



DIFFERENT WF LEVELS IN A PROJECT

C. SURACE
CESAM - LAM

WORKFLOW WG OF ASOV FRANCE
ANDRE SCHAAFF, ERIC SLEZAK, FRANCK LEPETIT,
PHILIPPE PRUGNIEL



[HTTP://LAMWWS.OAMP.FR/SVOMFSC/SVOMFSCASMWP3200](http://lamwws.oamp.fr/svomfsc/svomfscasmwp3200)

DATA PROCESSING PIPELINE DEV

☼ INPUTS

- ☼ Algorithms
- ☼ Software specifications
- ☼ Software Architecture
- ☼ Level0 products
- ☼ Calibration products
- ☼ HK Products

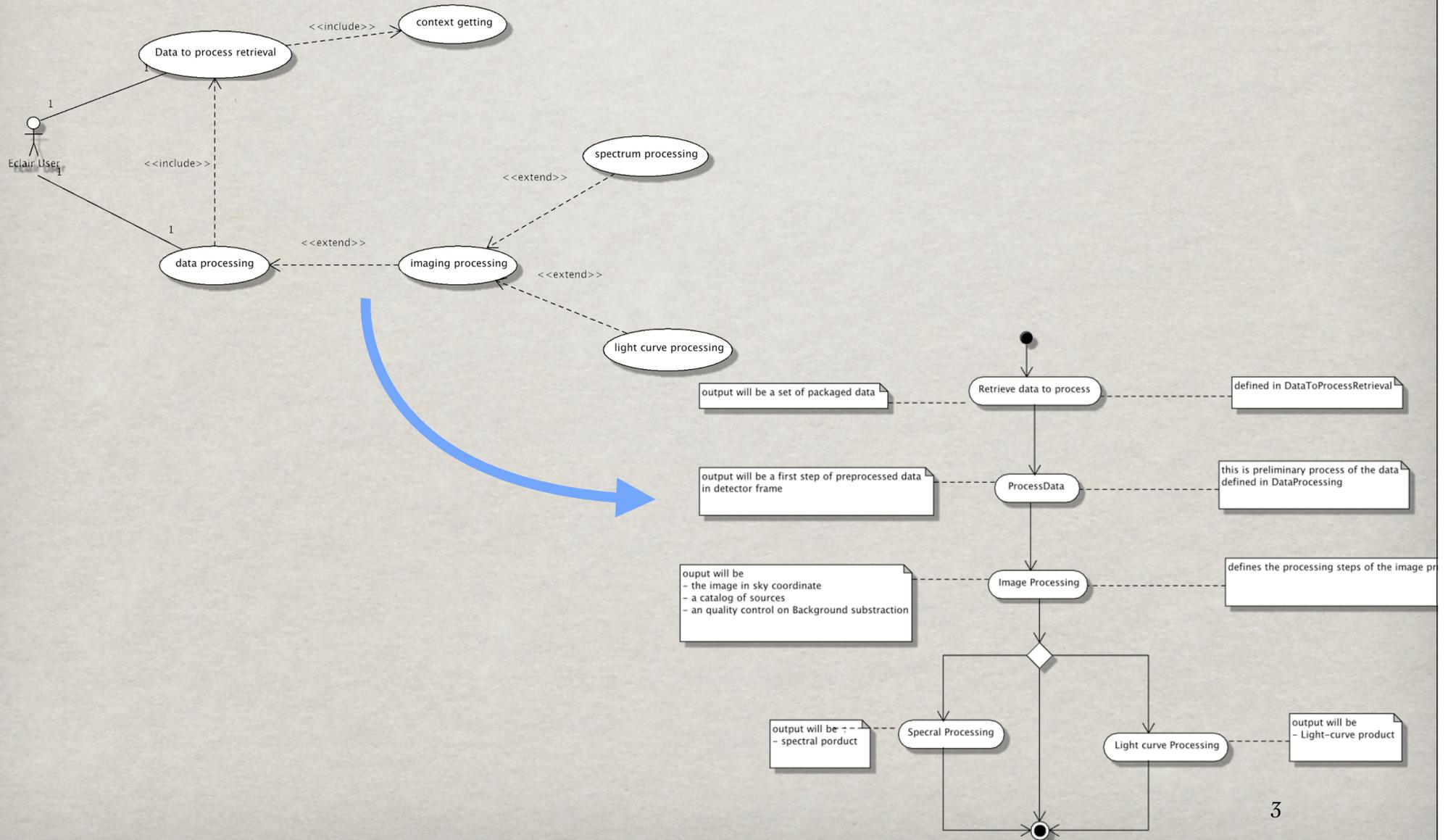
☼ OUTPUTS

- ☼ Pipelines
- ☼ Level 1 products
- ☼ Level 2 products
- ☼ Quality control quantities.

