

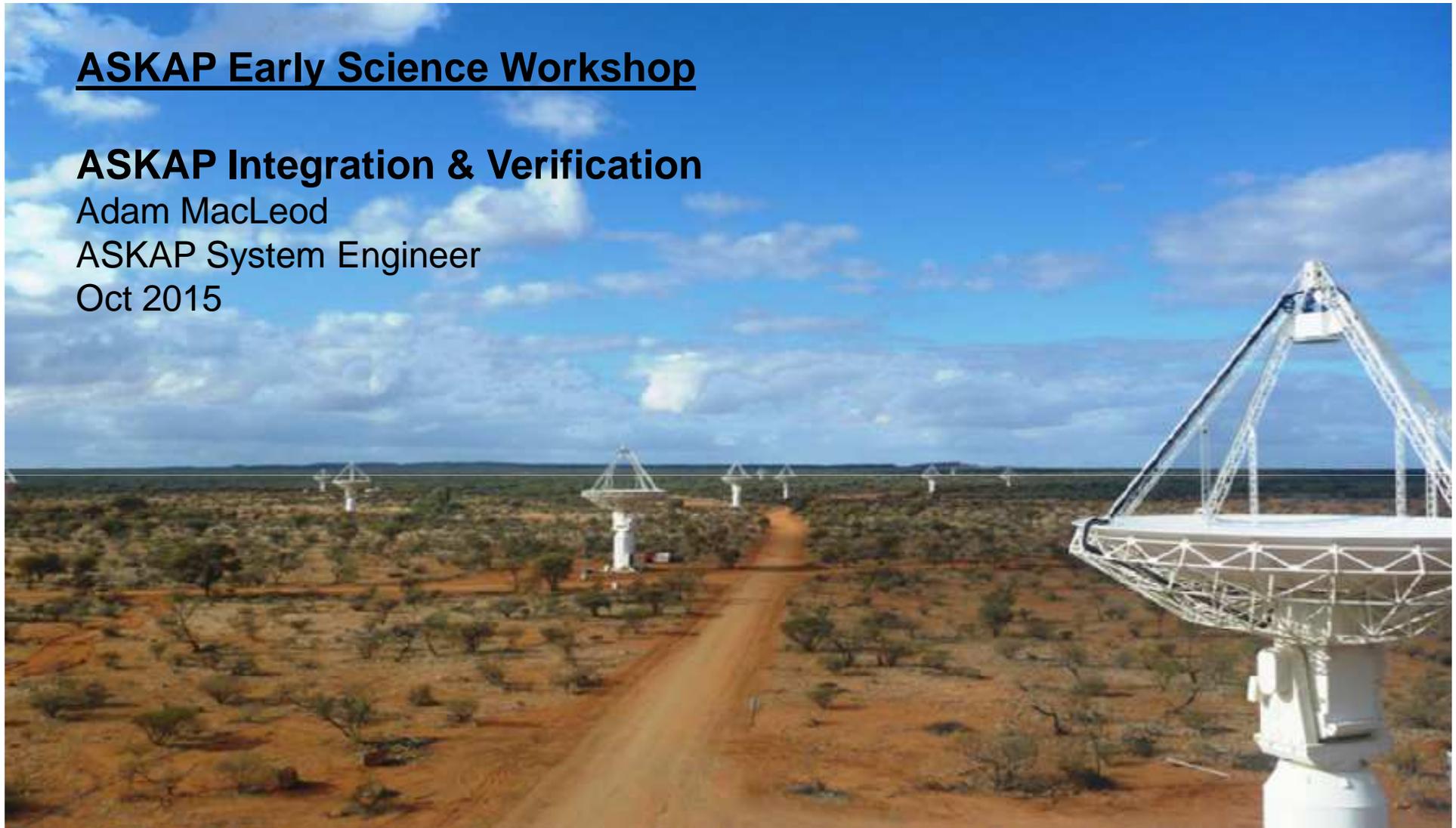
ASKAP Early Science Workshop

ASKAP Integration & Verification

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ASKAP Commissioning

