

UEC Outline and UEC's Industry-Academia Collaboration

-UEC Center for Industrial and Governmental Relations-

Kazuaki Oya, Ph.D., Executive Director

The member of the Board of Directors
(International and Public Relations Strategies)

The University of Electro-Communications (UEC)
Tokyo Japan

November 28th, 2024

1918 Established as “The Technical Institute for Wireless- Communications”

1949 National University “The **U**niversity of **E**lectro-**C**ommunications”
(as of May 1, 2024)

Number of Faculty:297

Number of Specially-appointed Faculties:49

Number of Administrative staff : 138

Number of Students : 4,873

(Undergraduate:3,388, Graduate : 1,485)

**One Undergraduate and One Graduate
school on Campus located in Chofu city,
Tokyo**



Strengths in research:

**IoT, communication, networking, big data, AI, device, material, nano
technologies, laser & photonics and quantum science, etc.**

**In 2013, selected for “The program for promoting the enhancement of research
universities ”**

“Small but Shining University”

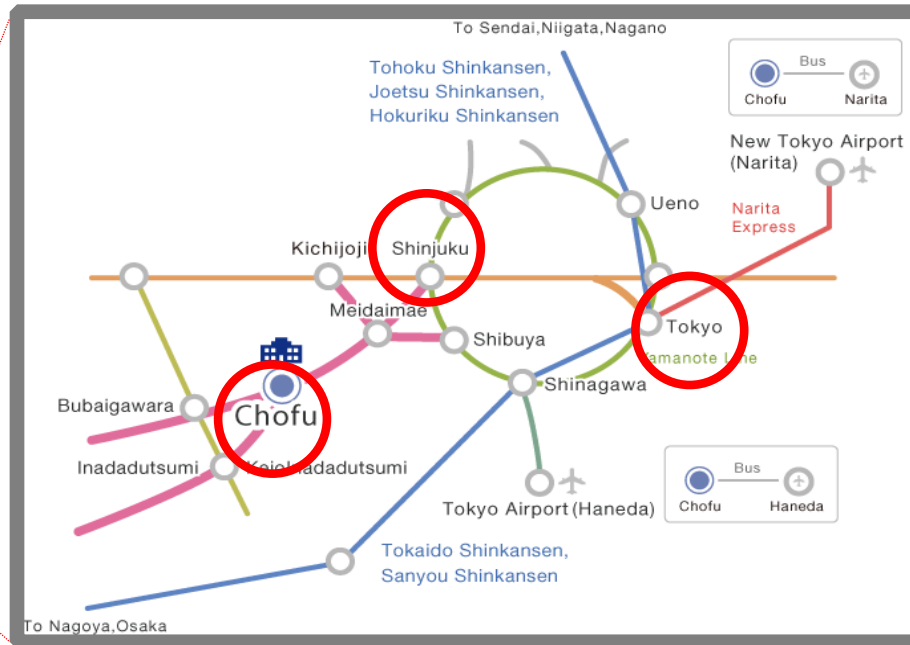
2



A convenient location

- **15 minutes to Shinjuku**, a major business center
- **1 hour from Tokyo Haneda Airport** by Airport Shuttle.
With beautiful suburban and historical surroundings

Access



High level of research and education in Japan

Top level in Japan in terms of research and education

Ranking of 800 Japanese universities (national, public and private universities)

Level of Research

- Selected for the "Research Universities" by the Ministry of Education, Culture, Sports, Science and Technology (2013-2022) **Top 19**
- Acceptance Rate Ranking of the biggest fund (KAKENHI) in Japan
 - Information science, information engineering and related fields: **4th**
 - Applied informatics and related fields: **7th**
 - Mechanics, robotics and related fields: **8th**

