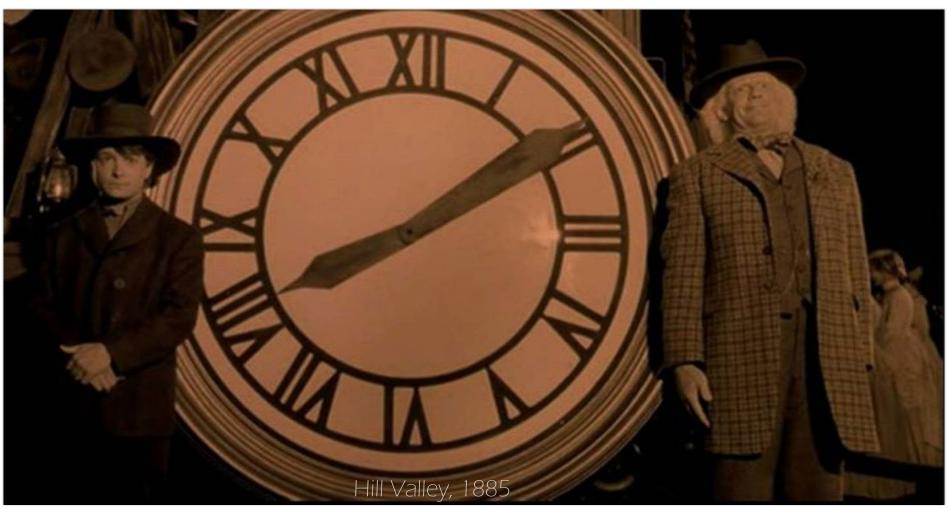


"Historical" Photo









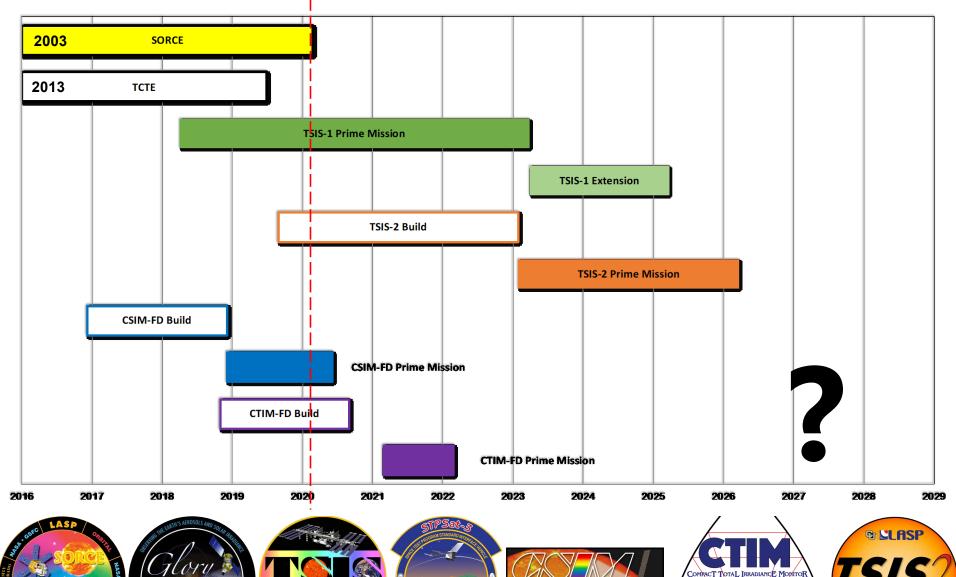








Overlapping Missions Supporting Continuit



compact TSIS (cTSIS)















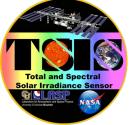


cTSIS Mission Demonstration

- Leveraging compact SIM and TIM developments into reliable, long-term solution to data record
 - Demonstrate that CSIM and CTIM can fully meet TSIS requirements for accuracy, stability, and reporting
 - Demonstrate regular and reliable mission operations, data capture, processing through improving automation and efficiencies from CSIM and CTIM lessons learned
- Upgrade CSIM to a 3-channel instrument requires 12U spacecraft
- CTIM single detector head (4 channels)
- Extend LASP 6U Cubesat design to 12U
 - Minor changes to physical layout, 6U avionics, larger solar panel design
- Improve parts reliability
- Selectively move from Cubesat-class project engineering and production processes towards Class-D like project requirements (EEE parts, QA, SE, CM)













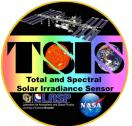


cTSIS - Some Assumptions

- Development and Launch Schedule driven by overlap with TSIS-2
 - Many 12U launch opportunities
- CTIM on-orbit results must inform cTSIS build
- ♦ 8 month overlap with TSIS-2 (2 mo checkout, 6 mo sci)
- ♦ Notional 24 month build for cTSIS (CTIM is 22mo including SC development)







