



EFFECTS OF INDUSTRY-ACADEMIA COLLABORATIVE EDUCATION IN RE-DESIGN APARTMENT PROJECT

Kanazawa Institute of technology
Tomohiro Miysahita



Background

There are about 4500 apartments standing around KIT with mostly identical room layouts, and recent years have seen increased vacancy among the older buildings.



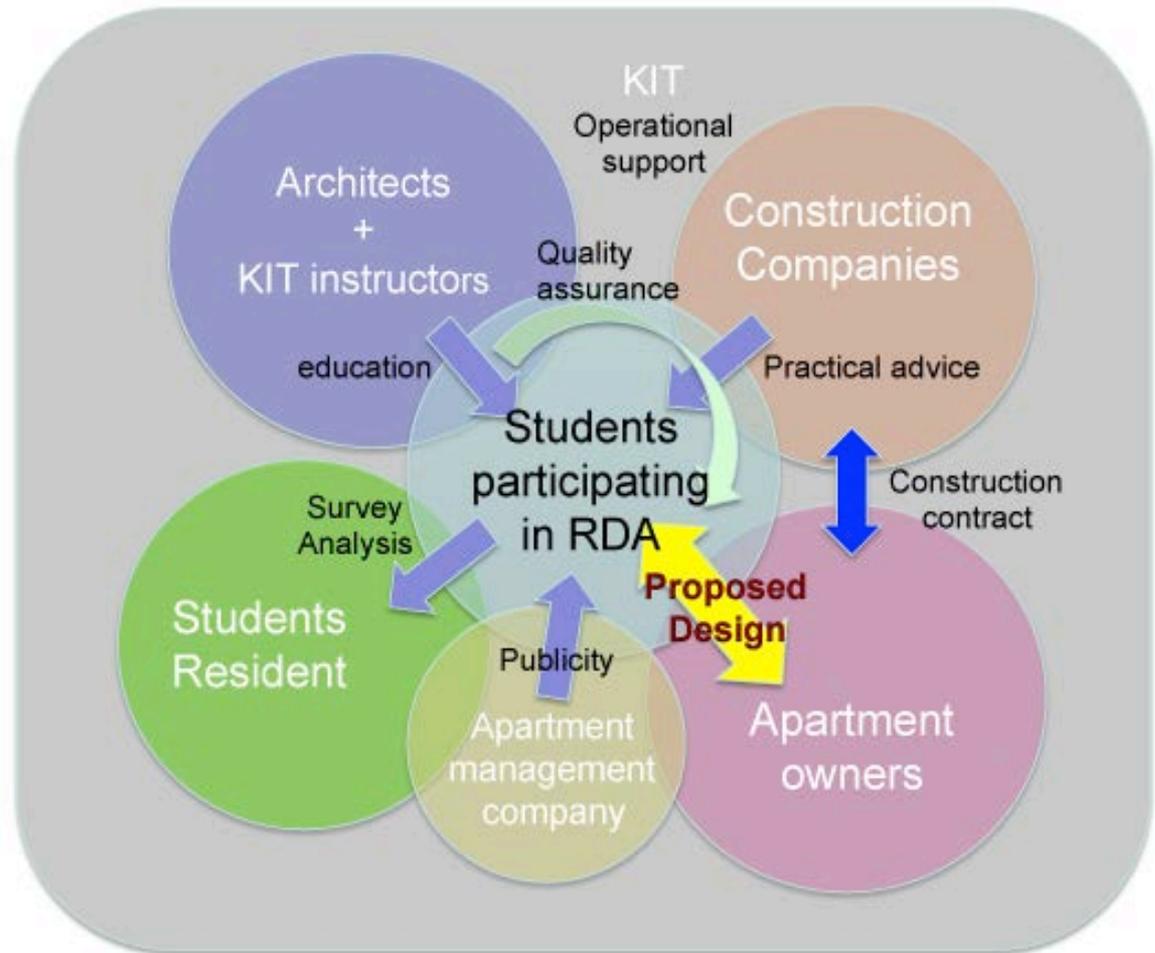
According to the investigation results, more than 2000 apartments were built between 1985 and 1995.

It is necessary to carry out a large-scale renovation of most of these apartments that were built 20 years ago.

Students design their own living environment by renovating the aging student apartment rooms to add new values to old buildings.

