SPHERE Data Center N. Meunier

Context & motivation Timeframe General overview Articulation with Cobrex

Context and motivation

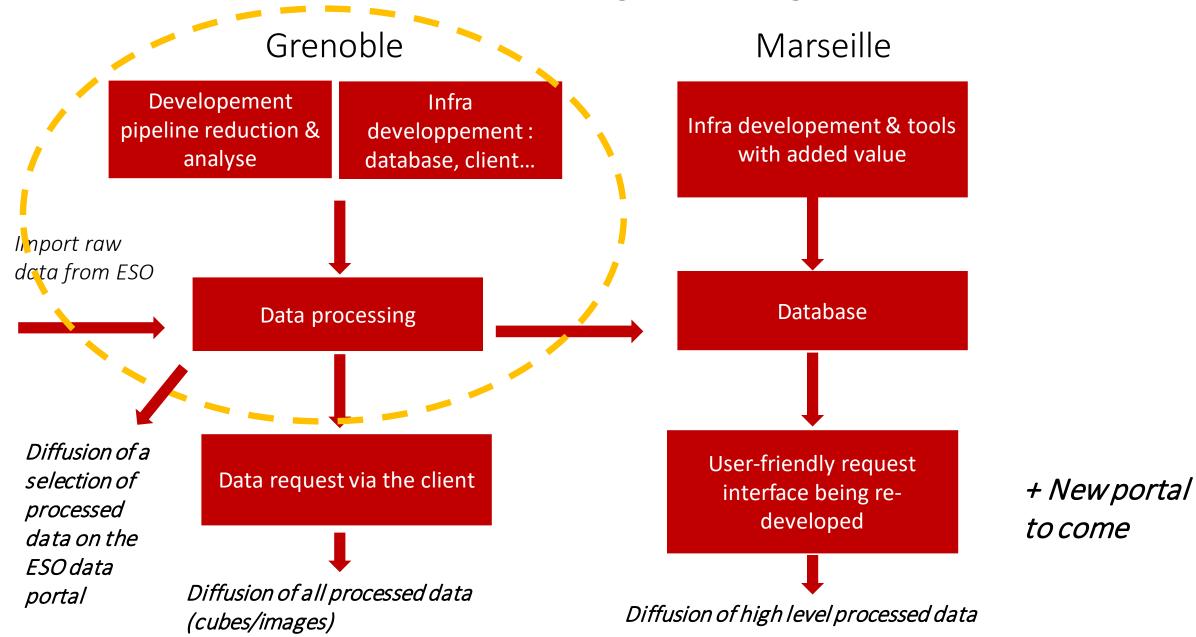
- SNO = National service with INSU Label → produce data that are made publicly available with no restriction
- People involved in the data processing mostly in Grenoble (D. Albert, P. Delorme, J. Milli, N. Meunier, D. Mouillet -> Duty service) + Nice (E. Lagadec) → Data processing center
- *Partners* : OCA/Lagrange, PYTHEAS/LAM, Obs. Lyon/CRAL, Obs. Paris/LESIA
- Motivation = SPHERE is complex (3 instruments, many modes) → help users, increase scientific return by processing all data and make them available to all

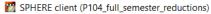
 \rightarrow On-request processing (ex. SHINE) and processing of public data

 Evaluation by INSU in progress → we requested a change in name « High Contrast Data Center » (HC-DC) to take other instruments into account (already the case in the Marseille database DIVA, integrated in the SNO, and to anticipate future Cobrex GPI processed data + possibly other instruments)

Т	imefra	AME Start of SPHERE observations	-	Start of Cobrex Arrival of Stéphane		ments &	End of Cobrex Involvement in the processing of future instruments
~2010	2012	2015	2017	2021	2022		~2026
	he project + f Philippe Im		INSU Label rst reduced ata on-line IRDIS and IFS	P1 pro rej pro ES Zir	DIS+IFS : P95- 04 IRDIS+IFS focessed, to be processed (incl. foper format for 50) mpol : about to art	Cobre proce data j	
	pi	ipeline over time					

Infrastructure and general organisation / SPHERE DC





File Edit Sphere Interop Help Main Admin			
	Data	Process	Validation
Developement	Data browse Data import	Process browse Recipe launch Morkflow launch Recipe manual	Validation browse
Infrastructure Pipeline reduction & analyse (incl.		Dashboard	
inputs from outside the SNO)	 ▲ User ▲ Users ■ Raw data ➡ Reduced data ➡ Process 	nadege.meunier@univ-grenoble-alpes.fr 152 users 165231 393409 50715	
	県 Validation 🍥 🍪 Workspace	50646 validations pending P104_full_semester_reductions	

Automation (large amount of data, association rules ...) *Traceability* (parameters, workflows, inputs/ouputs ...)

University infrastructures

Data storage >100 To Computing grid (luke)

