

WEAVE management (as relevant to SV), general info and information flow

14 November 2019, IAC, Tenerife

Shoko Jin (Deputy Project Scientist)

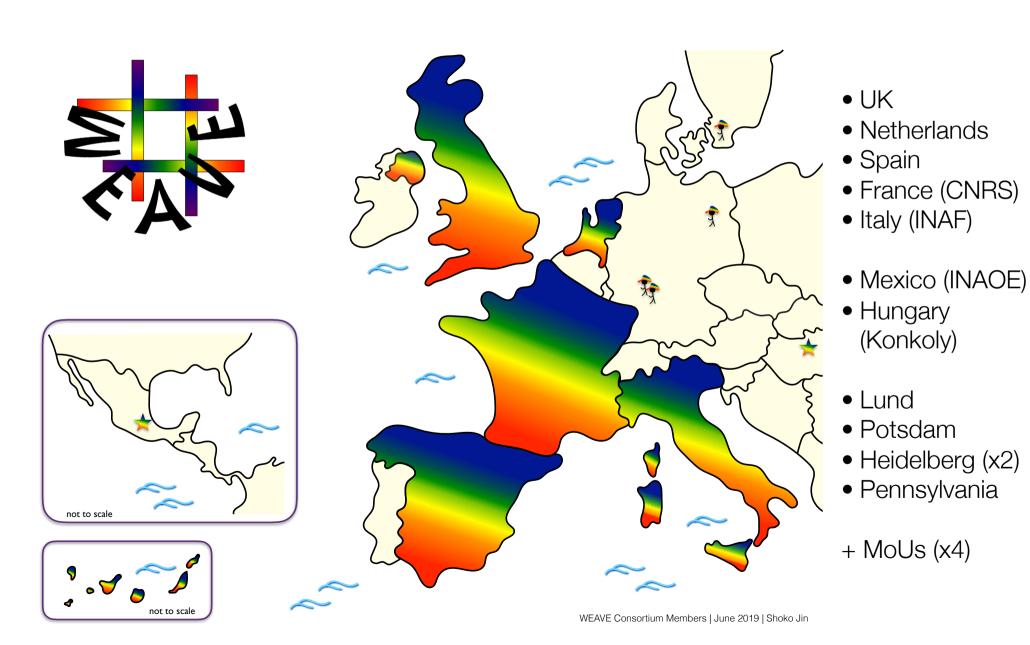
&

The WEAVE Survey Consortium

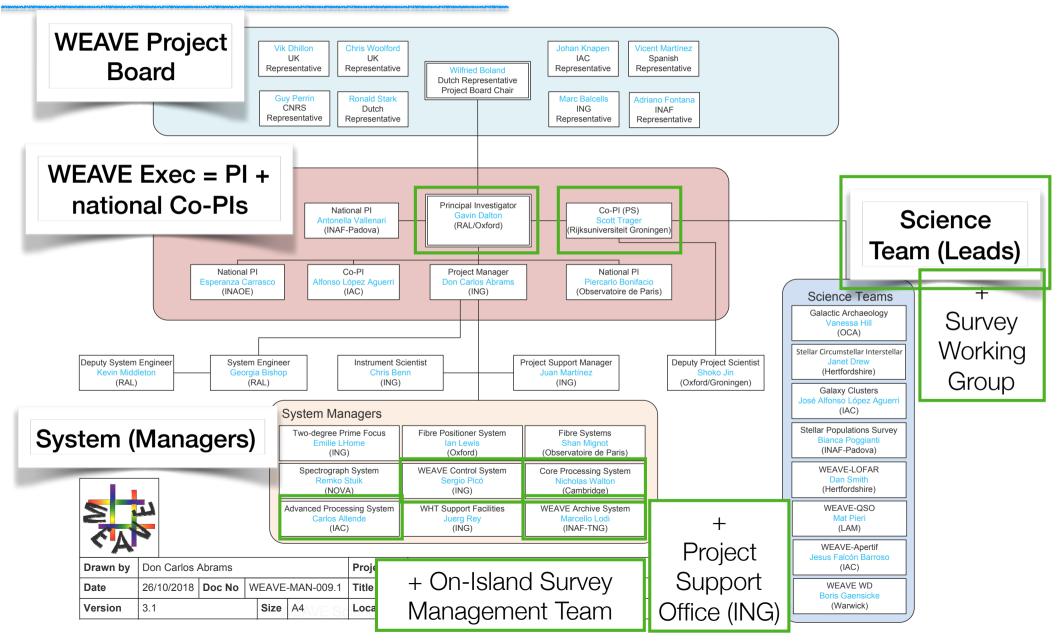
WEAVE management: the big picture

- WEAVE composed of two main parts:
 - WEAVE Project / Instrument Consortium responsible for delivery WEAVE instrument and facility (software as well as hardware)
 - WEAVE Science Team / Survey Consortium responsible for preparing for WEAVE Survey operations (both prior to and after first light)
- Within each part are many teams and sub-teams (just like any large collaboration)
 - Pls/Co-Is of Pl-led SV programmes will interact with set teams/individuals from the Instrument and Survey Consortia
- WEAVE PI is **Gavin Dalton (Oxford)**, Project Scientist is **Scott Trager (Groningen)**, Project manager is **Don Carlos Abrams (ING)**, Instrument Scientist is **Chris Benn (ING)**