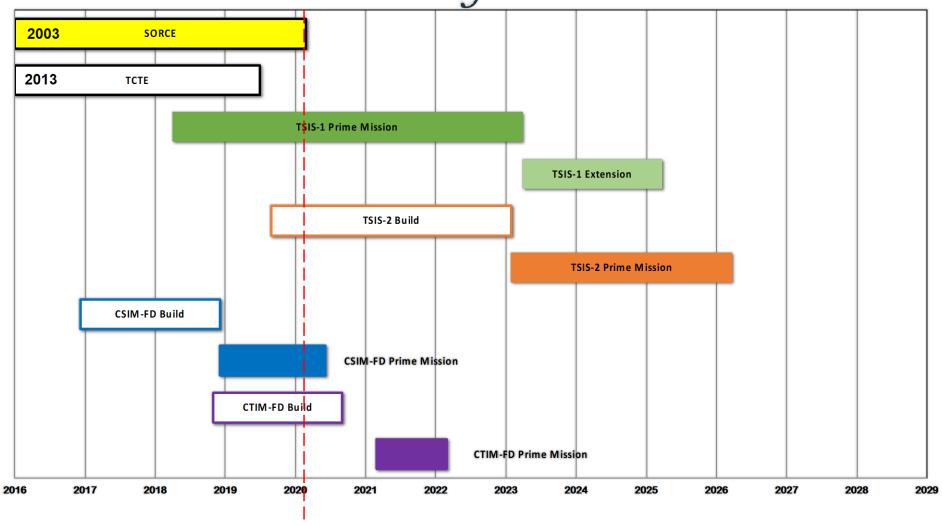








Maintaining the Record









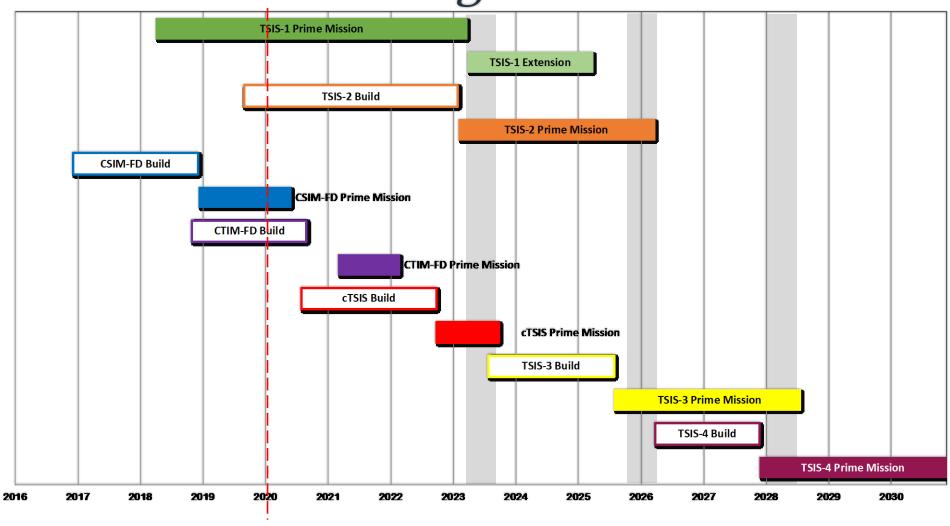






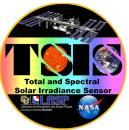


Maintaining the Record









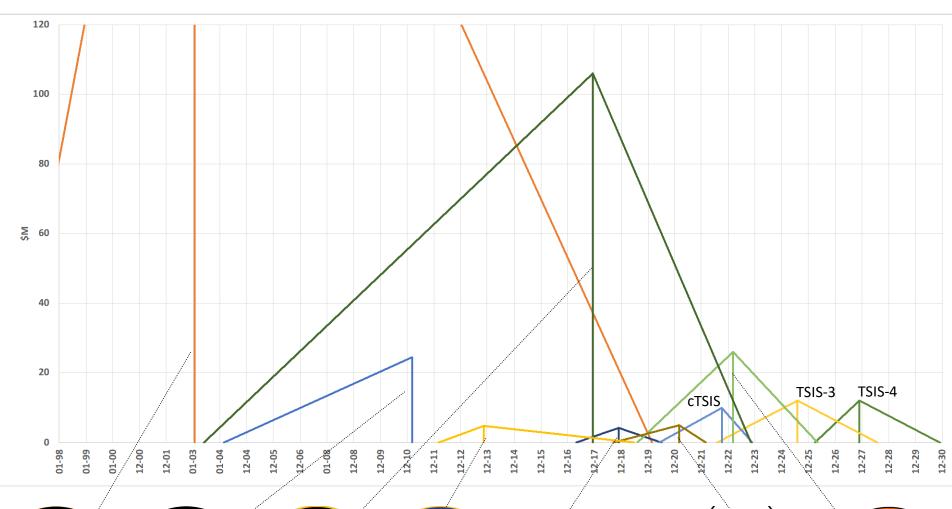






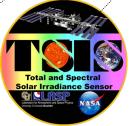


Mission Triangles

















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TO BE CONTINUED