

# ***KAGRA Overview***

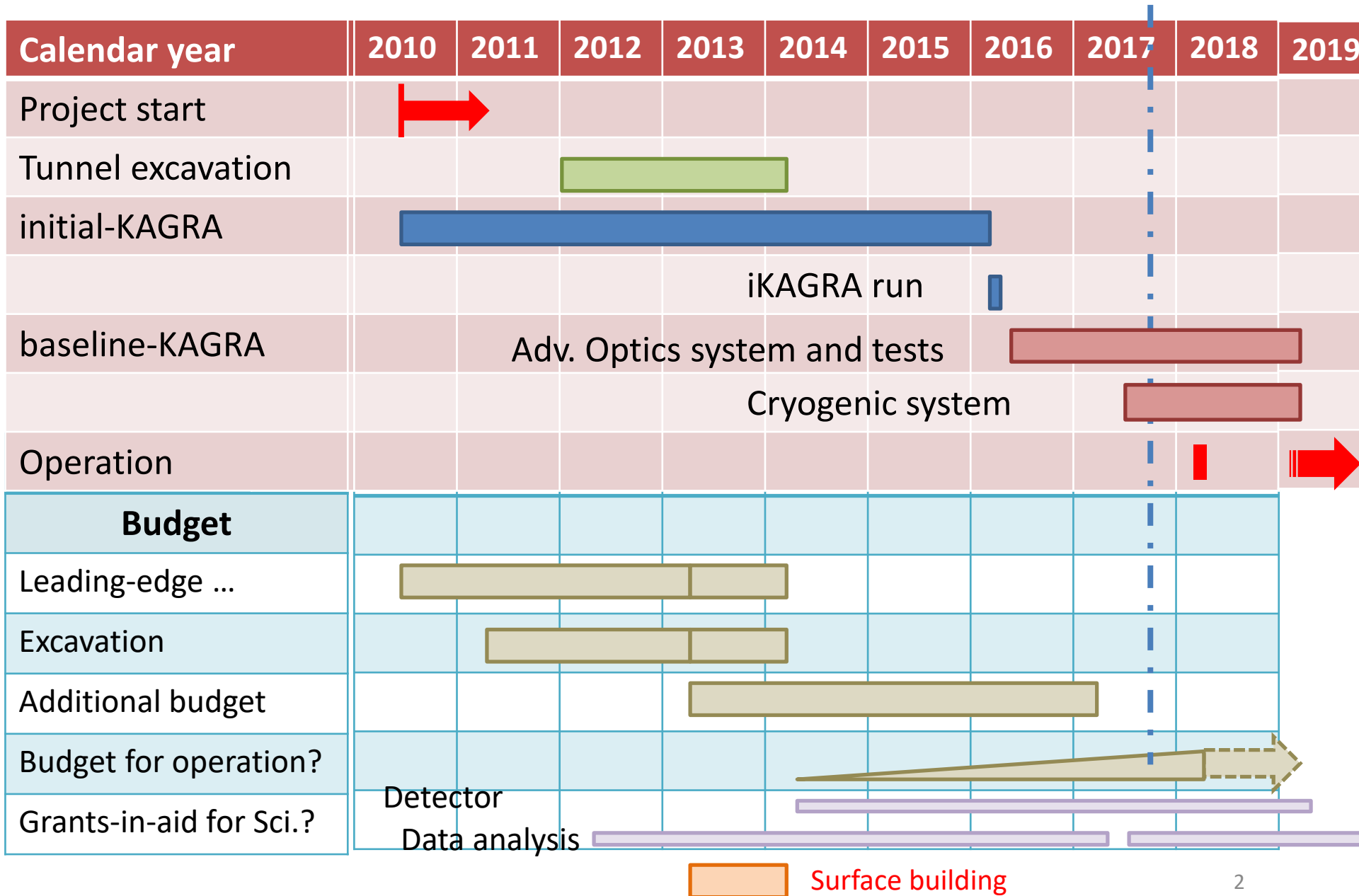
Aug. 28, 2017

KAGRA International Face-to-Face meeting

@University of Toyama

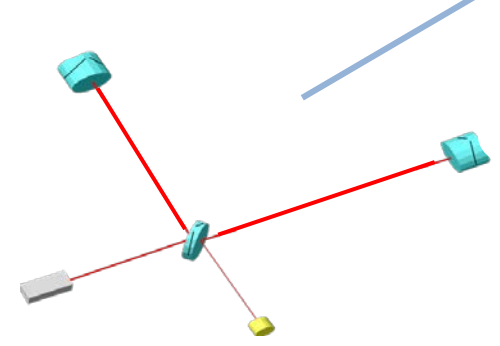