Level of Education

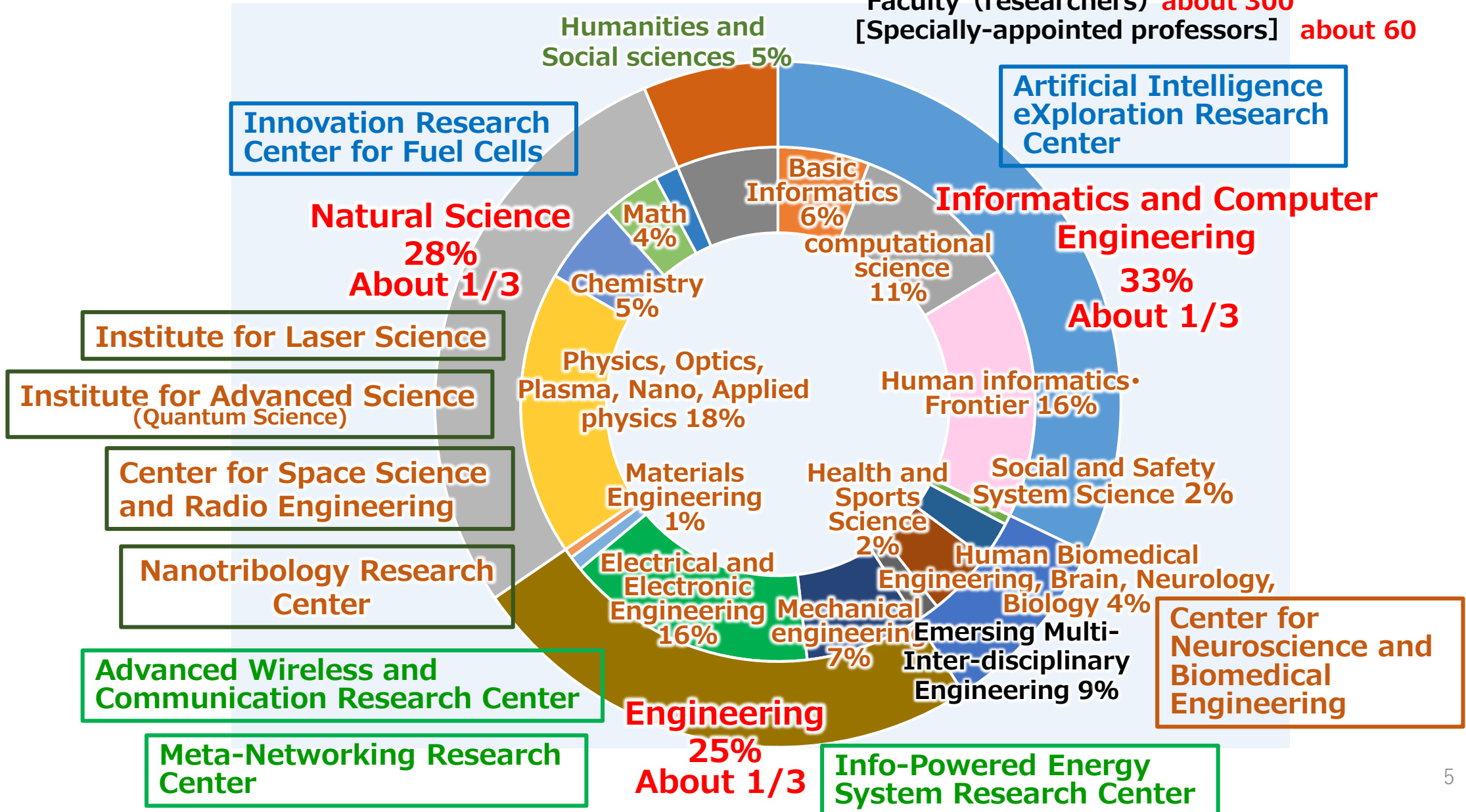
- **Employment Rate Ranking of Japanese top 400 companies**
 - **Strong Linkage with large industry**
 - Total 8th**
 - Communication: 1st**
 - Electrical Equipment and Electronics: 3rd**
- One of four national universities selected for the highest level of "Data Science and AI Education Programs"

Researchers' Research Field



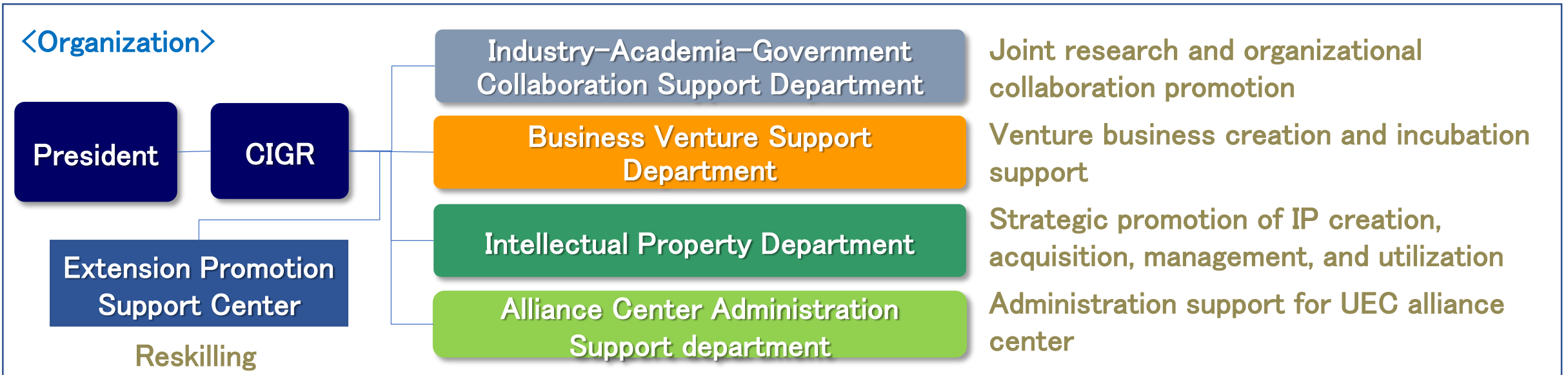
The University of
Electro-Communications

