- SimDAL in dev. for more than 2 years

Status

- Complex standard
  - Registry + Data discovery + Data Access
- Heterogeneous codes & data
- Voluminous data & metadata
- Many suggestions for the prototype

Developments

- **Several designs tested and implemented by David Languignon**

  - SimTAP

  - Document oriented database (Mongo)

  - Relationnal data base

  - Postgresql JSON

  - Postgresql hstore

Conclusions

- No unique & perfect solution

- Big Data issue

  ➜ technologies are poorly known

- Each suggestion has to be implemented to check its implications in terms of technological feasability / performances

Need for a standard quickly

- **Large equipments and large simulations**

  - Ex: ALMA

  - New Tier 0 / Tier 1 equipments

- **Community is impatient**

  - Development of theory services in several places out of VO standards

- **Risk to miss our goal if we wait too long**

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- Let secondary / minor use cases for latter

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Lets not forget our goal :
Scientists do not wait for a perfect standard, they wait for interoperable theoretical services to do research.