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Workshop and Korea Showcase | Universities as Enablers of Vibrant Startup Ecosystems Republic of Korea, 26-29 February 2024

Development of Evidence-based Customer Discovery Training Course for Startup in Korea and Transferring to Other Countries

2024.02.29.

Prof. Heung-Shik Lee JOONGBU UNIV.









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- 2 Case study on customer discovery training course conducted in Korea
- **3** Transferring customer discovery training courses to other countries









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01 Introduction to evidence-based customer discovery training course for startups





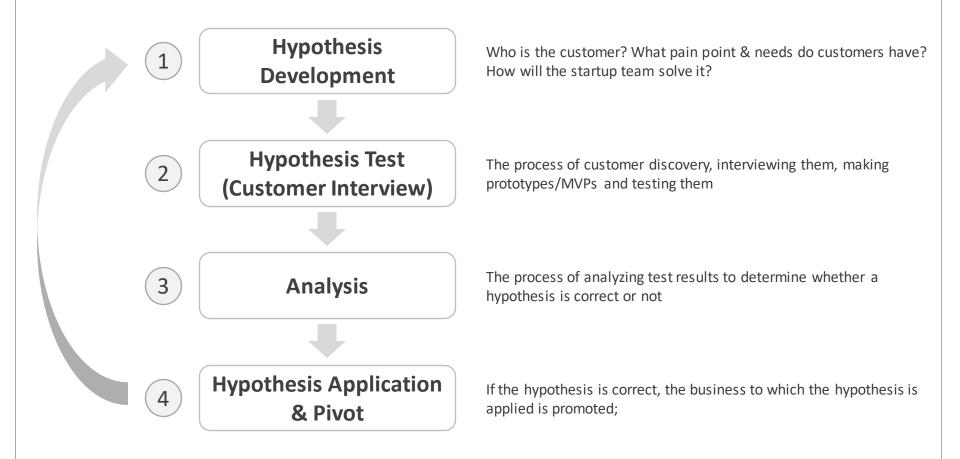


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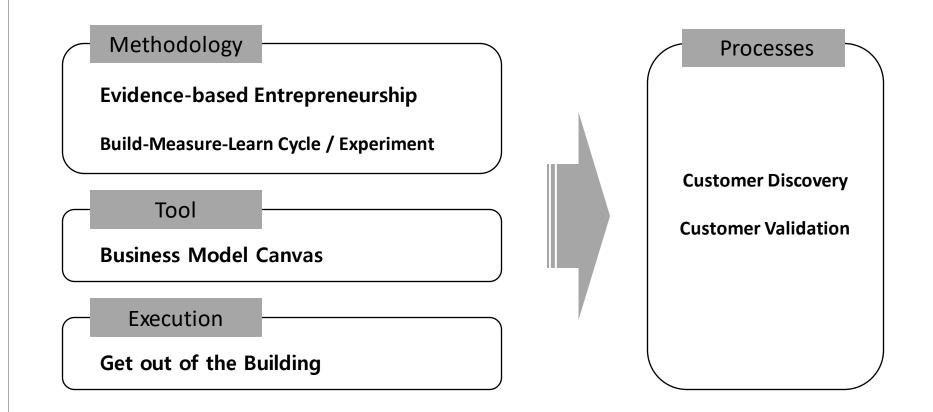
Program Intro.

✓ Evidence-based Customer Discovery

The program quickly verifies whether the idea of the startup team is viable by customer interview, and develops MVP(Minimum Viable Product) based on customer interview.



Course Composition Framework

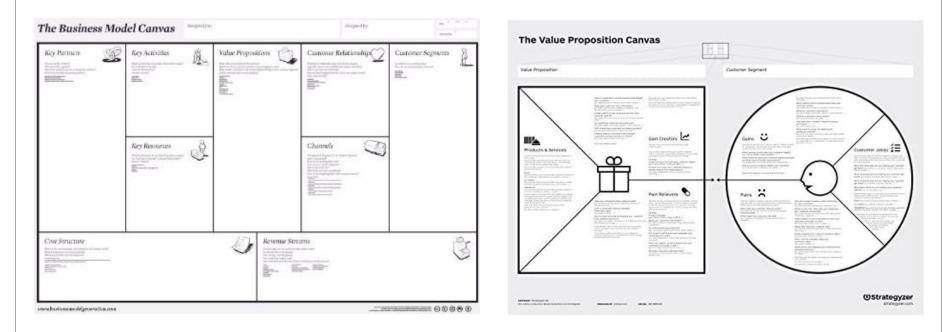


To get insight, we need 100 interviews more

First 20	Exercise, we are not trained as a interviewer				
After 30	Starting point to get the insight				
About 40	Recognize pattern of problem or needs through customers				
From 60	Understand customer and customer's needs				
Reach 80	Transform hypothesis into fact or validation with confidence				
Finally 100	Get the persuasive story of value proposition from customers				