Faculty (researchers) **about 300**
[Specially-appointed professors] **about 60**





Outline of Center for Industrial and Governmental Relation (CIGR)



■ Towards borderless knowledge

- Academic consultation
- Joint research
- Contract research
- Technology transfer
- IP license

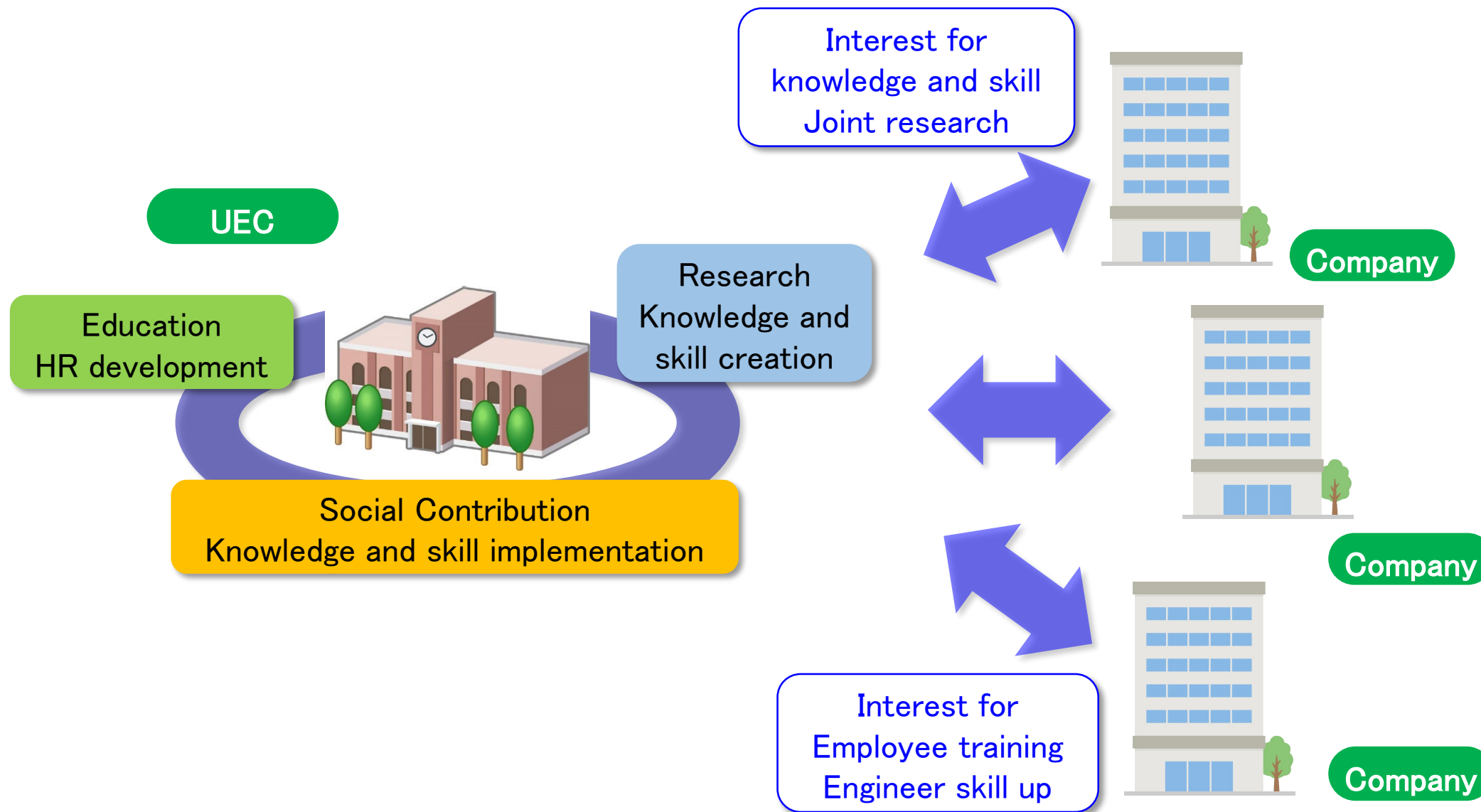
■ Towards building a strategic partnership