RDA project structure

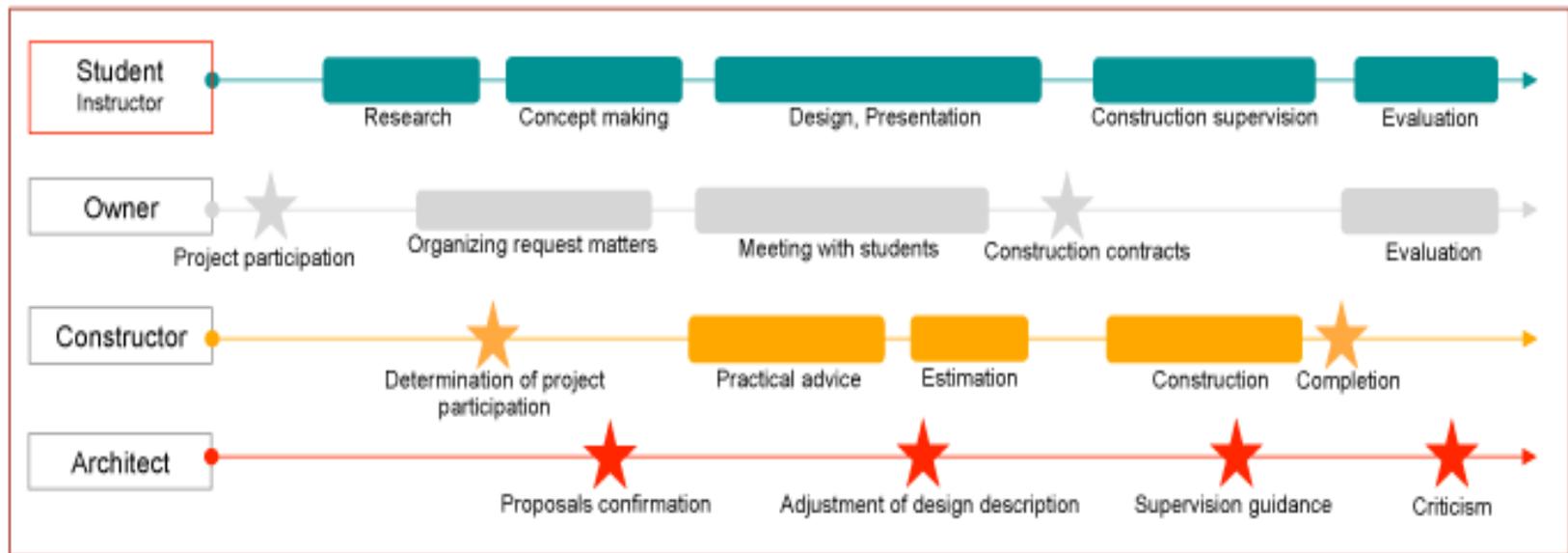
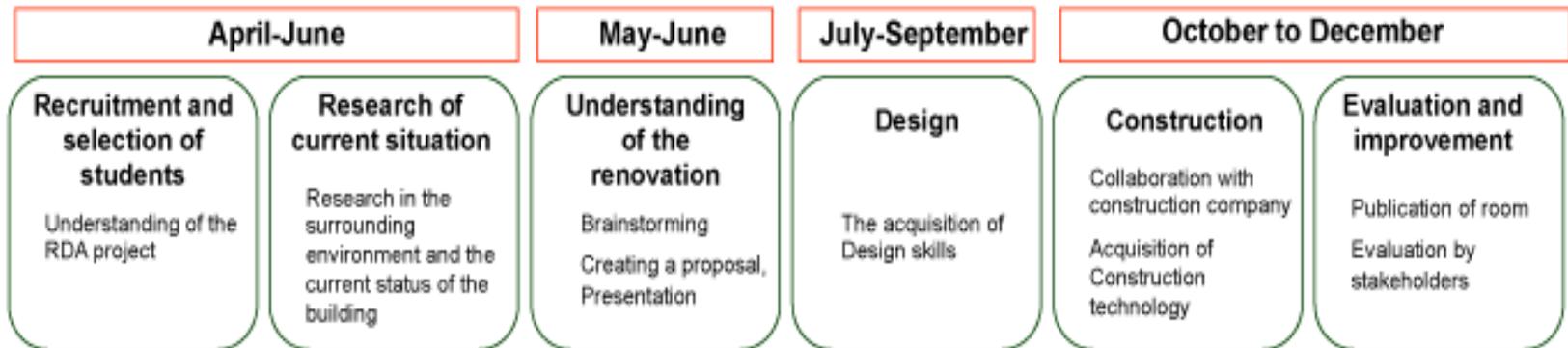
It is an academic-industrial collaboration practice, in which students collaborate with the apartment owners, architects and construction companies for the renovation.



