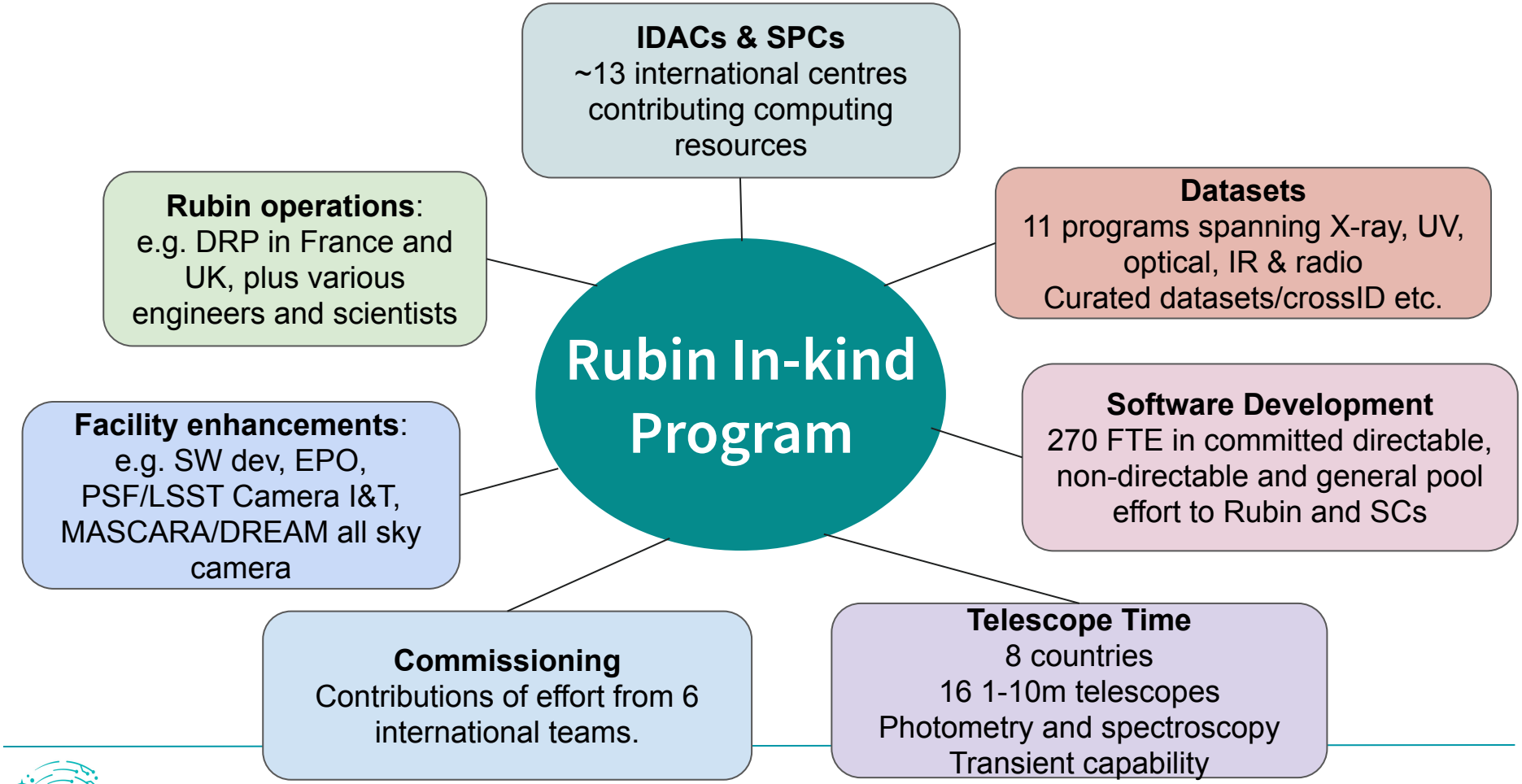
In-kind Program Overview

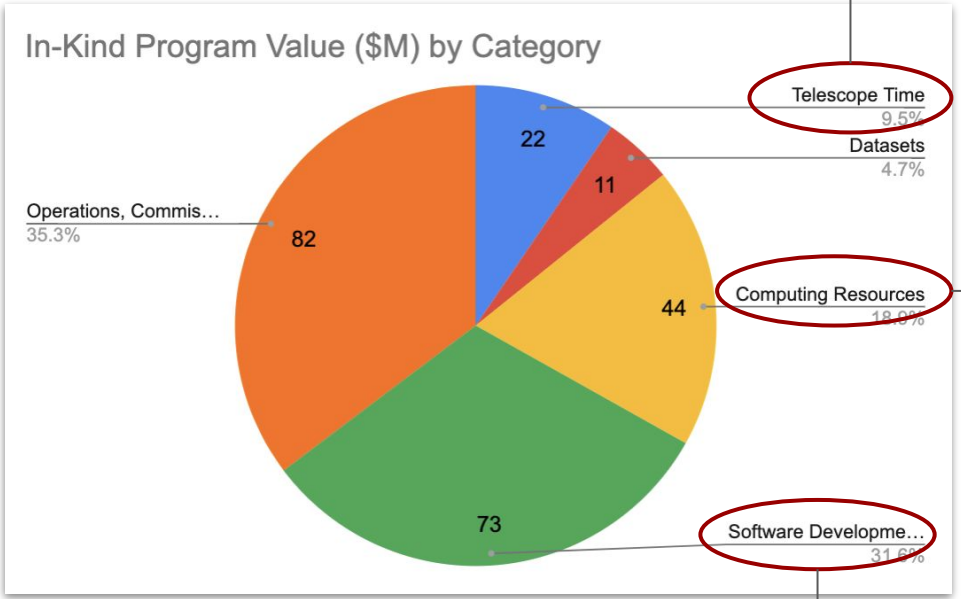
SAC meeting - part 2

Aprajita Verma & Phil Marshall for the IPC team


IDACs & SPCs
~13 international centres contributing computing resources
Rubin operations:
e.g. DRP in France and UK, plus various engineers and scientists
Datasets
11 programs spanning X-ray, UV, optical, IR & radio
Curated datasets/crossID etc.
Rubin In-kind Program
Facility enhancements:
e.g. SW dev, EPO, PSF/LSST Camera I&T, MASCARA/DREAM all sky camera
Software Development
270 FTE in committed directable, non-directable and general pool effort to Rubin and SCs
Commissioning
Contributions of effort from 6 international teams.
Telescope Time
8 countries
16 1-10m telescopes
Photometry and spectroscopy
Transient capability

Resources for the community

Includes Telescope Time that will be offered through NOIRLab, more info “Rubin In-kind Program Community Session” (Wednesday)

