



## **Report on MIRAI 2.0**

# **Research and Innovation Week 2022**

Sharing ONE future:

Integrative Knowledge and Sustainable Transformation towards a  
better world

at Ito Campus, Kyushu University 15-18 November



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MIRAI 2.0 – Research and Innovation Week 2022  
November 15-18, 2022  
Hosted by Kyushu University

*Sharing ONE future: Integrative Knowledge and Sustainable Transformation  
towards a better world*

MIRAI 2.0 is an academic consortium consisting of eleven Swedish and nine Japanese universities as listed below.

In Sweden:

Jönköping University  
Karlstad University  
Linköping University  
Linnaeus University  
Luleå University of Technology  
Lund University  
Örebro University  
Stockholm School of Economics  
**University of Gothenburg\***  
Umeå University  
Uppsala University

In Japan:

Hiroshima University  
Hokkaido University  
Kyushu University  
OIST  
**Nagoya University\***  
Sophia University  
The University of Tokyo  
Tohoku University  
Waseda University

\*The University of Gothenburg and Nagoya University are the coordinating universities in Sweden and Japan respectively.

### *History and Activities of MIRAI 2.0*

MIRAI 2.0 was launched in January 2020 as a continuation of the first phase of the MIRAI Project (2017-2019), which strove to contribute to Swedish-Japanese collaborations in research, education, and innovation. Currently, MIRAI 2.0 consists of 11 Swedish and 9 Japanese universities, with four thematic expert groups (AI, Ageing, Sustainability, and Materials Science) in addition to the Innovation and Entrepreneurship Advisory Group (IEAG) that has been responsible for integrating the innovation and entrepreneurship aspects into the four thematic groups. Motivating the young generation of researchers has been a crucial aim of MIRAI 2.0, as we also encourage bottom-up approaches to research, education, and innovation. Even during the pandemic, these thematic groups proactively organized online workshops and activities in order to get connected and proceed with their collaborative

efforts. However, our experience with COVID-19 also forced us to reaffirm the significance of physical meetings, which often involved getting to know and inspiring each other during a coffee break between formal sessions.

While MIRAI 2.0 was originally planned to be a three-year phase from January 2020 to December 2022, it was decided to extend the activity period by one year until December 2023. During the extended year, MIRAI 2.0 will engage in the planned activities that did not happen due to COVID-19, which include short courses for PhD students and postdocs as well as a student mobility fair.

### *MIRAI 2.0 Research and Innovation Week 2022*

The Research and Innovation Week 2022 (R & I Week) was the second attempt of its kind, following the virtual R & I Week 2021 hosted by the University of Gothenburg in June 2021, and it was the first major in-person event for MIRAI 2.0 as we struggled with the prolonged influence of the pandemic. Hosted by Kyushu University, the R & I Week 2022 took place at the beautiful Ito Campus, the largest single campus in Japan that has a wide range of facilities to support the research and education of the university community.

The event took shape under the theme, “Sharing ONE future: Integrative Knowledge and Sustainable Transformation towards a better world,” with objectives and expectations as follows.

- To bring together researchers, students, and university management from all 20 Swedish and Japanese MIRAI member universities, as well as research funding agencies and policymakers
- To strengthen collaboration between Sweden and Japan in research, innovation, and education
- Connect with researchers in the five thematic areas

The impact of the pandemic was indeed enormous for the planning of the R & I Week 2022. The original plan to hold this event in June 2022 was extended to November, due largely to Japan’s entry restriction. And even when the event was confirmed to take place in November, a number of uncertainties remained until the last minute. Therefore, the MIRAI 2.0 coordinating universities—the University of Gothenburg and Nagoya University—would like

to express our sincerest gratitude to Kyushu University for organizing this important event amid the difficult time under unpredictable circumstances.

### *Overview of the Program*

During the MIRAI 2.0 Research and Innovation Week 2022 on November 15 – 18 hosted by Kyushu University, the following activities took place.

- Opening Ceremony – Day 1 on November 15 (Shiiki Concert Hall)
- Special Session A – Day 1 on November 15 (Shiiki Concert Hall)  
Academia-Industry-Funding Agency Collaboration, “What actions can different sectors take together towards a better future” – Day 1 on November 15 (Shiiki Concert Hall)
- General Assembly Meeting – Day 1 on November 15 (Jonathan Choi Hall)
- Welcome Reception – Day 1 on November 15 (Glocal Hotel Itoshima)
- Poster Sessions – Day 1 – 3 on November 15 – 17 (Shiiki Concert Hall)
- Parallel Scientific Sessions – Day 2 – 3 on November 16 – 17 (Shiiki Concert Hall)
- Campus Tour – Day 1 and 3 on November 15 and 17
- University Leadership Summit – Day 2 on November 16 (Jonathan Choi Hall)  
Theme – “How can the higher education sector move beyond silos and create more synergies for a better world?”
- Dinner Banquet (Invitation only) – Day 2 on November 16 (Hakata Hyakunen-Gura)
- Special Session B – Day 4 on November 18 (Shiiki Concert Hall)  
Science and Ethics, Science Dialogue led by ECRs
- IEAG / TEG Collaboration Event – Day 4 on November 18 (Shiiki Concert Hall)
- Closing Ceremony – Day 4 on November 18 (Shiiki Concert Hall)

The full program is available on the MIRAI R&I Week 2022 website:

<https://miraisejp2022.wixsite.com/r-and-i-week>

### *Percentage of registered participants*

More than 300 researchers, vice-chancellors, deans, and representatives from government organizations, funding agencies, and research facilities in Sweden and Japan registered for this event. Out of the registered participants, 53% were from Sweden and 47% from Japan. The largest groups of participants were Researchers (61%) followed by PhD students (15%)

and administrative staff (12%). 6% of registered participants were university leadership representatives.

#### *Opening Ceremony – November 15 (Shiiki Concert Hall)*

The Opening Ceremony was held on the first day of the MIRAI 2.0 Research and Innovation Week 2022 on November 15 at the Shiiki Concert Hall. Moderated by Professor Natalie Konomi at Kyushu University (Vice President for International Affairs and Diversity), the Ceremony opened with welcome remarks by the Kyushu University President, Professor Tatsuro Ishibashi, followed by the opening remarks by the representatives of Japanese and Swedish coordinating universities, Professor Norimi Mizutani (Nagoya University) and Professor Eva Wiberg (University of Gothenburg). The event was honored to have the congratulatory address by Mr. Satoshi Odoi (Director, International Science and Technology Affairs Division, Science and Technology Policy Bureau) and Dr. David Edvardsson (Director General, Division for Research Policy, Ministry of Education and Research). Then, Professor Toshiyuki Kono (Kyushu University) welcomed the participants by introducing the upcoming programme of the week. The ceremony continued with a keynote lecture by Professor Tetsuya Osaka (Waseda University) entitled “Prospective View of Battery Energy Systems,” followed by a Q & A session moderated by Professor Kazunari Sasaki (Kyushu University).

#### *MIRAI2.0 General Assembly meeting - November 15 (Jonathan Choi Hall)*

The General Assembly, MIRAI2.0’s governing body, was held from 16:40-19:30 Japanese time. A total of 62 participants (university management, TEG co-chairs, international directors and project managers) from MIRAI2.0 universities joined the meeting. The secretariat reported on what has happened since the last GA meeting on June 7, 2022, the project timeline, and upcoming activities. The main discussion points concerned how MIRAI 2.0 can create sustainable activities both during and after the pandemic. (See Appendix 1 for PPT and Meeting Minutes).

#### *Parallel Scientific Sessions – November 16 & 17 (Shiiki Concert Hall)*

Thematic Expert Groups and Innovation Entrepreneurship Advisory Group:  
Ageing, Artificial Intelligence, Materials Science, Sustainability, Innovation & Entrepreneurship Advisory Group

## Ageing

Day 1 included two keynote lectures and nine oral presentations.

In the first lecture, “Near-Future Care Using AI and Robots”, Professor Tomohiro Shibata at Kyushu Institute of Technology reviewed Japanese healthcare systems and the necessity of AI and robotics. He introduced a range of healthcare robots and discussed implementation.

In the second lecture “A death-laden society” Professor Masa Higo at Kyushu University presented how Japan is ageing and emphasized the importance of preparation for the future.

In Oral Presentations I and II, a total of 10 presentations were delivered. The presentation sessions focused on a wide range of aspects of ageing, and each presentation was followed by an exciting and fruitful discussion.

In the “Models of a Future Society” session, two younger researchers facilitated group works, in which we discussed barriers and facilitators to successful ageing.

Finally, we enjoyed a nice TEG Dinner where we mingled and discussed future collaborations.

Day 2 started with 10 short presentations (flash talks) by young researchers followed by Q & As and discussion.

In the afternoon, we had a session on Registries and Longitudinal Studies with five presenters, four from Sweden and one from Japan.

Day 2 finished with Ageing TEG Meeting, which centered on the summary and conversations about Future Plans for Events and Collaborations

### Members of TEG Ageing:

Yoshihisa Hirakawa\*, Nagoya University  
Takayuki Akimoto, Waseda University  
Kazuhiro Tsuga, Hiroshima University  
Nobuhiro Takahashi, Tohoku University  
Yuto Kitamura, The University of Tokyo  
Carl-Johan Boraxbekk\*, Umeå University

Anna Sandgren, Linnaeus University  
Per Bjälkebring, The University of Gothenburg  
Eleonor Kristoffersson, Örebro University  
Sofi Fristedt, Jönköping University

\*=co-chairs

### *Artificial Intelligence*

TEG-AI focused on “Exciting Trends in Applied AI” throughout this year and had four collaboration sessions during R&I Week 2022 as follows. These themes are the same as the online workshops this year. (1) Theoretical aspects and foundations of AI, (2) Political and Legal/Moral aspects of AI, (3) Biomedicine and Health, (4) Industry 5.0 and Society 5.0. As a result, we were able to make a deeper researcher network and consider further collaborations including the applications to MIRAI seed-funding second term. We truly recognize the importance of in-person communication.

The word "AI" exists in a very wide range of research fields. Further discussion/consideration should be necessary in order to establish a more concrete action plan for TEG-AI. Activities with other TEG/IEAG are also very important for making MIRAI more interdisciplinary. A trial for implementing a short-term PhD course within TEG-AI will be one of the important activities next year.

Unfortunately, the number of participations from the Japanese side was not so many. It might be necessary to strengthen PR activities within the university such as clarifying the importance and merits of participating in MIRAI. TEG-AI is the newest group within MIRAI therefore we need continued efforts to include more researchers from each university in this consortium.

### *Members of TEG Artificial Intelligence*

Jun'ichi Takeuchi\*, Kyushu University  
Tetsuya Ogata, Waseda University  
Emi Yuda, Tohoku University  
Tatsuya Harada, The University of Tokyo  
Marcus Liwicki\*, Luleå University of Technology  
Karl Åström, Lund University  
Oscar Martinez Mozos, Örebro University

\*=co-chairs

## Materials Science

Our parallel sessions began with the two keynote presentations by Professor Viktor Öwall (Pro Vice-Chancellor at Lund Univ.) and Professor Petros Sofronis (Director of International Institute for Carbon-Neutral Energy Research, Kyushu Univ), after the opening remarks by the TEG Co-Chairs. “Hydrogen Science,” “Advanced Materials,” and “Quantum Beam” are the focused research fields in the Materials Science TEG parallel sessions at the MIRAI 2.0 R&I Week 2022. The researchers presented their research in the fields of “Hydrogen Science (6 presentations),” “Advanced Materials (5 presentations),” and “Quantum Beam (7 presentations)”.

In addition to these 18 presentations, as the Seed Funding Research presentations, Dr. Naureen Ghafoor (Linköping Univ.) and Dr. Satoru Yoshioka (Kyushu Univ.) presented their research. To understand carbon neutral energy-related cutting-edge research, the participants joined a lab tour organized by International Institute for Carbon-Neutral Energy Research (Kyushu University) and learned functional inorganic materials, advanced characterization such as a Raman imaging spectroscopy, and hydrogen embrittlement.

The Materials Science TEG hosted a Japanese Dinner Banquet for the 40 participants at the casual Japanese restaurant near the Hakata Station, and this dinner helped the participants to know each other and promote intercultural engagement between Sweden and Japan.

## Members of TEG Materials Science

Hideki Kuwahara\*, Sophia University

Yasuchika Hasegawa, Hokkaido University

Miho Yamauchi, Kyushu University

Hirohiko Shimizu, Nagoya University

Masaki Takata, Tohoku University

Björgvin Hjörvarsson\*, Uppsala University

Jens Birch, Linköping University

Magnus Borgström, Lund University

Lars Johansson, Karlstad University

\*=co-chairs

## Sustainability

The 2-day Sustainability program comprised two keynote lectures, six workshops and presentations of eight seed-funded projects.

Keynote lectures were given by Prof. Harada, Kyushu University, on a case study of the Science Village in Itoshima; and Prof. Bastviken, Linköping University, on environmental issues related to greenhouse gas. The audience of about 40 people deepened their understanding of the potential of Smart Cities for sustainability and environmental improvement.

Six carefully selected workshops, created and run by young researchers, engaged participants in work and discussions on various topics.

In 2021, eight seed-funded Sustainability projects were approved. Researchers from these projects presented their work, progress and plans ahead.

The Sustainability TEG conducted a meeting focused on a transdisciplinary collaboration possibility. Concrete contents were discussed and plans moving forward were defined.

While this program incorporated a hybrid format, it reaffirmed the effectiveness and importance of in-person interactions after the pandemic. Throughout the two days close communication between researchers, PhD students and others was promoted both during and outside of the sessions. Young researchers and PhD students in particular enjoyed the opportunity to present their research to a live audience and the opportunity for lively discussions with senior researchers.

We believe participation in activities like this contributes to the promotion of mutual understanding, and expansion of networks among the participants and leads to active collaboration in the future.

#### Members of TEG Sustainability

Shinji Kaneko\*, Hiroshima University

Shunsuke Managi, Kyushu University

Guangwei Huang, Sophia University

Makoto Demura, Hokkaido University

Hiroki Takakura, Tohoku University

Alex Enrich Prast\*, Linköping University

Magnus Lestelius, Karlstad University

Jan Pettersson, University of Gothenburg

Carina Keskitalo, Umeå University

\*=co-chairs

### Innovation and Entrepreneurship Advisory Group

The parallel IEAG sessions included a research track and an applied track. The research Track focused on either entrepreneurship processes or entrepreneurship education. The research track opened with a keynote lecture by Professor Alexander Coad from Waseda University. Based on his extensive experiences in both Japan and Sweden, he held a talk centered around research on entrepreneurship and innovation in the two countries, including the European setting. In total, the research track consisted of 12 research presentations held by four Japanese and eight Swedish researchers coming from seven different universities (three Japanese and four Swedish).

The applied track was designed to also attract researchers from other TEGs. The content of these sessions had three different foci. The first session centered around three successful startup companies that shared their experiences as well as a presentation by Ignite Sweden, which is an organization working with match-making events. These presentations were followed by a panel discussion. The second session, which was held as a drop-in session, was intended to help researchers from Japan and Sweden meet and discuss with business consultants how to valorize their research projects. Finally, the third session dealt with intellectual property rights and consisted of four short lectures, with both a Japanese and a Swedish perspective, followed by a Q&A session.

### Members of Innovation and Entrepreneurship Advisory Group

Shu Takagi\*, The University of Tokyo

Masakatsu Fukai, Nagoya University

Itaru Honma, Tohoku University

Mikiko Shimaoka, Waseda University

Karin Hellerstedt\*, Jönköping University

Emma Burman, Linnaeus University

Wiebke Reim, Luleå University of Technology

Malin Graffner Nordberg, Uppsala University

Mattia Bianchi, Stockholm School of Economics

\*=co-chairs

### *Summary of University Leadership Summit (Jonathan Choi Hall)*

MIRAI Leadership Summit was introduced last year, but there was online. So this year was the first time in person. In total, 23 leaders from MIRAI 2.0 member universities, companies

and funding agencies participated in the Leadership Summit discussion. They discussed the theme of Interdisciplinary Research led by Moderator Prof. Toshiyuki Kono of Kyushu University.