Program Intro

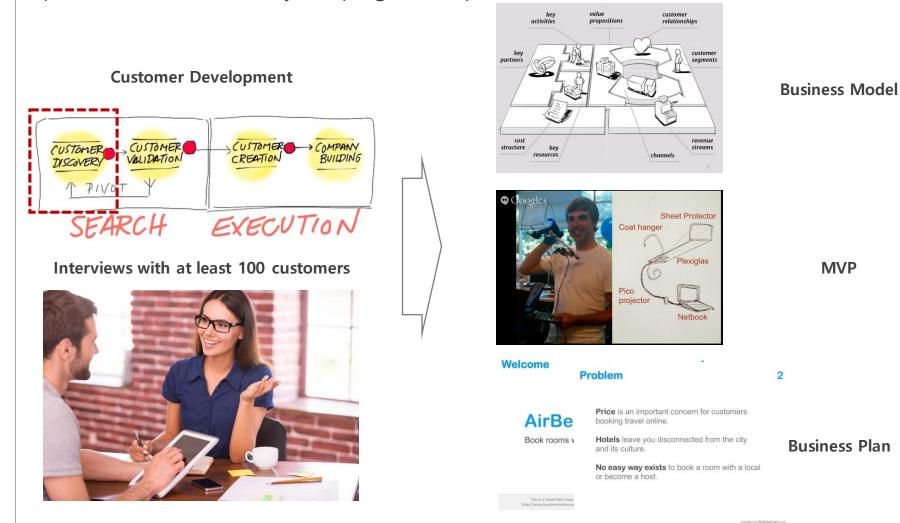
We conduct business feasibility verification using the business model canvas and value proposition canvas developed by Alexander Osterwalder along with Steve Blank's customer development methodology.



We work from the customer development method developed by Steve Blank & the Business Model canvas & Value proposition canvas popularized by Alex Osterwalder.

Program Output

Based on a systematic customer development methodology, we conduct interviews with at least 100 customers. Through this, a business model, MVP, and business plan with proven business feasibility are program output.



02 Case study on customer discovery training course conducted in Korea







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Tech-based market exploration support program

(For Graduate & National Research Labs) @ Ministry of Science and ICT

- ✓ Starting with 10 teams selected in the pilot project in 2015, the scale was expanded to 39 in 2016, 51 in 2017, 60 in 2018, and 70 in 2019.
- From 2015 to present, approximately 700 teams have completed the 'Customer Discovery Program'

Establishment of 156 start-ups, attracting investment of KRW 120 billion (USD 91.5 million), and creating 900 new jobs.



Year	Participated Node Univ. @ South Korea
2015	KAIST, POSTECH, UNIST, GIST, DGIST (5)
2016~2017	KAIST, POSTECH, YONSEI Univ., KOREA Univ., HANYANG Univ. (5)
2018~2023	KAIST, POSTECH, UNIST, GIST, KOREA, SKK Univ., EHWA Univ., SM Univ., TM Univ. (9)

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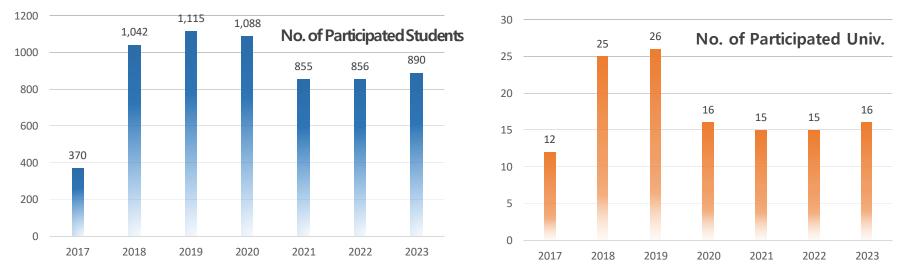
KDB(Korea Development Bank) Startup Education Program

(For Undergraduate Students)

@ KDB Foundation

- Customer Discovery methodology for undergraduate students is taught on a semester basis through a regular curriculum (credit awarded).
- ✓ From 2015 to present, 125 Universities and 6,216 students have completed the 'Customer Discovery Program'
- ✓ After participating in the KDB startup education program, many teams succeeded in attracting investment.

