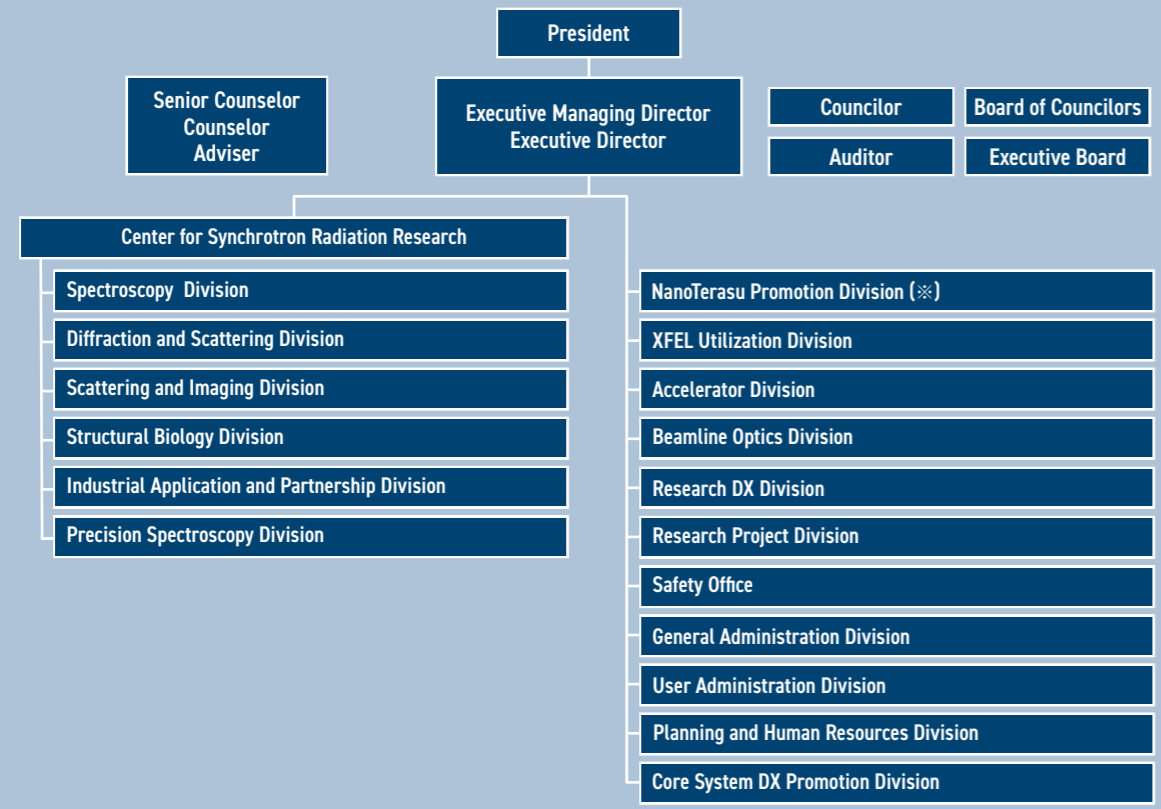


## JASRI Organization Chart



Number of staff members: 319 (research staff, 190; technical staff, 61; administrative staff, 68) as of 1 May 2024

