



# *KAGRA Overview*

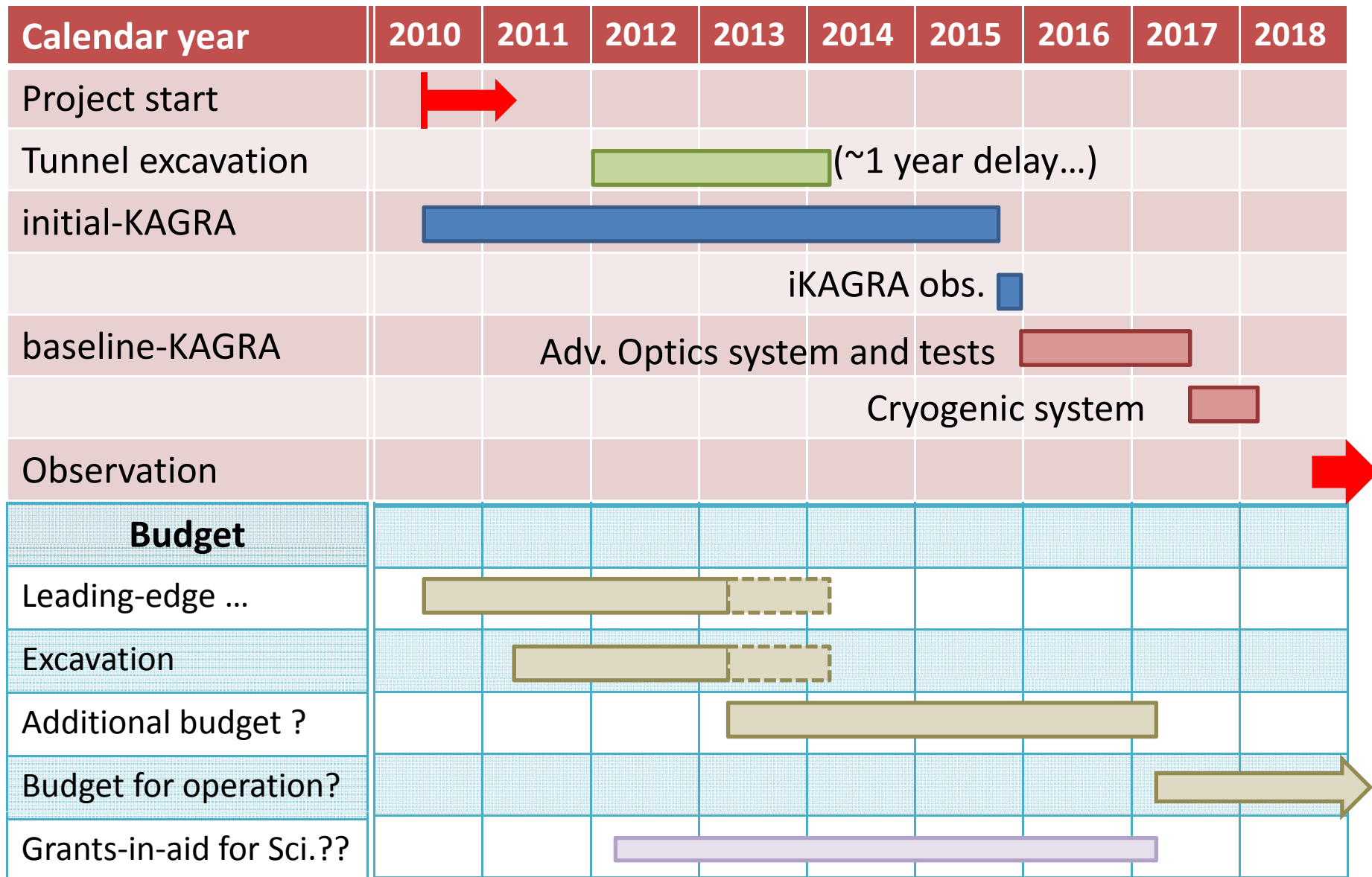
Feb.14 2013

KAGRA International F2F meeting

Takaaki Kajita

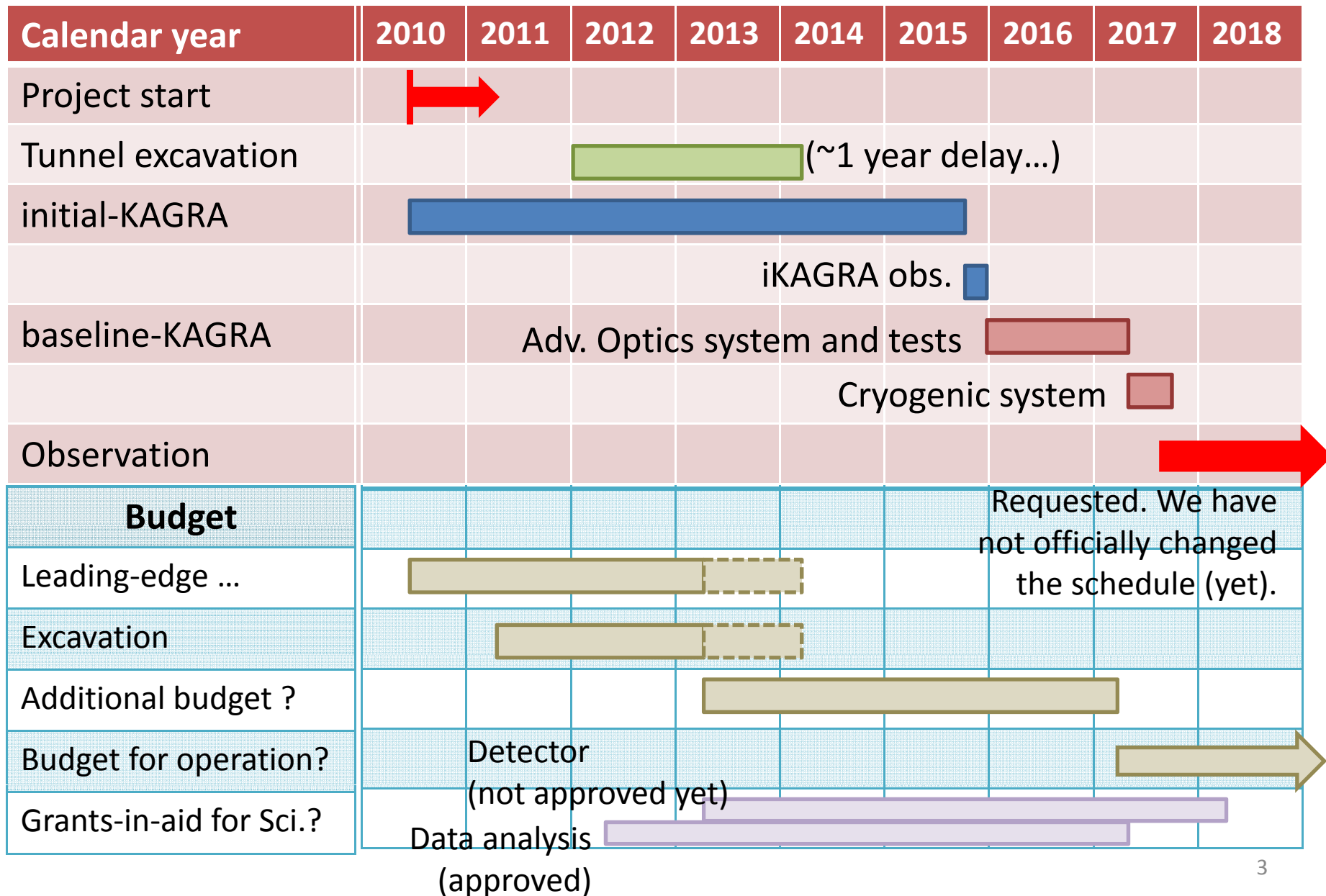
# Budget and revised schedule

Feb. 2012, F2F



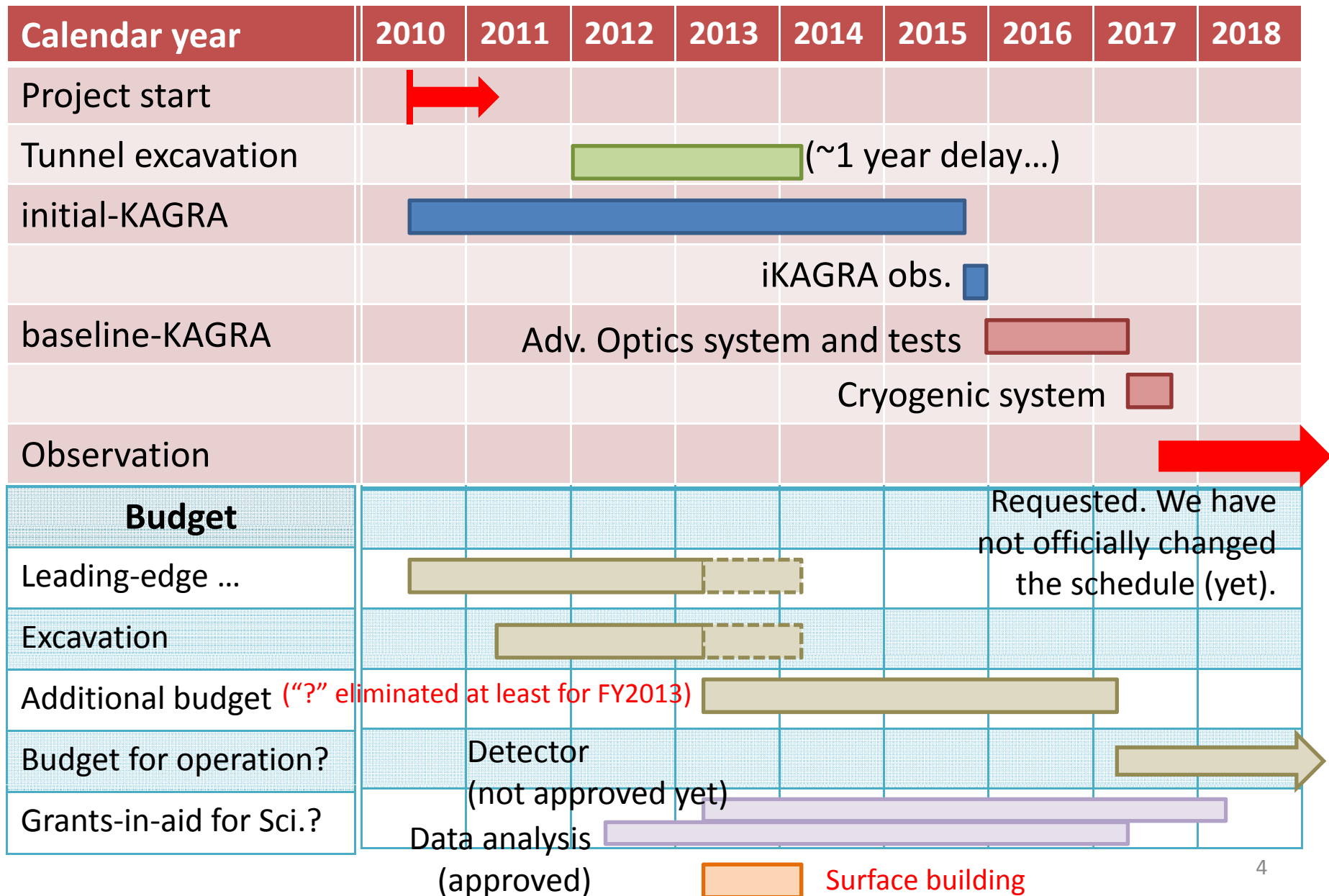
# Budget and revised schedule

July 2012



# Budget and revised schedule

Feb. 2013



# *Budget related*

- FY2012 (April 2012 – March 2013) is the final year for Leading-edge Research Infrastructure Program, although we are requesting an extension of the program.
- We **receive the stimulus budget for FY2012**. This is for 1) extra cost for tunnel excavation, 2) a part of the cryo-shield tube, 3) a part of the recycling optical system, and 4) surface building. This does not mean that we get more budget (except for the extra cost for tunnel excavation). We only get them earlier.
- The **FY2013 budget will** include 1) a part of the cryo-suspension system, and 2) a part of the underground facilities. However, the FY2013 budget will not be available on April 1, 2013.
- We are requesting the operations budget starting in FY 2014.
