

Current ZTF Timeline

- ZTF I
 - NSF: (Mar 2018) – Dec 2020 – 50% funding
 - CIT, IPAC, LANL, OKC, WIS, UW, JSI, DESY, UWM, TANGO, IN2P3 – 50% funding
- ZTF II
 - NSF: Jan 2021 – Sept 2023
 - Lose UW; gain TCD, LLNL, Warwick, Bochum, Cornell, NW
- ZTF O4
 - NSF: Oct 2023 – Sept 2024
 - Scheduled to Dec 2024/Jan 2025 assuming current LIGO plans and no surprises
 - Lose IN2P3, TCD, WIS, DESY, TANGO, LLNL; gain Berkeley, Drexel (Vienna (Caiazzo), Stanford (Burdge))



Possible futures

- ZTF III (2025 – 2028)
 - Extremely unlikely NSF will support in existing form:
 - delayed MSIP solicitation
 - Rubin Ops (>\$40M/yr) kicks in
 - No existing partner has indicated definite financial support
 - Current model:
 - \$Xk/month operations + hardware
 - IPAC + IRSA hardware needs updating (PTF + ZTF)
 - Alternate models:
 - External organization(s) take over (NSF?) Ops cost:
 - NOIRLab, DZA, ???
 - Remove IPAC/IRSA from Ops
 - Relocate to Palomar: run IN2P3 pipeline, distribute alerts, archive in cloud (via hard drives)



Possible futures

- ZTF IV (2028 -)
 - New buttable CMOS-based camera:
 - 1s integration (lucky imaging)
 - 1000x current data rate (~100x Rubin)
 - Ideal for cislunar material
 - Redefine notions of pipeline and archive
 - Existing camera moves to another telescope, e.g. WIYN