Year	Univ.	Team	Investment Attraction Amount	Business Item
2020	POSTECH	Deeple HR	1.4 billion won (\$1.07 million)	Professional job search platform for production/technical workers
2021	DONGKUK	Nuling	100 million won (\$80,000)	Automatic exercise recording app service



03 Transferring customer discovery training courses to other countries









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Startup Accelerating Program

About 20 Early Startups participate in basic customer development training for two weeks, and the final 10 teams were selected for an in-depth customer development program including MVP.

1) Intro

Global Entrepreneurship Program

The "customer development" developed by Steve Blank, a successful entrepreneur in Silicon Valley, is conducted to verify the feasibility of the startup team's ideas.

Blended Learning and Certified Instructors

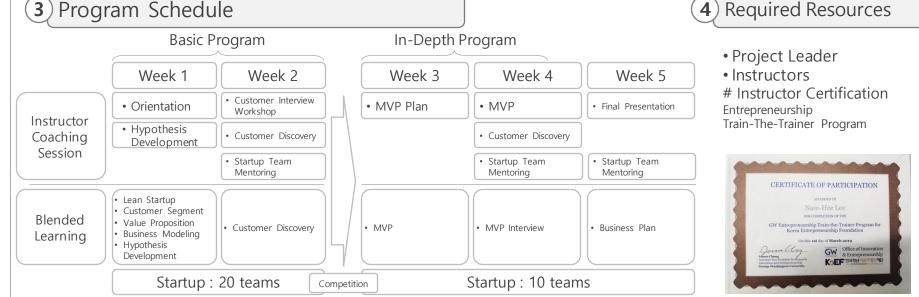
Through customer development online training made by instructors, Startup teams learn methodology in advance and perform customer-oriented tasks, then review assignments and pivot business ideas through real-time classes.

2 Expected Output

• Validate Business Models in a short time with low cost Hypothesis development to verify the feasibility of business ideas, hypothesis testing using customer interviews and MVP, and pivoting business ideas are used to discover key customers and verify value proposition-oriented business models.

Deliverables

Business Model Canvas, Value Proposition Canvas, Customer Interview Insight, MVP



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Train The Trainer(Instructor & Mentor) Program

20 Trainees(Instructors and mentors) participated the customer development program and improved their competency in lecturing and mentoring startup teams.

1) Intro

• Developing ideas and working as a startup team Instructors and mentors also participate as a startup team to complete the entire training program that applies the "customer development" process developed by Steve Blank, a successful entrepreneur in Silicon Valley.

Make and present their own lectures

Make two 30-minute lectures related to customer development and present directly to Instructors.

2 Expected Output

 <u>Entrepreneurship program design, Lecturing, and</u> mentoring capability improvement

By experiencing a 4-week startup accelerating program and completing the training and mentoring competency of a trainer, They can design a systematic Entrepreneurship program for the startup team and improve the capability of lecturing and mentoring.

• <u>Deliverables</u> Business Model Lecture, Beyond BMC Lecture



Train the Trainer Program @ Uzbekistan, 2023

	Date & Time (Uzbek. Local Time)	Contents	Etc.
8/19			
8/20		Program Preparation	
	15:00~15:30	Welcome Orientation	
	15:30~16:20	Lecture 1: Lean Startup	Assignment #1
8/21	16:30~17:20	Lecture 2: Business Model Overview	Team Introduction
0/21	17:30~19:00	Workshop #1 : BMC Worksheet	/BMC
Γ	19:00~20:00	Dinner & Office Hour	(Worksheet #1)
	20:00~22:00	Team Assignment #1	
	15:00~16:20	Team Presentation : Assignment #1	
	16:30~17:00	Lecture 3: VP-CS	Assignment #2
	17:00~17:30	Lecture 4: Customer Development	VPC / Hypothesis
8/22	17:30~19:00	Workshop #2 : VPC / Interview Plan Worksheet	Development / Interview Plan
	19:00~20:00	Dinner & Office Hour	(Worksheet #2)
Γ	20:00~22:00	Team Assignment #2	
	15:00~16:20	Team Presentation : Assignment #2	
	16:30~17:00	Lecture 5: Hypothesis Development	A
Γ	17:00~17:30	Lecture 6: MVP & Pivot	Assignment #3 CD Interview No. :
8/23	17:30~19:00	Workshop #3 : Hypothesis Development / MVP	30 (Worksheet #3)
	19:00~20:00	Announcement : Assignment #3	()
	20:00~22:00	Team Assignment #3	
	Flight	:: Uzvek> R.O.K Flight	