- Comprehensive I-A collaboration (organizational collaboration type)
- Joint research course
- Start-up venture support
- Commercialization support
- Project planning

■ A place for collaboration and co-creation, reskilling

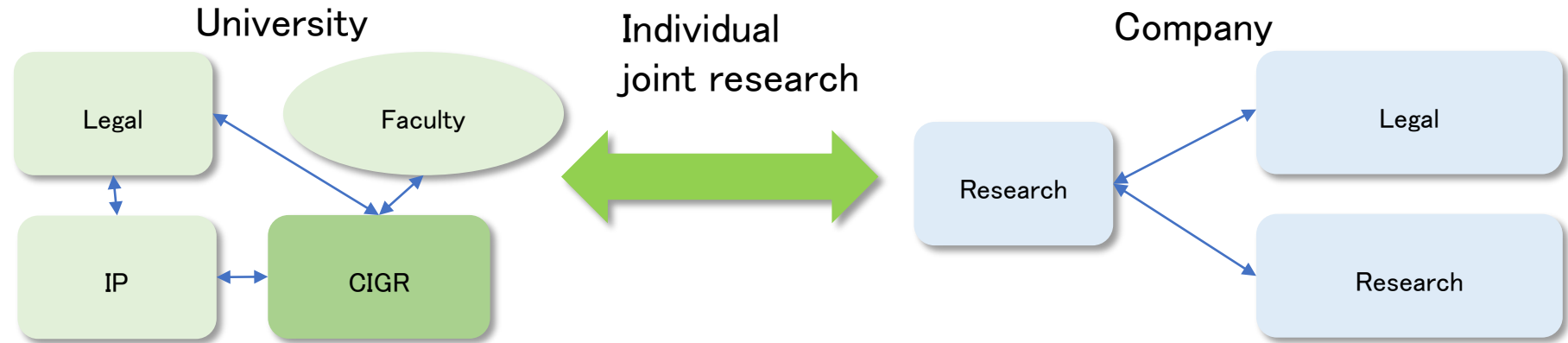
- Reskilling
- Doctor course application
- Industry-academia collaboration event
- Joint research facility
- Researcher introduction booklet publishment(OPARL-RING)