First of all, what interdisciplinary research was defined and shared the level of progress of interdisciplinary research in each organization. It reaffirmed the need to find a balance between interdisciplinary research and other types of research (: e.g., basic research, applied research, strategic research, curiosity-driven research, etc...). Secondly, participants discussed how to involve students and early career researchers in making post-graduate education interdisciplinary, based on specific examples. Thirdly, the more attractive schemes for obtaining funding to promote interdisciplinary research were discussed. In the end, each leader shared ideas on how each organization can contribute to interdisciplinary research within MIRAI 2.0.

As a result, the Leadership Summit discussion echoed each other with the outcomes of the five TEG group subcommittee discussions and Special Sessions. The steering committee of MIRAI2.0 would work on these issues and prepare for the next Research and Innovation Week will be held at Umeå University in Sweden next year.



### *Summary of Special Session A (Shiiki Concert Hall)*

A Special Session A was held on November 15 from 1:30 to 3:30 p.m. at Shiiki Hall, Kyushu University. Moderated by Professor Gemma from Waseda University, the entire session was organized under the theme "What actions can different sectors take together to ward a better future?" and was divided into case studies part and panel discussions part.

The case study part of the presentation was opened with the lecture entitled "From Vinnova-funded project: Integrating human health and user comfort through developing an AI based early-warning system" by Prof. Ayyoob Sharifi from Hiroshima University, and Prof. Vahid M. Nik from Lund University. Then, the next speaker, Mr. Martin Henry Clarke, Market Manager of IKEA Fukuoka, gave a lecture titled "IKEA Sustainability towards a better future". The panel discussion followed the case study part, which began with a short presentation by each panellist introducing the funding activities of his or her own organization.

Ms. Katarina Bjelke, Director General of the Swedish Research Council gave a video-recorded presentation, then in-person presentations were made by Director General Lars Fredrik Horstedt from Vinnova, Executive Director Tetsuya Mizumoto from JSPS, Executive Director Andreas Gothenberg from STINT, Director of Department of International Affairs Osamu Kobayashi from JST, and Prof. Torbjone representing MIRAI 2.0, in that order.

After these presentations, Ms. Jenny Furstenbach of Nyfikenheten AB took over the chair and moderated the discussion. The discussion covered a variety of perspectives on how funding agencies that support academia and collaborative activities with industry could work together.

### *Summary of Special Session B (Shiiki Concert Hall)*

Special Session B offered a science dialogue to discuss ethics and science between four early career researchers, Diego Gabriel Francis Thomas from Kyushu University, Haemi Park from Sophia University, Irina Mancheva from Umea University, Jonathan Roques from Univers of Gothenburg, moderated by Johan Lauwereyns, Professor of Kyushu University.

Based on experience in research activities in the different specialized fields of computer vision, remote sensing, environmental governance and natural resource management, aquaculture, fish welfare and physiology, they talked about today's science issues, mainly about using

animals, and about the publication culture. The two main discussion results are as follows.

The first point is that we should really start thinking about ethics first, and then how ethically we can develop those technologies in each research field.

The second point is that when we do international collaborations, we must be aware of the local sort of context and even sort of framings and cultural views on techniques and science that we're trying to collaborate on. And that interdisciplinary work connects through ethics. It's by the actions and values of society and thinking ethically about that, scientists from different fields and backgrounds can find a platform for dialogue.

It was a very productive session with several important comments actively brought by researchers other than the speakers.

#### *Summary of Poster Session, November 15-17 (Shiiki Concert Hall)*

A Poster session was arranged especially as an opportunity for PhD students and early career researchers to present their research and find new collaboration partners. A total of 38 posters were submitted and presented at the event. Conference participants could view the posters and discuss with the author(s) in front of each poster.



## *Appendices*

Appendix 1 - General Assembly meeting minutes and PPT

Appendix 2 - Parallel Scientific Session Programs

Appendix 3 - Results of Survey

Appendix 4 - Photos

Appendix 5 - Posters of MIRAI 2.0 Research and Innovation Week 2022



## **MIRAI 2.0 General Assembly (GA) meeting, minutes**

November 15, 2022, 16:00-17:00(JP time)

Jonathan KS Choi Cultural Center of Japan, Kyushu University

### **Participants**

See attached list of attendees.

Prof. Norimi Mizutani (Vice President, Nagoya University) and Prof. Eva Wiberg (President, University of Gothenburg) opened the meeting by giving welcome speeches. As this GA meeting is held within an on-site R&I Week, participants' self-introductions were omitted.

### **Secretariat Report**

A secretariat report focused on what has happened since the last GA meeting on June 7, 2022, was presented by Branko Aleksic, MIRAI 2.0 Project Coordinator at Nagoya University.

### **MIRAI2.0 Joint seed funding**

The first round of the 24 selected collaborative research projects is currently ongoing. Most projects will be completed by the end of 2022, after which the report will be submitted. If there is a reason for an extension of a project, it is allowed based on both countries' decision.

The second call for applications for seed funding within MIRAI 2.0 opened on September 1<sup>st</sup>. Besides funding for additional collaborative projects, a new component in this call is a special track for short courses for PhDs and postdocs. The deadline for the call is December 1<sup>st</sup> and the evaluation and selection process will be initiated after that.

### **Workshops and other activities by TEG/IEAG**

The completed activities of the TEG/IEAG groups were described. The activities are also described on the website of MIRAI.

### **MIRAI2.0 extended year 2023**

A one-year extension of the activity in 2023 was approved at the GA meeting in June.

During that time, the following activities are planned:

- Research & Innovation week held in Sweden in 2023.
- PhD short courses. This will be supported through MIRAI's call for short courses.

- A student mobility fair and mapping of student exchange possibilities.

### **Update about R&I week 2023**

Prof. Wiberg announced that Umeå University will host Research & Innovation Week 2023. The date for the R&I week is November 13-17, 2023. Katrine Riklund, Pro-Vice Chancellor of Umeå University, gave a few words of greeting.

### **Discussion session**

Both countries have had preliminary discussions on how the academic collaboration between Sweden and Japan could be developed after the project period of MIRAI 2.0 ends in 2023. At the beginning of the discussion session, the representatives of the coordinating universities in both countries gave a summary and brief explanation of the contents of the preliminary discussions in their respective countries. (see appendix)

A discussion followed which is summarized below:

### **Challenge-based themes**

- There are many challenges in common between Japan and Sweden: energy issues, sustainability, gender equality, and so on. Collaboration around relevant shared challenges from a challenge-driven perspective is desirable for the future collaboration.
- Naturally, these should be cross-disciplinary studies. It could give good outcomes in the long run.
- The next step of this discussion is how we should identify these challenges for the next phase of MIRAI?

### **Early career researchers**

- The engagement of early career researchers is very important also for future MIRAI collaboration in order to realize a long-term network.
- We should consider a scheme to attract young students to academia.
- That said, senior researchers are also important as they are expected to act as mentors. We should ensure that participation is not restricted by age.
- Organizing some network/conference by early career researchers on their own could be an interesting learning experience for them.

### **Social Sciences**

- It is a good opportunity that two strong democracies work together given the current geopolitical situation and we aim to further develop the involvement of social sciences within MIRAI.

- Social science researches could have a connection to the strategic partnership agreement (SPA) between Japan and EU.
- Security studies is mentioned since it has a wide range of coverage (energy security, data security, etc.).

### **Student exchange**

- We have been discussing student exchange for many years and we yet have a lot that can be achieved. Not only PhD level but also master level and undergraduate level should be further considered.

### **Collaboration with Industry**

- How can we involve the industry even more? One example is to provide internship opportunities for students.
- We have representatives from companies joining this R&I Week, but this aspect of the MIRAI collaboration can be further developed.
- One example from the session A on Nov 15th is the representative from IKEA Japan who joined the panel discussion and explained how IKEA managed to be adapted to Japanese environment. Collaboration with the industry is a good stimulus for participating researchers.

### **Financing**

- Obtaining funding for MIRAI's activities is one of the most imminent issues. Both internal and external funding should be discussed. Legal things related to financing organizations could be also an issue to discuss.
- One thing we could do is to have a small working group dedicated to discuss this issue and report back to GA.
- There is a possibility of creating working groups on other issues if necessary, but the most urgent issue is financing.

### **Communication**

- Do we need more communications to enhance MIRAI's reputation or branding?
- It is important to keep in mind that what is actually needed is to make a difference, and public relations is the bonus that comes with it.
- Communication/branding and how we can develop this aspect is an important aspect for the next phase of MIRAI.

### **Analyzing**

- In order to consider MIRAI's activities beyond 2023, it is necessary to analyze what outcomes MIRAI has achieved up until now. This is also needed in order to market/publicize MIRAI.
- Sending out a short questionnaire to our partners could work.

Different working groups was discussed and proposed. The suggestion is two small working groups with representatives from both Japan and Sweden. Prioritized at this point is one working group regarding financial issues, looking into both external and internal financial sources, and one working group looking further into a project proposal and organizational structure.

The MIRAI Responsible Committee will further discuss the forming of working groups who will report back to GA. The aim is to hold a GA meeting in early spring next year.

### **Closing**

After wrapping up the discussion by Prof. Kasuya and Prof. Wiberg, The General Assembly meeting was concluded by Prof. Mizutani with some words of thanks to everyone for attending and actively participating in the discussion.



Participant list MIRAI2.0 General Assembly meeting

Tuesday, November 15, 2022, 16:00-17:30 (JP) / 08:00-09:30 (SE). Physical meeting - hybrid participation available.

Hybrid format

University	Position	Name	Title	
Jönköping University	General Assembly	Agneta Marell	President	
	IEAG Co-Chair	Karin Hellerstedt	Associate Professor Business Administration	
	Project Manager	Marco Stevenazzi	Project Manager, International Office	
Karlstad University	General Assembly	Patrik Larsson	Deputy Vice-Chancellor	on-line
	Project Manager	Jorge Solis	Project Manager	on-line
Linköping University	General Assembly	Karin Axelsson	Deputy Vice-Chancellor	on-line
	International Director	Maria Engelmark	Dr, Director of International Affairs	on-line
	TEG Co-Chair	Alex Prast	Professor	on-line
	Project Manager	Helena Balogh	Project manager, Strategic Collaboration unit	
Linnaeus University	General Assembly / TEG member (delegation from the president to represent Linnaeus University)	Anna Sandgren	Associate Professor	
	Project Manager	Charlotte Skoglund	Senior internationalisation officer Regional Manager for Asia and South America	
Luleå University of Technology	TEG Co-Chair	Marcus Liwicki	Professor	
	Project Manager	Maria Vyatkina	International Relations Manager	
Lund University	General Assembly	Viktor Öwall	Pro-Vice-Chancellor	
	Project Manager	Henrik Hofvendahl	Project Coordinator	
Örebro University	General Assembly	Johan Schnürer	Vice-Chancellor	
		Åke Strid	Pro Vice-Chancellor	
	Project Manager	Pia Bro-Nygårdhs	Analyst Internationalisation	
The University of Gothenburg	General Assembly	Eva Wiberg	President	
		Torbjörn Lundh	Vice President	
	Project Coordinator	Linn Gabrielsson	Project Coordinator	
	Project Coordinator	Kristin Rådesjö	Project Coordinator	
Umeå University	General Assembly	Katrine Riklund	Pro-Vice Chancellor	
	Responsible Committee	Greg Neely	Professor, Pro Dean Faculty of Social Sciences	
	TEG Co-Chair	Carl-Johan Boraxbekk	Professor	
	International Director	Ingrid Svensson	Director, International Office	
Uppsala University	Project Manager	Jenny Ahlander Hagberg	Project Manager	
	General Assembly	Coco Norén	Pro-Vice Chancellor	
	General Assembly	Peter Lindblad	Professor, Department of Chemistry	
	TEG Co-Chair	Björgvin Hjörvarsson	Professor, Department of Physics and Astronomy	
	Project Manager	Helin Bäckman Kartal	Project Coordinator	
Stockholm School of Economics (associated partner**)		Patrik Ström	Director European Institute of Japanese Studies (EJJS)	
Hiroshima University	General Assembly(substitute)	Ayyoob Sharifi	Professor	
	Project Manager	Satoko Masaki	Project Manager	
		Takashi Sugimoto	Administrative Staff	
Hokkaido University	General Assembly	Atsushi Yokota	Executive Vice President	on-line
		Hiroaki Motomura	Director of International Affairs Department	on-line
		Nami Mabuchi	Director of Division of International Relation	on-line
		Akira Watanabe	Chief Administrative Officer	on-line
Kyushu University	Project Manager	Yoshie Ito	Administrative Staff	
	General Assembly	Toshiyuki Kono	Professor	
	Project Manager	Saori Suenaga	Administrative Staff	
Nagoya University		Shunsuke Sadoshima	Administrative Staff	
	General Assembly	Norimi Mizutani	Vice President	
		Hideki Kasuya	Vice Presidential Advisor	
	TEG Co-Chair	Yoshihisa Hirakawa	Associate Professor	
	Project Coordinator	Branko Alecsic	Project Coordinator	
	Project Coordinator	Noriko Morisue	Project Coordinator	
		Tetsuya Yamamoto	Administrative Staff	
OIST	General Assembly	Nicholas M. Luscombe	Dean of Research	on-line
Sophia University	General Assembly	Takashi Okada	Vice President	
	TEG Co-Chair	Hideki Kuwahara	Professor	

		Guangwei Huang	Professor
	Project Manager	Takehito Kamata	Assistang Professor
		Kazumi Satoh	
<b>Tohoku University</b>	General Assembly(substitute)	Taeko Misumi	
	Project Manager	Moto Kobayashi	Administrative Staff
<b>The University of Tokyo</b>	IEAG Co-Chair	Shu Takagi	Professor
		Mami Yagihashi	Manager
	Project Manager	Nao Okuda	Administrative staff
<b>Waseda University</b>	General Assembly	Masahiko Gemma	Vice President for International Affairs
	Project Manager	Miki Yamaguchi	International Office, Administrative Staff
	Project Manager	Dai Suematsu	International Office, Administrative Staff

\*\*non voting

On November 8, a preparatory discussion was held by the Japanese GAs available that day for a meeting on what academic collaboration between Japan and Sweden could be after MIRAI 2.0. Here is a summary of the discussion.

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- There is no doubt that the MIRAI network provides opportunities for collaboration and interaction among participating universities. This activity must be continued.
- MIRAI has the characteristic of being highly regarded by government and diplomatic officials. We should try to maintain its appeal in the future.
  - A challenge-based interdisciplinary topic should be identified, and through intensive discussions on this topic, a joint research project could be started. Topics should be set to appeal to the policy makers.
- MIRAI's name value should be maintained and even promoted. This will hopefully increase the ability to obtain external funding.
  - More leading universities from both countries participating in MIRAI in the future would be effective.
  - It is important to maintain a balance among participating universities from both countries in order to promote exchange of researchers and students.
- We should consider how MIRAI can support collaborative research that is already producing good outcomes. How can we support obtaining larger funding?
- Recognition of MIRAI within each university is also an important issue.
  - If the research areas of MIRAI are considered fragmented, there could be researchers who consider themselves not covered there.
- How can we support researchers who wish to engage in collaborative research effectively?
- How can we support collaborative research to lead to joint publications?
- There should be a platform that PhD students can contribute more easily.
- Can MIRAI be like the Club of Rome?