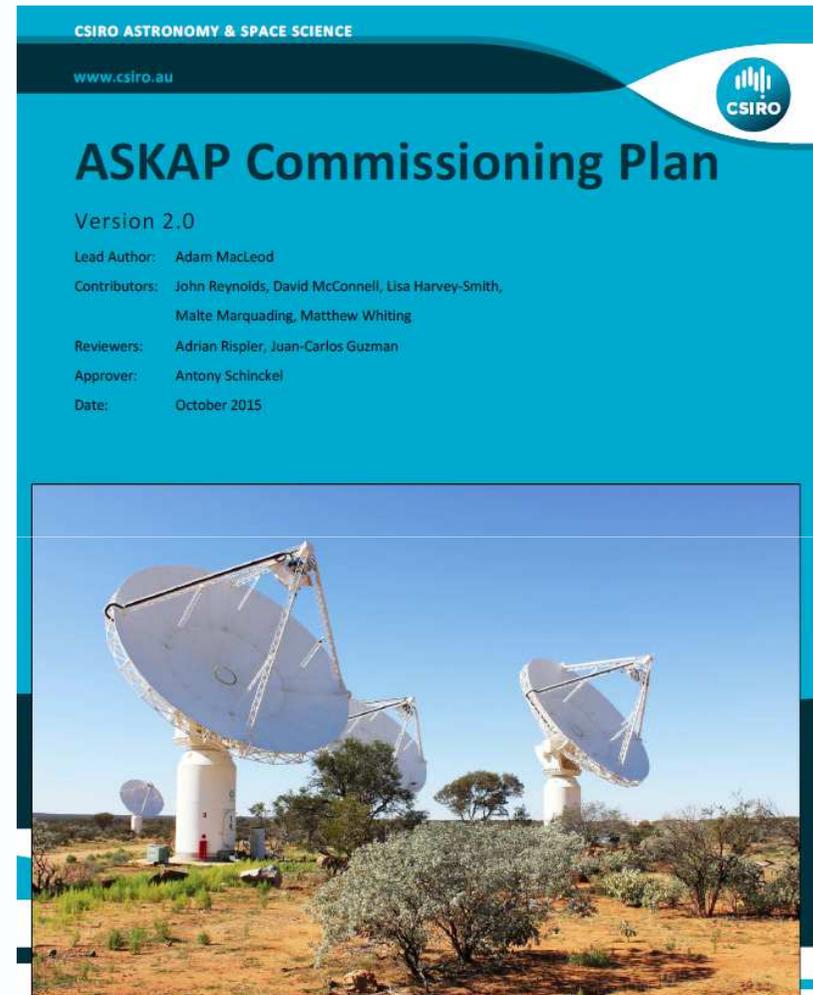
-ASKAP Commissioning Plan V2.0 about to be released.

-Identifies three major activities:

- Integration & Verification
- Commissioning
- Early Science

-Also identifies:

