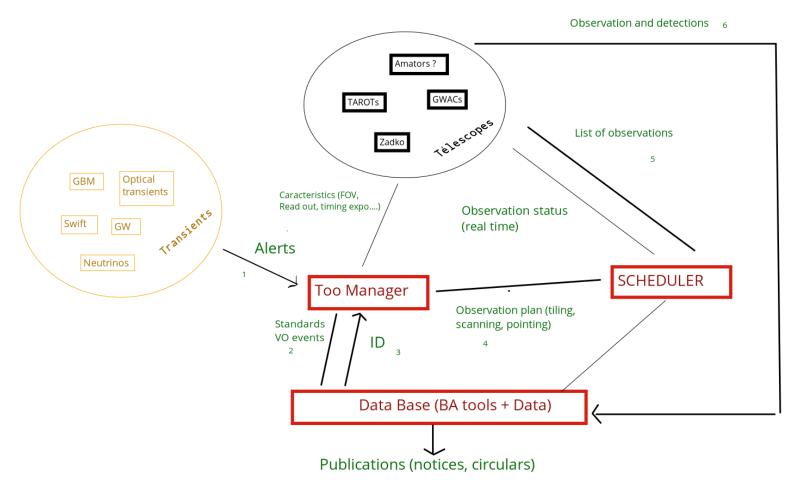
GRANDMA Meeting Too Manager

Sarah Antier (19/11/2018) for LAL group

Infrastructure



- Reception of the transient alerts
- Cross-matched the infos
- Send internal standard VO events with the use of ID given by database
- Preparation of the observation coverga for each telescopes (without observability info)
- Provide info to Scheduler and DataBase

Reception of the alerts

GW

- Premilinary within minutes
- Initial (+circulars within hours)
- Update (when localization is better)
- Retractation (within a day for BBH, hours for BNS, NSBH)

GRB

- Swift-BAT
- Fermi-GBM
 - Flight detection
 - Flight position
 - Ground position
 - Human vetting
- Others?

Others

- Neutrinos
- Optical notices

Standard VO events: GRB

Alert characteristics

<Who>

Grandma

<What>

- Time of the astrophysical event
- Trigger ID
- Delay since the GRB delay
- GRB ID
- SNR
- LC
- Hardness ratio
- GRB figure of merit
- Update

<WhereWhen>

- Astro-coordinate
- ISOTIME
- + STATUT: initial, update, ...

Observation plan characteristics

ONE NOTICE PER TELESCOPE

- Description
- Grid_id : only for
- pos.eq.ra

The right ascension at center of fov in equat. coordinates

pos.eq.dec

The declination at center of fov in equat. coordinates

ra_width

Width in RA of the fov

· dec width

Width in Dec of the fov

prob_sum

The sum of all pixels in the fov

priority

WHAT IS NEEDED FOR SCHEDULER TO START OBS?

Observation plans

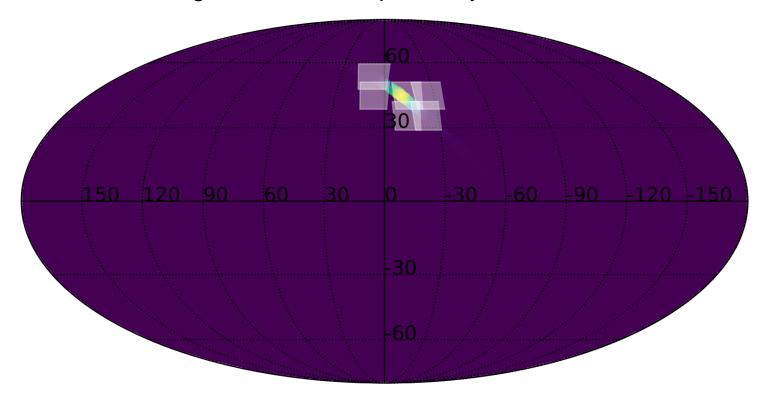
Michael Coughlin, Jean-Grégoire, Nicolas Leroy and LAL group

https://github/mcoughlin/gweopt/

Further informations for Galaxy targeting in Jean-Grégoire presentation

Tiling (GWACs, same approach as O2)

- Using predefined GWACs grids (Xuhui et al)
- Calculation of the grids with the best probability



Example for GRB180913 GWACs

TO DO LIST

- Gestion of Fermi/Swift alerts
- Add LAT events or others ...
- Merge the codes for GW, neutrinos and GRBs
- Upload to git ©
- We need to merge with TAROT project
- Participation to the full GRANDMA infrastructure (ID tracker,)
- Observation plan in progress (see Jean-Grégroire talk)
- Communication between LAL and NAand OC (scheduler, database, ...) to send the messages
- Communication with LAM for TAROT Iris for the training?