Hong Kong Shue Yan University
Industrial Attachment Office
BEPP Youth Competitiveness Indicators Model
**1st Biannual Assessment Report**

Introduction

The BEPP Youth Competitiveness Indicators Model (Model) is a comprehensive assessment tool developed by the Business, Economics and Public Policy Centre in conjuncture with Commission on Youth (2014) based on the "Youth Competitiveness Indicator System in Hong Kong" (Indicator system)[1].

In the indicator system, there are 21 elements formed under 7 indicators, namely "adaptability to future changes", "basic skills competence", "psychological features", "regular soft power", "inherent factor", "human resources" and "supporting environment". The 7 indicators can be divided into 2 main parts. The first part comprises 5 indicators, namely "adaptability to future changes", "basic skills competence", "psychological features", "regular soft power" and "inherent factor", represented by the statistics of young people collected from a micro perspective and gathered from first-hand data (micro-data) obtained through questionnaires. The second part comprises 2 indicators, namely "human resources" and "supporting environment", represented by territory-wide statistics collected from a macro perspective and retrieved from existing openly available data (macro-data). The micro-data reflect the competitiveness of young people in Hong Kong while those macro-data indicate the global competitiveness of our young people as a whole.

The micro-data model of 5 indicators with 16 elements was adopted for assessing the sustainable capacity of Shue Yan students in light of the future development trend (See Figure 1).

Figure 1: BEPP Youth Competitiveness Indicators Model
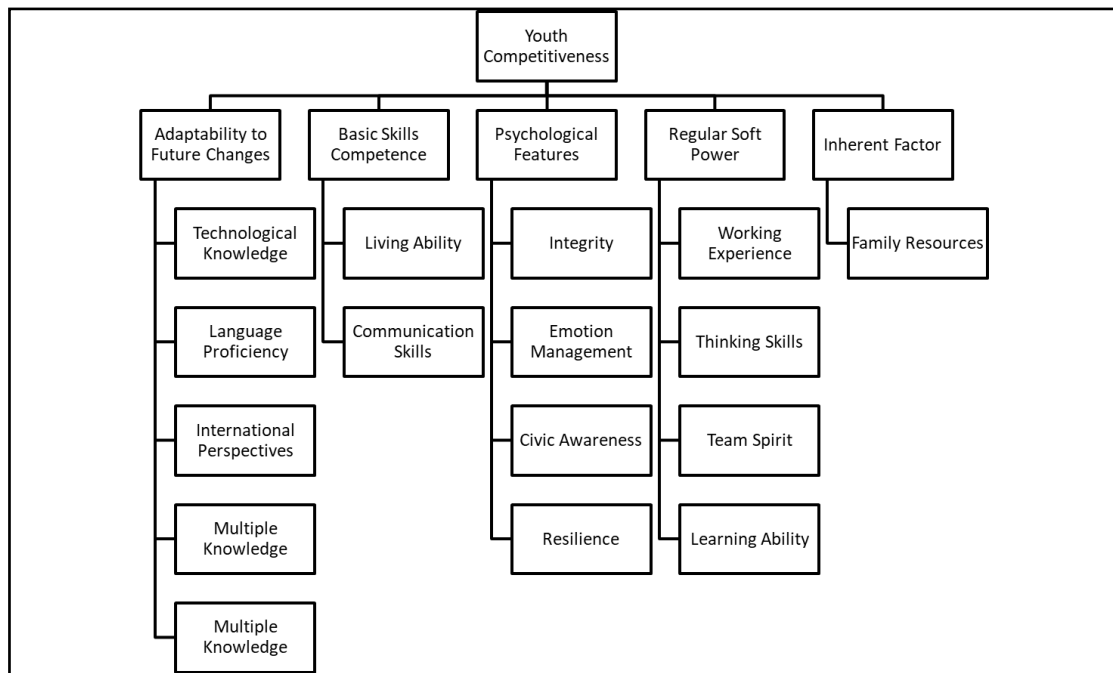
The first indicator is the Adaptability to future changes (配合未來變化能力), comprising the elements of the Professional competence (專業能力), Technological knowledge (科技知識), Language proficiency (語言能力), International perspectives (國際視野) and Multiple knowledge (多元知識). Below are the definition of each element:

- Professional competence: relating to individual profession or technical expertise, the professional knowledge acquired and the skills required in a particular field, or the competence of an individual in a certain area.

- Technological knowledge: the technique in processing information technology efficiently and the proficiency with computer programmers.

- Language proficiency: the knowledge of and proficiency in foreign languages.

- International perspectives: the ability to handle cross-cultural exchanges and cope with or adapt to the development trend of globalization.

- Multiple knowledge: a conglomeration of abilities in adapting to future changes, reflecting the future competitiveness of the youth.

The second indicator is the Basic skills competence (基礎技術能力) which consists of two elements, i.e. Living ability (生活能力) and Communication skills (溝通能力). The definition of each element is set out below:

- Living ability: abilities in self-caring, financial management and planning for the future.

- Communication skills: the ability to show and express one's opinions and feelings.

