



F' Sphinx Reference Deployment

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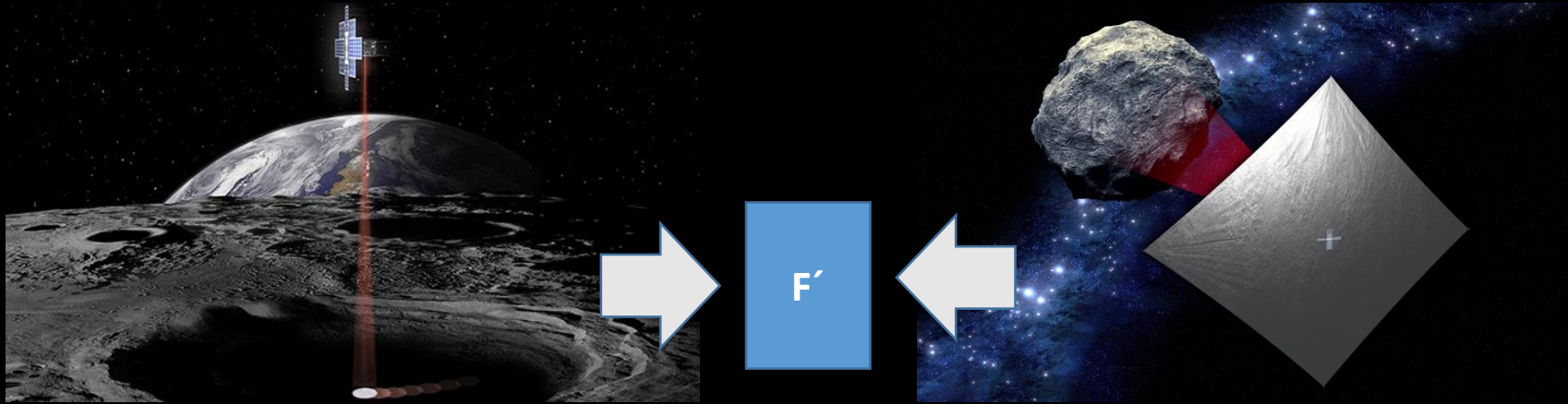
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Outline

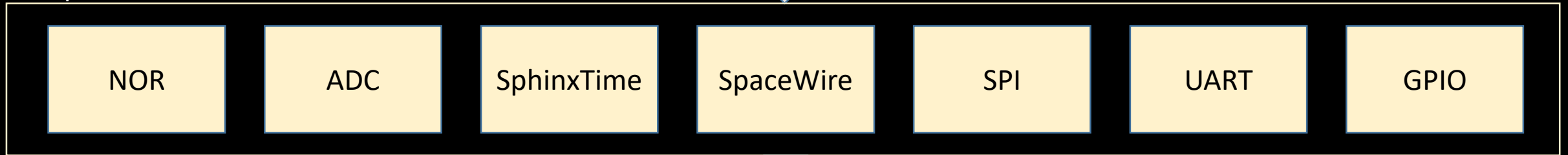
- Background
- Software Configuration
- Hardware Configuration
- Demo
- Conclusion

What is F`?

- F` Flight Software Framework
- A component-based architecture as well as a software framework to support it
- Uses the concept of software components
- Designed from the ground up to be compact and reusable
- Includes framework, code generators, build tools, Command/Telemetry GUI, and unit test environment
- Designed to make it easier for developers to concentrate on mission-specific logic rather than common implementation patterns.



F' Sphinx Drivers



Sphinx Reference Deployment



latest
F'



