

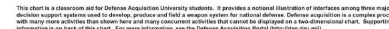
OU-VIS status report

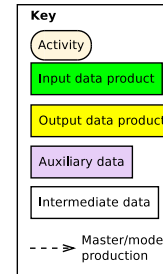
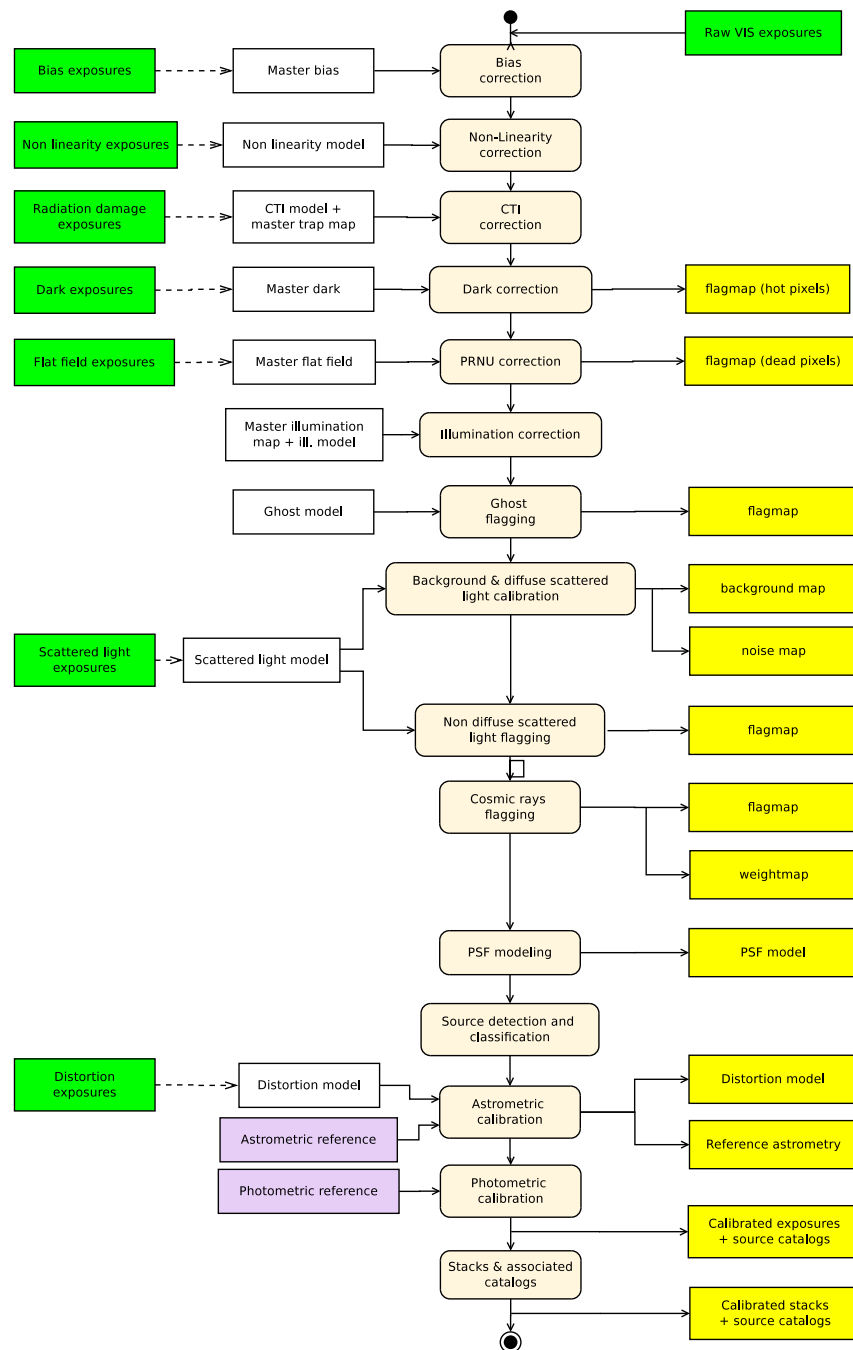
Henry Joy McCracken / Catherine Grenet

