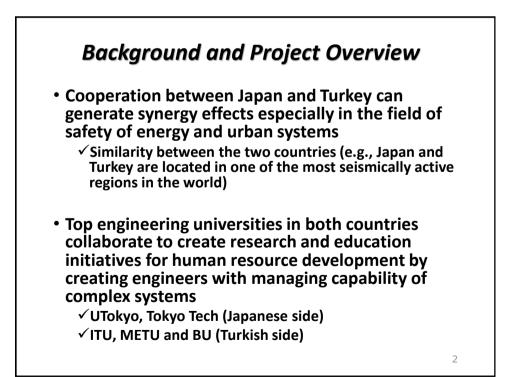
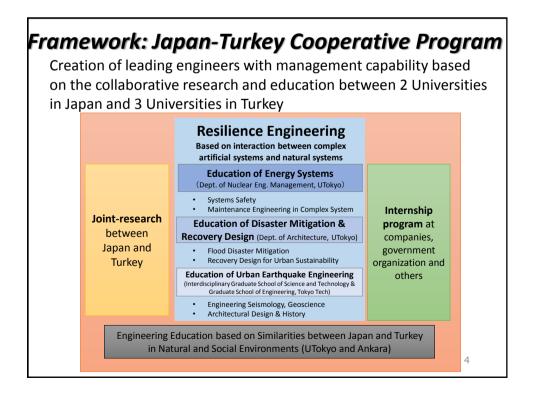
Japan-Turkey Cooperative Program on Resilience Engineering for Energy and Urban Systems

Dr. Naoto Sekimura Deputy Director General Division of International Affairs, The University of Tokyo

Professor, Department of Nuclear Engineering and Management School of Engineering, The University of Tokyo







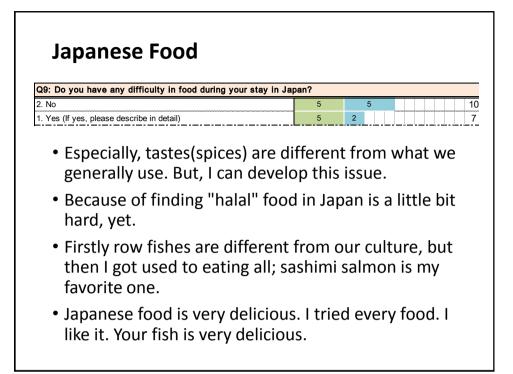
> Planned N			c chang nge Stude		am
	2015	2016	2017	2018	2019
Japan to Turkey	14	17	18	18	18
Turkey to Japan	16	19	19	19	19
Program foJapanese	Language a		2	olated Teni	

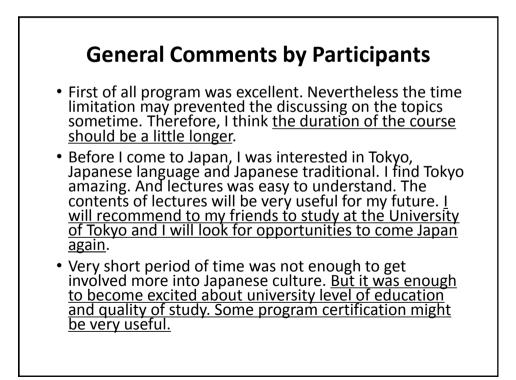
Short-term Student Exchange in January 2016 (Turkey to Japan)

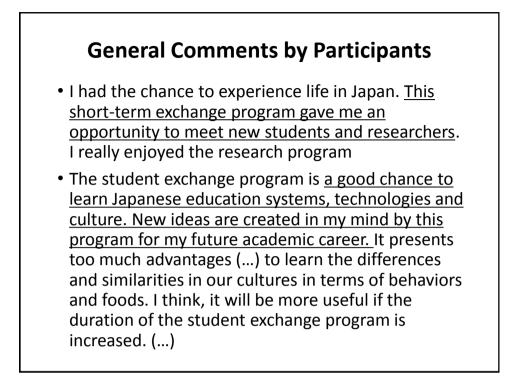
	Course 1 (University of Tokyo)	Course 2 (Tokyo Institute of Technology)
Jan 11	Flight from Istanbul to Tokyo	
Jan 12	Lectures on the Japanese language a reception	nd culture at UTokyo followed by a
Jan 13	Lectures and exercises on resilience	
Jan 14	 engineering (systems safety, nuclear safety, maintenance 	Exercises on urban earthquake
Jan 15	engineering, disaster management, and earthquake and tsunami engineering)	engineering
Jan 16	Cultural experience and excursions in	n Tokyo (or Osaka/Kyoto for some
Jan 17	Course 1 students) with graduate stu	idents from UTokyo
Jan 18	Internship program at engineering of	manios
Jan 19	Internship program at engineering co	mpanies
Jan 20	Flight from Tokyo/Osaka to Istanbul	