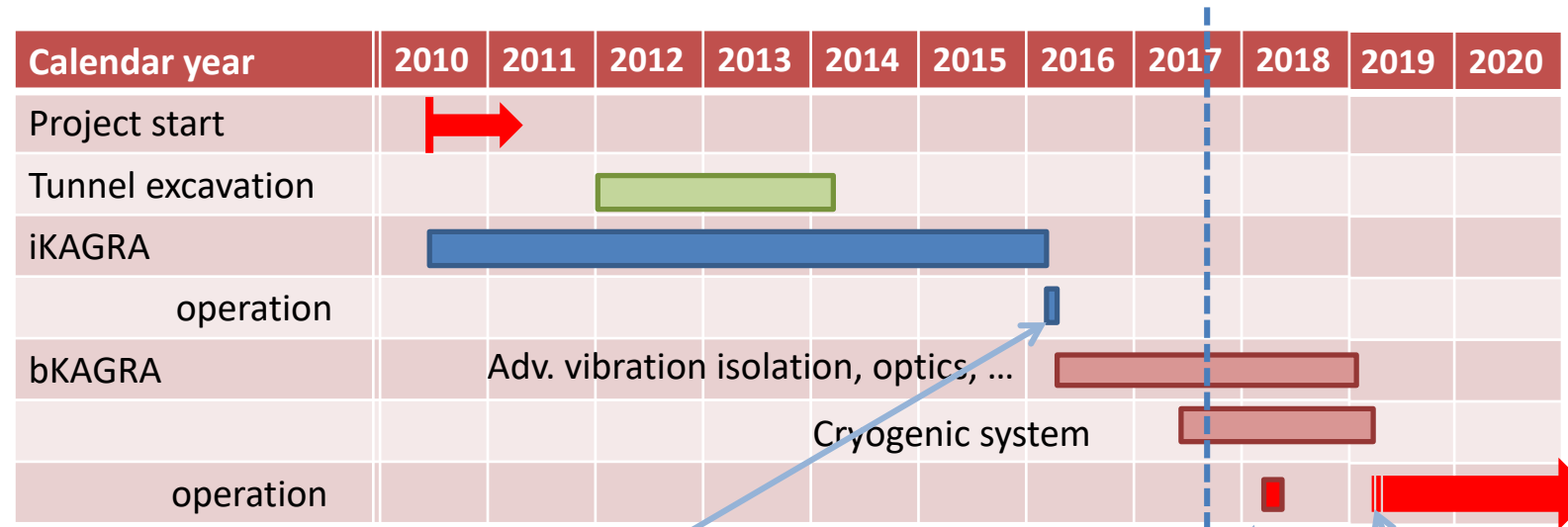
Takaaki Kajita

# Budget and schedule

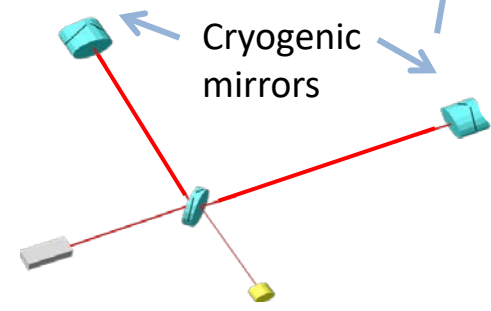


# Schedule (2) (Construction and Operation)

Already one year has passed after the iKAGRA run.