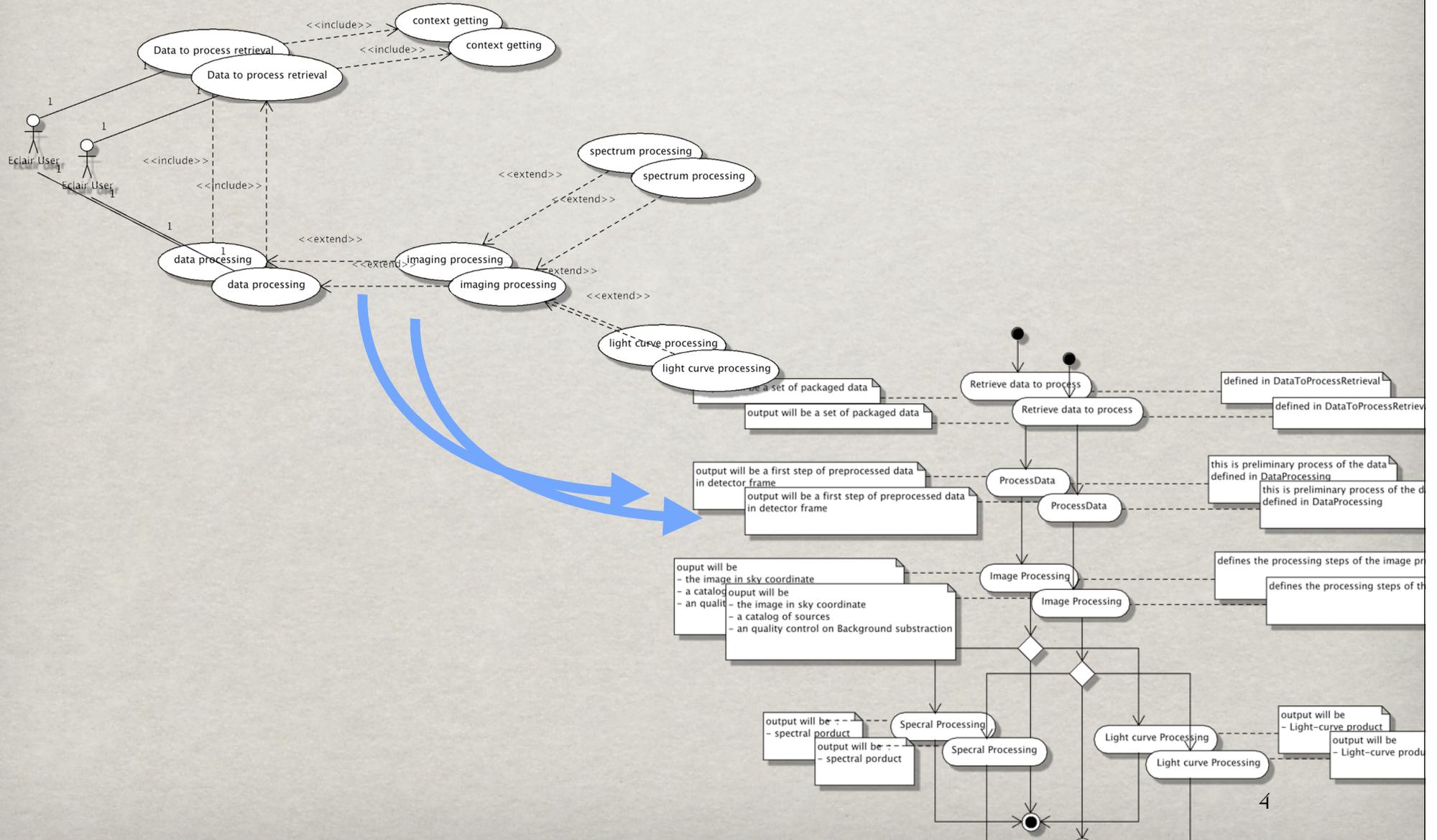
☼ DEVELOPMENT

- ☼ Close collaboration with scientists
- ☼ Design
- ☼ Use cases
- ☼ Interfaces
- ☼ Tests