- The budget deficit is about 1 B yen. **We do not have enough money to prepare everything as we hope**. We have to think seriously what are really needed in Day 1 of bKAGRA. SEO is working hard with the sub-group members to redefine the Day-1 bKAGRA.

## *Budget related: problem*

- The excavation is on-going.
- A fraction of the excavated rock contains heavy metals, which are essentially arsenic (砒素).
- Then the rock cannot be disposed in the same way as the ordinary rock.
- Special treatments are required for the disposal.
- But this situation was not assumed at the initial contract with the company.
- Someone has to pay for the extra cost.
- We are working on this issue.

## *Budget related (2)*

- Grant-in-aid for Scientific Research:
  - ✓ JSPS Core-to-Core program (研究拠点形成事業, for researchers exchange, international travels) → **Approved** (Head = S. Kawamura, for 5 years, ~20Myen/year).
  - ✓ Specially Promoted Research (特別推進, for the detector R&D and commissioning). → Not approved last year. We are trying again.

# MOUs

- **General MoU** between KAGRA, LIGO and Virgo: signed by all parties by Dec.3, 2012
- **Attachment A** between KAGRA and LSC for joint technical collaboration: signed by the 2 parties by Oct.11, 2012
- **Attachment B** between KAGRA, LIGO and Virgo for data sharing and analysis during the KAGRA construction and commissioning period: signed by all parties by Dec.3, 2012
- **Attachment C** between KAGRA and Virgo for joint technical collaboration: signed by the 2 parties by Jan.16, 2016
- ✓ Now, we can work with LIGO and Virgo. A KAGRA member can be a member of LSC and/or Virgo.



# *Project management and related*

- Ichiro Nakatani contributed to the KAGRA project as the Project Manager. He will resign this position as of March 31, 2013. We would like to thank Nakatani-san for his huge contribution to the KAGRA project.
- Yoshio Saito will be the Project Manager from April 1.
- The heads of the onsite construction and commissioning will be;
  - M. Ohashi in charge of the construction
  - S. Kawamura in charge of the commissioning
  - Y. Saito will oversee the whole activities
- Once (I think)I asked to start the discussion on the onsite construction in this meeting... We must discuss the construction (and possibly the commissioning as well) at the next F2F meeting.