Short-term Student Exchange in January 2016 (Turkey to Japan)				
Participating Students	🔲 UTokyo 📃 TokyoTech			
Q1: What is your current level of education?				
1. PhD student	6 4 10			
2. Masters student	4 3 7			
3. Undergraduate students				
Q2: What department do you belong to?				
Q2: What department do you belong to?				
Q2: What department do you belong to?	3 2			
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics				
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics 3. Construction Management				
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics 3. Construction Management 4. Earthquake Engineering				
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics 3. Construction Management 4. Earthquake Engineering 5. Mechanical Engineering				
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics 3. Construction Management 4. Earthquake Engineering 5. Mechanical Engineering 6. Soil Mechanics				
Q2: What department do you belong to? 1. Structural Engineering 2. Hydraulics 3. Construction Management 4. Earthquake Engineering 5. Mechanical Engineering 6. Soil Mechanics 7. Energy Institute				

Overall Rating					
Q4: How do you rate the following aspects of the university?	Not impo 1	ortant 2	3	Very Ir 4	nportan 5
1. Provision of materials					8.0
2. Quality of lectures in English					4 .5
3. Feedback and engagement with teachers					6.6
2. No					
1. Yes		10		7	1
2. No					
3. Can't say					(
	you studied?				(
Q7: How close will your future Job or career be to what	you studied?	3			
Q7: How close will your future Job or career be to what 1. Very close		3	3		
Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close	4	3	3		
Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close 3. Not close at all	4	3	3		
3. Can't say Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close 3. Not close at all 4. Don't know 5. Other	4	3	3		
Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close 3. Not close at all 4. Don't know	4				
Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close 3. Not close at all 4. Don't know 5. Other	4			7	
Q7: How close will your future Job or career be to what 1. Very close 2. Slightly close 3. Not close at all 4. Don't know 5. Other Q8: Would you recommend studying at the UTokyo/Tok	4	ur frien			







I I	
Lectures on Japane	se Language and Culture
•	00
Q3: Do you feel that lectures were well prepared	d and well planned?
1. All were unplanned and unprepared	
2. A shortage of planning/preparation	
3. Average	0
4. Well planned and prepared	3
5. Very well prepared and planned	14
2. Fast 3. Just right	
4. Slow	
5. Very slow	
	ated anthusiasm for the course?
1. There was no enthusiasm	
1. There was no enthusiasm 2. Very little enthusiasm	0
1. There was no enthusiasm 2. Very little enthusiasm 3. Average	
Q5: Do you think the class instructor demonstra 1. There was no enthusiasm 2. Very little enthusiasm 3. Average 4. Enthusiastic 5. Very enthusiastic	0

Lectures on Japanese Language and Culture Q8: Did you had an interest in Japanese language and culture before this course? 1. Yes 12 2. No 3 3. Can't say 3 Q9: Did you experience an increase an interest in Japanese language and culture after this lesson? 1. No interest, no increase in motivation 0 2. Not much interest nor increase in motivation 0 3. Average 1 4. Interest in subject, increase in motivation 6 5.Very interested in subject, and increase in motivation 11 Q11: Do you feel that this class was useful for your future? 1. Absolutely not 0 2. Not particularly 0 3. I cannot say either way 1 10 4. Useful for my future 5. Very useful for my future 7



Lectures on Resilience Engineering/ Research at host professor			
Q3: Do you feel that internship program were we	ell prepared and well planned?		
1. All were unplanned and unprepared	UTokyo TokyoTeo		
2. A shortage of planning/preparation			
3. Average			
4. Well planned and prepared	3 2		
5. Very well prepared and planned	7 5		
Q4: What do you think about the speed/pace of	the class?		
1. Very fast			
2. Fast	2 1		
3. Just right	8 5		
4. Slow	1		
5. Very slow			
Q5: Do you think the instructor demonstrated en	nthusiasm for the course?		
1. There was no enthusiasm			
2. Very little enthusiasm			
3. Average			
4. Enthusiastic	2 1		
5. Very enthusiastic	8 6		