- WEAVE Project (and Science) Executive members represent the main partner countries (ING countries – Spain, UK, the Netherlands + France, Italy, Mexico)

Who is involved in WEAVE?



WEAVE management: the big picture



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WEAVE information/data flow for SV

Phase 1

Phase 2

SV observations

Data access

ING portal for proposal submission (Chris, Javier @ING)

joint ING-WEAVE SV TAC (Marc, Chris, Scott, Shoko)

input FITS catalogues (Clare @CASU)

WEAVE Automated Submission Platform (WASP – David @CASU)

field configurations
(Survey Working Group, coordinated by Shoko @Groningen)

On-Island Survey Management Team (OISMT @ING)

Operational Repository (OR - David @Cambridge)

WEAVE Archive System (WAS @TNG)

WEAVE information/data flow for SV

Data access

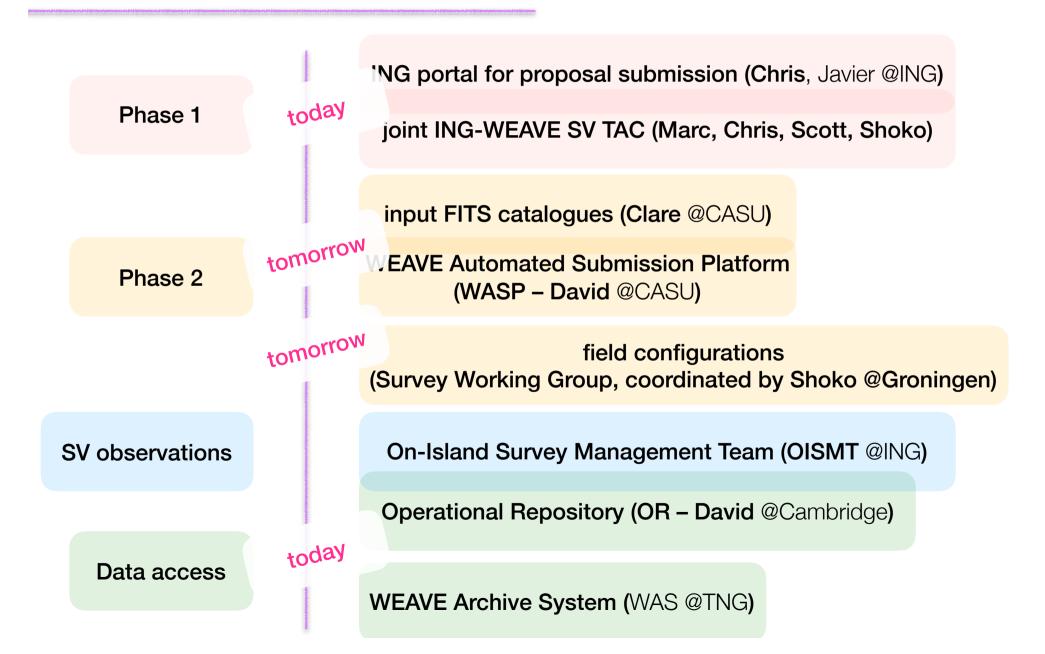
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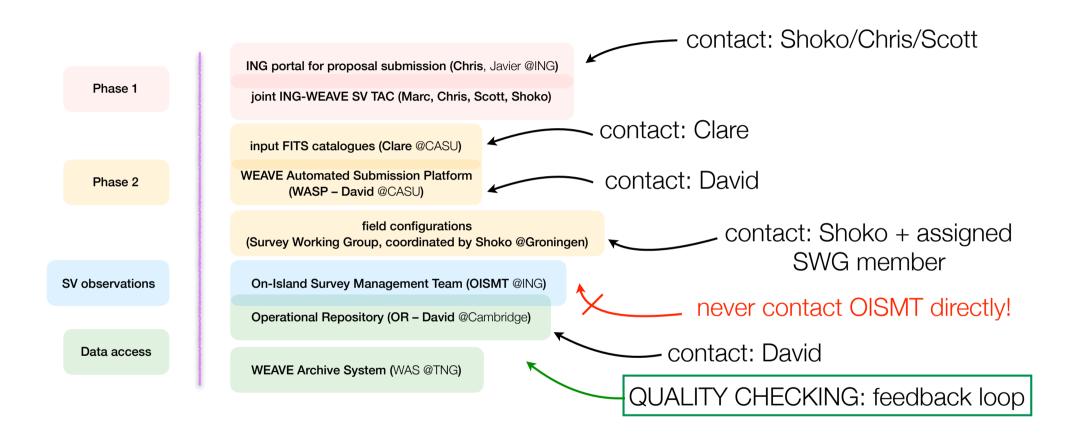
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WEAVE Archive System (WAS @TNG)

