

Subaru Instrument Plans toward ~2020s

Subaru internal discussion
(2016/12/16, 14:00 – 16:00, @ I04A)

Y. Koyama, I. Iwata, Y. Minowa, T. Hattori

ULTIMATE in Subaru 2020s

Dark nights

Bright nights

Spectroscopy

Imaging

PFS

HSC

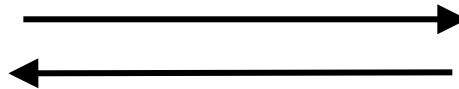
ULTIMATE

λ [um]

Subaru Direction

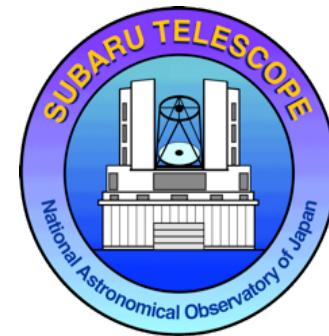
To keep competitiveness in 2020s, Subaru will become survey-oriented telescope taking advantage of wide-field capability – i.e. HSC/PFS/ULTIMATE – even if we lose part of functionality.

Community's needs



Operational constraints

Requirements from Japanese government & NAOJ-HQ



Subaru Direction

To keep competitiveness in 2020s, Subaru will become survey-oriented telescope taking advantage of wide-field capability – i.e. HSC/PFS/ULTIMATE – even if we lose part of functionality.

- Science interests
- PI instrument

- Reduce operation cost
- Instrument decommission
- International operation

Requirements from Japanese government & NAOJ HQ

Survey !

I need more time for SSP!

No money !

No more open-use time !



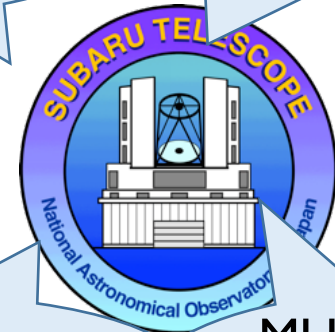
Non-survey !

I want to test our (TAO) instrument at Subaru!

International operation? I don't like it !

MUST reduce the instruments

MUST start intl. operation NOW!



Subaru Direction

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- Science interests

- Reduce operation cost
- Instrument decommission

Although it is probably impossible to make everyone happy – we should (always) consider the best option to keep competitiveness of Subaru up to ~2020s.



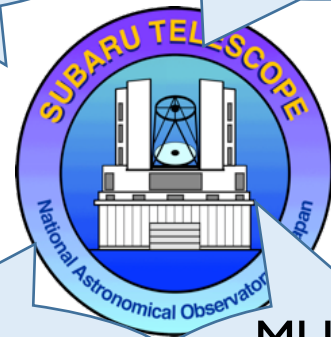
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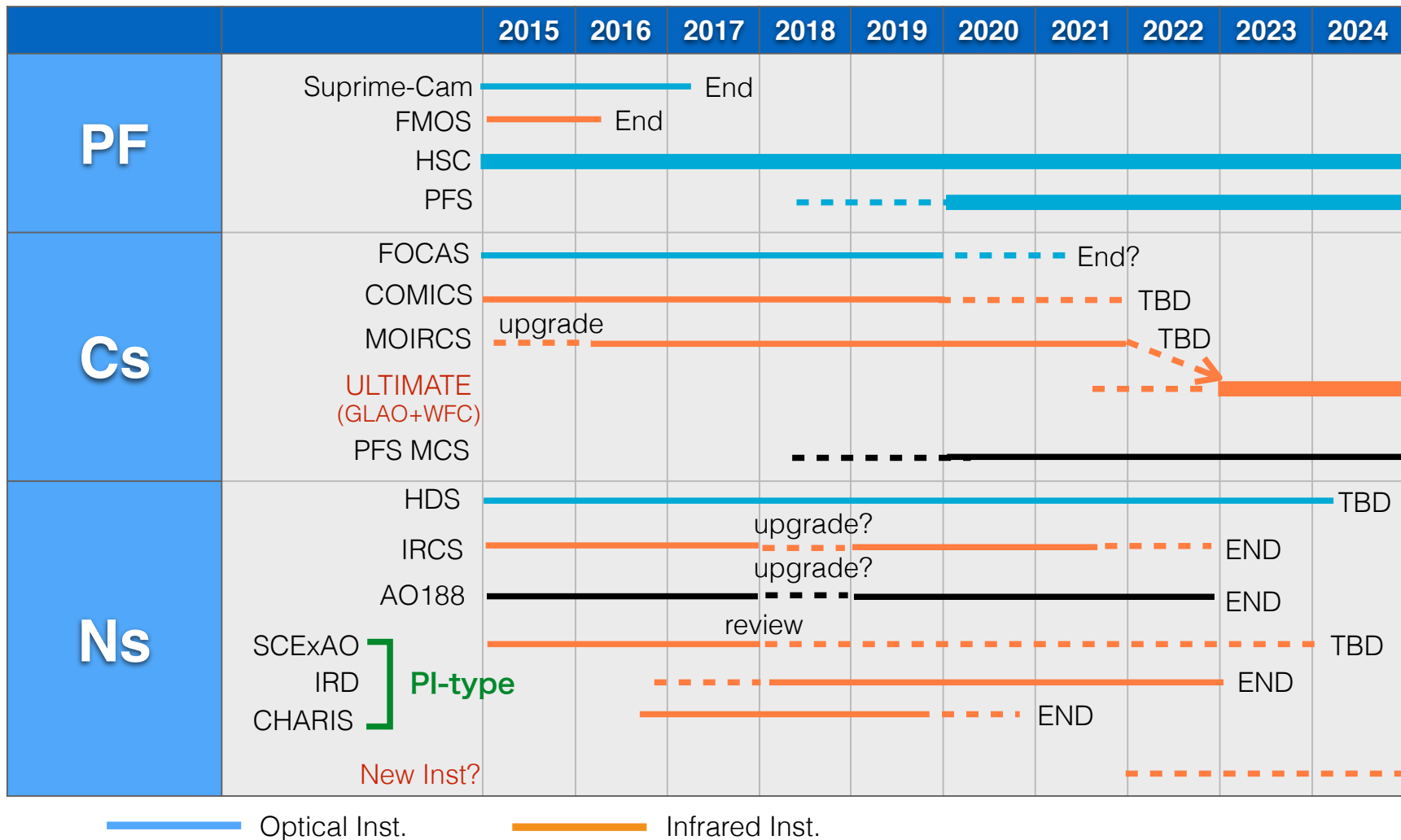
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Subaru Telescope

Instrument Timeline (version 2016/12/14)



Timeline

- 2016/09/21: Kick-off meeting (Koyama/Iwata/Minowa/Hattori)
- 2016/10/21: Follow-up meeting (Koyama/Iwata/Minowa/Hattori)
- 2016/11/14: Meeting w/ SciOp Division
- 2016/12/16 : Meeting within Subaru ← TODAY
- 2016/12/19 : Discussion in SAC
- 2016/01/09 : Discussion with community in Subaru UM

Goals of today's meeting

- To share the rough idea of our future instrument plan and have broad consensus.
- To have inputs/comments from each division based on your experience (not only scientific point of views).
- Please be relaxed! We will keep updating the plan to maximize the outputs of Subaru, by considering the science trends, directions of other observatories, and the delay of TMT...

Today

1. Background/motivation (Iwata)
2. PFS schedule (Minowa)
3. Summary of our current plan (Koyama)
4. Open discussion