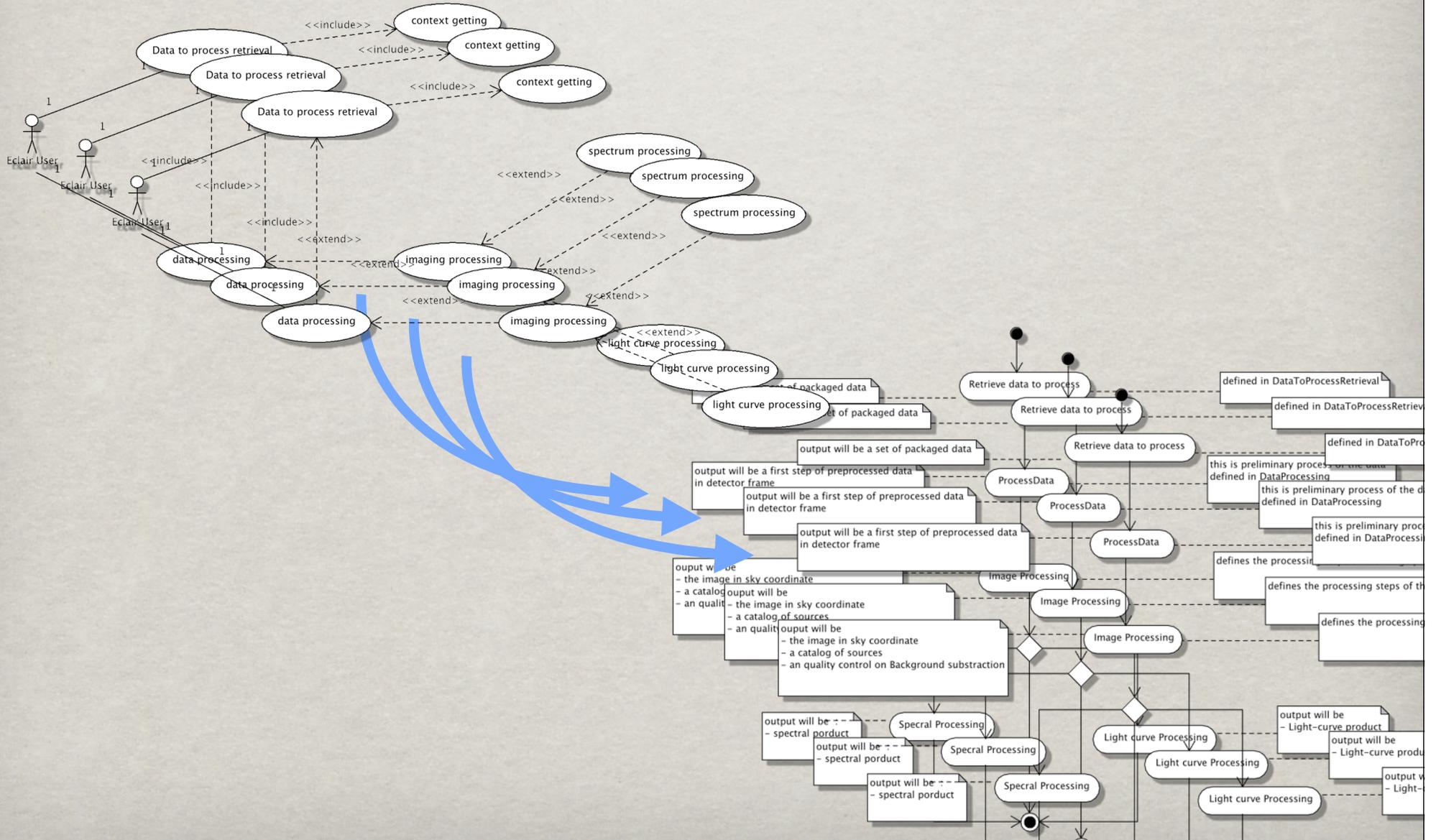
OVERALL TO PRECISE



AGAIN



AND AGAIN



WHY NOT THINKING EXTENDED «DESIGN PATTERN»



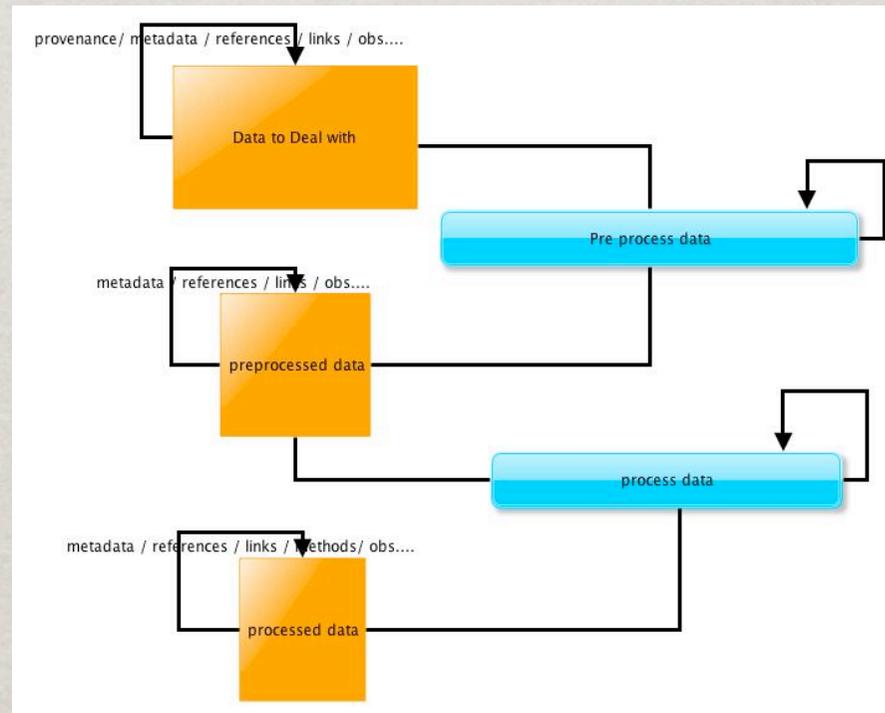
- ✻ General reusable solution to a commonly occurring problem within a given context
- ✻ A design pattern is not a finished design.
- ✻ It is a description or template for how to solve a problem that can be used in many different situations.
- ✻ Design patterns reside in the domain of modules and interconnections.
- ✻ coding languages are evolving, algos are still valid

WHY NOT THINKING EXTENDED «DESIGN PATTERN»

- ✻ I want to create a pipeline on multi slit observations
 - ✻ With existing code :
 - ✻ Does it exist already
 - ✻ What about reusability
 - ✻ What about interface
 - ✻ What about languages
 - ✻ With Design :
 - ✻ Basically same questions
 - ✻
 - ✻ except the last 3 questions