## **Discussions and outcomes from the Swedish MIRAI universities regarding the continuation for the MIRAI collaboration - MIRAI post 2023, document for the GA meeting on Nov 15<sup>th</sup>, 2022.**

### **Background**

During the autumn of 2021 the question regarding how to continue the MIRAI collaboration after the current project period was initiated. The Swedish MIRAI universities expressed their great support to continue the MIRAI collaboration when the MIRAI 2.0 project ends. A core group consisting of university management representatives from five of the Swedish MIRAI universities was appointed, with the duty of suggesting a structure when it comes to both the collaboration form, focus areas as well as how a future collaboration could be financed.

On February 23, 2022 the core group reported the outcome of their dialogues so far to all the Swedish MIRAI universities and a discussion was held. Here are the conclusions:

- The future MIRAI collaboration should be organized as a network rather than a project, with the keyword's that the network should aim to be pragmatic and agile. The purpose of the network structure is to enable a long-term engagement.
- We should have an ambition to form the organizational structure as simple as possible. Some kind of organization, coordination and steering will still definitely be needed.
- It is important to have a fundamental discussion regarding what we want to use this network for as well as still providing many activities within the network.
- The network should be the natural platform from where we jointly create and maintain collaborations between Japanese and Swedish universities.
- The ideal or maximum number of member universities was discussed, and it was agreed that too many universities could result in an administratively heavy organization and that too many wills might make it difficult to find common objectives.
- When discussing the content in the future collaboration, it is important to evaluate what we have achieved within the collaboration so far as well as what we have not yet achieved.
- It was suggested to arrange a workshop where we could discuss the common societal challenges for Sweden and Japan, which could be the foundation for the next MIRAI phase.
- It was also highlighted that we need to include the researchers and the thematic groups in discussion and evaluation.
- Finally, it was emphasized that it is very important that we have joint JP-SE discussions as well as that each country is having their own discussions regarding the opinions of the future MIRAI collaboration.

As a result of the discussions above, the core group invited the co-chairs from the TEG/IEAG groups to a meeting on June 22, 2022. The researchers in the TEG/IEAG groups (from Japan and Sweden) had also been able to give input to the discussion regarding MIRAI post 2023 which took place in the GA meeting on June 7, 2022.

The core group invited all Swedish members of TEG/IEAG groups, university management representatives and MIRAI2.0 project managers to a physical workshop in Gothenburg between October the 13<sup>th</sup> and 14<sup>th</sup>, 2022. The meeting was held in conjunction with an interdisciplinary workshop for TEG/IEAG members led by TEG Materials science.

The purpose of the meeting was to:

- Gather experiences from the current MIRAI project – Strengths, challenges, opportunities.
- Agree on ideas and concepts that representatives of the Swedish membership should present to our Japanese partners when we meet at R&I week in November and discuss the future of MIRAI (forming a joint Swedish proposal)

The workshop was structured in two parts where the theme for the first day was “Gathering experiences from MIRAI 2.0” and day two focused upon goals and ideas for collaboration beyond 2023. During day one participants were requested to contribute with ideas of what has been working well and should be retained in a future MIRAI collaboration as well as what needs to be changed or developed in the future. On day two discussions focused upon what we want and have the capacity to achieve in the future as well as defining our stakeholders, needs, aims and objectives.

**Conclusions/shortlist from the first day *Gathering experiences from MIRAI 2.0:***

**Keep:**

- Seed money
- R&I week
- Phd courses – broader PhD courses is a way of including more social sciences.
- Thematic workshops – the digital form opens up for many opportunities of workshops (for example general sessions on grant-writing or how to find suitable external funding sources)

**Change:**

- Resources (better use of and communication of external funding)
- Organization (for example the current TEG/IEAG structure and the appointment of representatives. It needs to be right people at the right place as well as a more interdisciplinary approach)
- Communication (for example an increased coordination between the different TEG/IEAG groups in terms of scheduling events, call for workshop proposals, speakers etc)

**Conclusions/shortlist from the second day *The MIRAI collaboration post 2023:***

**Main stakeholders and the Impact we would like to have on stakeholder groups:**

- Junior & Senior researchers - developing intercultural competence, more access to resources, support in external funding applications, improved quality of research
- Exchange students – enhanced mobility
- Society – Solve societal challenges identified as being common to both Sweden and Japan.
- Universities – Increase branding, strengthening profile areas, enhance access to external grants by developing strong sustainable partnerships

**Focus of the next phase of MIRAI (post 2023):**

- Swedish members expressed a desire to have a more challenge-driven approach
- Maintain the existing platform but address challenges in a new way; one example was to have the TEG/IEAG groups contributing to creating the themes: for example, giving each group the task of defining a few problems they have to solve (interdisciplinary).
- The challenges should be defined and agreed upon by Japanese and Swedish partners
- Explore areas for collaboration within education / student exchange



MIRAI 2.0

General Assembly meeting

November 15, 2022



## Agenda

**Chair: Prof. Mizutani, Vice President, Nagoya University**

1. Welcome
2. Secretariat Report
3. Update about R&I week 2023
4. Discussion (Chaired by Prof. Kasuya and Prof. Wiberg)  
- MIRAI post 2023

## MIRAI 2.0 universities



## Secretariat report

- What has happened since the last GA-meeting, June 7, 2022
  - Call for MIRAI2.0 Joint seed funding (second round)
  - Workshops and other activities by TEG/IEAG
- The project timeline
  - 2020 - 2022
- MIRAI2.0 extended year (2023)



## MIRAI2.0 Joint seed funding

First round (Jan 2022 – Dec 2022)

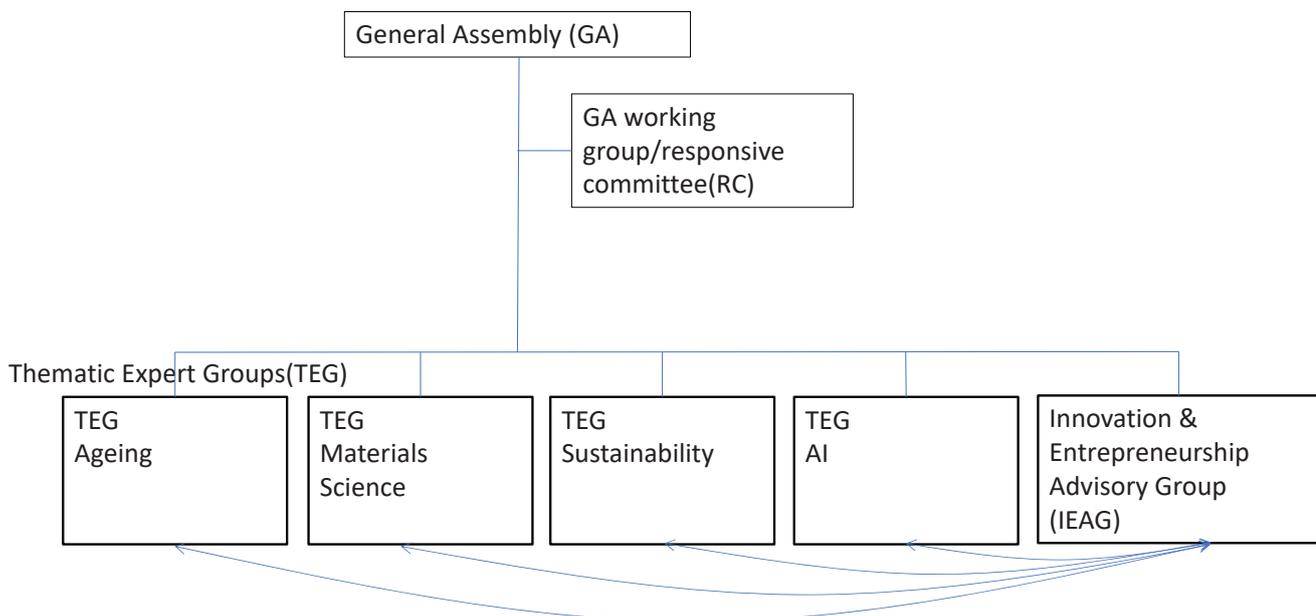
- MIRAI2.0 first call for collaborative projects was launched at the R&I week in June 2021.
- By deadline, November 1st, **24 applications** were received and after evaluation by the TEG groups approved by the General Assembly (GA).
- **77 researchers** from MIRAI2.0 universities are included in the seed funded projects.

Second round (Jan 2023 – Dec 2023)

- Up to 20 projects
- Funded with maximum of 67 000 SEK to Swedish project partners and a maximum of 400 000 JPY to Japanese project
- Short courses for PhDs and postdocs will be also funded
- Deadline for the call: 1 December, 2022



## Workshops and other activities by TEG/IEAG





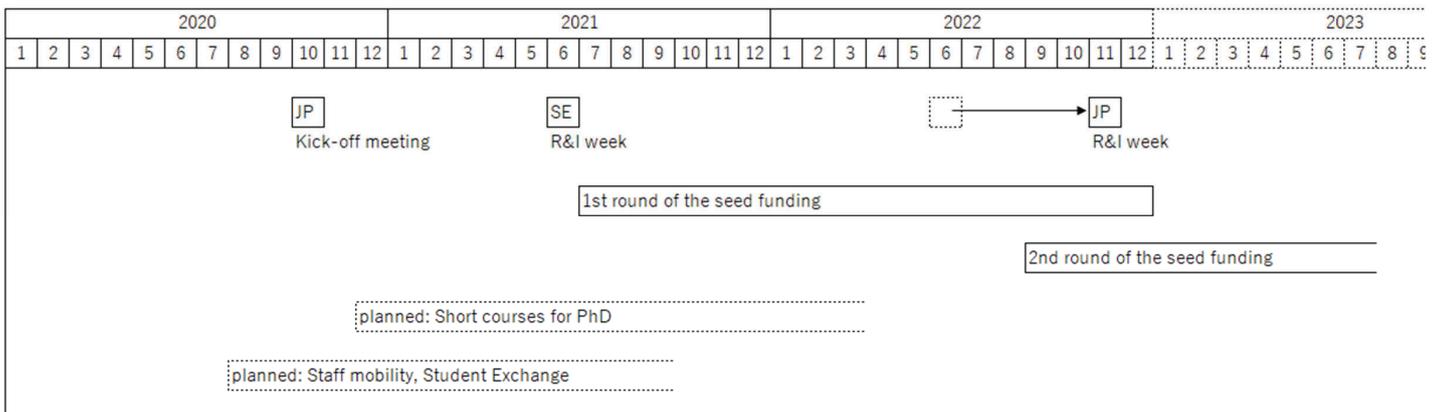
# Workshops and other activities by TEG/IEAG

- Workshop – Ageing in a sustainable future, June 8
  - Ageing TEG
  - On-line workshop
- Short course for PhD students “Challenges and Advances in Environmental Change”
  - Sustainability TEG, Sophia University and Linköping University
  - On-line lectures
  - Field Studies
    - Sweden : October 3 - 7
    - Japan : November 21 - 25
- AI workshops #4: Industry 5.0 and Society 5.0, Oct 26
  - AI TEG
  - On-line workshop



# The project timeline

\* Until the end of 2022





## MIRAI2.0 extended year 2023

Approved by GA that in 2023 we are having...

- Research & Innovation week 2023 in Sweden
- short courses for PhD and post-docs
- student mobility fair and mapping of student exchange possibilities



## Update about R&I week 2023

Discussion: MIRAI post 2023

- Sharing ideas from the JP universities
- Sharing ideas from the SE universities
- Discussion
- Wrap-up

**Chairs:** Prof. Kasuya and Prof. Wiberg

**Conclusions/shortlist from the first day *Gathering experiences from MIRAI 2.0:***

**Keep:**

- Seed money
- R&I week
- Phd courses – broader PhD courses is a way of including more social sciences.
- Thematic workshops – the digital form opens up for many opportunities of workshops (for example general sessions on grant-writing or how to find suitable external funding sources)

**Change:**

- Resources (better use of and communication of external funding)
- Organization (for example the current TEG/IEAG structure and the appointment of representatives. It needs to be right people at the right place as well as a more interdisciplinary approach)
- Communication (for example an increased coordination between the different TEG/IEAG groups in terms of scheduling events, call for workshop proposals, speakers etc)

## Discussion (summary from SE side)

### Conclusions/shortlist from the second day *The MIRAI collaboration post 2023:*

#### Main stakeholders and the Impact we would like to have on stakeholder groups:

- Junior & Senior researchers - developing intercultural competence, more access to resources, support in external funding applications, improved quality of research
- Exchange students – enhanced mobility
- Society – Solve societal challenges identified as being common to both Sweden and Japan.
- Universities – Increase branding, strengthening profile areas, enhance access to external grants by developing strong sustainable partnerships

#### Focus of the next phase of MIRAI (post 2023):

- Swedish members expressed a desire to have a more challenge-driven approach
- Maintain the existing platform but address challenges in a new way; one example was to have the TEG/IEAG groups contributing to creating the themes: for example, giving each group the task of defining a few problems they have to solve (interdisciplinary).
- The challenges should be defined and agreed upon by Japanese and Swedish partners
- Explore areas for collaboration within education / student exchange

## Discussion (summary from JP side)

- There is no doubt that the MIRAI network provides opportunities for collaboration and interaction among participating universities. This activity must be continued.
- MIRAI has the characteristic of being highly regarded by government and diplomatic officials. We should try to maintain its appeal in the future.
  - A challenge-based interdisciplinary topic should be identified, and through intensive discussions on this topic, a joint research project could be started. Topics should be set to appeal to the policy makers.
- MIRAI's name value should be maintained and even promoted. This will hopefully increase the ability to obtain external funding.
  - More leading universities from both countries participating in MIRAI in the future would be effective.
  - It is important to maintain a balance among participating universities from both countries in order to promote exchange of researchers and students.



## Discussion (summary from JP side)

- We should consider how MIRAI can support collaborative research that is already producing good outcomes. How can we support obtaining larger funding?
- Recognition of MIRAI within each university is also an important issue.
  - If the research areas of MIRAI are considered fragmented, there could be researchers who consider themselves not covered there.
- How can we support researchers who wish to engage in collaborative research effectively?
- How can we support collaborative research to lead to joint publications?
- There should be a platform that PhD students can contribute more easily.
- Can MIRAI be like the Club of Rome?