WEAVE information/data flow for SV



What/who does PI-led SV interact with?



For any questions, feel free to email Shoko (and please Cc Shoko on other emails)

Quality checking feedback mech.

- Access to data for quality-checking purposes will be through Operational Repository (OR – more info in David's and Shoko's talks later today)
 - Quality Assurance Groups (QAGs) of WEAVE surveys will be checking CPS and APS outputs for unexpected mishaps not caught by CPS and APS quality control checks...
 - Much of data from PI-led SV programmes looking at different targets and science output than those used to test WEAVE data analysis pipelines (i.e. Survey science)...
 - Science verification needs your help!



Exact mechanism for feedback to/from CPS and APS for Plled and Survey SV data still to be discussed.

Known need for clear communication channels and formalised mechanisms (not just emails... maybe also reports?).

Timeline (current estimate)

- 14-15 November 2019 WEAVE SV workshop your chance to ask any questions in person before submission of full proposal
- 2 December 2019 SV proposal form goes online; Pls asked to submit full proposals will be notified (WEAVE SV proposal online form)
- 15 December 2019 SV proposal deadline
- mid January 2020 responses from ING-WEAVE SV TAC to Pls
- April 2020 Pls contacted regarding preparation and submission of input FITS catalogues
- May 2020 input FITS catalogues due
- May-June 2020 SWG dry-run of field configurations (interactively with Pls)
- July/August 2020 probable WEAVE first light, followed by commissioning
- August 2020 SV observations for LIFU mode (might) start
- September 2020 SV observations for MOS (plate A, then plate B), then mIFU

Phase 1 = proposal submission

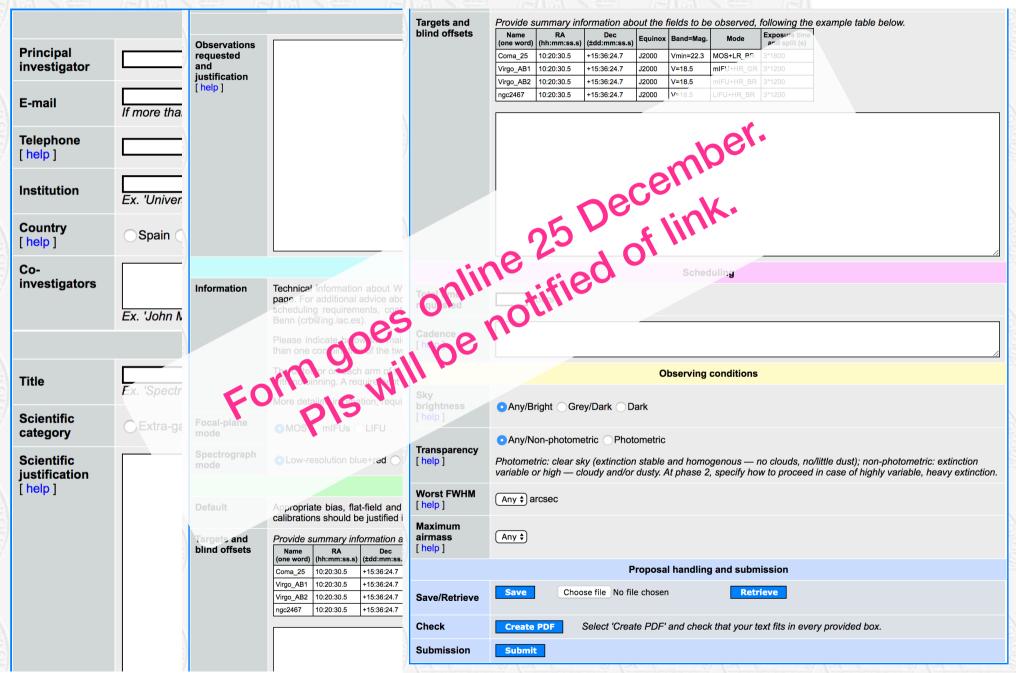
WEAVE Open-Time Science Verification – Phase 1