Number of participants

	Project Renovation	Project New construction	Number of participants Postgraduate	Number of participants Undergraduate
2010	2rooms		7	14
2011	3rooms	20rooms	3	8
2012	6rooms	32rooms	7	15
2013	10rooms	12rooms	6	22

Flow of RDA project



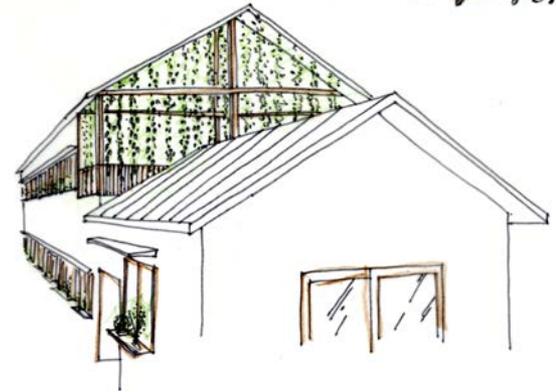
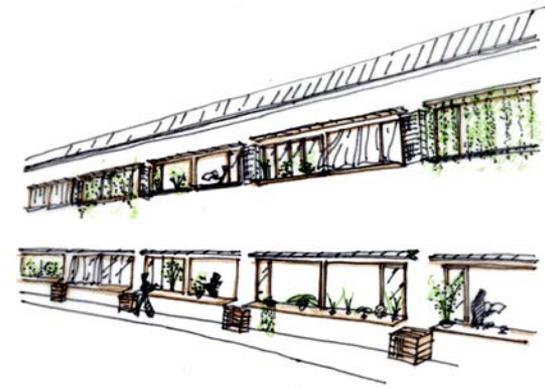
Research of building and surrounding environment

Propose an idea to the apartment owners

- Students propose directly to the apartment owners an idea.
- Grasp the tenants' needs correctly and to find new ideas.
- Think problems found from the point of view of the students, who actually live there.



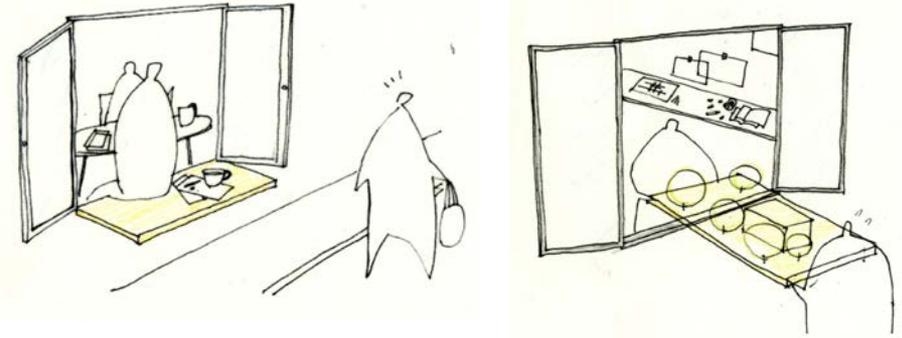
A Unique Proposal Backed by Analysis



Eagle House (2010) has large dirt floors and double doors and windows through which to display plants.



A Unique Proposal Backed by Analysis



Sunflower Apartments (2010) to maximize workspace by designing plumbing as compact as possible and installing magnetic paint-covered walls for freely hanging pictures and drawing were approved.



Think while touching the actual construction

- Total thinking of the building
- On-site Communication with workers
- Sharing and Management of Information
- Ability to Manage Schedule
- Attitude to try to learn





Lifestyle with plant



Eagle House
(2010)





The wall by the magnet paint

Kitchen can be used as a desk



Sunflower Apartments (2010)

Little Pit (2013)



Storage using the wall



Apartments with a community space

Ciel blue (2012)



Various feedback from the community

Resident recruitment briefing



Review meetings by architect



Briefings for apartment owners

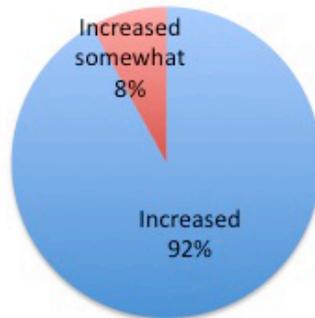


Consider Possibility of Completed Apartments Being Used Meaningfully

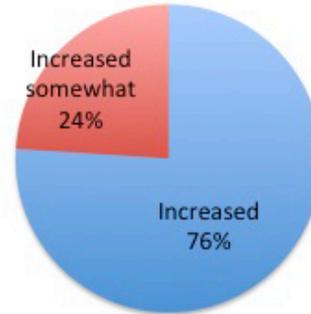


SURVEY RESULTS

Q: Did you develop your consciousness about architecture through the practice project?



Q: Were you able to become conscious of the society and broaden your perspective through the project?



Q: Were you able to deepen your understanding of the social significance and responsibility of the job architecture through the project?