and the OU-VIS team

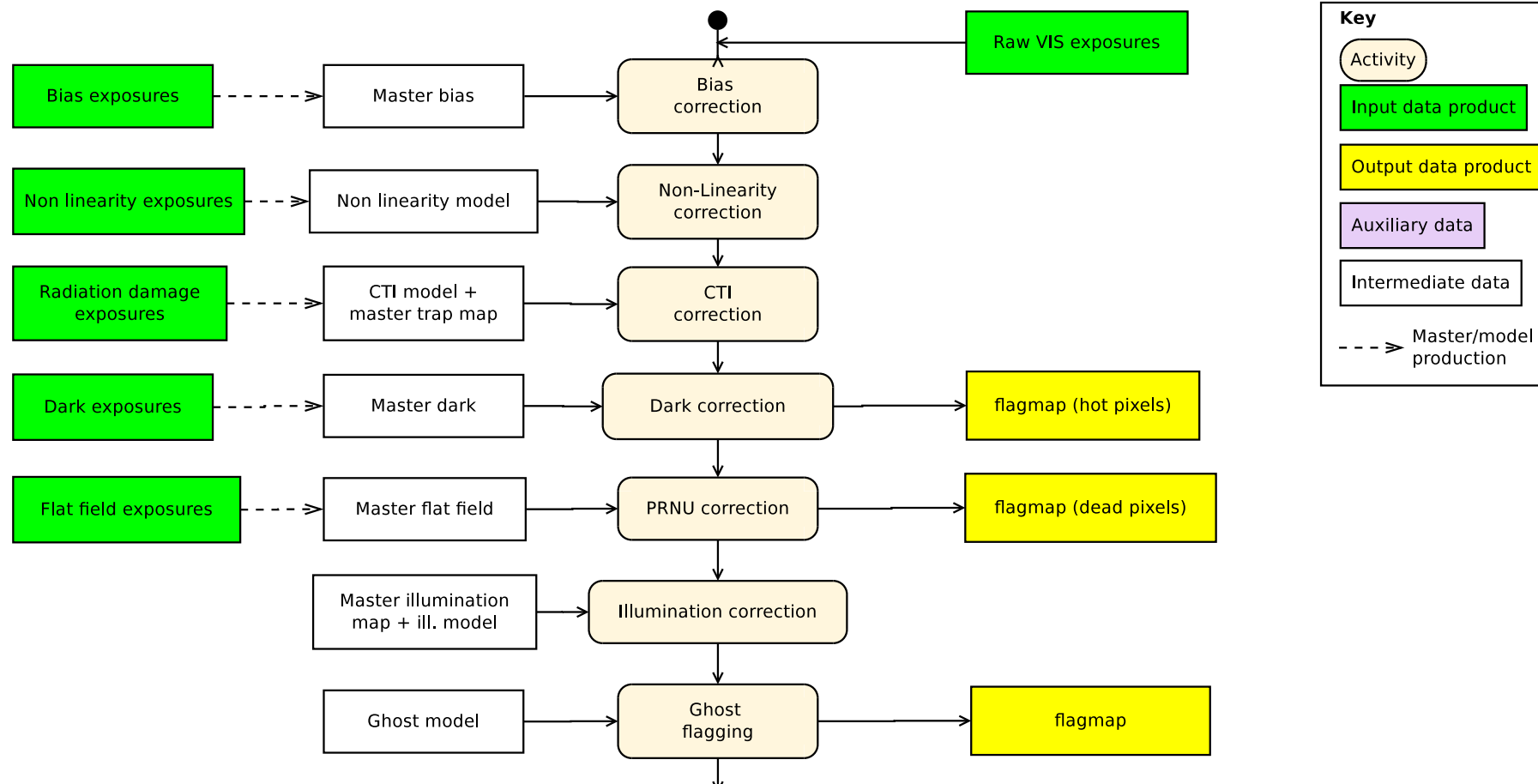
OU-VIS core team

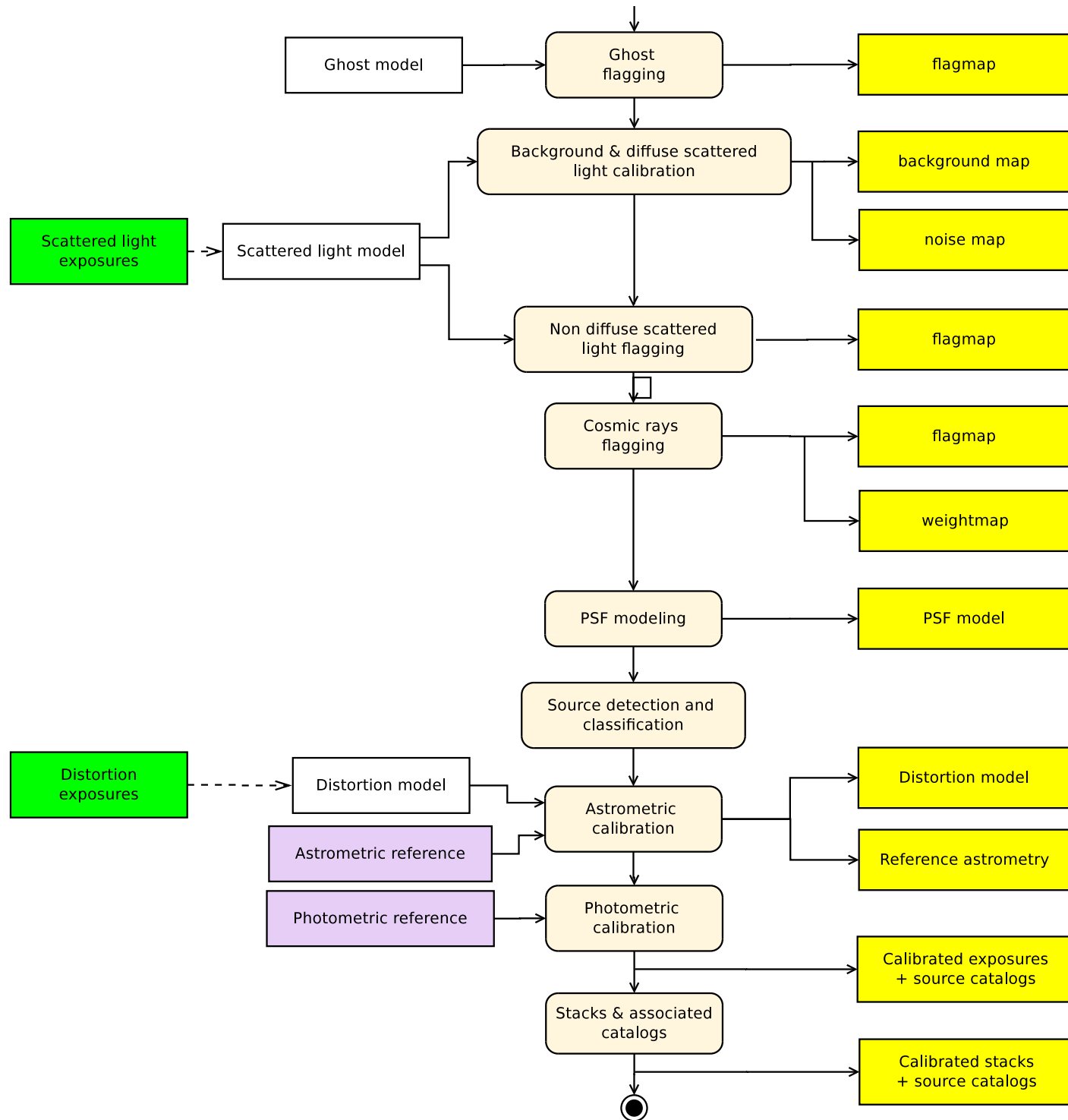
- **OU-VIS: produce calibrated VIS data**
- The OU-VIS team:
 - Catherine Grenet, Olivier Hérent, Patrick Tisserand, Sybille Téchené, H. J. McCracken, R. Gavazzi (IAP)
 - Chris Dolding, Kevin Benson (MSSL)
 - Richard Massey, Holger Israel (Durham)
 - Nic Walton, Eduardo Gonzales-Solares, Mike Irwin (Cambridge)
- “Fifth Beatles”: Patrick Hudelot, Sami Niemi
- Minutes from monthly telecons can be found on the OU-VIS wiki





What does OU-VIS do?





Status December 2014

- Documents delivered for the SRR review (Catherine) :
 - **VIS processing function (PF) requirement specification document (RSD)**
 - Each requirement which the OU-VIS processing function must meet is listed
 - **VIS PF software development plan**
 - This document is integrated into the SDC-FR software development plan. Identifies **who will write code**
 - **VIS PF validation plan**
 - How we will be able to check if the PF works or not.
- These documents were a lot of work, but hopefully **they will actually be useful** for the next stage of the project.

Other main tasks in progress

- Data model definition
 - Important to understand how the processing elements and OUs will communicate. There is still some uncertainty concerning the visibility of intermediate data products between OUs
- Quality tools definition
 - We need to think how we can quickly detect problems in VIS images and provide these tools to instrument monitoring teams
- Defining LE1 and OU-VIS interface
 - We need to define what metadata should be in the VIS images

Up next:

- Now we have to start **prototyping and developing code** (yeah!) and identify candidate algorithms
 - Prototype pipeline should be provided in the first half of 2014 containing (from PF development plan)
 - See earlier discussion: hack up some code and get it work, or do something “solid”? How much of the code we write in the next 12 months will make it into the final

VIS PF V0

will implement the following components:

- Common data handling tools
- Bias and dark correction
- Non linearity correction
- CTI correction
- PRNU correction
- Ghosts flagging
- Cosmic ray flagging

at maturity level 1A, not integrated together.

The release will be an internal release, the purpose of which is to start defining algorithms.