iKAGRA



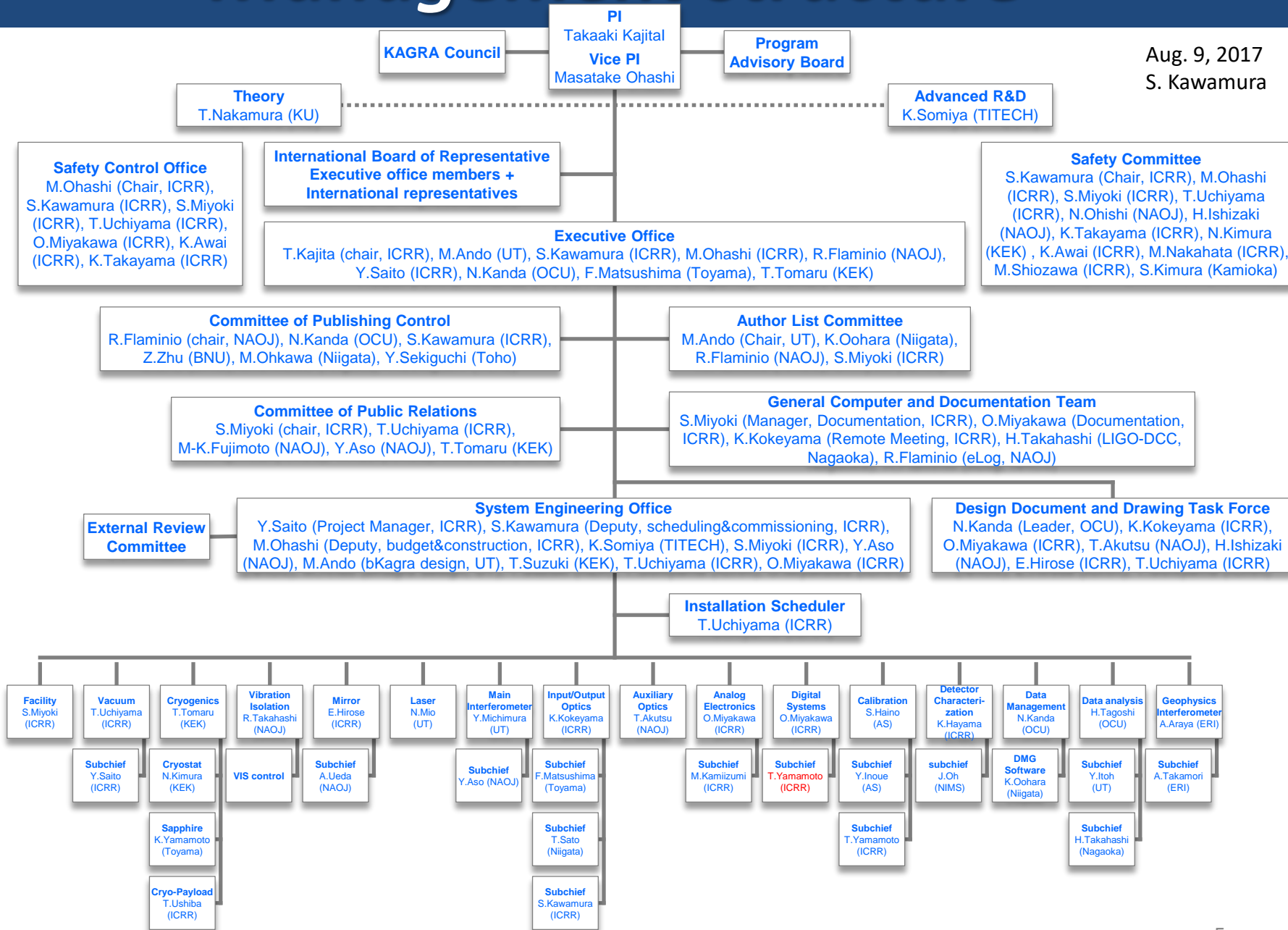
bKAGRA

# *New in the Schedule*

- Previously, there was an option to have a Power-recycling Cryogenic Michelson operation after the Cryogenic Michelson operation.
- Decision was made not to have the Power-recycling Cryogenic Michelson phase.
- After the Cryogenic Michelson operation, we immediately move on to the bKAGRA phase-II (final configuration).

# Management structure

Aug. 9, 2017  
S. Kawamura



# *Changes in the Management structure*

*(after the previous F2F meeting)*

- New chief: K. Kokeyama (Input-Output-Optics)  
(S. Kawamura steps down to sub-chief of IOO)
- New sub-chief: T. Ushiba (Cryo-payload)
- New sub-chief: T. Yamamoto (Digital system)
- Commissioning leaders:
  - Leader: Kawamura
  - Sub-leader: Miyakawa
  - (We ask S. Miyoki to explicitly work on the budget request etc.)
- Now, the KAGRA Organization chart is posted in the KAGRA home page.