Academia Role and Industry-Academia Collaboration

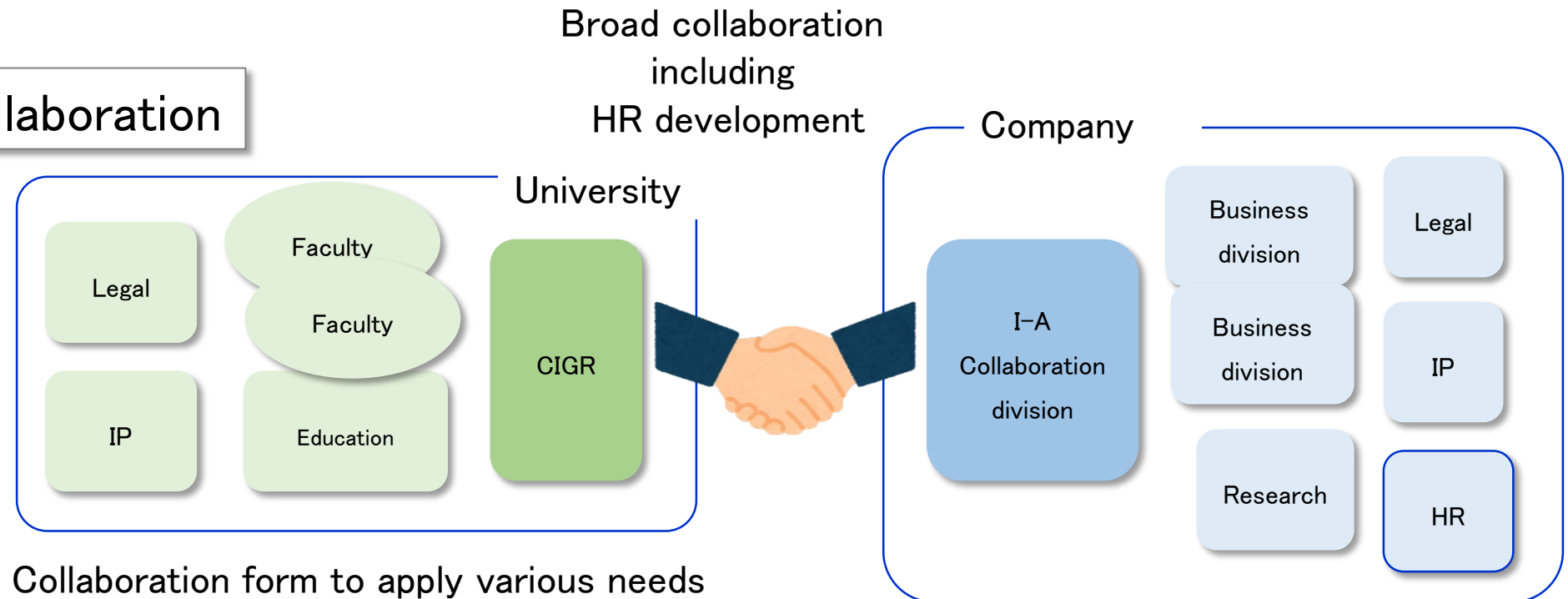


Industry and Academia Collaboration (I-A-C) Form

Typical I-A-C



Organizational Collaboration



Collaboration form to apply various needs
Comprehensive collaboration agreement conclusion

Academic Consultation

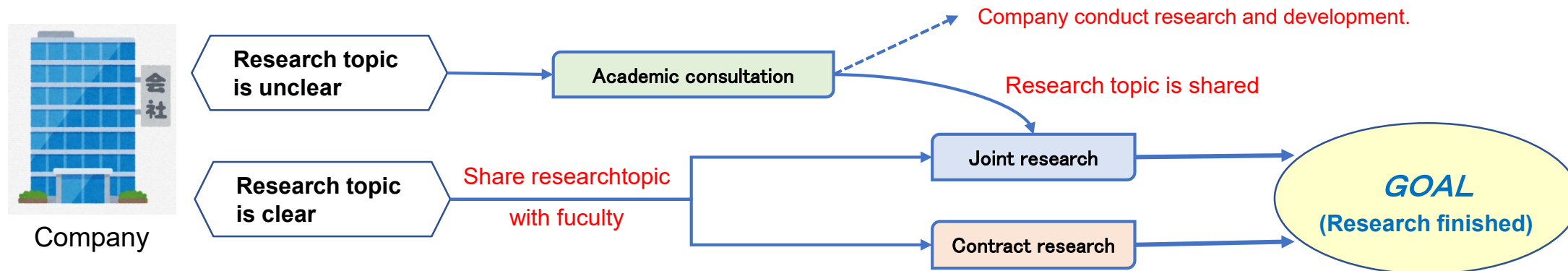
Provide advice and guidance based on publicly known technical knowledge.

Joint Research

Conducting joint research on common issues between companies and faculties. (IP is shared, and ownership is determined based on the degree of contribution)

Contract Research

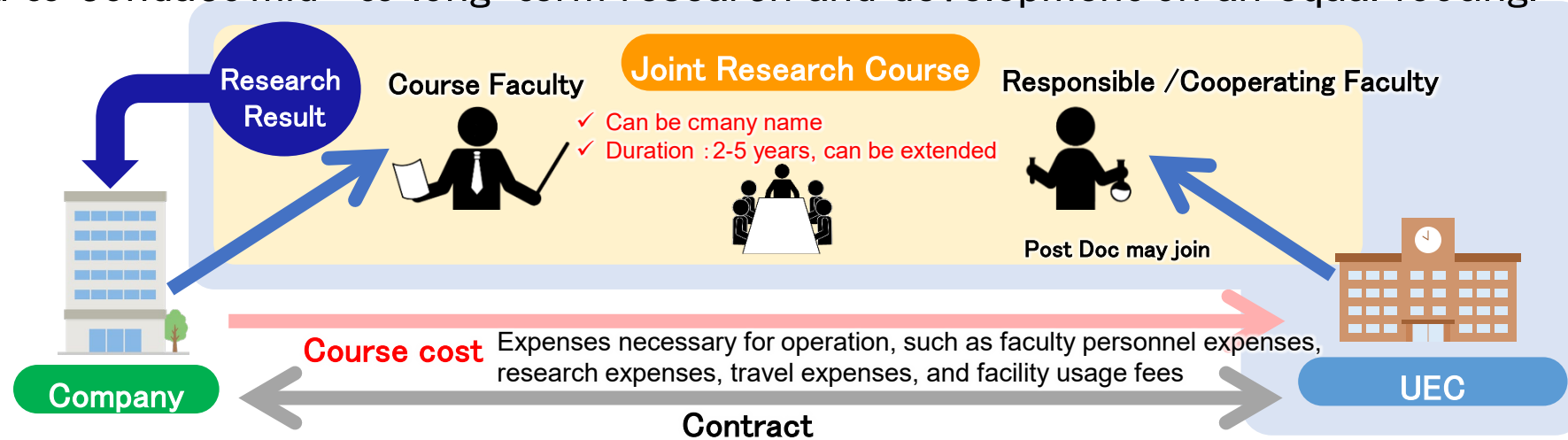
Conducting research as faculty's main job, receiving commission from companies etc. (IP belongs to University.)