Thank you

**Closing by**

Prof. Hideki Kasuya, Nagoya University

November 15 – 18, 2022

Kyushu University Ito Campus (744 Motooka Nishi-ku Fukuoka 819-0395)

## DAY ONE (November 15)

09:00 – 10:00	Reception (Galleria, 1 <sup>st</sup> floor, Shiiki Hall)
10:00 – 12:00	<p><b>Opening Ceremony (Shiiki Concert Hall)</b> MC: Natalie Konomi, Kyushu University</p> <p>Welcome Remarks • Tatsuro Ishibashi, Kyushu University</p> <p>Opening Remarks • Norimi Mizutani, Nagoya University • Eva Wiberg, University of Gothenburg</p> <p>Congratulatory Address • Mr. Satoshi Odoi, Director, International Science and Technology Affairs Division, Science and Technology Policy Bureau • Dr. David Edvardsson, Director General, Division for Research Policy, Ministry of Education and Research (MoER)</p> <p>Introduction of Programme during the R&amp;I week 2022 • Toshiyuki Kono, Kyushu University</p> <p>Group Photo</p> <p>Keynote Lecture by Tetsuya Osaka, Waseda University Q/A Moderated by Kazunari Sasaki, Kyushu University</p> <p>Close</p>
12:00 – 13:00	Lunch (Galleria, Shiiki Hall)
13:00 – 15:30	<p><b>Special Session A (Shiiki Concert Hall)</b> Academia-Industry-Funding Agency Collaboration “What actions can different sectors take together towards a better future?” Moderated by Masahiko Gemma, Waseda University</p> <p>Part 1 : Case Studies (1) From Vinnova-funded project: Vahid M. Nik (Lund), and Ayyoob Sharifi (Hiroshima) (2) IKEA Japan: Martin Henry Clarke, IKEA Fukuoka Shingu Market Manager</p> <p>Part 2 : Panel Discussion Above speakers, Representative from Swedish start-ups, and JP/SE funding agencies: JSPS, JST, STINT, Vinnova</p>

## DAY ONE (November 15) – continued

16:00 – 17:30	<p><b>GA (General Assembly) Meeting *GA members only</b>            Venue: Jonathan Choi Hall (see map attached)            Format: Hybrid</p>
16:00 – 17:30	<p>Optional : Poster Session Core Time (Foyer, 2<sup>nd</sup> floor, Shiiki Hall)            Optional : Campus Tour (Registration closed)</p>
18:15 – 20:15	<p><b>Welcome Reception</b>            Venue: Glocal Hotel Itoshima            MC: Takashi Okada, Sophia University</p> <p>Congratulatory Address</p> <ul style="list-style-type: none"> <li>• Swedish Ambassador Per-Eric Högberg</li> <li>• Japanese Ambassador Masaki Noke</li> </ul> <p>Toast by Viktor Öwall, VP, Lund University</p> <p>Traditional Japanese Music Performance by Kyushu University's students</p> <p>Closing Remarks by Marell Agneta, President, Jönköping University</p>

## DAY TWO (November 16)

08:30 – 17:30	<p><b>Parallel Scientific Sessions</b>            Each TEG/IEAG has its own session programs. Lunch break varies (@ Galleria, Shiiki Hall)            See session program details attached</p>
10:00 – 11:30	<p><b>University Leadership Summit *Invitation only</b>            Venue: Jonathan Choi Hall            Format: In-person participation            Theme: "How can the higher education sector move beyond silos and create more synergies for a better world?"            Moderated by Toshiyuki Kono, Kyushu University</p>
08:30 – 17:30	<p>Optional : Poster Session Core Time (Foyer, 2<sup>nd</sup> floor, Shiiki Hall)</p>

## DAY THREE (November 17)

08:30 – 17:30	<b>Parallel Scientific Sessions</b> Each TEG/IEAG has its own session programs. Lunch break varies (@ Galleria, Shiiki Hall) See session program details attached
08:30 – 17:30 13:00 – 14:30	Optional : Poster Session Core Time (Foyer, 2 <sup>nd</sup> floor, Shiiki Hall) Optional : Campus Tour (Registration closed)
18:00 – 20:00	<b>Dinner Banquet *Invitation only</b> Venue: Hakata Hyakunen-Gura

## DAY FOUR (November 18)

08:00 – 09:15	<b>Special Session B (Shiiki Concert Hall)</b> Science & Ethics, Science Dialogue led by ECRs  4 ECRs and Moderator talk about today's science issues, for example, about using animals, and about the publication culture Moderator: Jan Lauwereyns, Kyushu University  4 ECRs: <ul style="list-style-type: none"> <li>• Diego Gabriel Francis Thomas, Kyushu University</li> <li>• Haemi Park, Sophia University</li> <li>• Irina Mancheva, Umea University</li> <li>• Jonathan Roques, U of Gothenburg</li> </ul>
09:30 – 11:00	<b>IEAG/TEG Collaboration Event (Shiiki Concert Hall)</b>
11:15 – 12:30	<b>Closing Ceremony (Shiiki Concert Hall)</b> MC: Coco Norén, Uppsala University  Reporting from Parallel Scientific Sessions <ol style="list-style-type: none"> <li>(1) Sustainability</li> <li>(2) AI</li> <li>(3) Materials Science</li> <li>(4) Ageing</li> <li>(5) IEAG</li> </ol> Suggestions from Leadership Summit Toshiyuki Kono, Kyushu University  Wrap-up, Closing Remarks Katrine Riklund, Pro-Vice Chancellor, Umeå University
12:30 – 14:00	Lunch (Galleria, Shiiki Hall)
afternoon	Optional : Excursion (Registration closed)



**MIRAI 2.0 Research and Innovation Week 2022**  
**Parallel Session Program (Tentative)**  
**for the Ageing Thematic Expert Group**

November 16-17, 2022

Program (As of November 12, 2022)	
Wednesday, November 16	
9:00 - 9:10	<p>Opening Remarks by the Co-Chairs of Ageing TEG            Dr. Carl-Johan Boraxbekk (Umeå University) and Dr. Yoshihisa Hirakawa (Nagoya University)</p>
9:10 - 10:10	<p>Keynote Lecture I (15-minute Q &amp; A will follow)            Dr. Tomohiro Shibata, Professor, Kyushu Institute of Technology            Lecture Title - Near-Future Care Using AI and Robots  <a href="https://www.brain.kyutech.ac.jp/~tom">https://www.brain.kyutech.ac.jp/~tom</a>            (Moderator — Dr. Yoshihisa Hirakawa, Nagoya University)</p>
10:10 - 10:20	Coffee Break
10:20 - 11:50	<p>Oral Presentations I (Moderator – Dr. Caroline Fischl, Jönköping University)            Each presenter will talk for 10-15 minutes, followed by Q &amp; A.            The session will feature 4 presentations on the following topics:</p> <ul style="list-style-type: none"> <li>• Biological aspects of ageing</li> <li>• Psychosocial aspects of ageing</li> <li>• Technological aspects of ageing</li> <li>• Other aspects of ageing</li> </ul> <p>Presenters</p> <ul style="list-style-type: none"> <li>• Susanna Pusa (Linnaeus University)                “Implementation of the Serious Illness Care Program – the Kronoberg model”</li> <li>• Sofi Fristedt (Jönköping University) “Welfare@home – are welfare technologies for better and worse in the eyes of the prime users?”</li> <li>• Jennifer Frankel (Umeå University)                “High-intensity interval training (HIT) for older adults - Development of new training strategies”</li> <li>• Akihiro Kawaguchi, Yunkyoo Lee (Kyushu University)                “Communication tool design development for nursing home residents”</li> </ul>

11:50 - 13:00	Lunch
13:00 - 14:00	<p>Keynote Lecture II (15-minute Q &amp; A will follow)</p> <p>Dr. Masa Higo, Professor, Kyushu University</p> <p>Lecture Title - A 'death-laden' society : The next stage of a super-age Japan and its health challenges decades ahead</p> <p><a href="https://asianstudies-kyushu.com/staff/dr-masa-higo">https://asianstudies-kyushu.com/staff/dr-masa-higo</a></p> <p>(Moderator — Dr. Carl-Johan Boraxbekk, Umeå University)</p>
14:00 - 15:45	<p>Oral Presentations II (Moderator – Dr. Takayuki Akimoto, Waseda University)</p> <p>Each presenter will talk for 10-15 minutes, followed by Q &amp; A.</p> <ul style="list-style-type: none"> <li>• Anna Sandgren (Linnaeus University) “Battle, journey, imprisonment and burden’ – how are metaphors used in palliative care?”</li> <li>• Lame Maatla Kenalemang-Palm, Göran Eriksson, (Örebro University) “Advanced” technologised solutions for age-related problems: A multimodal critical discourse analysis of cosmetic apps”</li> <li>• Steven Schmidt (Lund University) “Attitudes toward technologies to support active and healthy ageing: Perspective from three generations”</li> <li>• Michael Annear (Waseda University) “Urban walkability in Tokyo’s aging neighborhoods: barriers and insights for age-friendly planning”</li> <li>• Tsukasa Muraya (Kyushu University) “Development of ‘ACP Portfolio’: Design for Healthcare Communication on Older Adults’ Dignity”</li> </ul>
15:45 - 16:00	Coffee Break
16:00 - 17:00	<p>Networking / Discussion Session – “Models of a Future Society”</p> <p>Moderators — Anna Sandgren (Linnaeus University), Susanna Pusa (Linnaeus University) and Abubakr Al-shoaibi (Nagoya University)</p> <p>By featuring an interdisciplinary discussion on the kind of ageing society we can propose for our future, this session will aim to facilitate a cross-disciplinary understanding on the topic of ageing as well as to promote networking among the participants. The session is moderated by a team of three researchers from Sweden and Japan, including two postdoctoral fellows.</p>
18:00 - 20:00	TEG Dinner (Big Orange Restaurant at the Ito Campus)

## Thursday, November 17

9:00 - 10:10	<p>Short Presentations I (Flash Talks) by Young Researchers (Moderator — Dr. Sofi Fristedt, Jönköping University)</p> <p>The session will feature 4 presentations, where each presenter talks for 5-10 minutes, followed by Q &amp; A.</p> <ul style="list-style-type: none"><li>• Magdalena Nielsen (Linnaeus University) "How can we create caring mealtime environments in nursing homes?"</li><li>• Lucas Morillo-Mendez (Örebro University) "Beyond usability testing: a call for cognitive-based research for a better design of robots for older adults"</li><li>• Larisa Sheloukhova (OIST / Lifetime Ventures) "Crowdfunding and popularizing aging research: Lifespan.io as a case study"</li><li>• XU Feifan (Nagoya University) "A study on the optimal location of medical facilities considering the acceleration of aging in Japan"</li><li>• Minjung Lee (Waseda University) "microRNAs are involved in accelerating ageing - Searching for metabolic factors of ageing"</li></ul>
10:10 - 10:30	Coffee Break
10:30 - 11:40	<p>Short Presentations II (Flash Talks) by Young Researchers (Dr. Michael Annear, Waseda University)</p> <ul style="list-style-type: none"><li>• Jimmy Falk (Luleå University of Technology) "The postural control of older individuals during surface perturbations"</li><li>• Ivette Arroyo (Lund University) "Older Adults' Experience of living in Collaborative Housing during the COVID-19 pandemic in Sweden"</li><li>• Alireza Khoshghadam (Linköpings University) "Part-time Retirement and Labor Supply in the Public Sector in Sweden"</li><li>• Miki Tachiyama (Kyushu University) "Design study of exercise program for active seniors ~Grand cheer~"</li><li>• PIAO Xingyu (Waseda University) "The walkability of the urban environment and elderly health"</li></ul>
11:40 - 11:50	<p>Special Session – "How to get funded for a group project"</p> <p>This session will provide the participants with information about the second round of the MIRAI seed funding.</p>
11:50 - 13:00	Lunch

13:00 - 14:30	<p>Option 1 - Ito Campus Tour hosted by Kyushu University</p> <p>Option 2 - Poster Session Presentation Core Slot</p>
14:30 - 16:00	<p>Panel Session on Registries and Longitudinal Studies</p> <p>Chairs – Dr. Carl-Johan Boraxbekk (Umeå University) and Dr. Pär Bjälkebring (University of Gothenburg)</p> <p>The session will consist of five presentations, followed by discussion.</p> <ul style="list-style-type: none"> <li>• Boo Johansson (University of Gothenburg)</li> <li>• Pär Bjälkebring (University of Gothenburg)</li> <li>• Carl-Johan Boraxbekk (Umeå University) <ul style="list-style-type: none"> <li>" The importance of longitudinal data when studying brain aging"</li> </ul> </li> <li>• Andreea Badache (Örebro University) <ul style="list-style-type: none"> <li>"Successful aging in the older people. Living longer. Living well?"</li> </ul> </li> <li>• Abubakr Al-shoaibi (Nagoya University) <ul style="list-style-type: none"> <li>"Association of Low-Density Lipoprotein Cholesterol with Risk of cardiovascular disease among Japanese Workers"</li> </ul> </li> </ul>
16:00 - 17:00	<p>Ageing TEG Meeting – Summary of the Parallel Sessions and a Conversation about Future Plans for Events and Collaborations</p> <p>Moderators — Dr. Carl-Johan Boraxbekk and Dr. Yoshihisa Hirakawa</p> <p>Closing of the Parallel Sessions</p>

Theme of Parallel Scientific Session:

## *Exciting Trends in Applied AI*

Program (Japanese Standard Time):

<b>Wednesday, November 16</b>	
9:00-9:05	<p><b>Opening Remarks by Co-Chairs</b></p> <p>Prof. Jun'ichi Takeuchi, Kyushu University</p> <p>Prof. Marcus Liwicki, Luleå University of Technology</p>
9:05-10:30 (60 + 25mins)	<p><b>Keynote Speech</b></p> <p>Distinguished Professor Seiichi Uchida, Kyushu University</p>
10:45-11:45 (15*3 + 15mins)	<p><b>Report from the AI Seed-Funding Projects</b></p> <ol style="list-style-type: none"> <li>1. Profs. Ryo Kurazume (Kyushu) and Oscar Martinez Mozos (Örebro)</li> <li>2. Profs. Tatsuo Nakajima (Waseda) and Bruce Ferwerda (Jönköping)</li> <li>3. Profs. Emi Yuda (Tohoku) and Oscar Martinez Mozos (Örebro)</li> </ol>
11:45-13:30	<p><b>Lunch Break</b></p>
13:30-17:30 (including Coffee Break)	<p><b>Collaboration Session – Part 1</b></p> <ol style="list-style-type: none"> <li>1. Theoretical aspects and foundations of AI</li> <li>2. Political and Legal/Moral aspects of AI</li> </ol> <ul style="list-style-type: none"> <li>- <i>4 speakers will be represented in each theme</i></li> <li>- <i>will be followed open discussion including audience</i></li> </ul>
*Conducting in parallel at 2 venues (might be separate building, approx. 10 min walk in Ito Campus)	
Evening	<p><b>Dinner Banquet for AI members</b></p>

**Thursday, November 17**

09:30-11:30	<p><b>Ito Campus Tour focusing on the AI related labs</b></p> <p>Prof. Keiji Iramina Lab / Brain Signal</p> <p>Prof. Shuji Mori Lab / Hearing</p> <p>Prof. Kazunori Shidoji Lab / Driving Safety</p> <p>Prof. Ryo Kurazume Lab / Robotics</p>
11:30-13:00	<p><b>Lunch Break</b></p>
13:00-16:30 (including Coffee Break)	<p><b>Collaboration Session – Part 2</b></p> <p>3. Biomedicine and Health</p> <p>4. Industry 5.0 and Society 5.0</p>
16:30-17:30	<p><b>Wrap-up Discussion for the Parallel Scientific Sessions</b></p>
17:30-17:40	<p><b>Closing Remarks</b></p>



## MIRAI 2.0 Research and Innovation Week 2022

### Materials Science TEG

### Parallel Sessions

**Date:** Wednesday, November 16, 2022  
Thursday, November 17, 2022

**Time:** 8:30 - 11:30 Parallel Scientific Sessions  
13:00 - 17:00 Parallel Scientific Sessions

**Topics:** 1. Hydrogen Science  
2. Advanced Materials  
3. Quantum Beam

Wednesday, November 16	
8:45-9:00	Opening Remarks by Co-Chairs and Introduction
9:00-10:00 (60 min)	<b>Keynote Speech</b> (Hybrid Session, Moderator: Prof. Hideki Kuwahara, Sophia Univ.) • Prof. Viktor Öwall (Pro Vice-Chancellor at Lund Univ.) • Prof. Petros Sofronis (Director of I <sup>2</sup> CNER, Kyushu Univ.)
10:00-10:15	Fika
10:15-11:35 (80 min)	<b>Quantum Beam</b> (Moderator: Prof. Hirohiko Shimizu, Nagoya Univ.) • Prof. Jens Birch (Linköping Univ.) • Prof. Maiko Nishibori (Tohoku Univ.) • Dr. Satoru Takakusaki (Hokkaido Univ.) • Takuro Fujiie/Rintaro Nakabe (Nagoya Univ.)
11:35-13:00	Lunch Break
13:00-14:40 (100 min)	<b>Advanced Materials</b> (Hybrid Session, Moderator: Prof. Yasuchika Hasegawa, Hokkaido Univ.) • Prof. Shigenori Fujikawa (Kyushu Univ.) • Prof. Kiyoharu Tadanaga (Hokkaido Univ.) • Prof. Yuko Takeoka (Sophia Univ.) • Dr. Ching-Lien Hsiao (Linköping Univ.) • Prof. Magnus Borgström (Lund Univ.)
14:40-15:00	Fika
15:00-17:00 (120 min)	<b>Lab Tour (Hydrogen Science)</b> (Moderator: Prof. Miho Yamauchi, Kyusyu Univ.)
17:00-17:15	Wrap-up Discussion
19:00-21:00	<b>Dinner Banquet for Materials Science members</b>