The third indicator is the Psychological features (心理特徵) which comprise the elements of Integrity (品德),

Resilience (抗逆能力), Emotion management (情緒控制) and Civic awareness (公民意識). The definition of each elements is listed below:

- Integrity: personal conduct and characters, a reflection of an individual's behavior and conduct.
- Resilience: the ability to overcome difficulties and recover from adversity after a major crisis.
- Emotion management: the ability to show and immediately change the emotions experienced in different situations.
- Civic awareness: the understanding of and concern about civil obligations and the civic values held.

The fourth indicator is the Regular soft power (恆常軟實力) which comprises such elements as Working experience (工作經歷), Thinking skills (思考能力), Team spirit (團隊合作) and Learning ability (學習能力). Below are the definitions of the elements:

- Working experience: personal experience and exposure, understanding and appreciation of interpersonal relationship as well as the values towards a job.
- Thinking skills: ability in decision-making and problem-solving, cognitive competence, goal setting capacity, creativity and a sense of moral judgment.
- Team spirit: interpersonal communication skills, comradeship, managerial and organizing capacity.
- Learning ability: motivation for and performance of learning, including both psychological and environmental factors.

The fifth indicator refers to the Inherent factor (天賦因素) of which Family resources (家庭資源) is the element. Family resources refers to the relationship between the youth and their parents.

Operation

Participants complete the pair of pre- and post-industrial attachment questionnaires online on a voluntary basis. It shall be noted that, firstly, this is a year-round survey, so it is possible for students to participate in the survey across different reporting periods. Secondly, the arrangement of industrial attachment (i.e. duration, start- and end-time) are varied. Thirdly, data recorded from September 2018 to January 2019 was presented in this 1st Biannual Assessment Report. In other words, students who complete the pre-industrial attachment questionnaire shall start their industrial attachment within or after this period while students who complete the post-industrial attachment questionnaire shall finish their industrial attachment within or before this period. The changes would be shown if the same participant completed pre and post-industrial attachment questionnaire up to the current reporting period. The number of students participated in the pre- and post-industrial attachment survey are shown as below (see Table 1).

Table 1: Number of students completed the pre- and/or post-industrial attachment survey

Pre-industrial attachment	94

Post-industrial attachment	41
Both	12

Result

Pre-industrial attachment survey

Full sample

There are 94 students (31 males and 63 females) from 3 programs (i.e. Business and Administration, Economics and Finance, and Sociology) participated in the pre-industrial attachment survey. The mean of youth competitiveness is 3.83 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.52, 3.97, 3.86, 3.93 and 3.84 respectively (See Figure 2 and Table 2).

Figure 2: 5 indicators - Pre - Full sample
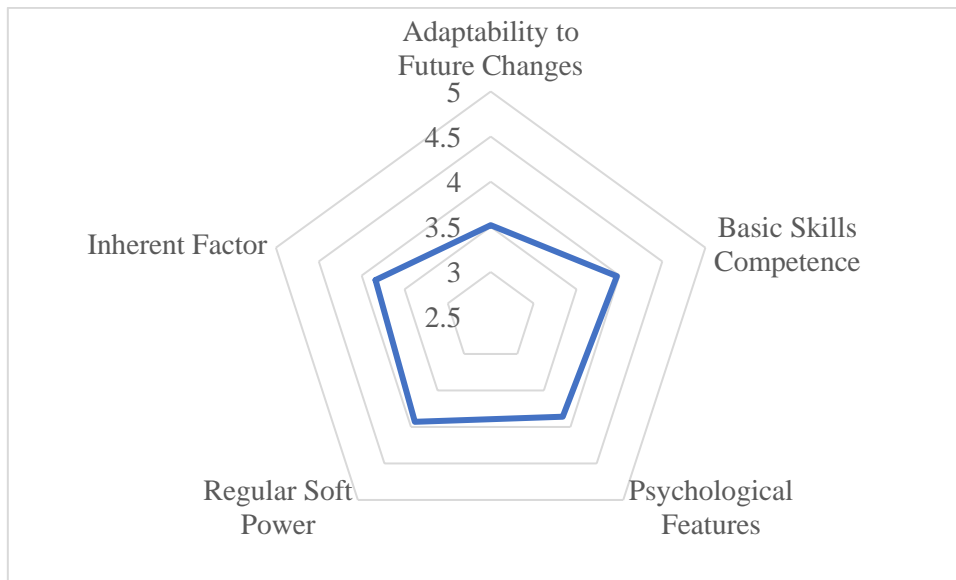
Table 2: 5 indicators and 16 elements - Pre - Full sample

	Youth Competitiveness	Adaptability to Future Changes	Basic Skills Competence	Psychological Features	Regular Soft Power	Inherent Factor
Mean	3.83	3.52	3.97	3.86	3.93	3.84
SD	0.35	0.44	0.46	0.31	0.39	0.82
Q1	4.01	3.79	4.28	4.00	4.09	4.25
Q2	3.83	3.52	4.00	3.88	3.94	4.00
Q3	3.65	3.25	3.75	3.69	3.73	3.50
	Professional Competence	Technological Knowledge	Language Proficiency	International Perspectives	Multiple Knowledge	
Mean	2.43	3.91	3.74	3.99	3.55	
SD	0.95	0.52	0.48	0.58	0.47	
Q1	3.00	4.25	4.00	4.25	3.75	
Q2	2.33	3.75	3.75	4.00	3.50	
Q3	2.00	3.50	3.50	3.75	3.25	
	Living Ability	Communication Skills	Integrity	Resilience	Emotion Management	
Mean	3.94	4.01	4.07	3.37	3.92	