Train the Trainer Program @ Uzbekistan, 2023

	Date & Time (Uzbek. Local Time)	Contents	Etc.
	14:30~16:20	Team Presentation : Assignment #3	Assignment #4
8/29 (On-line)	17:00~17:50	Lecture 7: Channel / Customer Relationships / Revenue Streams	Final BMC & Additional
	17:50~18:00	Announcement : Assignment #4	(Worksheet #4)
	14:30~16:20	Team Presentation : Assignment #4	
9/5 (On-line)	17:00~17:40	Lecture 8: Cost Structure Part	
(0.1.1.0)	17:40~18:00	Announcement : SAP Cooperative Operation Plan	

Train the Trainer Program @ Uzbekistan, 2023







	Date & Time (Uzbek. Local Time)	Contents	Etc.
	15:00~15:30	Welcome Orientation	
	15:30~16:20	Lecture 1: Lean Startup	Assignment #1
0.05	16:30~17:20	Lecture 2: Business Model Overview	Team
9/25	17:30~19:00	Workshop #1 : BMC Worksheet	Introduction/BMC
	19:00~20:00	Dinner & Office Hour	(Worksheet #1)
	20:00~22:00	Team Assignment #1	
	15:00~17:00	Team Presentation : Assignment #1	
	17:10~18:00	Lecture 3: Customer Segments	Assignment #2 Proto-Persona
9/26	18:00~19:00	Workshop #2 : Proto-Persona Worksheet	
	19:00~20:00	Dinner & Office Hour	(Worksheet #2)
	20:00~22:00	Team Assignment #2	
	15:00~17:00	Team Presentation : Assignment #2	
	17:10~18:00	Lecture 4: VP-CS	Assignment #3
9/27	18:00~19:00	Workshop #3 : VPC Worksheet	Value Proposition
	19:00~20:00	Dinner & Office Hour	Canvas
	20:00~22:00	Team Assignment #3	(Worksheet #3)

	Date & Time (Uzbek. Local Time)	Contents	Etc.
	15:00~17:00	Team Presentation : Assignment #3	
	17:10~18:00	Lecture 5: Customer Development	Assignment #4
	18:00~19:00	Lecture 6 : Hypothesis Development	Hypothesis
9/28	19:00~20:00	Dinner & Office Hour	Development
	20:00~22:00	Workshop #4 : Hypothesis Development	(Worksheet #4)
	15:00~17:00	Team Presentation : Assignment #4	
	17:10~18:00	Lecture 7: Customer Interview	Assignment #5
9/29	18:00~19:00	Workshop #5 : Interview Plan	Interview Plan
	19:00~20:00	Dinner & Office Hour	(Worksheet #5)
	20:00~22:00	Team Assignment #5	
	9/30 – 10/10	Customer Discovery Interview (1)	Assignment #6 CD Interview No. : 20

Date &	Time (Uzbek. Local Time)	Contents	Etc.
10/11	17:00~19:00	Office Hour	Mentoring for Assignment #6
	15:00~17:00	Team Presentation : Assignment #6	Assignment #7
10/13	17:10~18:00	Lecture 7: MVP	MVP/Prototype + CD
	18:10~19:00	Workshop #6 : MVP	No. 5 (Worksheet #7)
10/18	17:00~19:00	Office Hour	Mentoring for Assignment #7
	15:00~17:00	Team Presentation : Assignment #7	Assignment #8
10/20	17:10~18:00	Lecture 8: Channel	Channel + CD No. 5
	18:10~19:00	Workshop #7 : Channel	(Worksheet #8)
10/25	17:00~19:00	Office Hour	Mentoring for Assignment #8
	15:00~17:00	Team Presentation : Assignment #8	Assignment #9
	17:10~18:00	Lecture 9: Customer Relationships	Customer
10/27	18:10~19:00	Workshop #8 : Customer Relationships	Relationships + CD No. 5 (Worksheet #9)