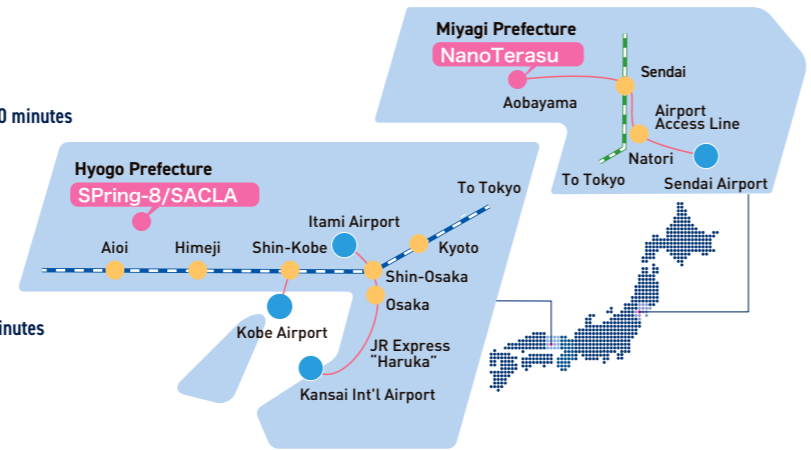
## Access

### SPring-8/SACLA

By Shinkansen and bus from Shin-Osaka Station: ~2 hours  
 From Itami Airport to Shin-Osaka Station: ~35 minutes  
 From Kansai International Airport to Shin-Osaka Station: ~50 minutes  
 From Kobe Airport to Shin-Kobe Station: ~35 minutes

### NanoTerasu

By Sendai City Subway Tozai Line from Sendai Station: ~9 minutes  
 On foot from Aobayama Station South 1 Exit: ~15 minutes  
 or by Aobayama Shuttle Bus: ~10 minutes



## Japan Synchrotron Radiation Research Institute



General Administration Division  
 1-1-1 Kouto, Sayo-cho, Sayo-gun, Hyogo 679-5198, Japan  
 Phone: +81-791-58-0950

NanoTerasu Promotion Division  
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 Phone: +81-22-752-2337

JASRI <https://www.jasri.jp/en/>  
 SPring-8 <http://www.spring8.or.jp/en/>

SACLA <http://xfel.riken.jp/eng/>  
 NanoTerasu [https://nanoterasu.jp/top\\_en/](https://nanoterasu.jp/top_en/)





## Overview of Japan Synchrotron Radiation Research Institute (JASRI)

JASRI is a public interest incorporated foundation in charge of user selection and user support in SPring-8(\*1), SACLA(\*2), and NanoTerasu(\*3), which are the world's most advanced large research facilities enabling the observation of materials at a nanometer scale. JASRI is a highly interdisciplinary, advanced, and international institute contributing to society through the development of science and technology and industrial promotion.

### Interdisciplinary promotion and cooperation

The experiments carried out at SPring-8, SACLA, and NanoTerasu cover almost all research areas. Staff members of JASRI specializing in each area provide user support in response to user needs. Another goal of JASRI is to activate interdisciplinary research by promoting the fusion of different research areas.

### Advanced scientific technology

JASRI provides services that require a high level of expertise including the maintenance, management, and performance improvement of the high-performance and reliable accelerator systems of SPring-8 and SACLA as well as the development of experiment systems dedicated to highly precise and leading-edge synchrotron radiation measurements at SPring-8, SACLA, and NanoTerasu.

**JASRI**

### Promotion of industrial applications

Twenty percent of accepted proposals of research to be conducted in SPring-8 are related to industrial applications. There are high expectations from society on industrial applications because the achievements of such research will be directly returned to society. JASRI is working to support the further realization of outcomes.

### International perspective

It is important to address international challenges such as the realization of a low-carbon society. Nearly 10% of the users of SPring-8 and SACLA are from abroad, to whom JASRI provides user support. JASRI has also participated in activities based on cooperation agreements with facilities overseas and joined international activities and conferences to gain and maintain global awareness. In addition, JASRI will promote the activities related to NanoTerasu.