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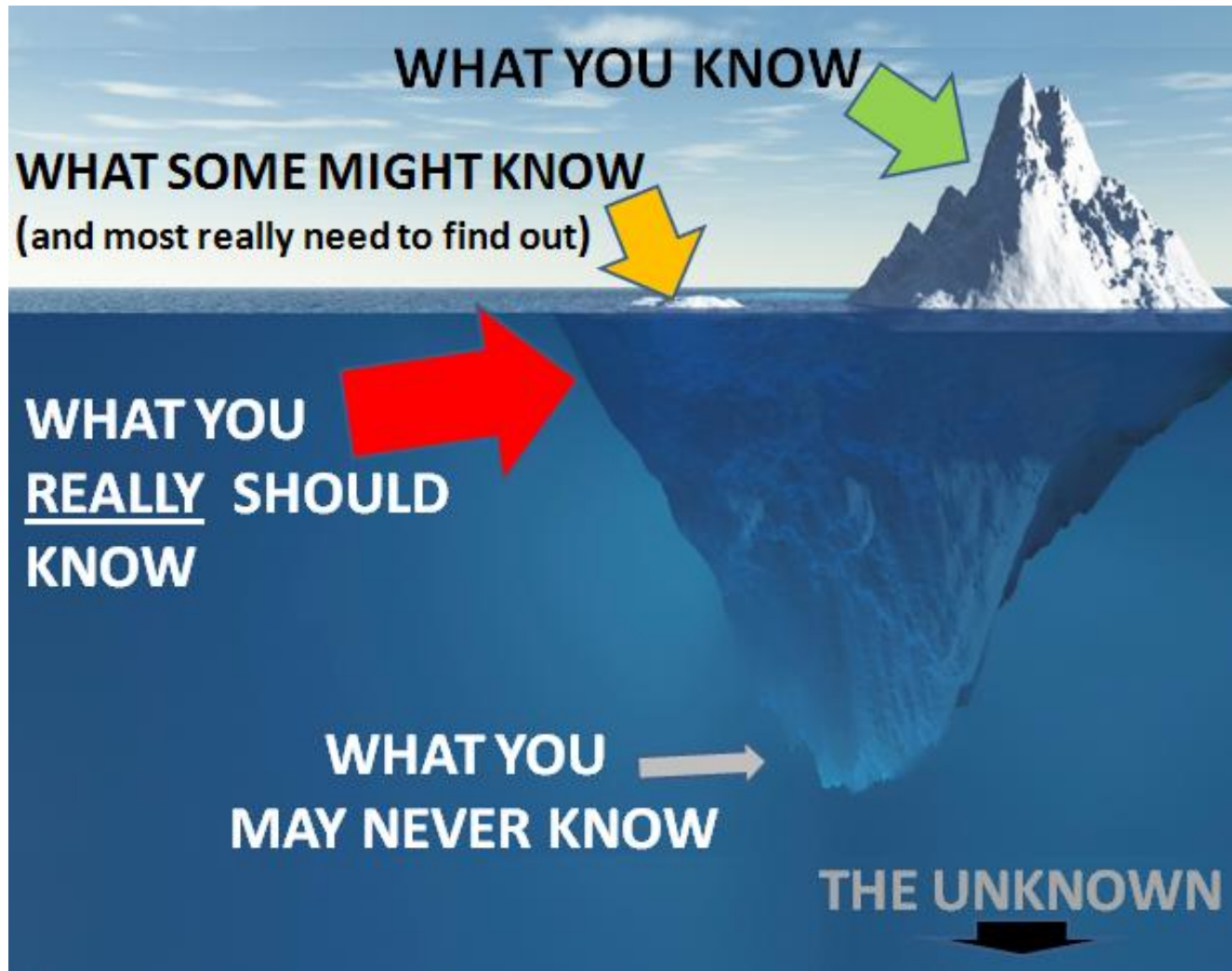
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Caution (1)

- The VIS PF software development team is distributed geographically
 - How will we work effectively together as a team and develop code that works?
- Do we have enough resources to develop all the elements of the processing function?
 - Can we identify **common blocks** between processing elements and between processing functions? What code can be reused?
- Do we have the **simulations** we need to start prototyping and testing algorithms?
- Have we understood all requirements (again)

VIS PF requirement review



Credit:
the
Internet

Caution (2)

- OU-SWG responsibilities need to be **clearly defined and agreed upon**
- Cross-OU and OU-SWG collaboration will need to be further improved
 - Garage days are probably the most useful Euclid meetings around :-)
- There are still a few uncertain / hanging requirements
 - Synchronising all the VIS PF RSD requirements with the latest version of the GDPRD is a lot of work
- We will certainly find out more once we will have created the prototype pipeline.