Date	& Time (Uzbek. Local Time)	Contents	Etc.
11/1	17:00~19:00	Office Hour	Mentoring for Assignment #9
	15:00~17:00	Team Presentation : Assignment #9	Assignment #10
11/03	17:10~18:00 18:10~19:00	Lecture 7: Cost Structures	Cost Structures
		Workshop #6 : Cost Structures	(Worksheet #10)
11/04 – 11/19		Customer Discovery Interview (2)	Assignment #11 CD Interview No. : 20

	Date & Time (Uzbek. Local Time)	Contents	Etc.
	15:00~15:20	Welcome Back	
	15:30~17:30	Team Presentation : Assignment #11	_ Assignment #12
11/20	16:30~17:20	Lecture 10: Pivot	Pivot/Final BMC
-	17:30~19:00	Workshop #6 : Pivot & Final BMC	(Worksheet #11)
	19:00~20:00	Dinner & Office Hour	(
	20:00~22:00	Team Assignment #12	
11/21	Customer Discov	very Interview (3)	CD Interview No. : 5
	15:00~17:00	Team Presentation : Assignment #10	
	17:10~18:00	Lecture 12: Pitch Deck	Assignment #13
11/22	18:00~19:00	Workshop #6 : Pitch Deck	Pitch Deck
	19:00~20:00	Lunch Time	(Worksheet #12)
	20:00~22:00	Team Assignment #13	
11/23	Customer Discov	CD Interview No. : 5	
	16:00~18:00	Team Presentation : Final Presentation	
11/24	18:00~19:00	Certification Ceremony	
	19:00~	Dinner & Networking	





January 2023 (Azerbaijan)

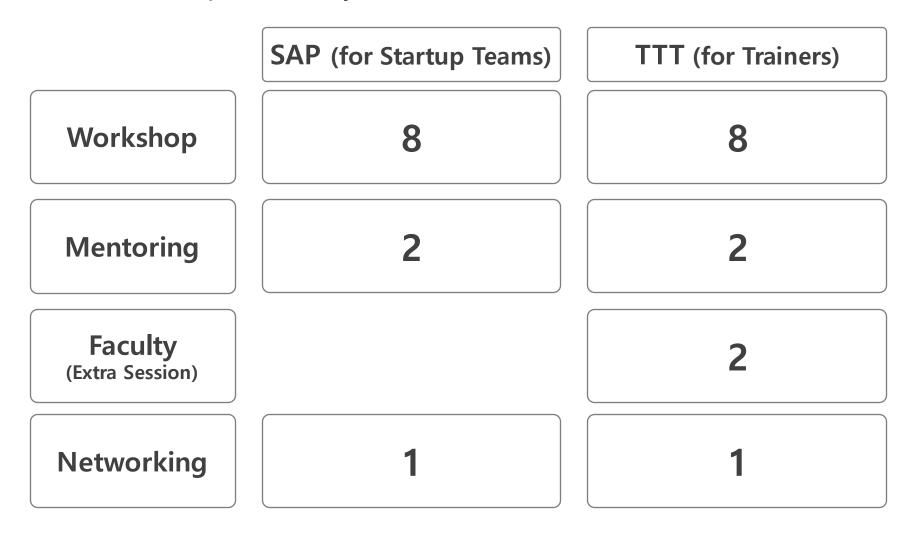
Mon	Tues	Wed	Thurs	Fri	Sat	Sun
2	3	4	5	6	7	8
Online			Online			
9	10	11	12	13	14	15
(S) Orientation	Blended Learning - (S)(TTT) : Lean Startu	ıp, Customer	(S) Hypothesis	Blended Learning - (S)(TTT) : Custom	er Discovery	
(TTT) Faculty	Segment, Value Propo Development, BMC	osition, Hypothesis	(TTT) Hypothesis	- (TTT) : Beyond E	BMC	
16	17	18	19	20	21	22
(S)Interview Workshop	Online		(S) Customer Discovery	Blended Learning - (S)(TTT) : MVP		(Korean New Year)
(TTT) Interview Workshop	(TTT) Faculty Startup Tear	n Mentoring	(TTT) Customer Discovery			
23 (Korean New Year)	24 (Korean New Year)	25	²⁶ Offline	27	28	29
			(S) MVP Plan	Blended Learning - (S)(TTT) : MVP Int	terview	
Offline			(TTT) MVP Plan			
30	31	1	2	3	4	5
(S) MVP			(S) Customer Discovery	Blended Learning - (S)(TTT) : Busines	s Plan	
(TTT) MVP	Startup Tear	n Mentoring	(TTT) Customer Discovery			
6	7	8	9	10	11	12
Offline			(S) Final PT			
(TTT) Faculty	Startup Tear	n Mentoring	(TTT) Final PT			
A						