Thursday, November 17	
8:45-9:00	Check-In
9:00-9:40 (40 min)	<b>Seed Funding Research</b> (Moderator: Prof. Magnus Borgström, Lund Univ.) <ul style="list-style-type: none"> <li>• <b>Dr. Naureen Ghafoor (Linköping Univ.)</b></li> <li>• <b>Dr. Satoru Yoshioka (Kyushu Univ.)</b></li> </ul>
9:40-10:10	Fika
10:10-11:30 (80 min)	<b>Quantum Beam</b> (Moderator: Prof. Masaki Takada, Tohoku Univ.) <ul style="list-style-type: none"> <li>• <b>Prof. Max Wolf (Uppsala Univ.)</b></li> <li>• <b>Dr. Tomoya Kawaguchi (Tohoku Univ.)</b></li> <li>• <b>Prof. Toshiya Otomo (KEK, J-PARC)</b></li> </ul>
11:30-13:00	Lunch Break
13:00-14:20 (80 min)	<b>Hydrogen Science</b> (Moderator: Prof. Jens Birch, Linköping Univ.) <ul style="list-style-type: none"> <li>• <b>Dr. Björn Samuelsson (Uppsala Univ.)</b></li> <li>• <b>Dr. Atsushi Kobayashi (Hokkaido Univ.)</b></li> <li>• <b>Prof. Shin-ichi Orimo (Tohoku Univ.)</b></li> </ul>
14:20-15:00	Fika
15:00-16:00 (60 min)	<b>Hydrogen Science</b> (Moderator: Prof. Lars Johansson, Karlstad Univ.) <ul style="list-style-type: none"> <li>• <b>Prof. Tsuyohiko Fujigaya (Kyushu Univ.)</b></li> <li>• <b>Dr. Harris Stamatopoulos (Uppsala Univ.)</b></li> <li>• <b>Prof. Alberto Vomiero (Luleå Univ.)</b></li> </ul>
16:00-16:50	<b>Wrap-up Discussion &amp; Next Research Agenda</b> (Moderator: Prof. Björgvin Hjörvarsson, Uppsala Univ.)
16:50-17:00	Closing Remarks by Co-Chairs

Friday, November 18

09:30-11:00 (IEAG and TEG collaborative event)

- **Dr. Andrew Chapman (Kyushu Univ.)**

# R&IW22 Sustainability programme: “Accelerating the way forward with the power of young researchers”

We welcome You to attend the 2-day Sustainability programme within R&IW22

## DAY 2 November 16: Sustainability Day 1

NOTE! Details subject to change

Time	Activities		
9:00-9:10	<b>SHIIKI HALL</b> (Room 3)- Welcome to R&IW22 Sustainability and Kyushu University • Prof. Shinji KANEKO, Hiroshima University, Co-chair of Sustainability TEG (Online)		
9:10-10:10	<b>Keynote Lecture 1:</b> Prof. Yuichi HARADA, Kyushu University, Global Innovation Center “Sustainable smart city based on open innovation 2.0, KOINE - The case study of Science Village in Itoshima -”		
	<b>Keynote Lecture 2 (Online):</b> Prof. David BASTVIKEN, Linköping University, Environmental science, Earth system science, Biogeochemistry, Pollution, Methods and Instrumentation “On the needs and challenges regarding comprehensive greenhouse gas flux monitoring”		
	<b>Q&amp;A</b>		
10:10-10:30	Fika / Transferring to Venues		
10:30-12:00	<b>SHIIKI HALL</b> (Room 3)- <b>Workshop 1</b> “Digital Urban Energy Solutions: Using AI to Increase Energy Flexibility and Climate Resilience” Org.: Lund & Hiroshima Moderator: Prof. Vahid Nik	<b>I2CNER</b> (Room A) – <b>Workshop 2</b> “Towards a carbon-neutral energy system” Org.: Linnaeus & Kyushu Moderator: Prof. Jan PETERSSON	<b>I2CNER</b> (Room B) Seed funded projects (work meetings, no audience)
12:00-13:30	Lunch		
13:30-14:45	<i>Continued: Workshop 1</i> “Digital Urban Energy Solutions: Using AI to Increase Energy Flexibility and Climate Resilience” Org.: Lund & Hiroshima Moderator: Prof. Vahid Nik	<i>Continued: Workshop 2</i> “Towards a carbon-neutral energy system” Org.: Linnaeus & Kyushu Moderator: Prof. Jan PETERSSON	<b>I2CNER</b> (Room B) Seed funded projects (work meetings, no audience)
14:45-15:10	Fika / Transferring to Venues		
15:10-17:40	<b>SHIIKI Hall</b> (Room 3)– <b>Seed funded projects session</b> Presentations by Sustainability seed-funded projects, followed by Q&A and discussion for more collaboration opportunities. Moderator: Prof. Shunsuke MANAGI		
	“Marketing technology (MARTECH) for customer behavioral transformation to rapidly reduce food wastes” (Kyushu, Karlstad, Linnaeus, Umeå)	“Chemical pollution from pharmaceuticals and water governance” (Sophia, Linköping, Gothenburg, Umeå) “North-South Divide and Capital Flow: Exploring the Impact of Partnership” (Uppsala, Kyushu)	“Vertical farming and sustainable food consumption” (Linnaeus, Hokkaido) “Developing advanced energy management systems” (Waseda, Karlstad) “Combining Swedish and Japanese technologies (anammox bacteria, membranes, algae) in order to detoxify the wastewater from recirculation aquaculture systems (RAS)” (Gothenburg, Hiroshima)
	(no official dinner)		

# R&IW22 Sustainability programme: “Accelerating the way forward with the power of young researchers”

## DAY 3 November 17: Sustainability Day 2

Time	Activities		
8:50 -9:00	Sign-in to day 2		
9:00-12:00 (built in Fika)	<b>SHIIKI HALL (Room 3) - Workshop 3</b> ” Towards zero-waste societies: Reimagining waste management systems for a sustainable future”,  Org.: Sophia, Linköping, Örebro universities Moderator: Prof. Guangwei HUANG	<b>I2CNER (Room A) – Workshop 4</b> “Governance and sustainability transitions in Japanese and Swedish small-scale fisheries”,  Org.: Tohoku & Gothenburg universities Moderator: Prof. Alyne DELANEY	<b>I2CNER (Room B)</b> Seed funded projects (work meetings, no audience)
12:00 -13:30	Lunch		
13:30 -17:00 (built in Fika)	<b>SHIIKI HALL (Room 3) - Workshop 5</b> “The future of Smart Cities and Society 5.0”,  Org.: Stockholm school of economics, Meiji, Waseda, Gothenburg universities Moderator: Prof. Guangwei HUANG	<b>I2CNER (Room A)– Workshop 6</b> “Interdisciplinary approaches to research on global, regional and national policy goals – opportunities and hinders for local sustainability”,  Org.: Umeå & Sophia universities Moderator: Prof. Alyne DELANEY	13:30 -14:30 <b>I2CNER (Room B)</b> Seed funded projects (work meetings, no audience)
			14:45-16:45 <b>I2CNER (Room B)</b> TEG-meeting & Whitepaper work meeting (Hybrid) (no audience)
17:10 -17:30	<b>SHIIKI HALL (Room 3)– CLOSING</b> Closing Remarks <ul style="list-style-type: none"> <li>• Prof. Jan PETTERSSON, Gothenburg University, Sustainability TEG</li> </ul>		

**MIRAI 2.0 Research and Innovation Week 2022**  
**Parallel Scientific Sessions Program, IEAG (as per 17 November)**  
 Venue: Lecture Room No. 5, Shiiki Hall, Kyushu University

Wednesday, 16 November		
JST	CET	
09:00-09:10	01:00-01:10	<p><b>Opening remarks by IEAG Co-chairs</b></p> <ul style="list-style-type: none"> <li>- Prof. Shu Takagi (The University of Tokyo)</li> <li>- Prof. Karin Hellerstedt (Jönköping University)</li> </ul>
09:10-10:10	01:10-02:10	<p><b>Keynote Lectures followed by Q&amp;A (hybrid session)</b></p> <p><b>Prof. Alexander Coad, Waseda University - online</b></p> <p>Lecture title: <i>Entrepreneurship and Innovation in Japan and Europe</i></p> <p><a href="https://www.waseda.jp/fcom/wbs/faculty-en/6666">https://www.waseda.jp/fcom/wbs/faculty-en/6666</a></p> <p>Professor Alex Coad is a Professor at Waseda Business School (Tokyo, Japan), and is interested in the areas of firm-level R&amp;D investment, firm performance, entrepreneurship, and innovation policy. Alex has published over 90 articles in international peer-reviewed journals. According to google-scholar, Alex has over 12'000 citations and an H-index of 49. Alex is an Editor at the journals 'Research Policy' (Financial Times Top 50 list of journals for Business Schools) and 'Small Business Economics'. Previously Alex obtained a PhD from Université Paris 1 Panthéon-Sorbonne and the Sant'Anna School, Pisa, Italy, and held academic positions at the Max Planck Institute (Jena, DE), Aalborg University (Denmark), SPRU (Univ. Sussex, UK), and CENTRUM Graduate Business School (Lima, Peru), and also being an Economic Analyst at the European Commission (IRI group, JRC-IPTS, Sevilla). In December 2016, Alex received the 2016 Nelson Prize at University of California Berkeley.</p> <p><b>To attend the session digitally, please register for the webinar through the link:</b></p> <p><a href="https://us06web.zoom.us/webinar/register/WN_WPiWP6owTTu9Z3cC81oQRA">https://us06web.zoom.us/webinar/register/WN_WPiWP6owTTu9Z3cC81oQRA</a></p> <p><b>Moderator: Prof. Mikiko Shimaoka (Waseda University)</b></p>
10:10-10:30		<b>Coffee break</b>
10:30-12:30	*only on-site	<p><b>Research presentations related to Entrepreneurial Processes and Entrepreneurship Education</b></p> <p>Researchers from MIRAI 2.0 universities will present projects or papers that relate to the following topics:</p> <ul style="list-style-type: none"> <li>▪ Entrepreneurship actors, activities, and processes in new ventures or in established firms</li> <li>▪ Entrepreneurship education</li> </ul> <p><b>Moderators:</b></p> <ul style="list-style-type: none"> <li>- Prof. Karin Hellerstedt (Jönköping University)</li> <li>- Prof. Mikiko Shimaoka (Waseda University)</li> <li>- Prof. Shu Takagi (The University of Tokyo)</li> <li>- Prof. Wiebke Reim (Luleå University of Technology)</li> </ul>

10:30-10:50		<b>Prof. Emilene Leite (Örebro University)</b> “Sense making and utilisation of university-industry interaction”
10:50:11:10		<b>Prof. Deborah Strumsky (Jönköping University)</b> “Entrepreneurial ecosystems and exogenous shocks”
11:10-11:30		<b>Dr. Arun Madanaguli (Luleå University of Technology)</b> “AI powered circular business model innovation”
11:30-11:50		<b>Prof. Jun Wu (Waseda University)</b> “Blockchain and AI empowered digital twin”
11:50-12:10		<b>Prof. Tomas Blomquist (Umeå University)</b> “Experiences from the first meetings between tech startups and corporates: How do you prepare yourself?”
12:10-12:30		<b>Prof. Kosuke Kaneko (Kyushu University)</b> “The startup ecosystem in Kyushu and Okinawa”
<b>12:30-13:30</b>		<b>Lunch Break</b>
<b>13:30-14:45</b>		<b>Drop-in session no.1: how to valorize your research project - 1:1 sessions</b> Curious about how to utilize the results from your research? Could your research be implemented outside of academia? Would you like to learn how to do it? After the meeting, you will have a clearer idea of what support is available to you through the Innovation Offices in Sweden and the TLOs in Japan, respectively. Hopefully, you then have gained a better understanding about where your research could create impact and how to take your ideas further. (Open to all researchers from MIRAI’s topics) <b>Mentors:</b> - <b>Dr. Malin Graffner Nordberg (Head of Uppsala University Innovation)</b> - <b>Ms. Emma Burman (Innovation Adviser and CEO of Linnaeus University Development)</b> - <b>Ms. Kaoru Shigeta (Todai TLO, Ltd) – online</b>
<b>14:45-15:00</b>	<b>06:45-07:00</b>	<b>Coffee Break</b>
<b>15:00-17:15</b>	<b>07:00-09:15</b>	<b>Startup companies (hybrid session)</b> This session consists of four presentations and a panel discussion. In the first part three presenters from our colleagues at MIRAI 2.0 member universities who have succeeded to build up a startup company will be giving presentations on their companies, followed by a presentation by a representative of Ignite Sweden, a non-profit initiative in Sweden that aims to foster innovation by connecting startups to large companies and public organizations. The session will be concluded by a panel discussion joined by the above presenters and other guest speakers. (Open to all researchers from MIRAI’s topics) This session will be delivered in a hybrid format. Researchers from both countries will be given the possibility to attend either physically or digitally. <b>To attend the session digitally, please register for the webinar through the link:</b> <a href="https://us06web.zoom.us/webinar/register/WN_x5WU7TYERraORmfAydijpA">https://us06web.zoom.us/webinar/register/WN_x5WU7TYERraORmfAydijpA</a>
		1. <u>Presentations by colleagues who succeeded to build up a startup company</u>
15:00-15:20	07:00-07:20	<b>Prof. Shin Yoshizawa, Professor at Tohoku University and CTO of SONIRE</b>

15:20-15:40	07:20-07:40	<b>Therapeutics Inc.</b> <a href="https://www.sonire-therapeutics.com/en/">https://www.sonire-therapeutics.com/en/</a> <b>Prof. Yasuyuki Taki, Professor at Tohoku University and CSO of CogSmart Co., Ltd.</b> - online
15:40-16:00	07:40-08:00	<a href="https://www.cogsmartglobal.com/?lang=en">https://www.cogsmartglobal.com/?lang=en</a> <b>Dr. Mamoun Taher, CEO and founder of Graphmatech AB</b> - online <a href="https://graphmatech.com/">https://graphmatech.com/</a>
		2. <u>Presentation by Ignite Sweden</u>
16:00-16:30	08:00-08:30	<b>Ms. Linn Sidahl, Project Manager Matchmaking, Ignite Sweden</b> - online <a href="https://www.ignitesweden.org/meet-linn-sidahl/">https://www.ignitesweden.org/meet-linn-sidahl/</a>
		3. <u>Panel discussions</u>
16:30-17:15	08:30-09:15	Discussions by the following panelists: - <b>Prof. Shin Yoshizawa</b> - <b>Prof. Yasuyuki Taki</b> - online - <b>Dr. Mamoun Taher</b> - online - <b>Ms. Linn Sidahl</b> - online - <b>Prof. Tomas Blomquist, Professor at Umeå University</b> <b>Moderator: Prof. Shu Takagi (The University of Tokyo)</b>