Waiting for your consultation request

For more detail <https://www.uec.ac.jp/research/alliance-system/research/>

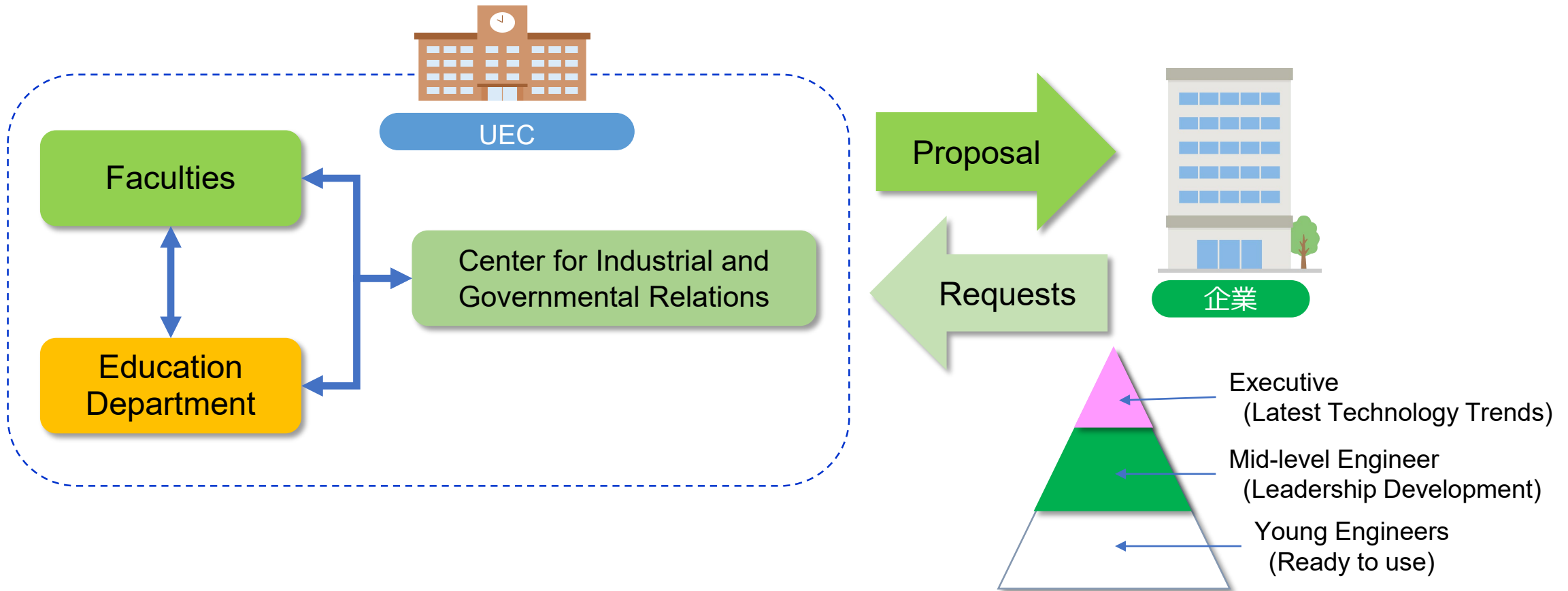
The purpose of the “Joint Research Course” is to build strategic partnerships between industry and UEC and to conduct mid- to long-term research and development on an equal footing.