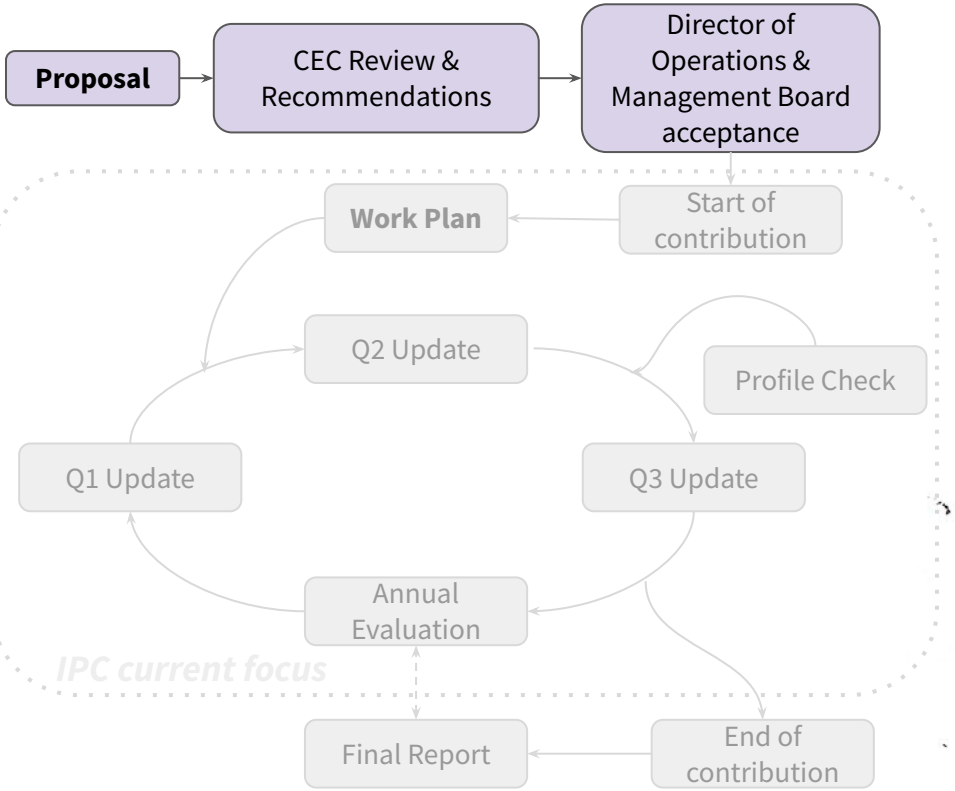


Primary Recipients	Type	Number of Contributions	Equivalent Value ($M)
AGN	Telescope Time and Datasets	1	0.1
AGN	Directable SW Effort	7	4.3
DESC	Telescope Time and Datasets	4	2.4
DESC	Non-directable SW Effort	6	3.5
DESC	Directable SW Effort	24	17.3
Galaxies	Non-directable SW Effort	3	2.5
Galaxies	Directable SW Effort	8	4.3
Solar System	Directable SW Effort	2	1.2
SMWLV	Non-directable SW Effort	1	1.2
SMWLV	Directable SW Effort	3	2.0
Strong Lensing	Non-directable SW Effort	1	0.3
Strong Lensing	Directable SW Effort	2	1.6
TVS	Telescope Time and Datasets	3	2.7
TVS	Non-directable SW Effort	3	1.7
TVS	Directable SW Effort	12	10.1
	Totals:	80	55.1

Includes general pool effort to help with gaps in Recipient S/W needs “Science Analysis S/W & Infrastructure” (Wednesday)

Includes CPU and storage - see the resources from the recent "Next steps for In-kind Computing Resources” (Thursday)