Thursday, 17 November		
JST	CET	
<b>11:00-12:00</b>		<b>Drop-in session no.2: how to valorize your research project - 1:1 sessions</b> Curious about how to utilize the results from your research? Could your research be implemented outside of academia? Would you like to learn how to do it? After the meeting, you will have a clearer idea of what support is available to you through the Innovation Offices in Sweden and the TLOs in Japan, respectively. Hopefully, you then have gained a better understanding about where your research could create impact and how to take your ideas further. (Open to all researchers from MIRAI's topics) <b>Mentors:</b> - <b>Dr. Malin Graffner Nordberg (Head of Uppsala University Innovation)</b> - <b>Ms. Emma Burman (Innovation Adviser and CEO of Linnaeus University Development)</b> - <b>Dr. Yoichi Aizawa (Manager, IP and Research Collaboration Support Section, Research Innovation Center, Waseda University)</b> - <b>Ms. Junko Komura (Todai TLO, Ltd) – online</b>
<b>12:00-13:00</b>		<b>Lunch Break</b>
<b>13:00-15:00</b>	<b>*only on-site</b>	<b>Research presentations related to Entrepreneurial Processes and Entrepreneurship Education</b> Researchers from MIRAI 2.0 universities will present projects or papers that relate to the

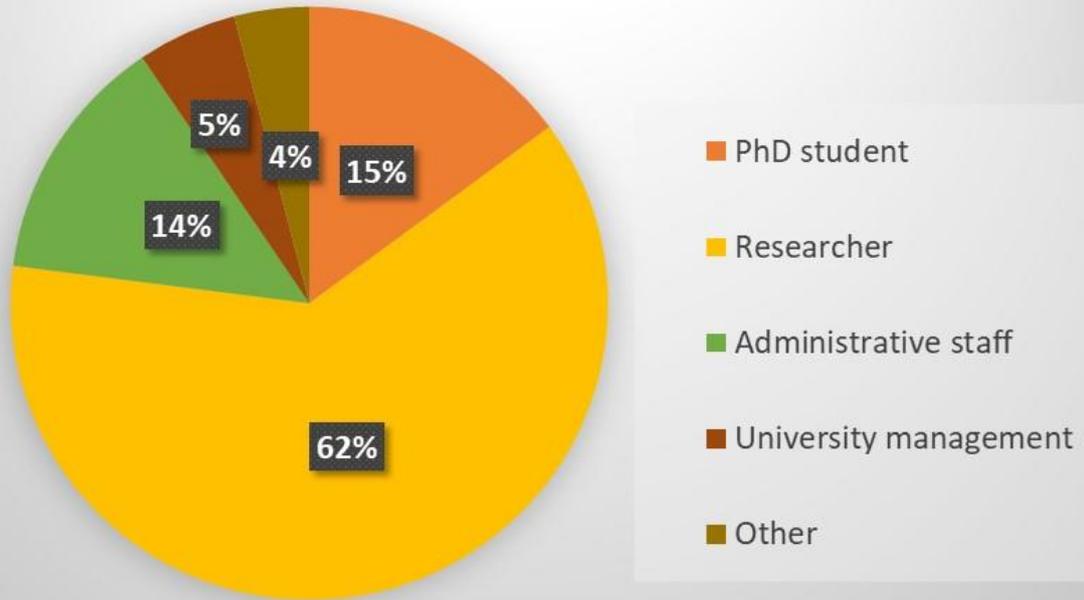
		<p>following topics:</p> <ul style="list-style-type: none"> <li>• Entrepreneurship actors, activities, and processes in new ventures or in established firms</li> <li>• Entrepreneurship education</li> </ul> <p><b>Moderators:</b></p> <ul style="list-style-type: none"> <li>- <b>Prof. Karin Hellerstedt (Jönköping University)</b></li> <li>- <b>Prof. Mikiko Shimaoka (Waseda University)</b></li> <li>- <b>Prof. Shu Takagi (The University of Tokyo)</b></li> <li>- <b>Prof. Wiebke Reim (Lulea University of Technology)</b></li> </ul>
13:00-13:20		<p><b>Prof. Magnus Hansson (Örebro University)</b>  “How teachers can become more innovative in entrepreneurship education”</p>
13:20-13:40		<p><b>Prof. Nergui Enkhzaya (Kyushu University)</b>  “Entrepreneurship education and students’ entrepreneurial intentions”</p>
13:40-14:00		<p><b>Prof. Thomas Cyron (Jönköping University)</b>  “Contextual differences in entrepreneurial (education) processes”</p>
14:00-14:20		<p><b>Prof. Agatha Kapturkiewicz (Sophia University)</b>  “Varieties of entrepreneurial ecosystems”</p>
14:20-14:40		<p><b>Prof. Wiebke Reim (Luleå University of Technology)</b>  “Circular business model development strategies: A business ecosystem analysis”</p>
14:40-15:00		<p><b>Prof. Mohammad Eslami (Jönköping University)</b>  “The impact of AI in organizational knowledge collaboration”</p>
<b>15:00-15:30</b>		<b>Coffee break</b>
<b>15:30-17:00</b>	<b>07:30-09:00</b>	<p><b>Seminar on Intellectual Property (hybrid session)</b></p> <p>This event aims to describe and compare the Japanese and Swedish systems concerning the intellectual property and to have an open discussion on the topic.</p> <p>Relevant speakers have been invited for this session both from the Swedish and Japanese sides. (Open to all researchers from MIRAI’s topics)</p> <p>This session will be delivered in a hybrid format. Researchers from both countries will be given the possibility to attend either physically or digitally.</p> <p><b>To attend the session digitally, please register for the webinar through the link:</b>  <a href="https://us06web.zoom.us/webinar/register/WN_biaA0lfxQfe4CXsdrJ836g">https://us06web.zoom.us/webinar/register/WN_biaA0lfxQfe4CXsdrJ836g</a></p>
15:30-15:50	07:30-07:50	<p><b>Dr. Takeshi Akatsu, Ph.D., and Partner of Open Frontier Intellectual Property Firm</b>  Lecture title: <i>To Create More Valuable IP from Academia</i></p>
15:50-16:10	07:50-08:10	<p><b>Ms. Olivia Tolan, IP advisor Uppsala University Innovation – online</b>  Lecture title: <i>Maximise research impact with IP</i></p>
16:10-16:30	08:10-08:30	<p><b>Dr. Yoichi Aizawa, Ph.D., and Manager, IP and Research Collaboration Support Section, Research Innovation Center, Waseda University</b>  Lecture title: <i>How Intellectual Properties are Managed and Transferred to Industries at Waseda University</i></p>
16:30-16:40	08:30-08:40	<p>Self-introduction and a short lecture by <b>Mr. Kenichi Inaho, Management Professor,</b></p>

16:40-16:50	08:40-08:50	<b>Principal Research Administrator, Tohoku University</b> Self-introduction and a short lecture on searching for technical information in patent databases by <b>Dr. Sara Petersson, Patent Information Specialist at Uppsala University</b> <b>Innovation – online</b>
16:50-17:00	08:50-09:00	Q&A sessions (for all the presenters)
<b>17:00</b>	<b>09:00</b>	<b>Closing of the Parallel Scientific Sessions</b>

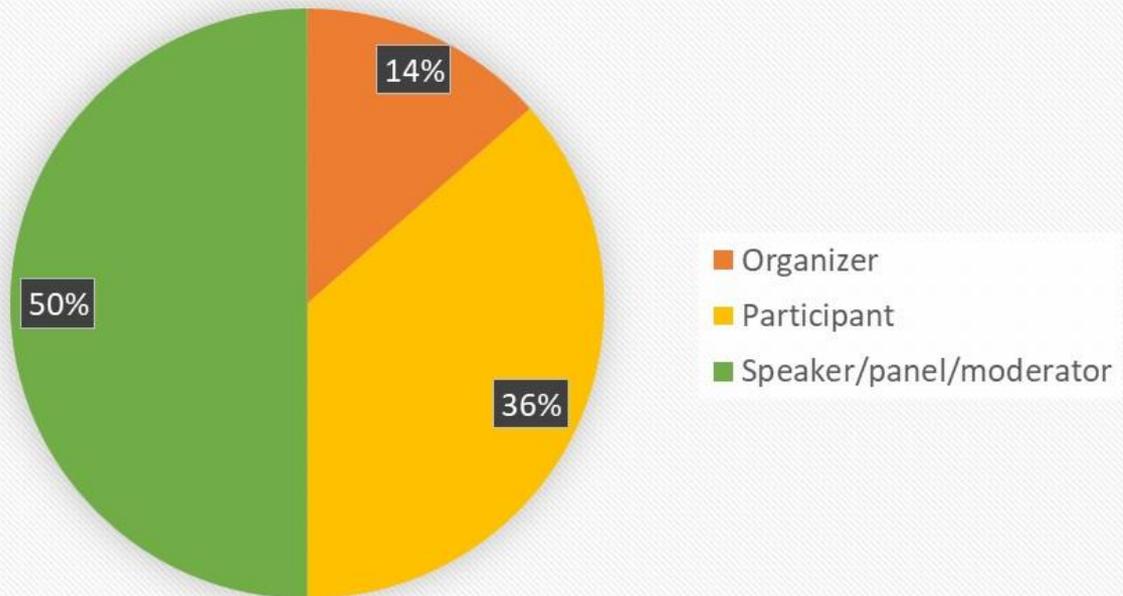
## Friday, 18 November

JST	*only on-site
<b>09:30-11:00</b>	<b>IEAG &amp; TEGs Collaborative Event</b> <b>Moderators:</b> - <b>Prof. Shu Takagi (The University of Tokyo)</b> - <b>Prof. Karin Hellerstedt (Jönköping University)</b>
1. <u>Presentations by TEG representatives</u> Theme: “What entrepreneurship and innovation means for each TEG and how it is relevant for their field”	
09:30-09:45	TEG- Ageing: <b>Prof. Anna Sandgren, Linnaeus University</b> <b>Prof. Yoshihisa Hirakawa, Nagoya University</b> “What is an innovative and entrepreneurial perspective on ageing?”
09:45-10:00	TEG-AI: <b>Prof. Danilo Vasconcellos Vargas, Kyushu University</b> “The AI Age”
10:00-10:15	TEG-Sustainability: <b>Prof. Jan Pettersson, Gothenburg University</b> “Towards a sustainable society: A Swedish-Japanese perspective and opportunities for MIRAI”
10:15-10:30	TEG-Materials Science: <b>Prof. Andrew Chapman, Kyushu University</b> “Achieving a sustainable transition: Energy system design, consumer behavior and innovation”
2. <u>Panel discussions</u>	
10:30-11:00	Discussions by the presenters: - <b>Prof. Anna Sandgren, Linnaeus University</b> - <b>Prof. Yoshihisa Hirakawa, Nagoya University</b> - <b>Prof. Danilo Vasconcellos Varga, Kyushu University</b> - <b>Prof. Jan Pettersson, Gothenburg University</b> - <b>Prof. Andrew Chapman, Kyushu University</b>

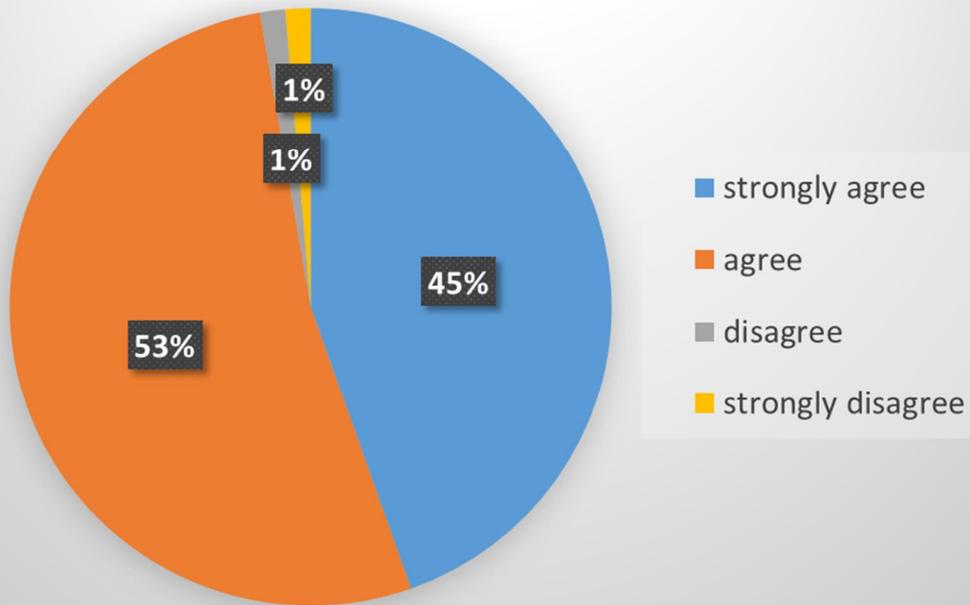
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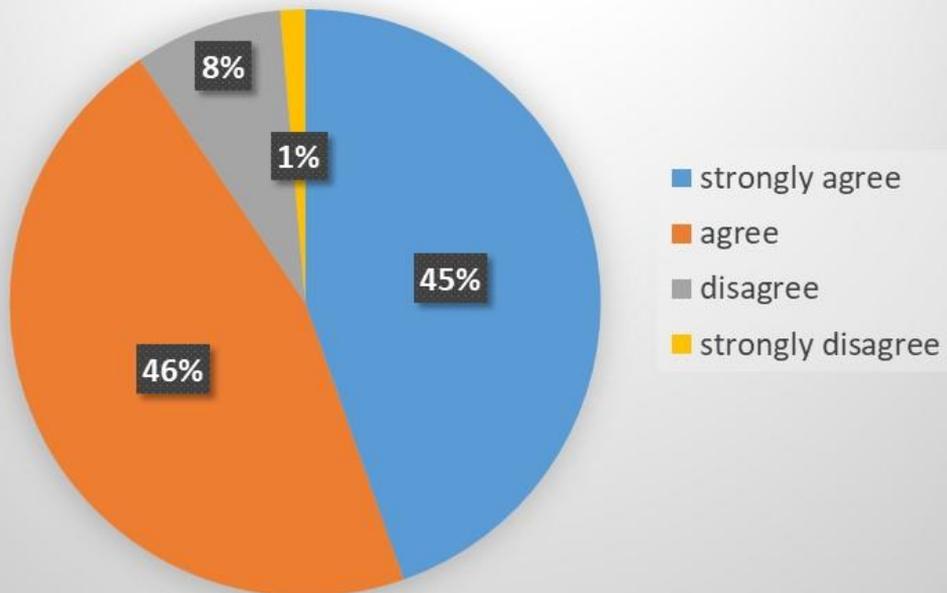
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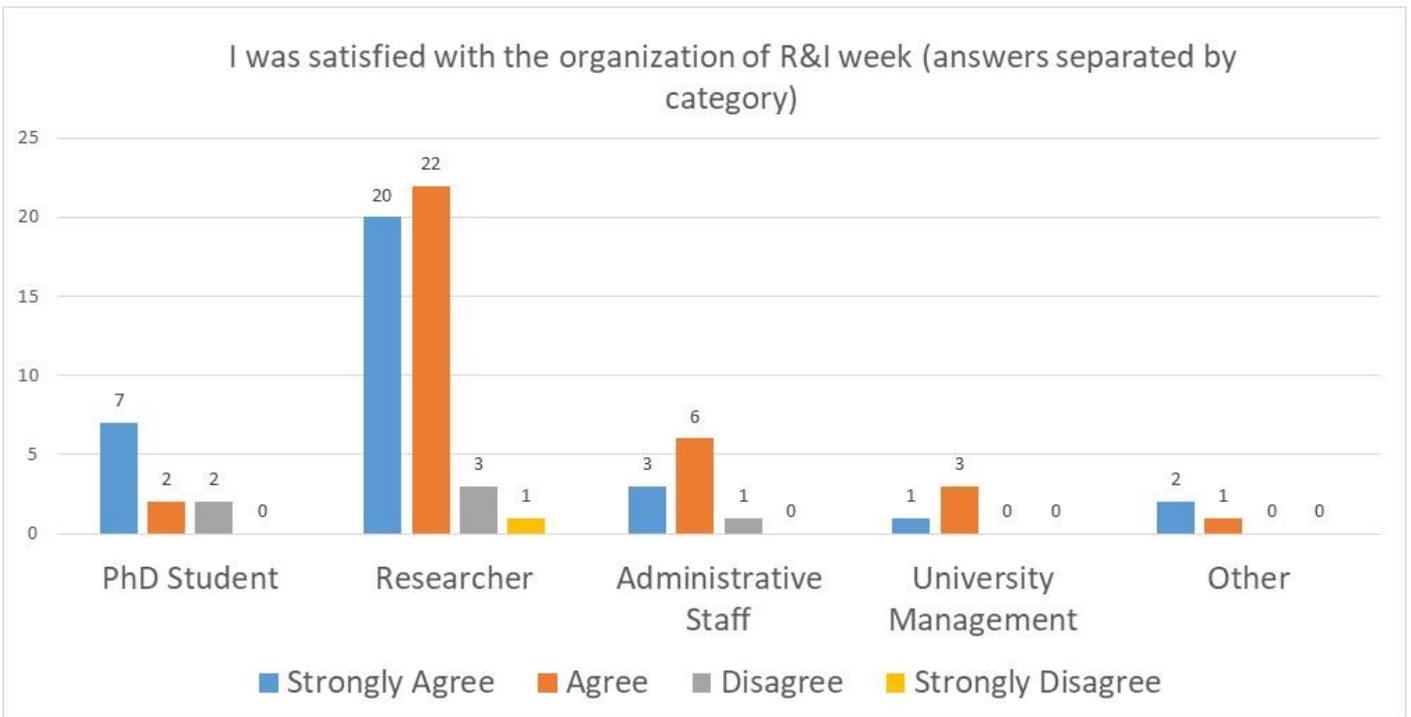
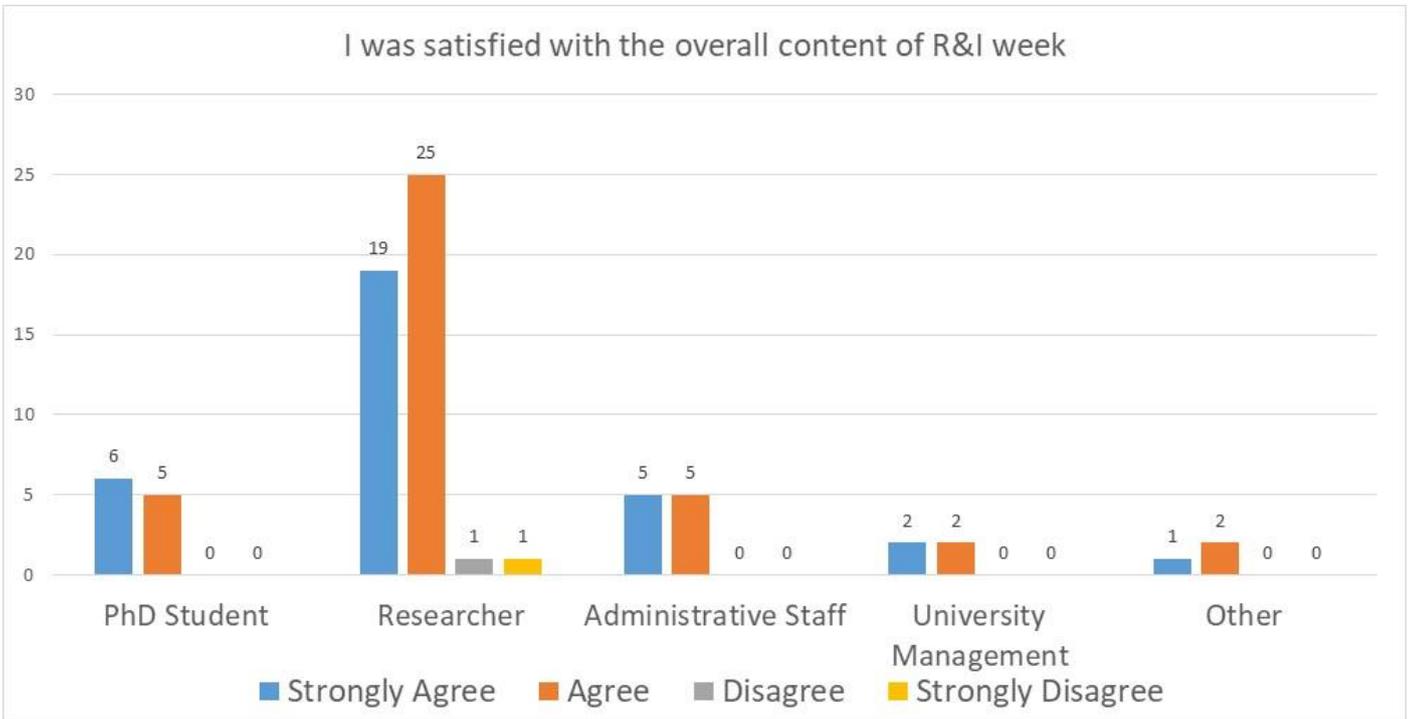