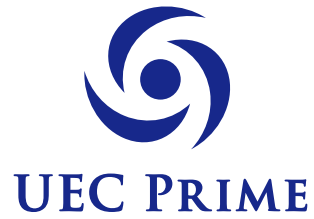


Benefits of Joint Research Course Establishment

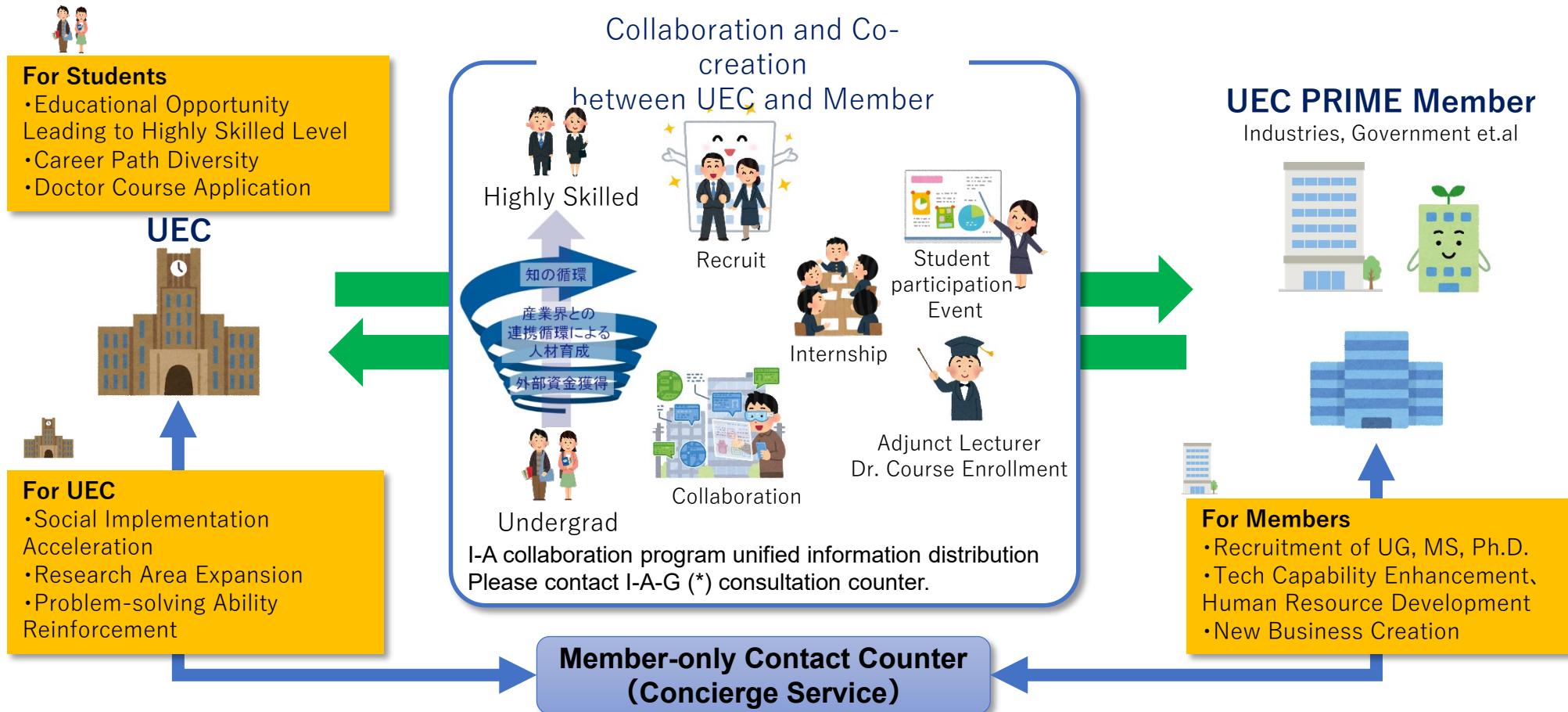
		Joint Research	Endowed Chairs	Joint Research Course
Course Establishment	➢ Can use university resource	×	○	○
Expense	➢ Can share IP	Joint Research Fee	Donations	Joint Research Fee
Conclusion of the Contract	➢ Can legally bind rights and obligations	○	×	○
Full-time Faculty	➢ A stable research enables steady research to be carried out	×	○	○
Attribution of Results	➢ Returning research results to companies	○	×	○

- Proposal of employee training programs in collaboration with the education department and faculties in the relevant technical fields
- Proven track record in training data scientists and practical AI education





UEC PRIME is a membership organization which provides industry-academia (I-A) collaboration programs that contribute to social implementation of UEC research results and highly skilled human resource development.