| Personal information | | | | | |
|---|--|--|--|--|--|
| Principal investigator | Ex. 'James Smith', 'Maria Gonzalez'. | | | | |
| E-mail | Again: | | | | |
| Telephone [help] | Daytime Evening (optional) | | | | |
| Institution | Ex. 'University of Bristol'. | | | | |
| Country [help] | Spain The Netherlands United Kingdom | | | | |
| Co- investigators | | | | | |
| | Ex. 'John Maxwell (Leicester University), Pedro Hernandez (IAC)'. | | | | |
| Scientific case | | | | | |
| Title | Ex. 'Spectroscopic monitoring of comet 67P/Churyumov-Gerasimenko'. | | | | |
| Scientific category | Extra-galactic Galactic Planetary systems | | | | |
| Scientific justification [help] | | | | | |
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WEAVE Open-Time Science Verification – Phase 1

| | | | | Technical case |
|-------------|---------------------------|-------------|--|--|
| | Principal investigator | | Observations requested and justification | |
| 1 | E-mail | If more tha | [help] | |
| 7 | Telephone [help] | | | |
| | Institution | Ex. 'Univer | | |
| \ \ \ | Country [help] | ○Spain (| | |
| j | Co- | | | WEAVE setup |
| | investigators | Ex. 'John N | Information | Technical information about WEAVE's observational capabilities can be found on the WEAVE instrumental overview page. For additional advice about observing strategy, or about observations with unusual setup, acquisition, tracking or scheduling requirements, contact any of Shoko Jin (jin@astro.rug.nl), Scott Trager (sctrager@astro.rug.nl) or Chris Benn (crb@ing.iac.es). |
| | | | | Please indicate below the main focal-plane mode (MOS, mIFUs or LIFU) and spectroscopic mode required. If more than one combination of the two modes is required, indicate this in the table of targets below. |
| | Title | Ex. 'Spectr | | The detector on each arm of the spectrograph is a mosaic of two 6k x 6k e2V CCDs. The default readout mode is slow, with no binning. A requirement for a different readout mode should be justified in the technical case above. More detailed infomation, required to construct the WEAVE observing blocks, will be sought in phase 2. |
| | Scientific category | Extra-ga | Focal-plane mode | • MOS mIFUs LIFU |
| | Scientific | | Spectrograph mode | ○ Low-resolution blue+red High-resolution blue+red High-resolution green+red |
| | justification [help] | | | Targets and calibrations |
| | | | Default | Appropriate bias, flat-field and wavelength-calibration exposures will be provided by default. Any additional required calibrations should be justified in the technical case above. |
| 7 | | A | Targets and blind offsets | Provide summary information about the fields to be observed, following the example table below. Name |
| | | 9 | 22 00010 | (one word) (hh:mm:ss.s) (±dd:mm:ss.s) Equinox (band=mag. mode and split (s) |
| | | | | Coma_25 10:20:30.5 +15:36:24.7 J2000 Vmin=22.3 MOS+LR_BR 3*1800 Virgo_AB1 10:20:30.5 +15:36:24.7 J2000 V=18.5 mlFU+HR_GR 3*1200 |
| ١ | | | | Virgo_AB2 10:20:30.5 +15:36:24.7 J2000 V=18.5 mlFU+HR_BR 3*1200 |
| | | | | ngc2467 10:20:30.5 +15:36:24.7 J2000 V=18.5 LIFU+HR_BR 3*1200 |
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| 9 | | 9 | | |

WEAVE Open-Time Science Verification – Phase 1



Phase 2 = rest of input work...

... which we'll cover tomorrow!

Rest of today is about WEAVE outputs (+ one more "general" talk)