

# **Designing a Science Roadmap in Group of Optical and Infrared Astronomers (GOPIRA)**

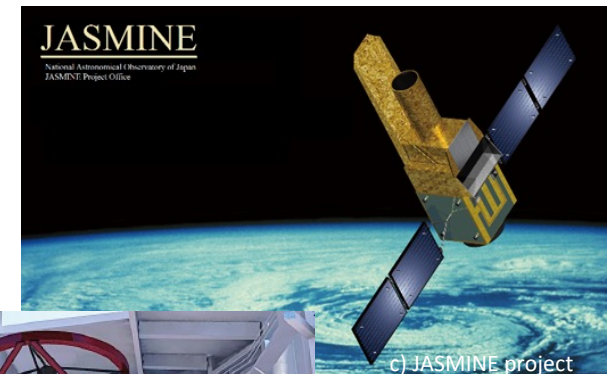
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GOPIRA Future Planning Expert Committee  
Former Chair (Oct.2021 – Sep.2023)

# GOPIRA and Projects

- Group of Optical and Infrared Astronomers (GOPIRA)
  - Voluntary association: 332 members in optical-IR astronomy
- Many optical-IR projects
  - Ground-based and space-borne programs
- Large projects
  - Ground: Thirty Meter Telescope (TMT)
  - Space: JASMINE, HiZ-GUNDAM, ROMAN, HWO、IPST、LAPYUTA、GREX-PLUS etc...
- Small- and medium-scale projects (cooperative programs)
  - TAO, PFS, PRIME (OISTER) etc...

Many projects



# (Past in GOPIRA)

## Discussing/Supporting Projects

### 1) GOPIRA General Meeting and Symposium

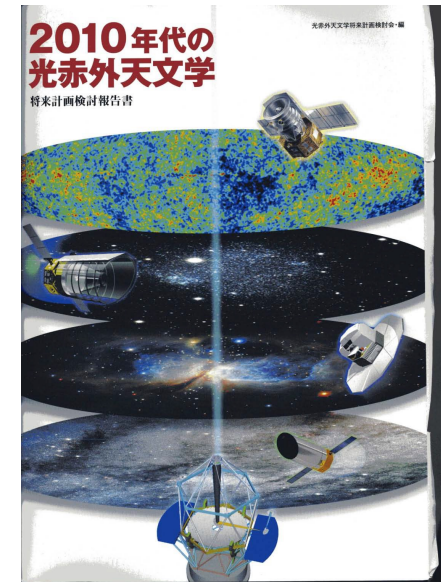
- Project Leader/Representative's presentation and discussion

### 2) Future Project Planning Study Report

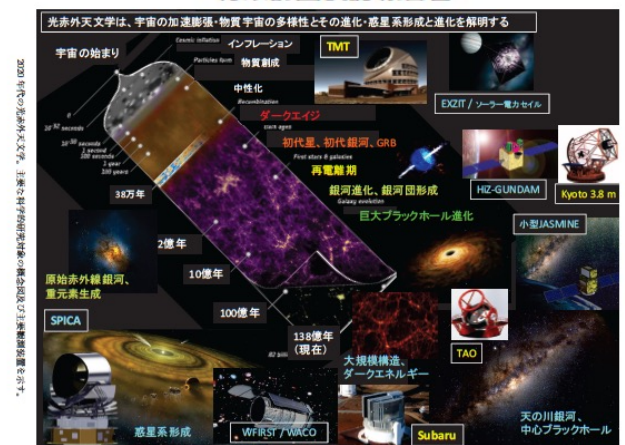
(once in 10 years)

- 「2010年代の光赤外天文学」
- 「2020年代の光赤外天文学」

### 3) Statement



### 2020年代の光赤外天文学 将来計画検討報告書



# (Past in GOPIRA)

## Discussing/Supporting Projects

### 1) GOPIRA General Meeting and Symposium

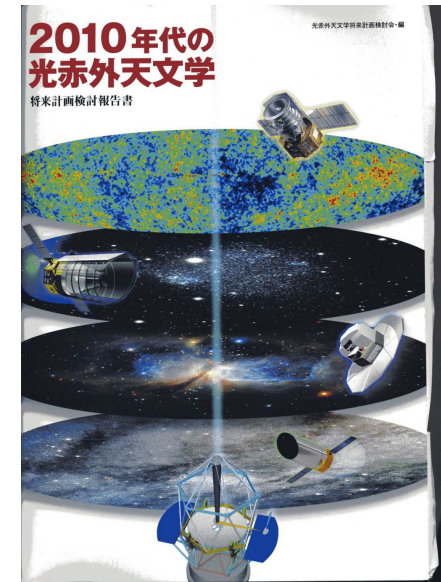
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Problems:

Excessive number of projects & ambiguous priorities...

→ **GOPIRA Roadmap**  
(supplemented w GOPIRA endorsement)

### 3) Statement



### 2020年代の光赤外天文学 将来計画検討報告書



# Developing a Framework for GOPIRA Roadmap Designing

## --- Before Discussing Science/Projects ---

- Led by the GOPIRA's future planning expert committee (expert committee) since fall 2022
  - No experiences of roadmap designing in GOPIRA  
→ started Interviewing and discussion with experts in organizations with the roadmap design systems  
great thanks to Prof. Mitsuda (KEK), Prof. Tomaru (CRC), and Prof. Nakazawa (HEAPA)
- Issues (examples)
  - How to collect ideas broadly?
  - Selecting and ranking the projects vs. Supporting the pioneering projects (scope of application?)
  - Many large projects → Clarifying major scientific goals, achievements, and time periods ?
  - Understanding the budgetary boundaries → Participation of key members in budget executive bodies (NAOJ, ISAS)?
- Discussion in the GOPIRA's expert committee → Discussion in the wider GOPIRA community (Iteratively)
  - [Mar. 15: Progress report](#) in GOPIRA General Assembly 「ロードマップ作成の枠組み(ver 1)」 and feedback
  - [Aug. 6-21](#): Accepting [public comments](#) for ver 2.0 → ver 3.0
  - [Sep. 28-29: Discussion in GOPIRA Symposium](#) with ver. 3.0 → 「ロードマップ作成の枠組み」 (Framework for the GOPIRA Roadmap Designing)

# Framework of GOPIRA Roadmap

--Basic ideas in the 8-page document--

Effective on Sep. 29, 2023  
translated by MO for NAOJ symp.

## 1. Objective

- Declaring the major scientific goals and plans in GOPIRA
  - Serving as a basis for responding to the inquiries from the Science Council of Japan and MEXT etc.
- Encouraging diverse scientific goals and plans in GOPIRA
  - Supporting small- and medium-scale projects and fostering pioneering projects regardless of size

## 2. Scope

## 3. Configuration

## 4. Designing Flow (roadmap designing committee)

## 5. Preparation

## 6. Criteria for prioritization

## 7. Format

## 8. Scope of publication

# Schedule for the Roadmap Development

- 2023 October-December
  - Starting the new expert committee (Chair: Norio Narita, U. Tokyo)
  - Call for proposals: roadmap projects
- 2024-Early 2025
  - Deadline for the proposals
  - Discussion in the roadmap designing committee
  - Discussion in the wider GOPIRA community (symposium/general assembly etc.)
  - Publishing a GOPIRA Roadmap

# Summary

- GOPIRA and projects
- How to support future projects: Past and from now on
- Defining the Framework for GOPIRA Roadmap designing
- Schedule for the GOPIRA Roadmap development