### I was satisfied with the overall content of R&I week



### I was satisfied with the overall organization of the R&I week





**Comments regarding the overall content and/or organisation of the R&I week**

- Detailed information about the event and logistics should have been published at least 2-3 weeks ahead of the event.
- The first day was too slow; the details in the first afternoon talks would have been better replaced with the talks from Friday morning; this would have allowed for more space for discussion on Tuesday and Friday. The sessions started too early on Friday, so that Swedish participants from the center could not eat breakfast according to plan. Finally, it turned out that the last shuttle bus left 7:20, which should have been communicated, because that would have allowed eating breakfast.
- I heard frequent comments that some of the keynote speakers were not very appropriate and lost the audience quickly (particularly in the ageing and materials science streams). A bit more thought for invitations might be better in the future. Speakers with some inter-disciplinary background would probably be better to capture the attention of audience members.
- I was so impressed that so many researchers from Sweden attended the meeting.
- I think the gender perspective must be more equal in the future planning and event.
- Poster session was not so visible in the program since it was parallel to GA. I suppose that the poster might have been of interest even for those who attended GA. Delegates must be more equal in numbers and positions from the both countries.
- Everything worked smoothly. But the travel to and from the event place was rather long, taking into account the very long and intense program. Because of jetlag and having to keep up the work at home in the evenings, the sleep deprivation that followed made me a zombie. I think a less ambitious program would still make the event fruitful, since a lot of interaction happened after the the program and in the breaks.
- There was a confusion with the registration of Japanese participants. In fact we did not received any email reminders that the registration should be completed for Japanese side.
- Too few Japanese participants. In my session it was one out of 10-15. He left after his presentation, second of the session.
- In my opinion social and informal events should be thought out the conference. More autonomy should be given to phd and postdoc to organize activities. Maybe the Japanese counterparts should be encouraged to include their ecr in the future. Also, it would be nice to circulate a list of participants. Also the venue (shinki) was too big and intimidating for the size and type of network. It is difficult to interact in such a vast concert all. Rooms should be smaller and people should collect around tables. Presentations should be short and effective (like pecha kucha). More time should be allocated to discussion. Also the programme was too complicated. It should be streamlined. A problem was communication prior the conference. It wasn't clear also who could participate to which side event. Japanese students told us that they were not included in most side events. The location of the campus was a bit off and 2 hours a day were wasted only in commuting (maybe this is a common condition in Japanese campuses).
- Overall, it was a really good event that shows different perspectives on the same topic. There was a tight schedule with long sessions and little opportunity for pauses and moving around. I liked the tours and excursions, as we got to see the university and some of the local attractions.
- The venue was very remote. It would have been more convenient to have closer accommodation. On the other hand the venue was very nice and the proximity to the university allowed to see the research units. The schedule was not kept, which made planning difficult.
- Less packed schedules are preferable. Sometimes, the days were so full that it was exhausting (especially for those who travelled long distances and struggled from jetlag). More social activities for everyone to mingle was required. The lack of Japanese partners was clear.

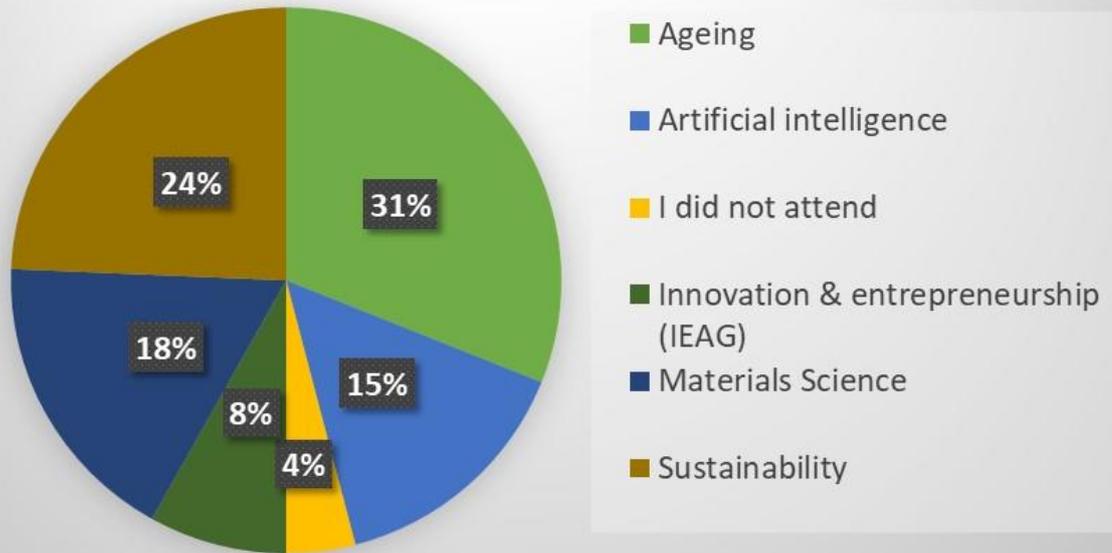
## Results of the Survey

- I met many engineers discussing different type of innovation/ technologies that can solve social problems, I met physicists/ chemistries, natural scientists discussing material substitution, etc. Great!!!! However, I missed the social scientists (very few) attending Mirai. Why? I missed the discussion about the societal aspects and problems we are all facing. The problems of climate change is rooted in society, their behavior and acceptance concerning the usage of new technologies, their participations in discussing the cities they want to live, their consumption patterns, etc. In times of social media and eternal happiness being associated to consumption. We need to have more debate to understand society. Black Friday is a good example, while the shops are packed with items waiting for the seekers of happiness to clear them out, the emptier is the earth -the sole supplier of resources needed to refill them. Thus, I missed more debates about sustainable consumption, energy poverty, inequality, gender issues, etc.
- The legal/moral session would have benefitted from more Japanese/Swedish overlap in the social sciences. While also rewarding, but the collaborative session was mostly Swedish/European researchers attending. I think that the social sciences aspects of technologies needs more comparative conversations, and more time to get going, more stimulation, as opposed to more technical conversations about ML-methods that tends to go more easily. But, all-in-all, a very admirable initiative!
- We got all information we needed but it came quite late and there were so many different e-mails
- I think it was very well organized and multiple people around to make it work smoothly.
- Conference site at Kyushu University is not very convenient. Most of participants need to spend 2 hours for travelling everyday. This doesn't match the goal of sustainability.
- Really well organised although I would have liked to see more scientific debate and panel discussion during the next R&I Ws.
- Maybe some more air in the schedule as well as a day that is a joint day for all TEGs.
- I would have appreciated some larger attention to social sciences and humanities.
- The even was fantastic. I enjoyed opportunities to meet many new researchers and talk about possible collaborative works for the future.
- The main issue was that there were too few Japanese researchers present. I would have loved to discuss research with the Japanese researchers, but ca 70-80% were fellow Swedes (and many of the other were management people and not researchers)
- The topics were well-encompassing and it can really help me find potential collaborators for my future work. I was also able to share what I can do which is rewarding for me as well.
- Some schedules came in a bit late.
- Although the organizers did an excellent job of structuring such a massive event, there is some room for improvements. The days were long and given the campus was very far away from the city (and not that close to the hotel either), the participants did not have many opportunities to experience the city and surroundings. This led to many people hopping over certain programme points and some interesting events having very few attendees. The worst was the last day, Friday, when the programme started at 8.00. By then everyone was very tired from the intensive programme and very few people showed up for the first discussion. This was a pity because it focused on research ethics which is a very relevant and often overlooked aspect of research. Putting it as the last point of the programme for the week, only confirmed this.
- I think the program was too full with activities. Also difficult to go between different topics i. e. not optimal synchronization between the TEGs/IEAG.
- Excellent organization as always in Japan. Especially appreciated the exhaustive information package received beforehand which made planning super easy.
- I enjoyed the workshop

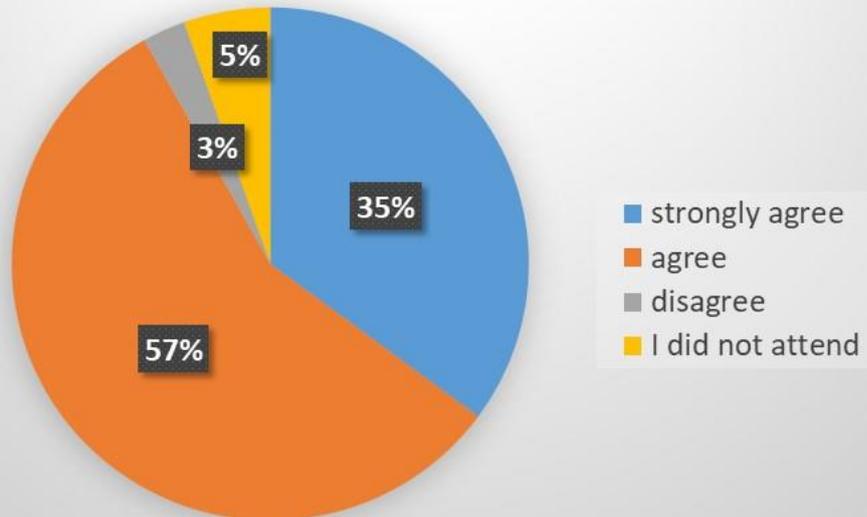
## Results of the Survey

- Good organization and nice people/staff on site, Nice activities proposed, we were well taken care of. Just a bit disappointed by the food, it was 'standard' conference food, I was hoping for Japanese food, but I understand that the organizers maybe wanted to play it 'safe', so the Swedish people get food they know, but I really wishes for Japanese food
- More time should have been sceduled for coffee breaks and possible networking, since networking takes free time for socializing, especially since there were few evening activities open for everyone. I would have appreciated a more inclusive arrangement, e g dinner. It would also have been beneficial to gather all scientific sessions for an evening activity,
- The calls from different TEGs was not coordinated and came very late. That made it difficult to announce and market to the researchers and they were rather confused about this.
- The staff was very supportive and I made new connections with Swedish researchers.
- Well working and the help with transport to and from the location was a very appreciated discovery. Communication and interaction at the site worked well.
- Well organized and great content
- It was difficult to get an overview of the program in the different parallel scientific sessions.
- Really good lunch!
- Thanks for organizing the shuttle bus/transportations from the city.
- A stronger focus on cross interdisciplinary research and how to establish collaborations would have increased the positive outcomes of the week.
- Fantastic event!!!! Thank you.

