# DDPC pipelines planning for 2024-2028

## Last week workshop summary

- LISA Data generation workshop, APC, November 15-17
- https://lisageneration.sciencesconf.org
- 30 participants + ~ 10 online
- Discussions on
  - Datasets timeline, how does it fit the global-fit plans (Europe, US) (see next slides)
  - Detailed description of what goes in the 2025 LDC: signal, noise
  - $\circ$   $\:$  Interfaces , validation (see next slides), CPU/disk associated needs
- Main conclusions
  - Informal agreement with NASA on the datasets content and timeline
  - Informal agreement with NASA for a collaborative/coordinate work
  - Next meeting: DDPC project kick off in June 2024: project coordination to take over
  - Some discussions will continue within SIM WG and LDC WG
  - Agreement for having preliminary requirements to meet the 2025 target

# Timeline

### To be discussed: LISA Data analysis verification







#### Mojito

- Full enchilada: GBs, MBHBs, EMRIs, SBBH
- Artifacts optional 1 or 2 years
- Time iterative analysis, Alert pipeline

# • Long Island Iced Tea (Adios)

- Full enchilada + SGWB
- all artifacts, 2 or 3 years
- Time iterative analysis, alert pipeline



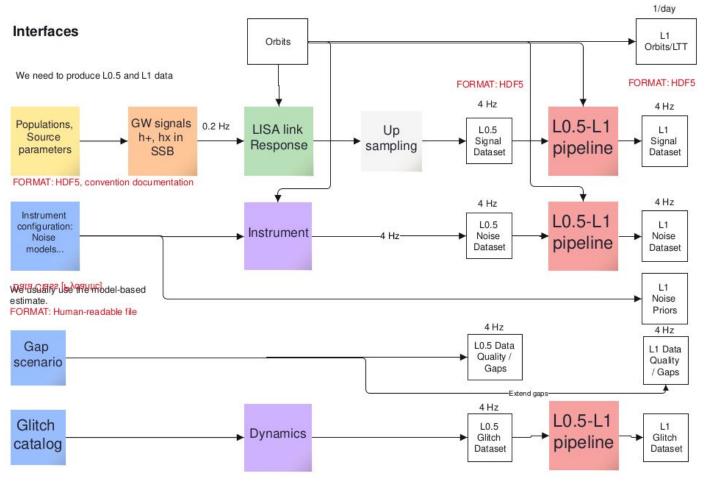
Time critical release

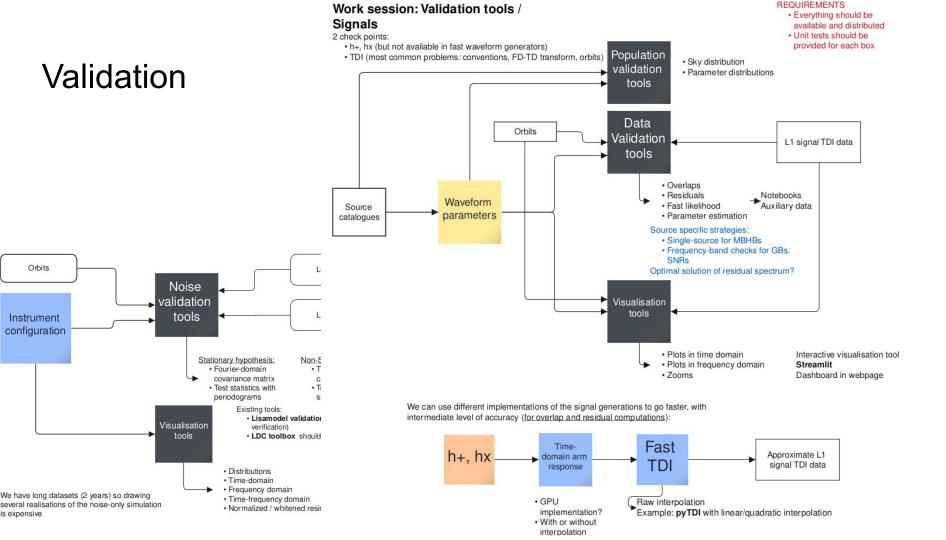
- Aunt Roberta
- Operational pipeline
- blind , most complete
- Live data
- Alerts



Time critical release

## Data generation pipeline: overview





# Main differences with past LDC

- Project critical activity
- More stakeholders:
  - Merging and/or orchestrating LDC, sim WG and L0 to L1 past developments
  - Involving population WG catalogs and software
  - Involving waveform / fast waveform providers
- Stronger need for a common framework
  - On the scientific side: conventions, model of the instrument, orbits, validation tools, etc
  - On the technical side: SDK, data sharing, configuration management, notebooks sharing
- CPU resources + disk space needed to conduct the next LDC
  - will be higher (72Gb L0 + 6Gb L1 / dataset),
  - will require access for people from different institutions