## History of JASRI

1980s	Hyogo Prefecture and the Kansai economic community requested the government to establish a large synchrotron radiation facility in the Kansai area.
1990	Hyogo Prefecture and the economic community contributed 6,600 million yen to establish JASRI, an incorporated foundation commissioned by the government to provide services for supporting the operation and promoting the use of large synchrotron radiation facilities.
1994	The Act for the Promotion of Public Utilization of the Specific Synchrotron Radiation Facilities went into effect. JASRI was assigned as the Organization for the Promotion of Synchrotron Radiation Research.
1997	SPring-8 started its operation for public use.
2006	The Act on the Promotion of Public Utilization of Specific Advanced Large Research Facilities [revised version of the Act for the Promotion of Public Utilization of the Specific Synchrotron Radiation Facilities (Act No. 78 of 1994)] went into effect.
2007	JASRI was assigned as the Registered Institution for Facilities Use Promotion that provides services for promoting the use of SPring-8.
2011	JASRI was assigned as the Registered Institution for Facilities Use Promotion that provides services for promoting the use of SACLA.
2012	SACLA started its operation for public use. JASRI was authorized as a public interest incorporated foundation.
2020	30th anniversary of the foundation of JASRI.
2024	JASRI was assigned as the Registered Institution for Facilities Use Promotion that provides services for promoting the use of NanoTerasu.
2025	NanoTerasu will start its operation for public use in March 2025 according to schedule.

## Glossary

### \*1. Large synchrotron radiation facility, SPring-8

SPring-8, owned by RIKEN, is a large synchrotron radiation facility that delivers powerful synchrotron radiation and is in Harima Science Garden City in Hyogo Prefecture, Japan. JASRI supports users of the facility. The name "SPring-8" is derived from "Super Photon ring 8 GeV". The research conducted at SPring-8 using synchrotron radiation covers a wide range of fields from nanotechnology to biotechnology to industrial applications.

### \*2. X-ray free electron laser facility, SACLA

SACLA is Japan's first X-ray free electron laser (XFEL) facility constructed jointly by RIKEN and JASRI. It is one of the five national core technologies in Japan's Third Science and Technology Basic Plan. The five-year project for the construction and preparation of SACLA was launched in FY2006 and was completed in March 2011. SACLA is short for SPring-8 Angstrom Compact free electron LAser. In June 2011, the first oscillation of the X-ray laser was achieved. Since March 2012, SACLA has been open to public users and used in various experiments. Since SACLA allows us to see the instantaneous movements of nanoscale materials, research has been conducted at SACLA to observe the mechanisms of chemical reactions and the high-speed changes of materials.

### \*3. 3 GeV high-brilliance synchrotron radiation facility, NanoTerasu

NanoTerasu is a high-brilliance synchrotron radiation facility constructed by the National Institutes for Quantum Science and Technology (QST) and the regional partners in Aobayama new campus of Tohoku University. Its operation started in FY2024. NanoTerasu can deliver soft X-rays 100 times brighter than other existing synchrotron radiation facilities in Japan. There are high expectations from home and abroad for NanoTerasu as a world-class high-brilliance synchrotron radiation facility that enables the high-accuracy monitoring of the electronic states of materials and their changes.

## Support provided by JASRI

### JASRI

As a Registered Institution for Facilities Use Promotion, JASRI provides the services below on a fair and equitable basis.

**User selection** Establishment of selection committee, selection of facility users, etc.

**User support** Technical support, information service, investigation research, etc.

As a public interest incorporated foundation, JASRI functions as follows:

- Provides services as commissioned by RIKEN
- Supports activities using competitive funds, etc.

### Support as Registered Institution for Facilities Use Promotion

As a Registered Institution for Facilities Use Promotion based on the Act on the Promotion of Public Utilization of Specific Advanced Large Research Facilities, JASRI facilitates user selection and provides user support to promote the use of SPring-8, SACLA, and NanoTerasu in accordance with the basic policy set by the government.