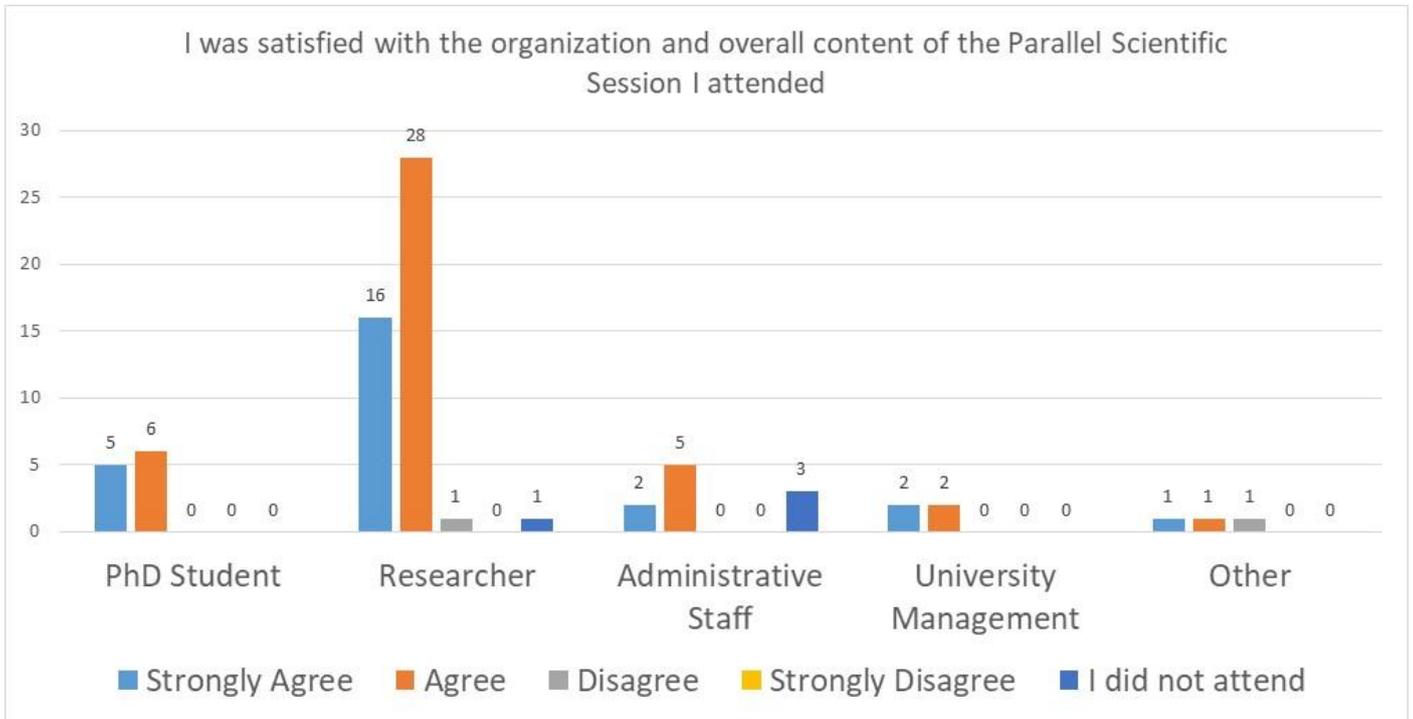
### I attended the following Parallel Scientific Sessions (if multiple, the session you mainly attended)



### I was satisfied with the organization and overall content of the Parallel Scientific Session I attend



Results of the Survey



**Do you have any comments, ideas, suggestions etc. you would like to share with us?**

- The process for seeking and meeting collaborators is a bit odd and can feel like speed dating. For example, last year I made a collaboration with some Swedish researchers, but they never told me that they were working on 3 other Mirai collaborations. This made communicating with them difficult both online and at the conference and I believe that multiple projects involving the same researchers should generally be avoided. Also, I had an agreement with a Swedish researcher to submit a new Mirai application for the current seed funding round (preparations actually began two months before the conference as she had contacted me about collaboration over six months ago), but she contacted me after the conference finished and told me she was going to work on another project. The behavior of some Swedish researchers in the MIRAI forum has been unprofessional and unethical in my experience. It just seems that some people are rushing to make any connections they can and then cutting and taking up those that give them the most benefit - rather than genuinely working to develop long-term partnerships. Can we do anything to reduce monopolization of project funding and partnerships or to encourage better communication and behavior?
- I feel that more Japanese student (especially from Kyushu University) should have attended the meeting..
- It was really difficult in finding potential collaborations partners.
- It was good to talk with people from funding agencies and embassies.
- I think it is better to show the title of each presentation in the schedule. Some of the presentations were too far from my research area to understand. Also, the poster session was not very active. It is better to strongly recommend poster presentation for all the researchers, and have dedicated time slot without any other events at the same time.
- I liked the lab tours very much! And the excursion to the brewery etc, gave opportunity to interact with people I would have not otherwise met. So I would suggest less general talks and panels and more opportunities to meet with other researchers. But I do want to stress that I am extremely happy to have been invited to join MIRAI2.0 in Fukuoka!
- I do not see where the funding for concrete scientific cooperation will come from!
- On a more academic side, the sustainability track felt a bit empty. I think there is a issue here with the different working groups. It was evident when somebody tried to arrange them in a matrix. Sustainability is a end or a value instead AI is a method or a field. The same goes for materials and innovation. In my opinion sustainability should be renamed smart cities or something more concrete. Innovation, like sustainability, should follow through all working groups and not just innovation. In a nutshell, I feel there is some confusion in it which doesn't help to gather work
- Workshops and presentations with colleagues from business, political science, sociology in combination to natural science.
- It was very early mornings. Leaving by bus from the station at 07:30 (06:45 on Friday) was too early.
- As mentioned above, I think the interdisciplinary dialogues and the social scientific perspectives may need more stimulation and patience. But also, much needed!
- In general, it was a well-organised event. A comment on the schedule is that I personally found that it was too packed and there was little time to have a discussion with other participants - especially considering that most of the Swedish participants were jetlagged and had to travel between hotel and campus everyday.
- I felt that I encountered and spoke to a lot more Swedish PhD students compared to Japanese PhD students. Perhaps I was unlucky but I think perhaps one event during an evening could focus on PhD students meeting and networking.
- Continuation of previous collaboration is very important. We spent a lot of time to build very strong collaboration, and are seeking for other funding support. However, seed funding is only one year. It will be very pity if we couldn't find other funding support.

## Results of the Survey

- Thank you for a well-organised and generous hosting of MIRAI2.0 R&I Week!
- I found there were not many opportunities to talk with people in other sides (in many occasions, I noticed that Swedish talk with Swedish, and Japanese talk with Japanese. My colleagues also mentioned about it during the event). If there are more occasions which participants can talk with other participants who work for different countries/universities and with different research expertise, it would be nice, especially for a new comer in the event like me.
- It is crucial for the next MIRAI that the most active Japanese researchers in relevant fields are there and present their ongoing, up-to-date research. The conference would not survive long if there are only top management guys from Japan. As a researcher myself, I would like to discuss directly with the postdocs, active researchers and phd students, and not through their vice chancellors, deans and "lab managers". I would also like to address the gender and age (in)balances. It might be much better though if the Japanese side would send junior researchers and not only "old" managers.
- The poster session should be better planned so several participants can actually discuss with the respective authors. The allocated place and the time schedule made difficult to achieve a good environment for both the presenters and the participants
- I enjoyed attending MIRAI2.0, many thanks to the organizers! I covered my experience in this article - <https://www.lifespan.io/news/lifespan-io-presents-at-mirai-2-0-ri-week-2022/>. Feel free to share if that's something you do :)
- For me it was good to strengthen the relations with existing partners from Japan. We meet online in another event and the MIRAI R&I Week was our first opportunity to meet in person and discussed future collaborations.
- The entire event was great and I would love to secure the connections that I have made in MIRAI 2.0 R&I week in Fukuoka by coming to the next MIRAI events.
- Thank you for what overall was a wonderful event!
- The MIRAI conference was fantastic! Japanese culture and curtesy, Extremely refreshing to meet and exchange with different scholars from diverse background research. I am so looking forward to continuing engagement and hoping greatly to establish partnerships further! Well done to our colleagues In Japan Please, you did a wonderful job. Wish there is a little more of Japanese inspired Lunch ...
- The food was not so great, it would have been nice to have Japanese food, like in the MIRAI meeting in Tokyo in 2018.
- It was a bit difficult to identify those participants which were interested in new collaboration.
- Coordinate the calls from the TEGs and make it much earlier for the Umeå event. Everything has to be ready before the summer as it was in the Sustainability TEG.
- I just want to say thank you!
- Thank you for organizing this fantastic R&I week!
- Set up a trajectory for more informal meetings. A formal beginning that leads to more relaxed conversations also requires a shift in settings and activities - for example, few Japanese scholar attended the last days of excursions. This was the point when a lot of the attendees began to open up and have more informal discussions, generating more ideas on collaborations.




  
**MIRAI2.0** Research & Innovation Week 2022
   
 15-18 November
   
 at Shiiki Hall of Ito Campus, Kyushu University

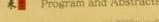
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- ▶ Special Sessions for Building Future Networks and Accelerating Researcher Exchanges
- ▶ Parallel Scientific Sessions

**AI**  
**Ageing**  
**Innovation & Entrepreneurship**  
**Materials Science**  
**Sustainability**




 Program and Abstracts
   


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**Parallel Scientific Session**  
**Ageing**




**Norimi Mizutani**  
 Vice President  
 Nagoya University

**Eva Wiberg**  
 President  
 University of Gothenburg



九州大学

**Ageing research at Örebro University**  
 Thomas Östberg  
 School of Law, Psychology and Social Work  
 Örebro University, Sweden

**Ageing in a global society**  
 According to WHO people worldwide are living longer. The growing proportion of older persons will create pressures on traditional systems of support from families, public services, health and medical care.

**Successful ageing**  
 at the research school on Successful Ageing, we develop theories on ageing and study opportunities for the older population, and explain them from a contemporary perspective. In the graduate school research is being carried out on ageing from different scientific perspectives and all faculties are involved in the research school.

The graduate school is international with doctoral students from different countries. The PhD students spend four years on their research and doctoral courses.

**Newbreed doctor**  
 Newbreed is a division of Successful Ageing, newbreed focuses on research and innovation in response to the needs of today's society.

The programme is Commissioned by the Swedish Research Council.

- Ageing and 2030
- Ageing in a global society
- Ageing at the forefront
- The biology of ageing

Please visit our website for more information on our strategic initiatives.

**Plan for the future**  
 Researchers from Örebro University will age together in the programme in the following areas:
 

- Welfare technology
- Care of elderly
- Involuntary loneliness

 The overall aim is to improve the lives of elderly in the well-being programme. We have a strong connection in many areas.

If you are interested in research, please contact us.



Foto: Örebro

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President  
University of Gothenburg



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# MIRAI2.0

at Ito Campus, Kyushu University

Research &  
Innovation Week 2022  
**15-18 November**

*Sharing ONE future:  
Integrative Knowledge and Sustainable  
Transformation towards a better world*

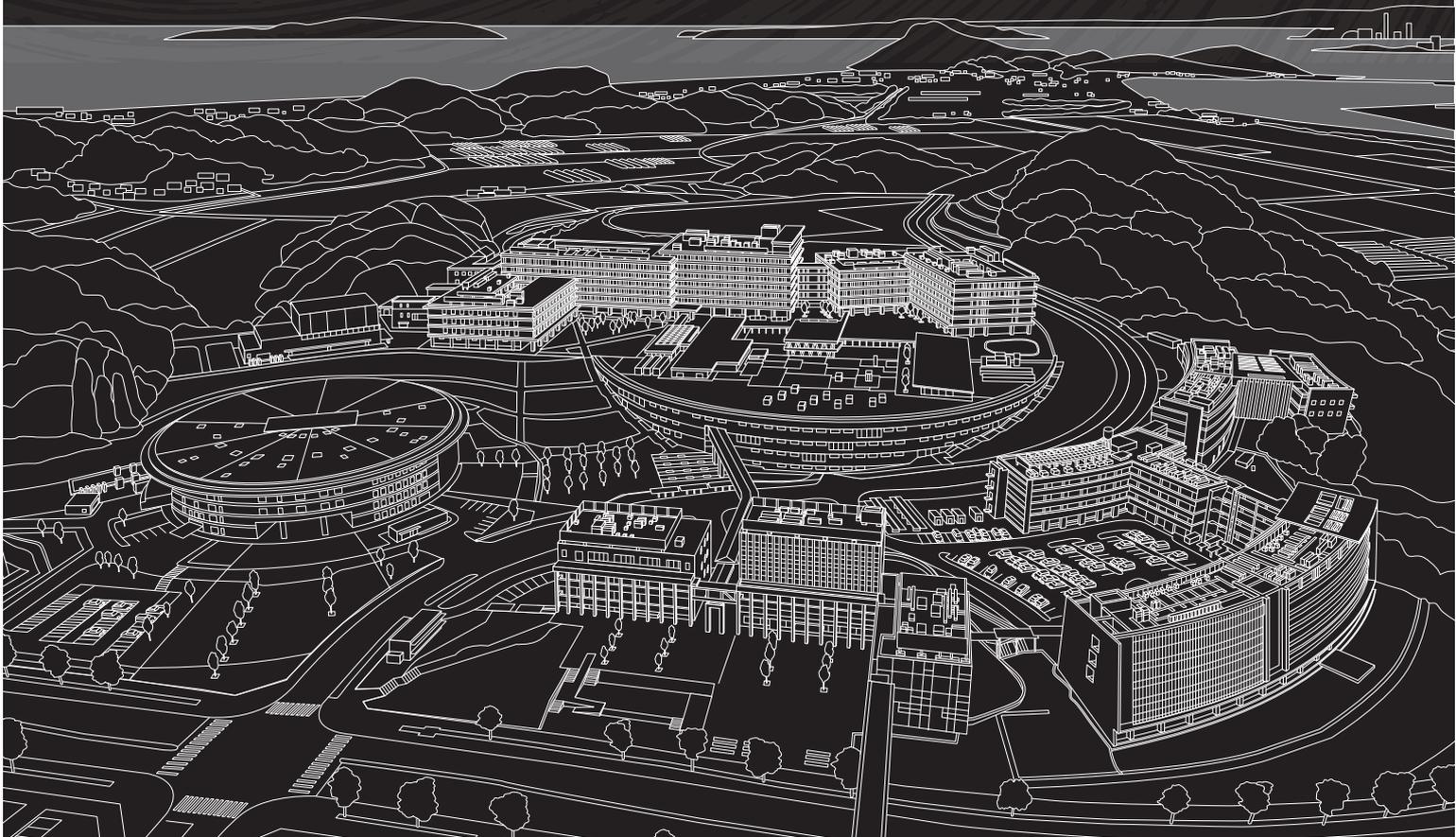
- ▶ Parallel Scientific Sessions
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AI  
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Innovation & Entrepreneurship  
Materials Science  
Sustainability

**REGISTER BEFORE OCTOBER 2!** Get more details from the website

Sign up for the conference [www.mirai.nu/riweek2022](http://www.mirai.nu/riweek2022)

Hosted by Kyushu University



This in-person event brings together researchers, students, and university management from all 20 Swedish and Japanese MIRAI2.0 member universities, as well as research funding agencies and policy makers. It serves as a unique opportunity to strengthen collaboration between Sweden and Japan in research, innovation and education. Connect with researchers in your field and join scientific sessions on Aging, Materials Science, Sustainability, AI, Innovation and Entrepreneurship.

### Join the MIRAI 2.0 Research and Innovation Week to:

- ▶ Expand your network
- ▶ Present your research
- ▶ Participate in joint activities/workshops
- ▶ Connect with the non-academic sector
- ▶ Access funding opportunities



In 2022, Kyushu University will mark its 111th anniversary.

On this occasion, Kyushu University will host a number of international collaborative events centered on young researchers in order to share the wide range of integrative knowledge and development opportunities that it currently possesses as part of a "VISION EXPO".

We look forward to the active participation and interactions of young researchers at the MIRAI 2.0 Research and Innovation Week 2022.

# MIRAI2.0

Research &  
Innovation Week 2022

at Ito Campus, Kyushu University

## 15-18 November