In-kind program Status: Accepted Proposals



153 in-kind contributions to Rubin and the LSST science community

43 individual international teams from **28** countries + US/Chile

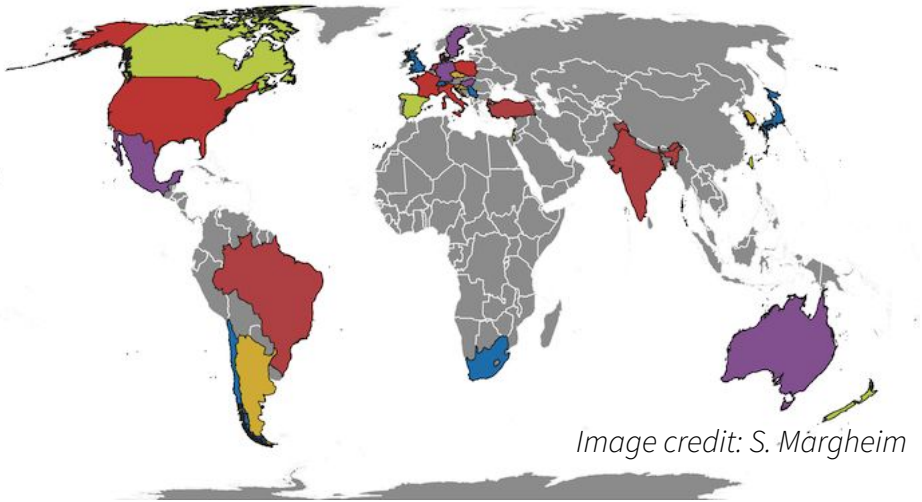
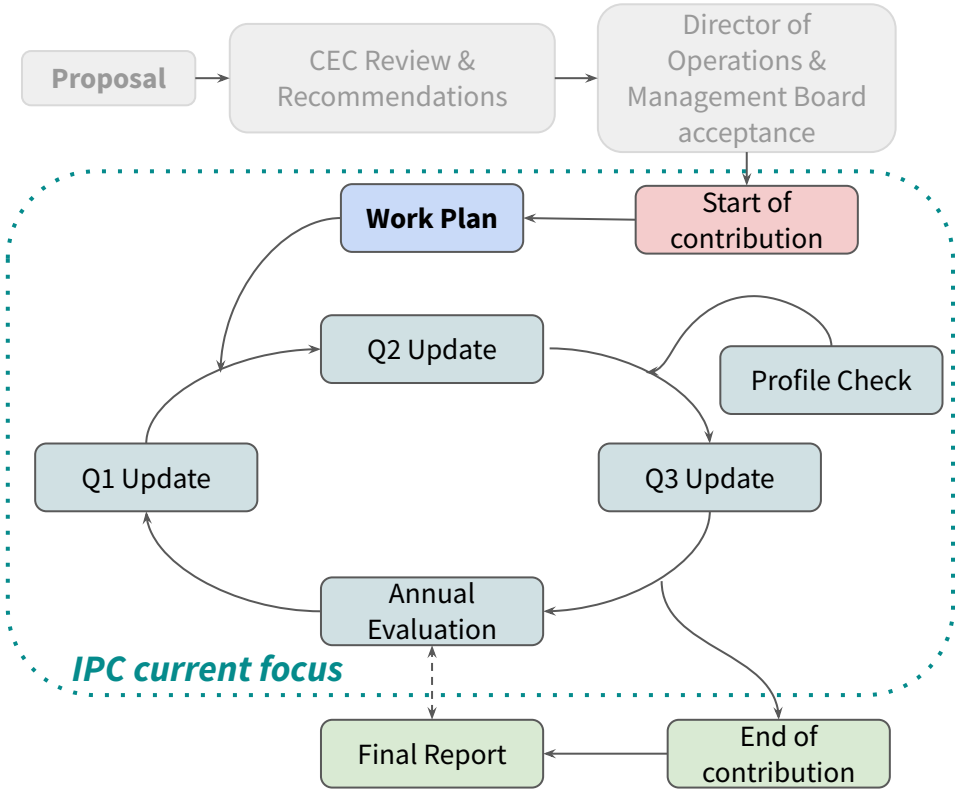