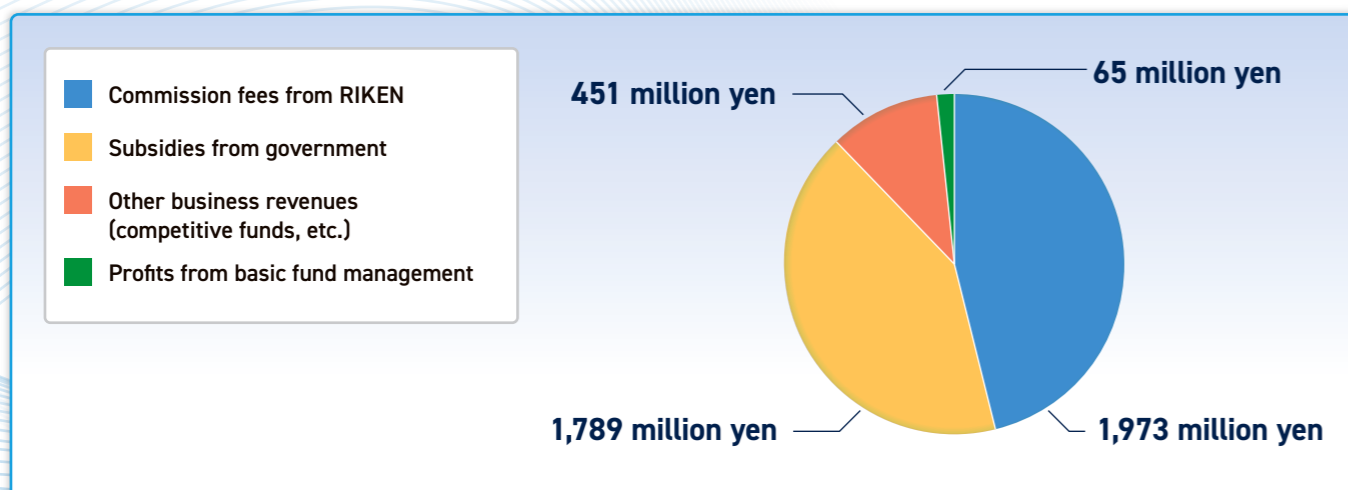
### Support commissioned by RIKEN

JASRI is commissioned by RIKEN to support the operation of SPring-8 and manage the safety of SPring-8 and SACLA.

### Activities using competitive funds, etc.

Using competitive funds, etc., JASRI carries out experimental research for promoting synchrotron radiation research and provides a variety of other services to promote the public use of the facilities.