January 2024 (Azerbaijan)

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
1	2	3	⁴ Online	5	6	7
Pre-Class Assignment						
	Online	Class				
8	9	10	11	12	13	14
(SAP) Orientation (TTT) Faculty	Blended Learning - (S)(TTT) : Lean Startu Segment, Value Propo		(SAP) Hypothesis	Blended Learning - (S)(TTT) : Custom		
	Development, BMC	Sition, Hypothesis	(TTT) Hypothesis	- (TTT) : Beyond E	ВМС	
15	16	17	18	19	20	21
(SAP)Interview Workshop	Online		(SAP) Value Proposition	Blended Learning - (S)(TTT) : MVP		
(TTT) Interview Workshop	(TTT) Faculty		(TTT) Value Proposition Design			
22 Offline (SAP) Customer Discover	²³ Offline	Class	25	26	27	28
(TTT) Customer Discover			(SAP) MVP	Blended Learning - (S)(TTT) : MVP In	terview	
Networking	Startup Tear	n Mentoring	(TTT) MVP	Startup Team Mentoring		
29	30	31	1	2	3	4
Offline			(SAP) Customer Discovery	Blended Learning - (S)(TTT) : Busines	s Plan	
(TTT) Faculty	Startup Tear	m Mentoring	(TTT) Customer Discovery	Startup Team Mentoring		
5	6	7	8	9	10	11
	(SAP) Final PT					
Startup Team	(TTT) Final PT					
Mentoring	Demoday					

Workshop & Mentoring for SAP / TTT

While conducting the TTT program according to the SAP program schedule, TTT holds two separate faculty sessions.



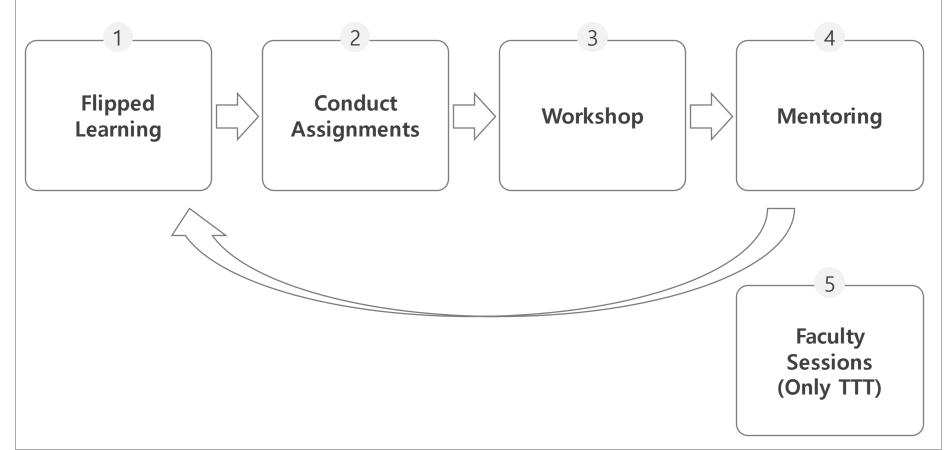
Program Major Contents

In order to increase the efficiency of the customer development program, the following program sequence is organized and conducted.

Sequence	Title	Contents	Schedule
Class 1	Opening Workshop	 Introduction to the entire program Lecture on the importance of customer development Business Model Canvas Presentation & Feedback 	8 th , January
Class 2	 Hypothesis Development Hypothesis formulation presentation & feedback Lecture on establishing correct hypotheses 		11 th , January
Class 3	Customer Interview	Lecture on the importance of customer interviewsConduct customer interview practice	15 th , January
Class 4	Value Proposition Canvas	Value Proposition Canvas Presentation & FeedbackQuantitative hypothesis development guide	18 th , January
Class 5	Customer Discovery#1	Customer interview results & feedbackDevelop plans after interviewing customers	22 nd , January
Class 6	Prototype & MVP	MVP & Prototype Presentation & FeedbackReview the hypothesis you wish to test	^{25th} , January
Class 7	Customer Discovery#2	Customer interview results & feedbackDevelop plans after interviewing customers	1 st , February
Class 8	Final Presentation	Presentation of final customer development results & feedbackLesson & Learned, Our Journey Presentation and Feedback	6 th , February

Program Progress Flow

In order to increase the efficiency of the customer development program, the following program sequence is organized and conducted.