Image credit: S. Margheim

In-kind program Status: Active Phase

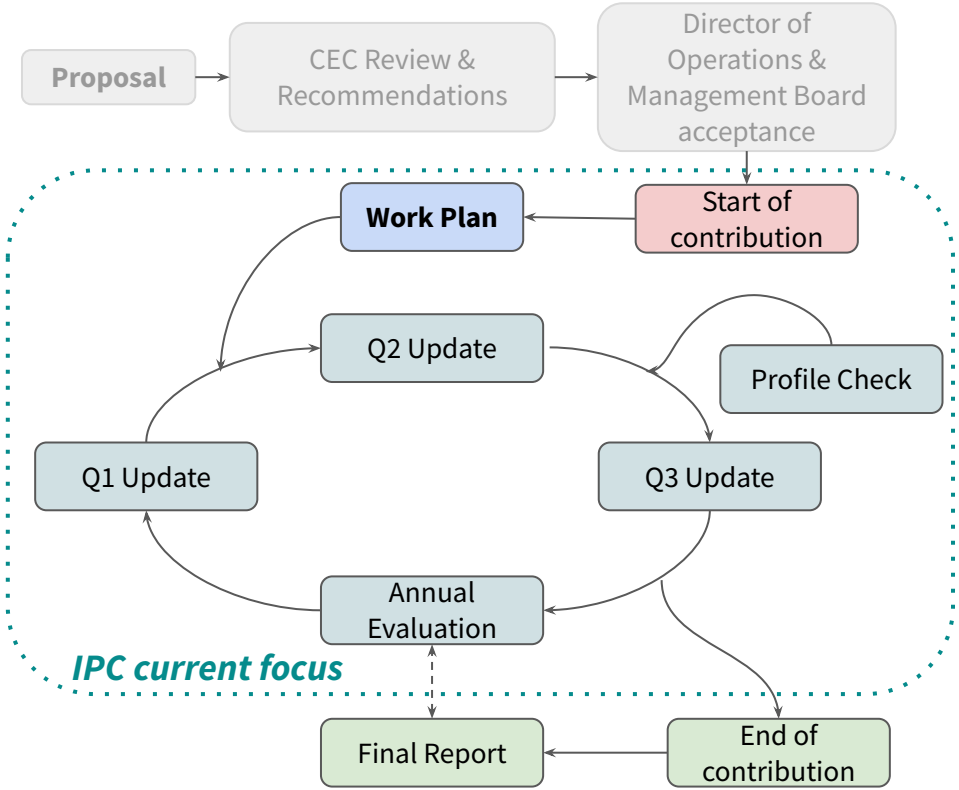


We currently have **58** Live contributions (including Tel time and IDACs)

Significant preparation and development of preparation and active concepts for

- IDACS/SPC
- AEON integration
- S/W progress and general pool utilisation
- DM/DRP
- Commissioning

In-kind program Status: Active Phase



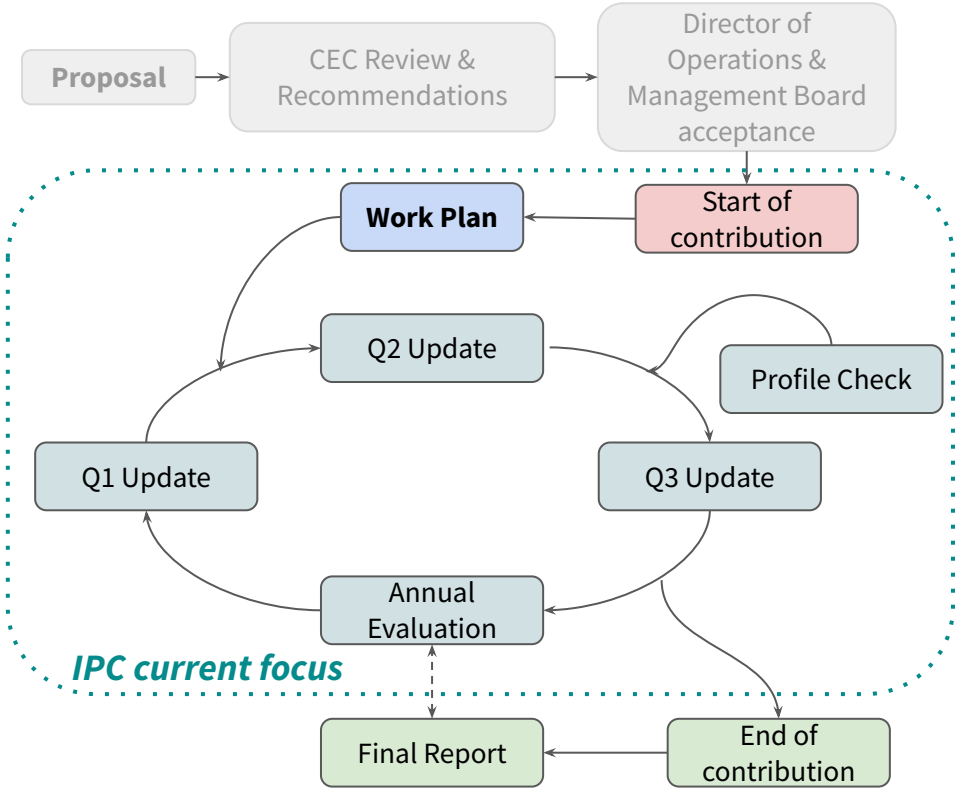
Reporting - work planning & updates

- Work plan agreed before start of contribution
- QU updates
- Process in place (improvements planned)