## Annual budget of JASRI: 4,278 million yen (FY2024)



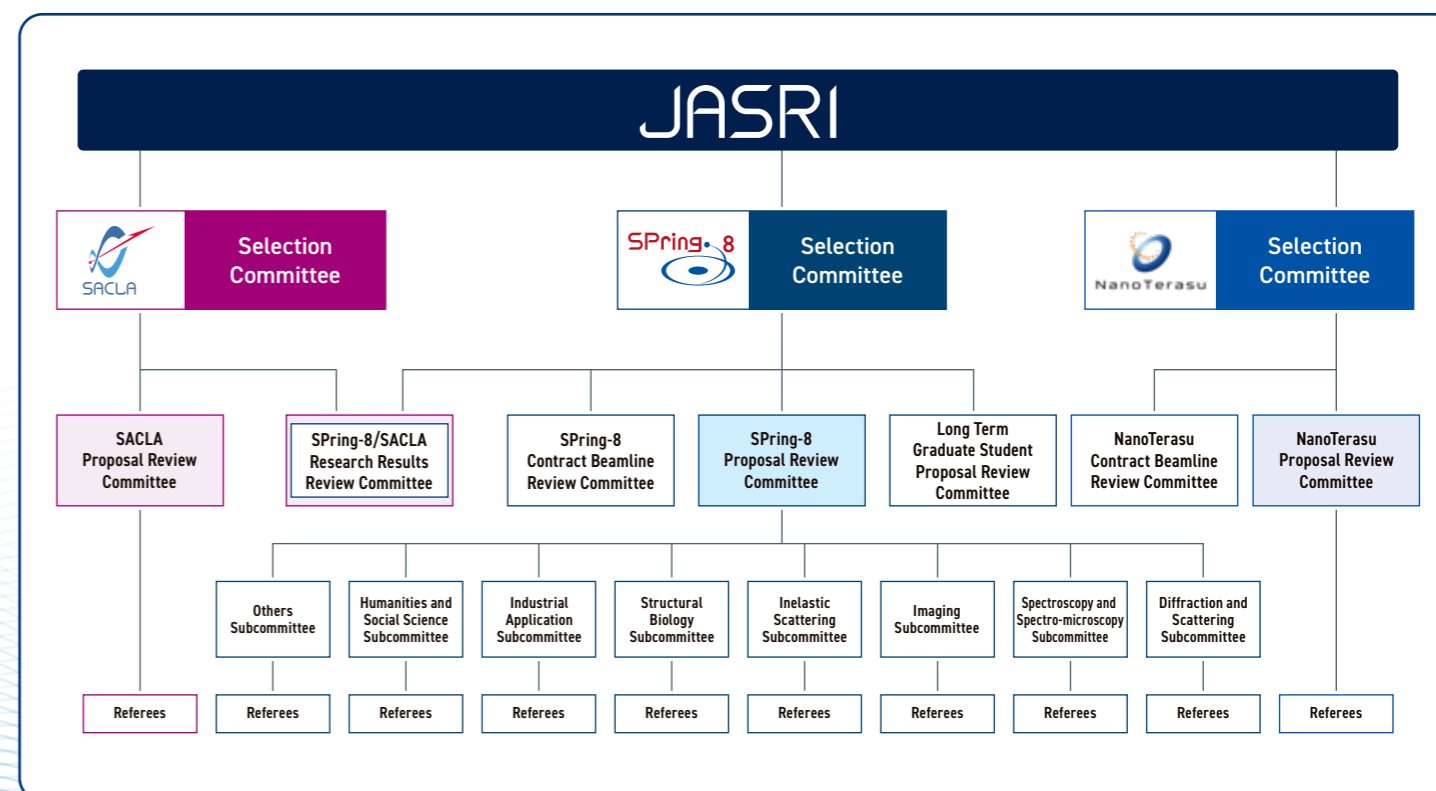
## User support

SPring-8, SACLA, and NanoTerasu are public-use facilities. JASRI contributes to the scientific and industrial advancements in Japan by supporting the experiments carried out at these facilities and expanding the possibilities for new types of research. JASRI also makes efforts to maximize research achievements by providing consultation with researchers and technical assistance on experiments.

FY2023	SPring-8	SACLA
Number of Conducted Proposals	2,323	96
Number of Unique Users	4,647	566