- Relationships between activities
- Relationships between the teams



CSIRO In-Confidence



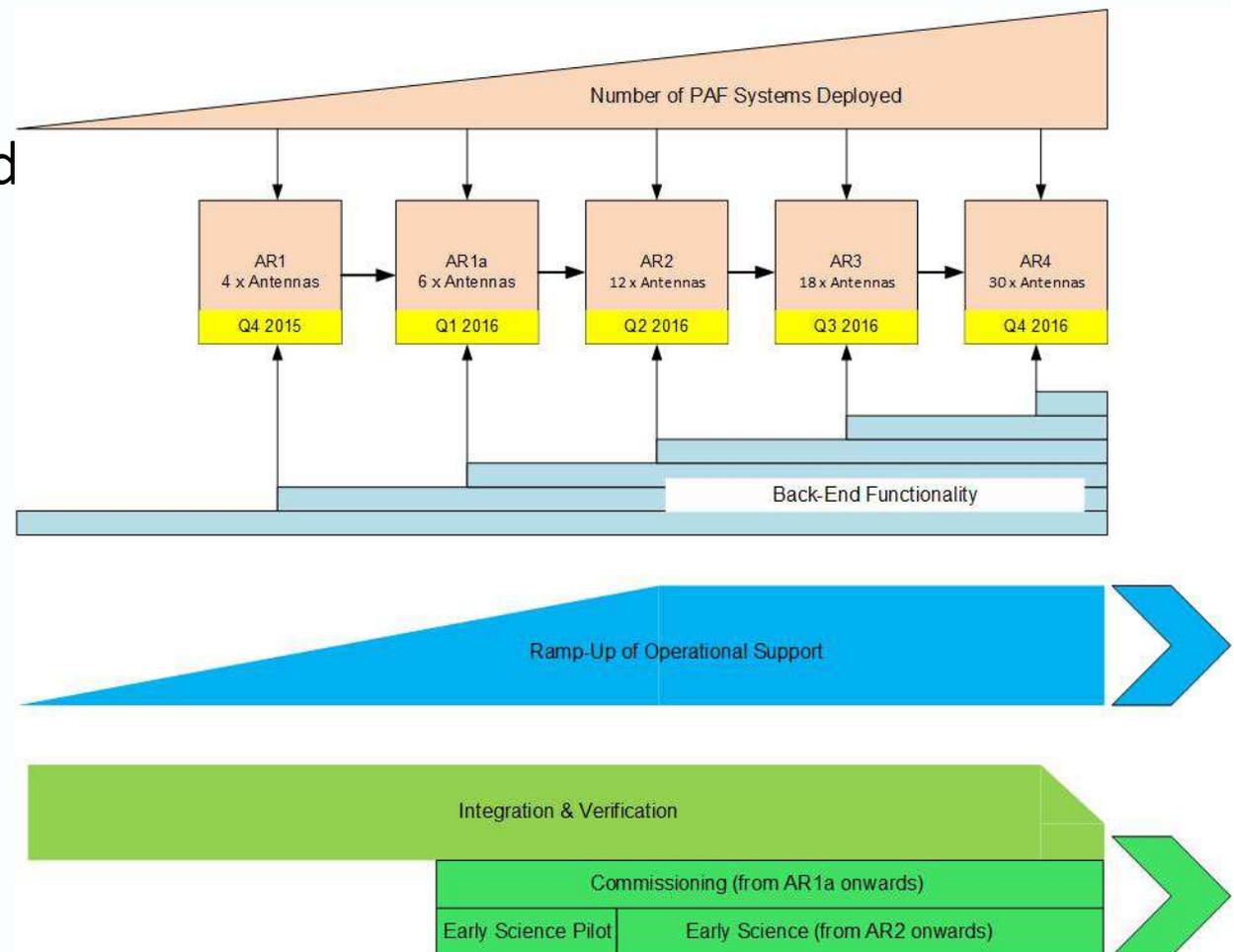
Commissioning Strategy

- An iterative process as PAF Systems and back-end capabilities are rolled out.

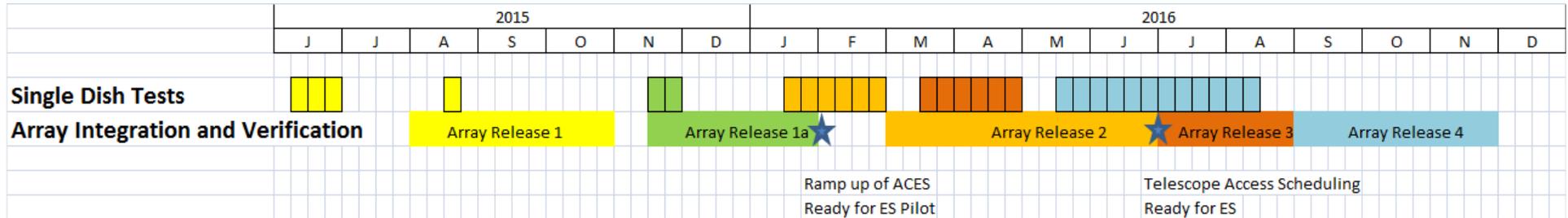
- A low risk approach.

- Allows instrument sharing.

- Facilitates feedback from scientists.



Detail on Planned I&V Activities



Notes:

- Dates have been taken from the SEIC schedule.
- There is approx 1 week for each single-dish test.
- Array I&V includes regression testing of the scaled array and verification of new functionality.
- Priority is on demonstrating array scalability, supporting stand-up modes of operation and increasing availability.
- On Dish Calibration system expected to be available for Array Release 2.
- On Line Processing is expected to be available for Array Release 3.

Managing the Growing Array

Adding and Removing Antennas

- New antennas will be integrated into the array and made available for telescope commissioning in batches.
- This is driven by Pawsey ingest scaling and the need to provide stable platforms for Integration & Verification and Early Science.
- Recommissioning array releases will involve some regression testing.

Back End Enhancements

- FW and SW systems are designed to handle switching versions quickly.
- However FW and SW will be rolled out in a measured way.....
 - Major releases -> will correspond with Array Releases.
 - Minor releases -> will be made between Array Releases.

Managing Access to the Array

Prior to the start of Early Science:

- Integration & Verification will be the priority.

After the start of Early Science:

- ASKAP Commissioning will remain an agile process.
- Short-term telescope access will be managed by a committee comprising **TBC** Phil Edwards (Head of Science Operations), John Reynolds (SEIC Leader), David McConnell (ACES Leader) and Lisa Harvey-Smith (ASKAP Project Scientist).
- ASKAP will move further towards a steady-state operational model.