Simplifying front-end for system for contributors and recipients

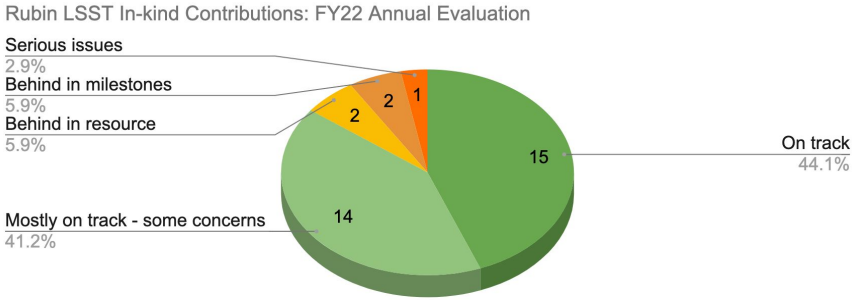
Quarter	Due by	Covers work done	Plan of work for
Q1	Dec week 2	Sep week 2 / Dec week 2	Jan - Mar
Q2	Mar week 2	Dec week 2 / Mar Week 2	Apr - Jun
Q3	Jun week 2	Mar week 2 / Jun week 2	Jul - Sep
Q4 / Annual Evaluation	Sep week 2	October preceding year to current September week 2	Oct - Dec

In-kind program Status: Active Phase



FY22 Annual Evaluation

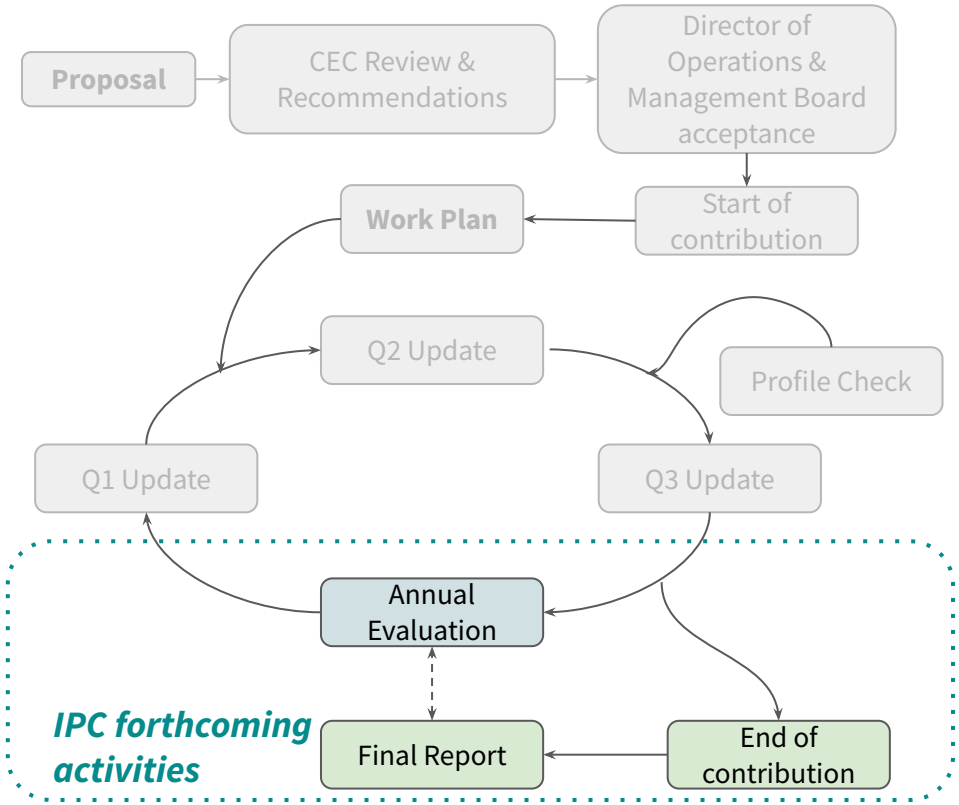
45 active contributions under went FY22 AE