EXTENDED «DESIGN PATTERN» WORKFLOW AND «CODE» PRESERVATION

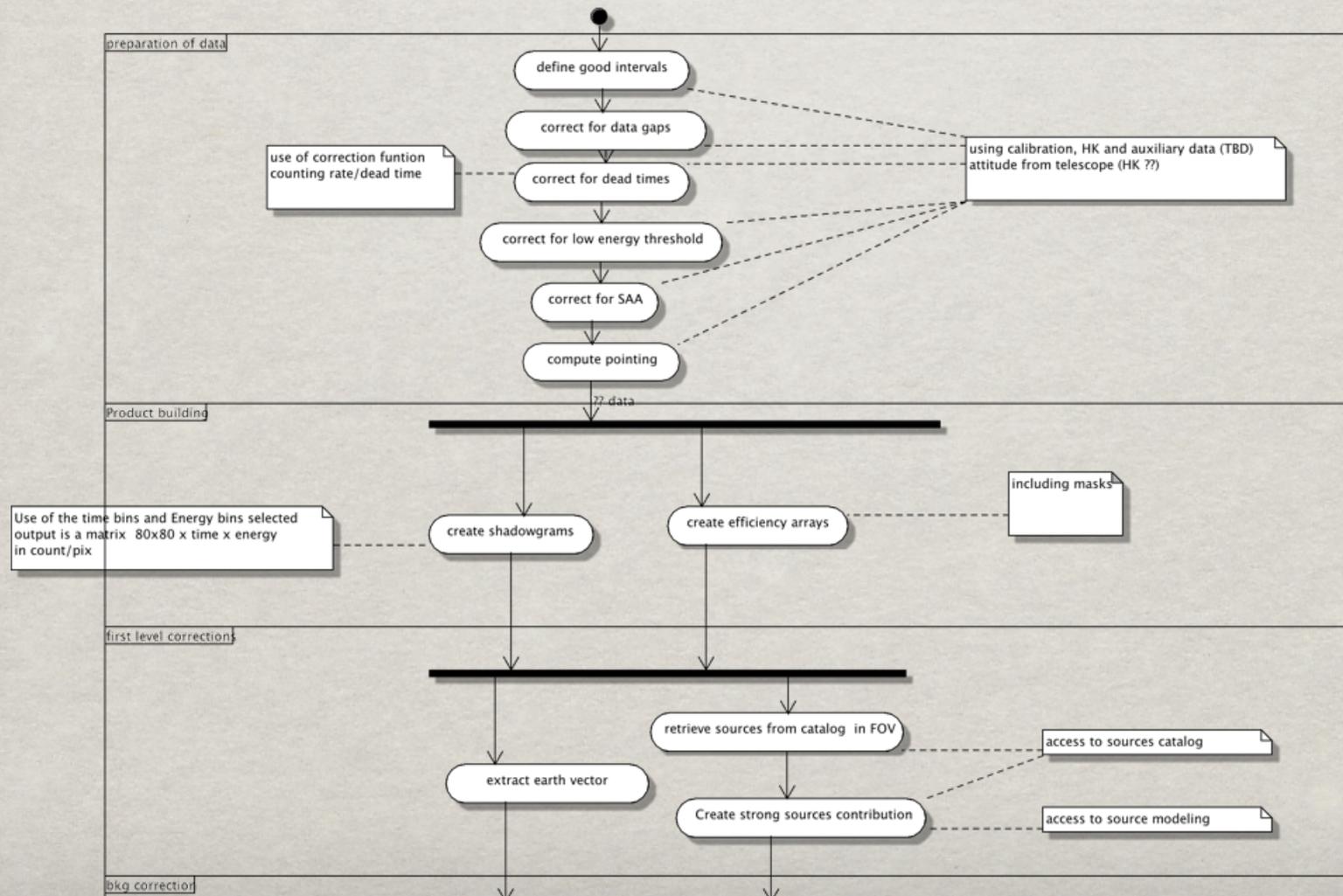
Need to deal with granularity



really high level

EXTENDED «DESIGN PATTERN» WORKFLOW AND «CODE» PRESERVATION

really ultimate level



AND THEN....

- ✿ Workflow and algos Documentation - YES but also in a specific way (Design - UML diagrams)
- ✿ Create Design oriented views of the algos
- ✿ Create Design for specific fields
- ✿ Think interfaces
- ✿ Take into account the possible restrictions

☼ Challenges in Code Discoverability (Peter Teuben)