

Satellite meeting on future upgrade of KAGRA

2018/12/4

NATIONAL ASTRONOMICAL OBSERVATORY OF JAPAN

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Historical Context

- An issue on the “authorized R&D” for the purpose of authorship was raised by Aso at the F2F in May 2018
- A working group proposed to set up a committee called “R&D committee” to do two things:
 1. Formulate a future upgrade plan of KAGRA (produce a white paper)
 2. Coordinate the selection process of “KAGRA project R&D”
- Creation of the R&D committee was approved by KSC at the F2F in August 2018

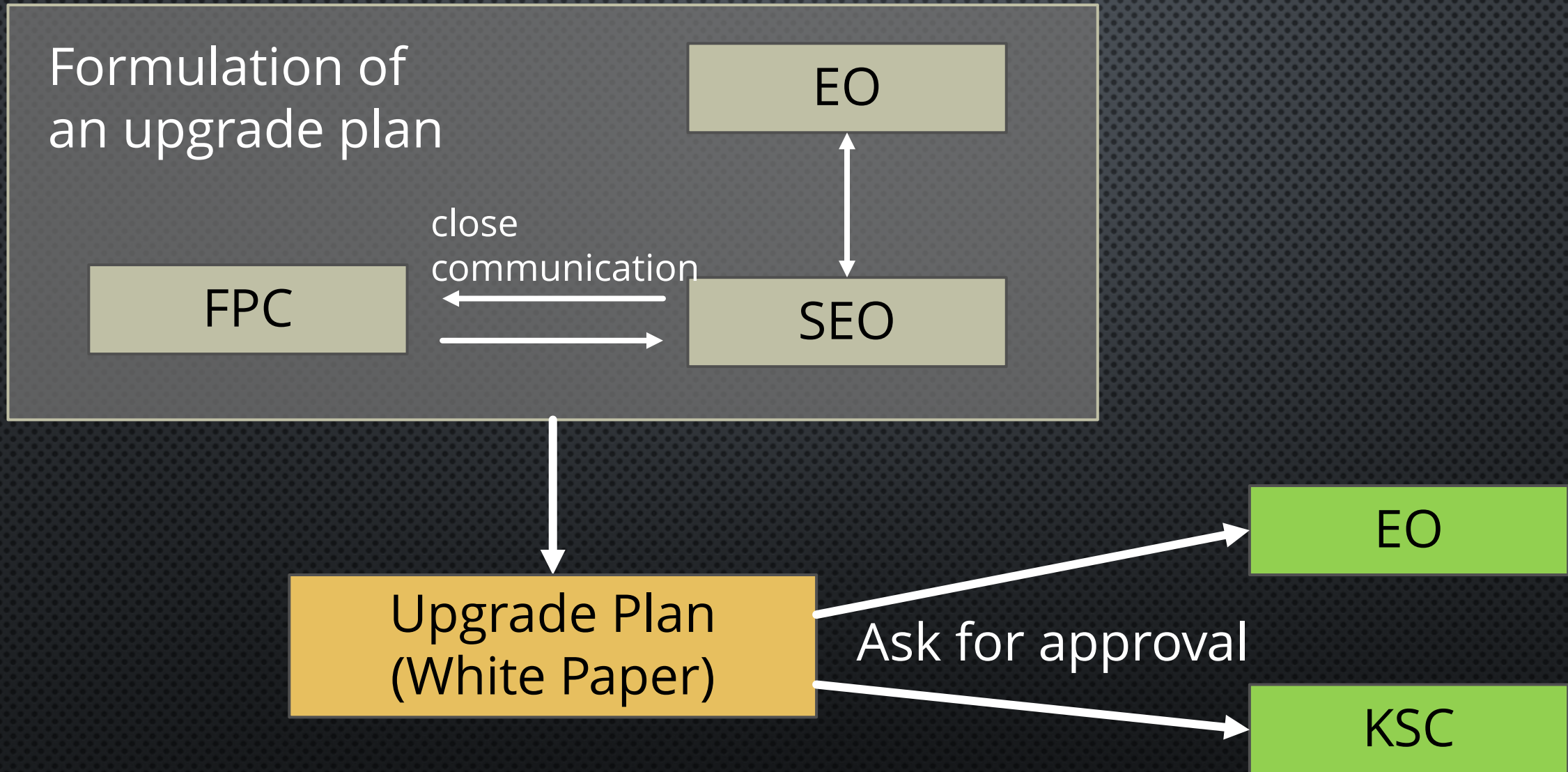
Development after August F2F

- Aso discussed with many people including Kajita-san
- At the KSC telecon on 2018/11/19:
 - Separation of the original “R&D committee” into two committees was proposed:
 1. **Future Planning Committee (FPC)**
 - This committee will organize the discussion and formulation of a future upgrade plan for KAGRA
 2. **R&D committee (RDC)**
 - This committee will coordinate the selection process of “KAGRA project R&D”

What is future planning committee ?

- A committee to organize the work to formulate a realistic upgrade plan for KAGRA
- The committee will be composed of a chair and several members.
- The role of the committee is “**management / coordination**”.
 - This means, actual work (calculations/simulations) can be done by non-committee members.
 - Contributions from the broad collaborators, especially young postdocs and grad. students, are encouraged.
 - FPC will host several sub groups to work on specific fields, such as quantum noise, vibration isolation, cryogenic etc.

Work flow of the FPC



Steps to start the committee

- KSC telecon (done on Nov. 19)
 - Proposal of the committee
 - General discussions
- KSC board will call for nomination/self-nomination for the committee members (done)
- KSC board will propose a chair and members of the committee before the Dec. F2F
- Hold a satellite meeting on KAGRA upgrade before the F2F meeting. (this meeting)
- Proposed chair and members of the FPC will be approved (or not approved) by KSC at the KSC session.

Today's program

- Summary of the past discussions (Y. Michimura)
- Contributed talks on technical developments (various people)
- Discussion on how to organize the FPC work