Generally positive outcome

Actions taken to improve/resolve concerns (e.g serious issues resolved)

In-kind program Status: Active/Closing Phase



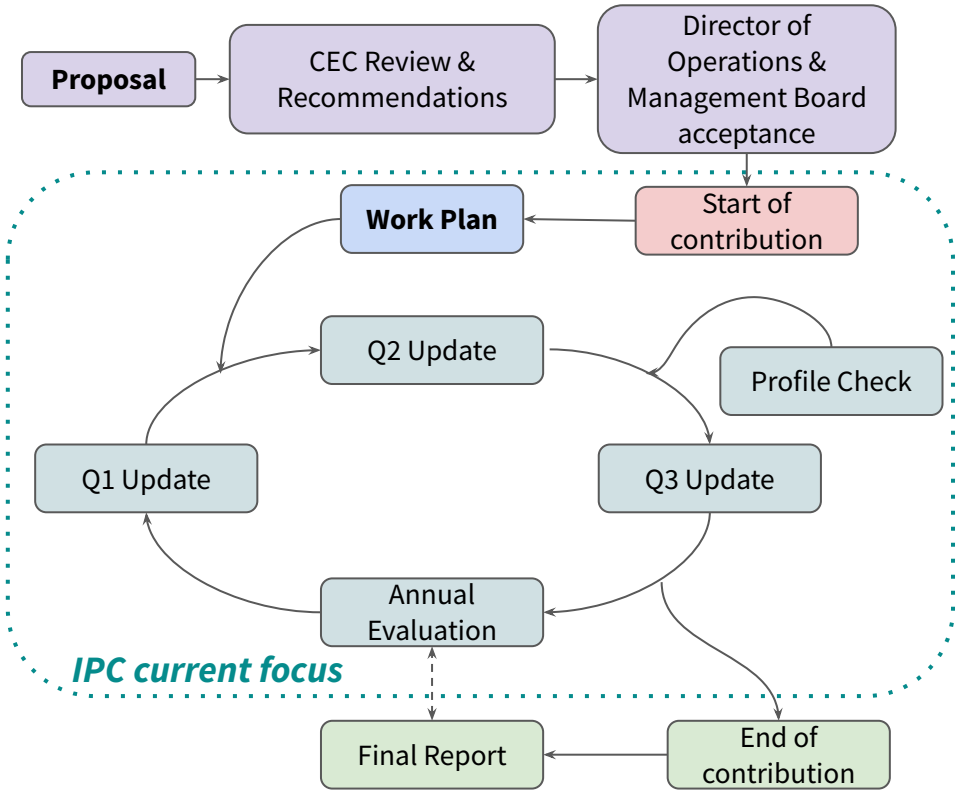
FY23 Annual Evaluation phase coming up

- Reports due in mid-Sep
- Recipient & IPC review Oct
- End Oct-mid Nov (including iteration and resolution of queries)
- Dec: report to Director of Operations & feedback sent

FY23 aim to make the process easier/simpler esp. for recipients & shorten the timeline

Some contributions have or nearing end of their terms, Final Reporting process being defined considering alignment to the AE process too

In-kind program Status: FY24 goals



All contributions are progressing and returning value to the recipients. Positive action to support and improve/redirect those that aren't…

Continue In-kind assemblies

- roughly each quarter
- Apil 2024 AE will be an opportunity to summarise the outcome o the AE that agencies (from programs making significant contribution to operations) will also be invited to.