## User selection

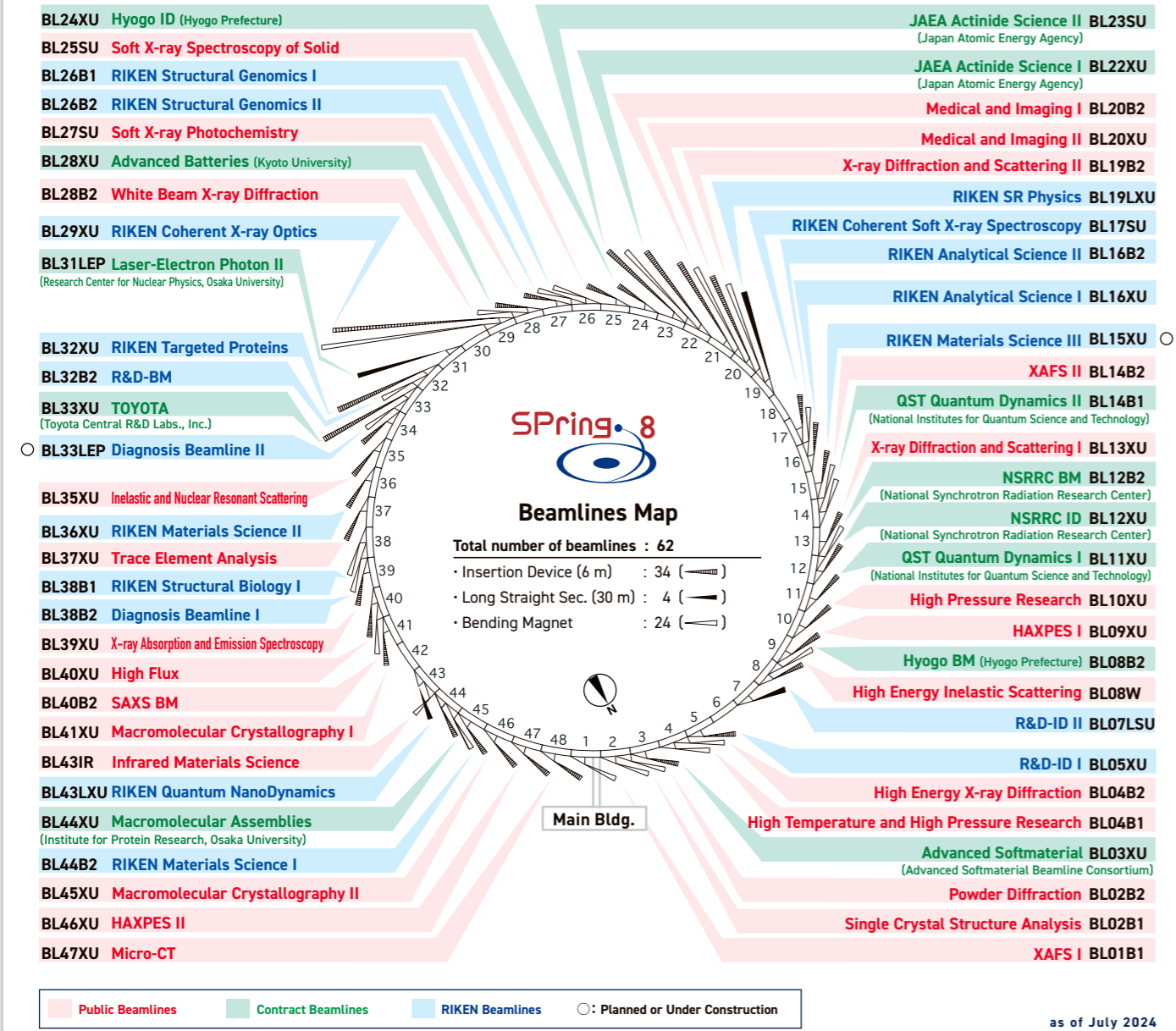
JASRI selects users of SPring-8, SACLA, and NanoTerasu (research proposals for public beamlines and proposals for the establishment of contract beamlines) on a fair and equitable basis.