Contact : uecprime@sangaku.uec.ac.jp

(*) I-A-G : Industry-Academia-Government



Trip Lix

First issued in June 2022

The PDF version can be downloaded from the link below.

https://www.uec.ac.jp/research/alliance-activity/pdf/industrial_alliance_magazine.pdf

https://www.uec.ac.jp/research/alliance-activity/pdf/industrial_alliance_magazine_vol2.pdf

First issue table of contents

President interview

Topics

Hot researcher

Research seeds information

I-A-G collaboration (Mechanism and utilization of joint research)

Fostering and utilizing startup companies

Utilization of Intellectual Property

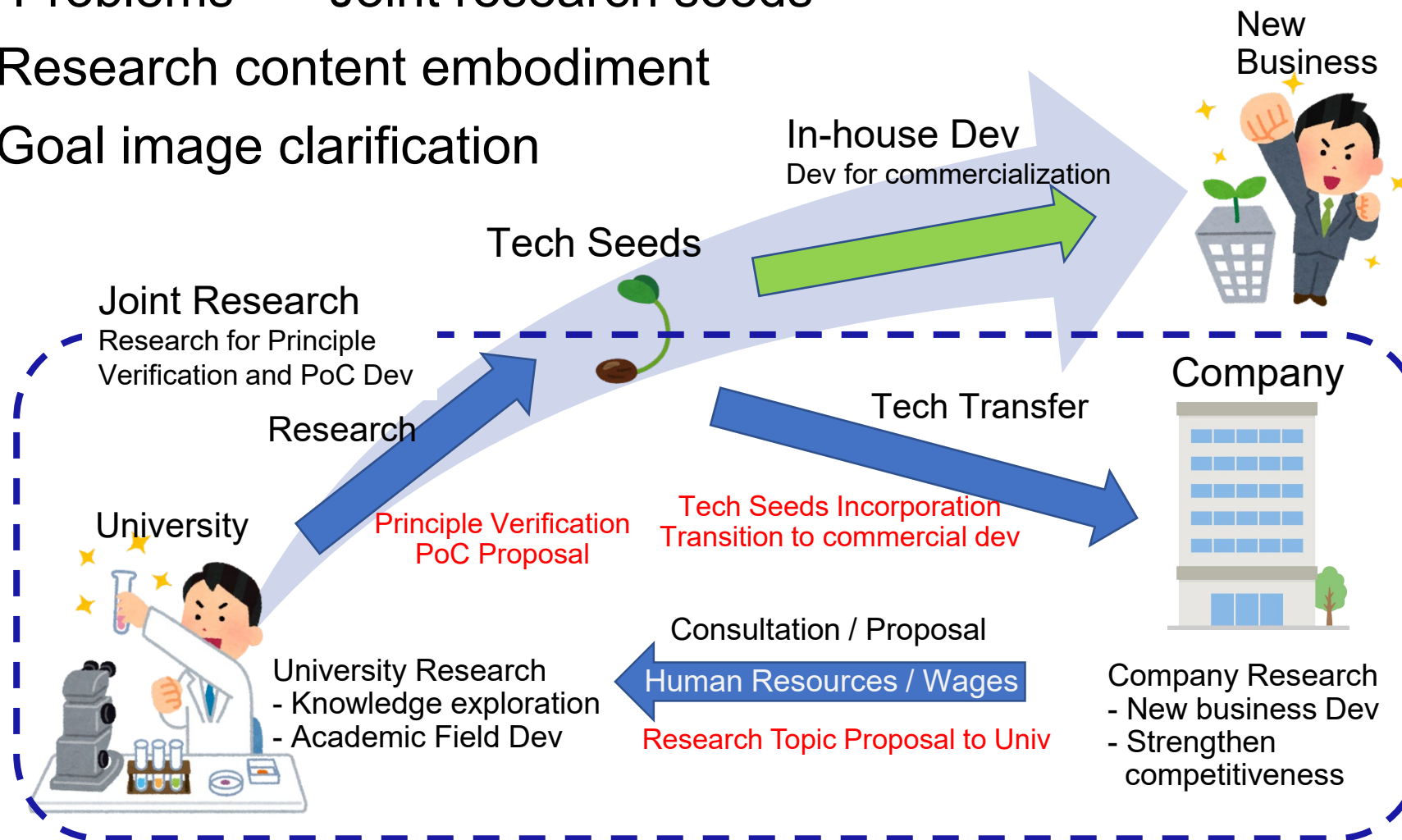
About recurrent education

Utilizing opportunities for collaboration and co-creation

“Problems” = “Joint research seeds”

Research content embodiment

Goal image clarification



- Researcher Information List
 - <https://researchers.uec.ac.jp/search/>
- Laboratory Search
 - Short message from all research laboratories are listed
<https://www.uec.ac.jp/arc/laboguide.html>
- Laboratory Guidebook
 - PDF version of Laboratory Search Contents
https://www.uec.ac.jp/education/undergraduate/admission/lecture/pdf/lab-guide_2023.pdf
- OPAL-RING Booklet article specializing in industry-academia collaboration
 - Detailed explanations including technology seeds and applications with keyword search capability
<https://www.uec.ac.jp/research/members/opal-ring.html>

Thank you for attention