Any expansion to the IKP will be focussed on recipient needs (open to anyone to respond)

Active plan to improve various aspects of the program and support all and esp. recipient groups

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LSST Data Rights Agreement Update

NSF NOIR Lab AURA SLAC U.S. DEPARTMENT OF ENERGY

LSST Data Rights Agreement Update

- DOE, SLAC, and AURA all now have DRA templates, including a common set of terms and conditions
  - AURA producing 26 IDRAs, one at a time. First 4 are with the programs.
  - SLAC assembling full package of 17 iCRADAs for DOE approval, prior to distribution to programs. iCRADA requires 5-year renewals but this is a formality.
- 2-year grace periods for JAs who either move abroad or get promoted to permanent positions
  - *People considering moves should check the data rights holder list for program status, and with the destinations' Program Managers for available PI/JA slots. Consult Bob & Phil about moves outside the current data rights region*

To date, Rubin's priority has been to successfully implement the approved program, with DRAs. An opportunity for programs to amend their contributions is being planned, per the Manual.

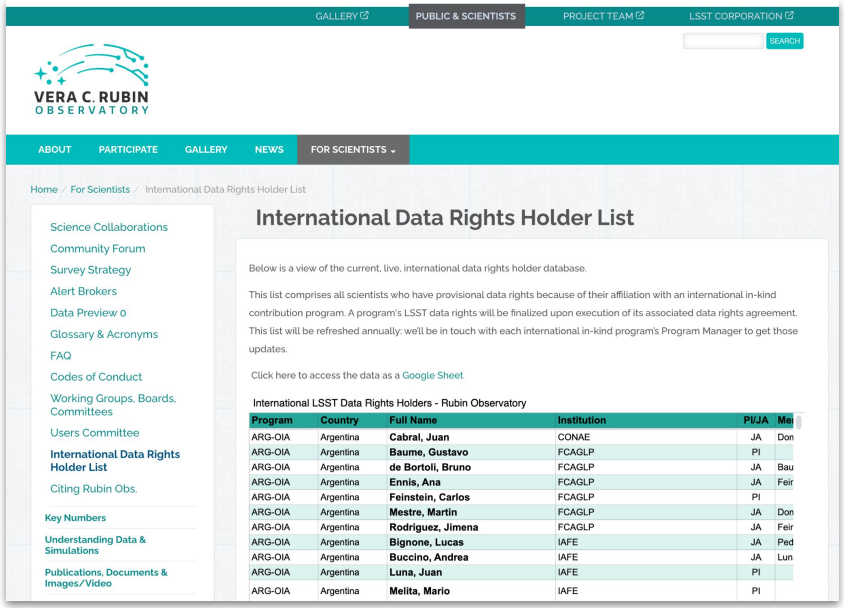
Announcement: Rubin will be issuing a rolling call for existing and prospective Recipient groups to identify opportunities for further in-kind contributions that are targeted to meet a specific need that they have.

These "resource needs" will be collected by simple web form, posted on a Rubin web page, and advertised by the IPC Team.

Teams in the US, Chile, or elsewhere, will then be able to "bid" to make new in-kind contributions that meet the needs identified. *Rubin anticipates accepting only a small number of new contributions. Bids from new international programs will NOT be considered in this year's call, but bids to expand the existing programs will be allowed.*

Data Rights Holders List

- Rubin manages data rights holder database
  - taken over from LSSTC on July 1 2021
  - International Data Rights Holder List
  - All enquiries to Rubin via Heather Shaughnessy
- Program Managers will receive requests to update their data rights holder (PI and JA) lists, with PI quotas based on their approved in-kind program
  - **FY24 update forms are now being distributed, to capture students and postdocs working on LSST science preparation this coming academic year**
  - The PM is responsible for maintaining their program's list of PIs and JAs
  - PIs and JAs defined in the Rubin Data Policy (Section 4.3): essentially, *JAs don't have means*
  - NB. JAs no longer need to "belong" to a PI at their institution. Instead, JAs just need a named mentor who is a PI in their program.



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Additional slides

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