Lectures on Resilience Engineering/ Research at host professor

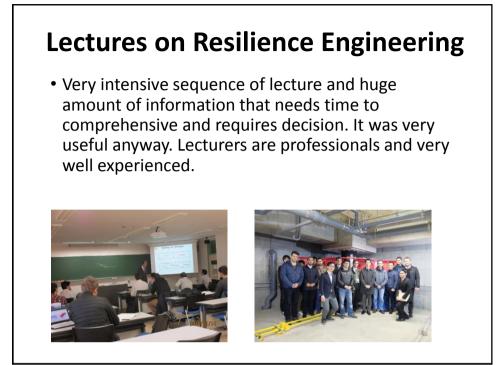
1. No interest, no increase in motivation		1.1.4	okvo		Toky	
2. Not much interest nor increase in motivation		J6-J	uryu		wny	646
3. Average				*****		
4. Interest in subject, increase in motivation		5	3			
5.Very interested in subject, and increase in motivation		5	4			
						1 1
area of study? 1. Absolutely not						
2. Not particularly						*****
2. Not particularly 3. I cannot say either way		5	3			
2. Not particularly 3. I cannot say either way 4. I think so		5 5	3			
2. Not particularly 3. I cannot say either way 4. I think so 5. Very much so, yes	ur future?	-	, U			
2. Not particularly 3. I cannot say either way 4. I think so 5. Very much so, yes Q10: Do you feel that this class was useful for yo	ur future?	-	, U			
 Not particularly I cannot say either way I think so Very much so, yes Q10: Do you feel that this class was useful for yo Absolutely not 	ur future?	-	, U			
 Not particularly I cannot say either way I think so Very much so, yes Q10: Do you feel that this class was useful for yo Absolutely not Not particularly 	ur future?	-	, U			
2. Not particularly 3. I cannot say either way 4. I think so 5. Very much so, yes Q10: Do you feel that this class was useful for yo 1. Absolutely not 2. Not particularly 3. I cannot say either way 4. Useful for my future	ur future?	-	, U			



- <u>The contents of the lectures made me realize, that</u> <u>resilience engineering is a very large topic</u>, that includes many subtopics from different engineering area and I'm very interested in this area.
- As a mechanical engineer, (...) <u>at first, I am focused</u> on the energy production, turbine generator part. But after this program, <u>I can easily focus all plant</u> with safety of design basis. I can estimate the possible risks for NPP. All of these, I have understand the word of 'resilience' detailed.

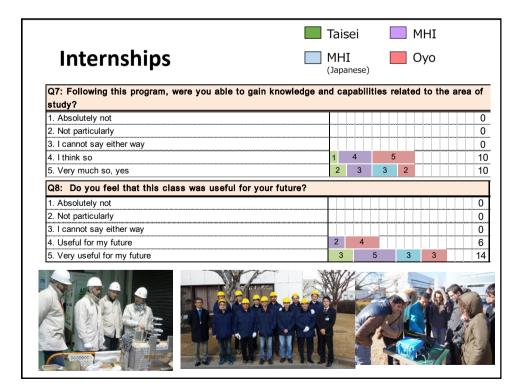


- The contents of the lecture were excellent. Nevertheless, <u>the time limitations caused less</u> <u>conservations about the topics</u>. (...)
- I am structural engineer. I kindly suppose that contents of lectures may be riched with adding of design of nuclear plant structures in terms of structural engineering (For example, design of containment structures, actions, possible loads, acceptance criteria). (...)





	🔲 Taisei 📃 MHI	
Internships		
internships	(Japanese students)	
Q3: Do you feel that internship program were well p	epared and well planned?	
1. All were unplanned and unprepared		
2. A shortage of planning/preparation		
3. Average		
4. Well planned and prepared	2 4 1 3	
5. Very well prepared and planned	1 3 2 3	
Q4: Do you think the instructor demonstrated enthus	iasm for the program	
1. There was no enthusiasm		
2. Very little enthusiasm		
3. Average	1	
4. Enthusiastic	3 1	
5. Very enthusiastic	3 4 3 5	1
Q6: Did you experience an increase an motivation for 1. No interest, no increase in motivation	or this subject after this program?	
2. Not much interest nor increase in motivation		
3. Average	1 3	
	1 2 1	
Interest in subject, increase in motivation		



Internship in Taisei Corporation

- In overall, the program was quite successful. I was very excited to be here. Only one topic that I want to add is that may be lecture related with structural design of nuclear power plants can be increased. This would be helpful to increase our ability to design safety structures well.
- The program was quite excellent and useful for may future works. Taisei is an amazing company with its experimental facilities. It was a pleasure to attend some kind of tests and seeing other facilities. Thank you very much for your hospitality and help.



Internship (Oyo Corporation)

- The site survey that we involved was informative and helpful. I think that the internship program is intensive for two-days, we have good enough knowledge about the firm.
- The internship is very beneficial to meet with professionals (...). It is a good chance to learn Oyo Corporation's projects in all around the world and their research fields. Construction and geotechnical engineering facilities really take my attention. I want to work in some of the projects of Oyo in near future.

Future Plan to be discussed

- Student Exchange Programs
- Joint Workshops
- Collaborative Research
- Joint Funding
- Others

Future Perspectives TJU : Turkey-Japan Science and Technology University

Strong support by both governments

- TJU campus will be established at Asian side of Istanbul
- Very close to the Sabiha Gokcen Airport
- Next to the Teknopark Istanbul
- Research collaboration between universities and companies from Turkey, Japan and other countries will be strongly encouraged in the University
- Many faculty members and engineers from Japan will join the University for research and education
 - Graduate School of Interdisciplinary Engineering and Sciences
 - Additional undergraduate schools are also planned