## Hyogo Prefecture

Synchrotron Radiation Facility

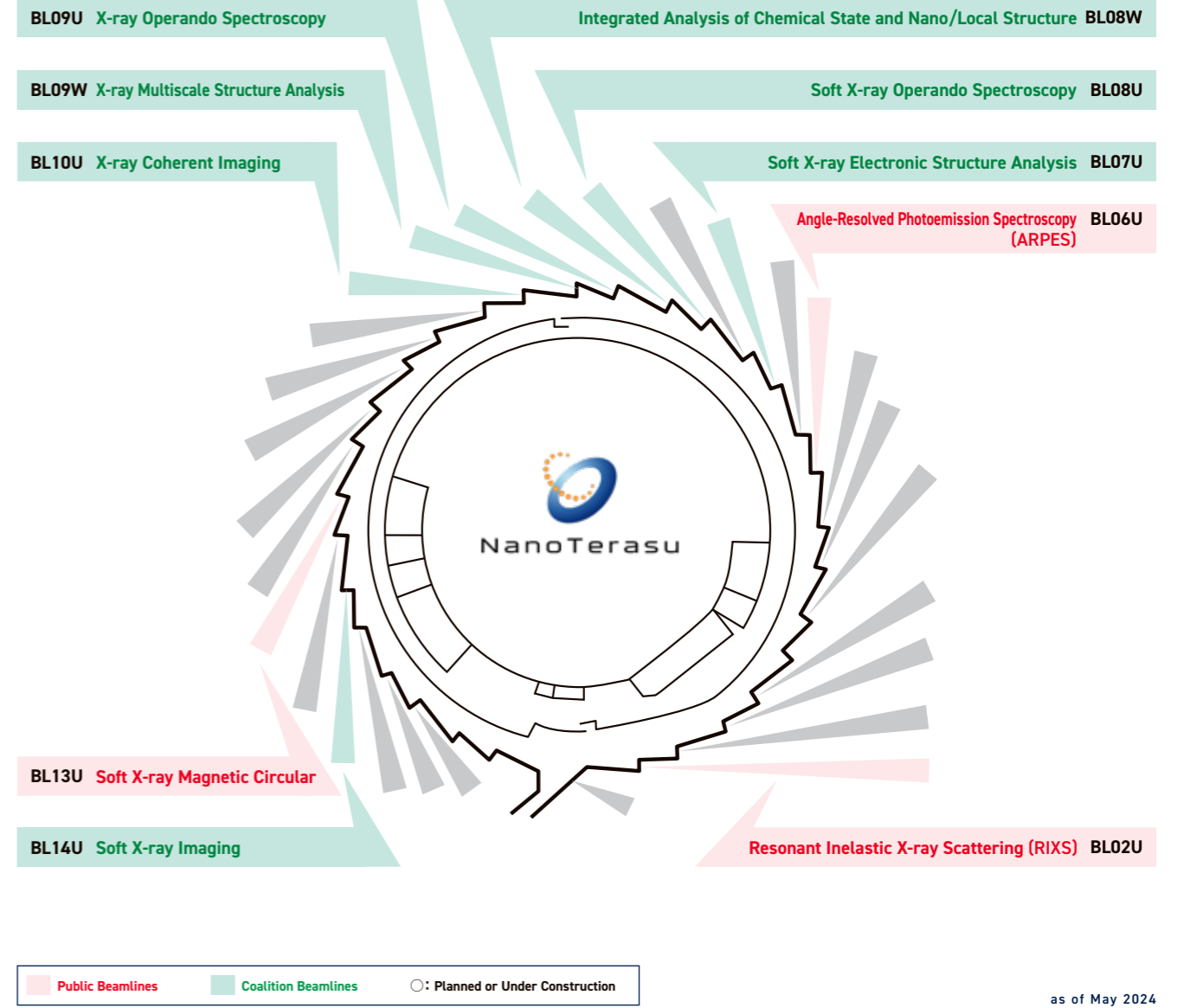
### SPring-8 Beamlines



## Miyagi Prefecture

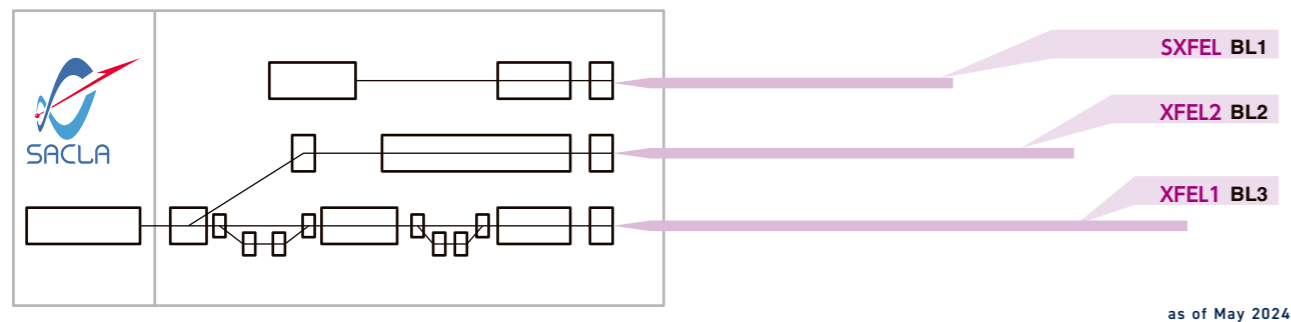
Synchrotron Radiation Facility

### NanoTerasu Beamlines



XFEL Facility

### SACLA Beamlines



NanoTerasu