The results of the program expansion were verified by having participants in the 1st year participate as local instructors and TAs in the 2nd year.

4 local instructors participated (1st year TTT participants)



Mukhammadfoik Bakhadirov



Emiliya Ahmadova

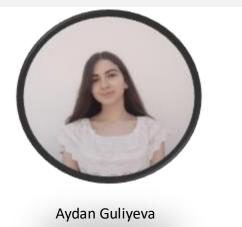


Rəvanə Göyüşlü



Gunel Imamguliyeva

Two local TAs participated (1st year SAP participants)





Gunel Rahimli

Off-line classes are divided into two groups, and mentoring is divided into four groups.

Class Group		Korean Instructors	Local Instructors
	Group A	Eddie Choi Joseph Lee	Gunel Imamguliyeva Ravana Goyushlu
	Group B	Brian Lee Andrew Cha	Emiliya Ahmadova Mukhammadfoik Bakhadirov

Mentoring Group		Korean Instructors	Local Instructors
	Group A	Eddie Choi	Ravana Goyushlu
	Group B	Joseph Lee	Gunel Imamguliyeva
	Group C	Brian Lee	Emiliya Ahmadova
	Group D	Andrew Cha	Mukhammadfoik Bakhadirov

The local instructors delivered summary lectures in the local language or English and conduct teaching together.

Торіс	Class	Time	Agenda	Group A	Group B
MVP		13:30~14:00	Pre-meeting with Korean & Local Instructors - R&R Check All Instructors		3
		14:00~14:10	Warm greetings & Time table	Korean Instructor	Korean Instructor
	SAP	14:10~14:30	Summary lecture : MVP	Local Instructor - Gunel	Local Instructor - Emiliya
		14:30~15:45	Team Presentation	Group A Instructors	Group B Instructors
		15:45~16:00	Assignment	Group A Instructors	
IVI V F	ттт	16:00~16:10	Warm greetings & Time table	Korean Instructor	Korean Instructor
		16:10~16:30	Summary lecture : MVP	Local Instructor - Gunel	Local Instructor - Emiliya
		16:30~17:45	Team Presentation	Group A Instructors	Group B Instructors
		17:45~18:00	Assignment	Group A Instructors	
		18:00~18:30	Debrief - class review & discuss improvements	All Instructors	





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Mentoring were divided into four groups so that Korean/local instructors can mentor together and convey know-how to local instructors.

1st Mentoring	Date	Time	Туре	Group A-1 (Eddie, Ravana)	Group A-2 (Joseph, Gunel)	Group B-1 (Andrew, Ravana)	Group B-2 (Brian, Emiliya)
		14:00~15:00	SAP Mentoring (Team)	Not available	Not available	Not available	Not available
		15:00~16:00	3 ()	Team 06 (Aydan-Code Pays)	Team 08	Lala Rzazade (Team6)	Team 17
		16:00~17:00	TTT Mentoring (Indivisual)	Ayat Jafarova (Team2)	Aysel Sadigova (Team2)	Rufat Ahmadov (Team5)	M.A.Ismayilov (Team5)
		17:00~18:00	TTT Mentoring (Indivisual)	Nurlan Jabrayilov (Team1)	Afruz Niftaliyeva (Team2)	Orkhan Ahmadov (Team6)	Team 03
	Jan 24 (Wed)	14:00~15:00	SAP Mentoring (Team)	Team 09 (Kamal-MOTO 4)	Team 10	Team 11	Team16
		15:00~16:00	ů ()	Team 07 (Chingiz-Biodiesel)	Team 03	Team 14	Team 20
		16:00~17:00	TTT Mentoring (Indivisual)	Nilufar Seyidova (Team1)	Team 02	Ramzi Mammadli (Te am6)	Team 19
		17:00~18:00	TTT Mentoring (Indivisual)	Ulviyya Madadzada (Team3)	Afruz Niftaliyeva (Team2)	Mayis Azizov (Team4)	Bunyamin Seyidov (Team5)



Final Results (Azerbaijan)

By the final program completion date, 16 SAP teams had completed the program, and 15 TTT members had completed the program.



Thank you

Prof. Heung-Shik Lee

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