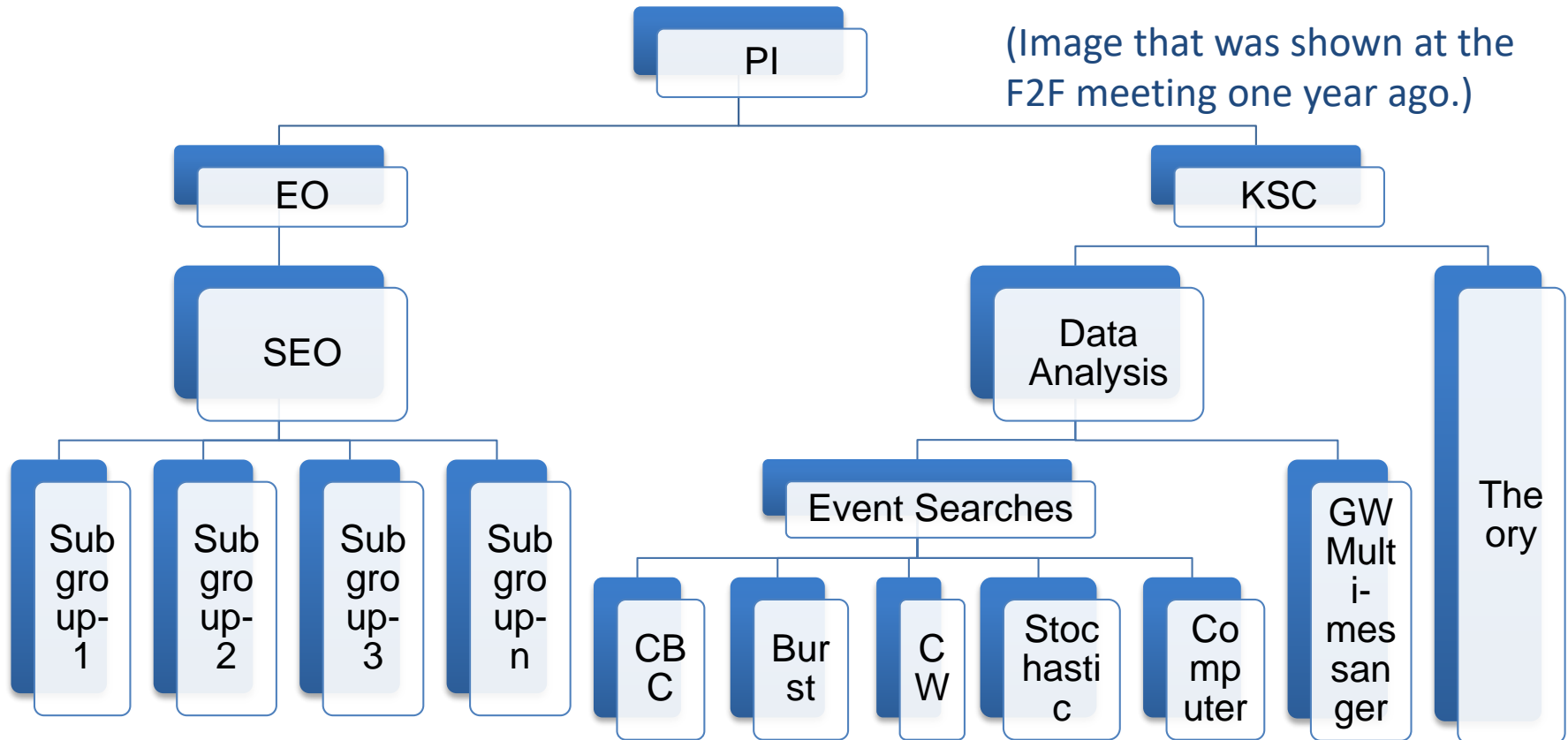
# *Changes in the Management structure*

*(after the previous F2F meeting)*

- Decided to explicitly assign the role for sub-chiefs (if there are 2 or more for a sub-group)
  - CAL: Inoue: Development and operation of photon calibrator  
Yamamoto T: Online and offline h(t) reconstruction
  - IOO: Moriwaki: Intensity stabilization system and green lock system  
Sato: Input mode cleaner alignment control system and beam dumper  
Kawamura: General support for the IOO chief in all the aspects of IOO
  - CRY: Kimura (cryostat), Yamamoto K (sapphire), Ushiba (payload)
  - DAS: Itoh Y: Continuous wave search, management of the DAS project server  
Takahashi H: GW analysis with Hilbert-Huang Transformation

# Image of the future Organization Chart

- ✓ bKAGRA construction will finish within ~1.5 years. We move on to the operations phase (after the commissioning phase).
- ✓ It is time for us to think about the future organization (in the observation era) chart including KSC, data analysis teams and “GW Multi-messenger”.





# *Budget related*

- As already announced, the budget for FY2017 from the Japanese government is:
  - Operations budget → 4.0257 Oku-yen ( $10^8$  yen), which is about 89% of the budget we requested. The official reason for the 11% cut was due to the non-completion of the bKAGRA construction in FY2017.
- The budget request for FY2018 (4.5257 Oku-yen), has been submitted to MEXT.
- The new Grants-in-Aid for Scientific Researches:
  - (PI: T. Tanaka, “Gravitational wave Physics and Astronomy: Genesis”, Grant-in-Aid for Scientific Research on Innovative Areas)
  - (PI: N. Kanda, “Calibration Standard and High-Precision Data Analysis toward the Observational Era of Gravitational Waves” (Grant-in-Aid for Scientific Research-S))

# *Official sensitivity curve and related*

- There are several “KAGRA official sensitivity curves”. It was decided that the sensitivity curves are controlled.
- In the near future, we will have the bKAGRA data and data-analysis results. KAGRA have to make the rule to make/maintain the official results. (Also, we need to begin the discussion on the policy to open data to non-KAGRA collaborators.)

# *Reviews*

- KAGRA Program Advisory Board meeting will be held on Sep. 28 (0:00 to 2:00am).

# *Summary*

- We have many discussions in this meeting.