F' Sphinx Drivers

NOR

ADC

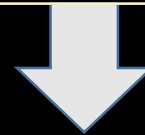
SphinxTime

SpaceWire

SPI

UART

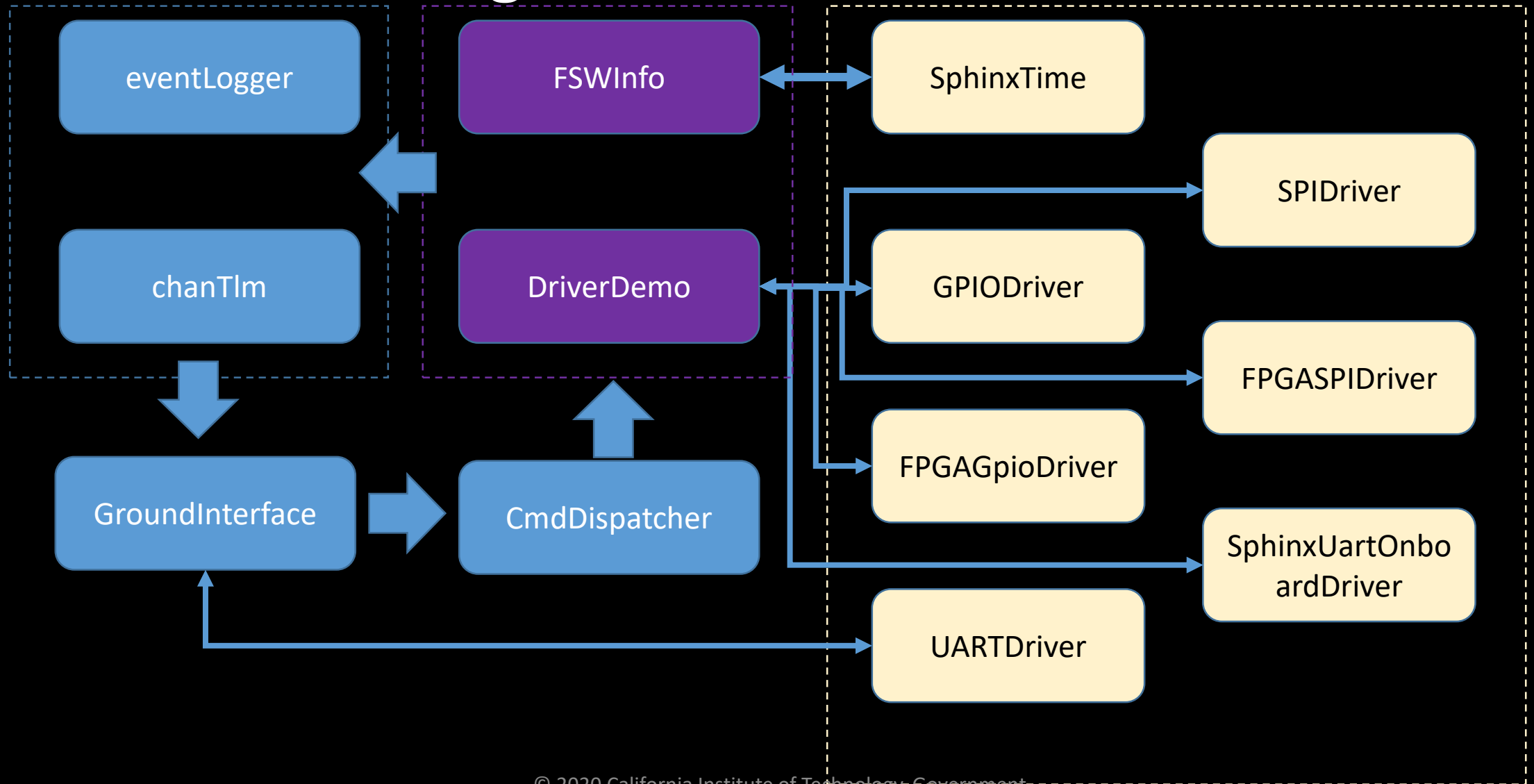
GPIO



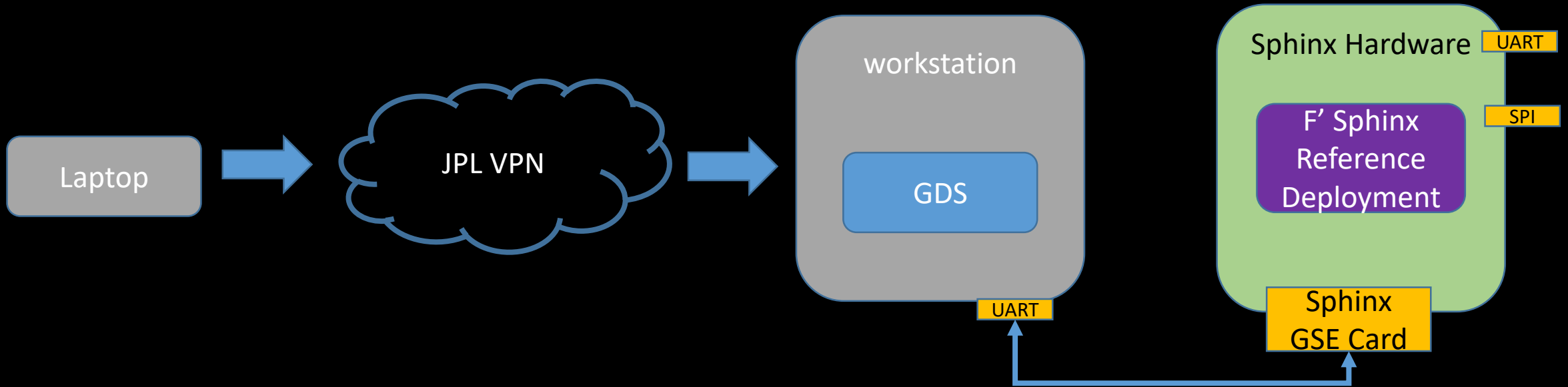
Sphinx Hardware

Software Configuration

- Sphinx Drivers
- F' Service Components
- Deployment Specific



Hardware Configuration



Demo

- <https://github.com/fprime-community/fprime-sphinx>
- <https://github.com/fprime-community/fprime-sphinx-drivers>

Conclusion

- Thanks to F' innate feature of modularity
 - Able to rapidly produce Sphinx Reference Deployment
- Sphinx Reference Deployment can be used as a starting point



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