SD	0.49	0.56	0.50	0.57	0.46
Q1	4.25	4.33	4.50	3.75	4.00
Q2	4.00	4.00	4.00	3.50	4.00
Q3	3.56	3.67	3.75	3.00	3.75

	Civic Awareness	Working Experience	Thinking Skills	Team Spirit	Learning Ability	Family Resources
Mean	4.06	3.73	3.96	3.99	4.03	3.84
SD	0.45	0.64	0.44	0.45	0.55	0.82
Q1	4.44	4.00	4.00	4.20	4.44	4.25
Q2	4.00	3.75	4.00	4.00	4.00	4.00
Q3	4.00	3.50	3.80	3.60	3.50	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters

Business Administration

There are 46 Business Administration students (17 males and 29 females) participated in the pre-industrial attachment survey. The mean of youth competitiveness is 3.85 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.54, 4.02, 3.84, 3.98 and 3.89 respectively. To compare with the full sample, the participants from Business Administration acquire a higher value in adaptability to future changes, basic skills competence, regular soft power and inherent factors while lower in psychological features (See Figure 3 and Table 3).

Figure 3: 5 indicators - Pre - Business Administration
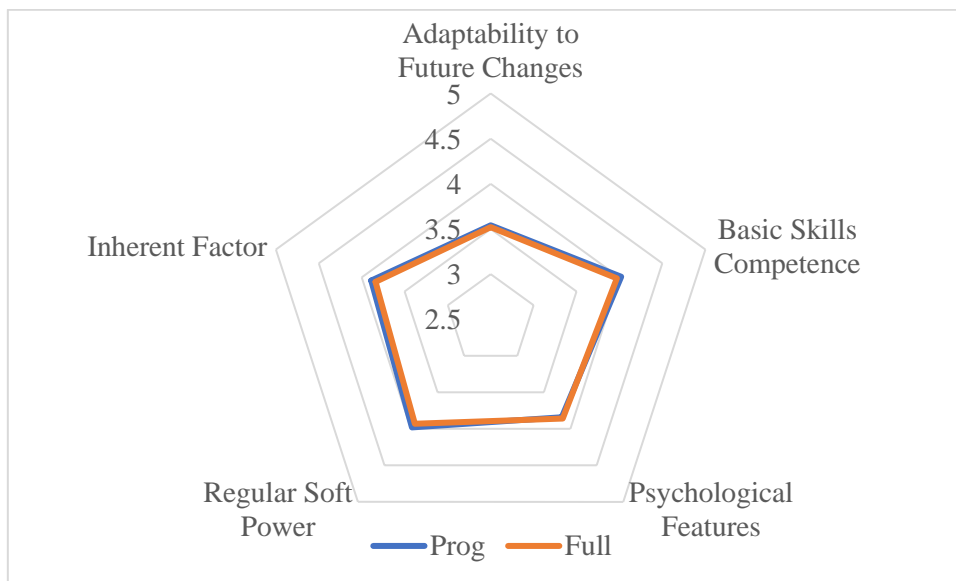
Note: Prog = values for the program; Full = values for the full sample

Table 3: 5 indicators and 16 elements - Pre - Business Administration

	Youth Competitiveness		Adaptability to Future Changes		Basic Skills Competence		Psychological Features		Regular Soft Power		Inherent Factor	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.85	3.83	3.54	3.52	4.02	3.97	3.84	3.86	3.98	3.93	3.89	3.84
SD	0.38	0.35	0.54	0.44	0.55	0.46	0.25	0.31	0.41	0.39	0.83	0.82
Q1	4.11	4.01	4.01	3.79	4.36	4.28	3.98	4.00	4.22	4.09	4.50	4.25
Q2	3.84	3.83	3.48	3.52	4.00	4.00	3.81	3.88	3.97	3.94	4.00	4.00

Q3	3.65	3.65	3.19	3.25	3.77	3.75	3.75	3.69	3.75	3.73	3.50	3.50

	Professional Competence		Technological Knowledge		Language Proficiency		International Perspectives		Multiple Knowledge	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	2.46	2.43	3.88	3.91	3.82	3.74	3.98	3.99	3.56	3.55
SD	1.10	0.95	0.54	0.52	0.55	0.48	0.66	0.58	0.59	0.47
Q1	3.00	3.00	4.19	4.25	4.25	4.00	4.19	4.25	3.75	3.75
Q2	2.50	2.33	4.00	3.75	3.75	3.75	4.00	4.00	3.50	3.50
Q3	1.33	2.00	3.50	3.50	3.50	3.50	3.75	3.75	3.25	3.25

	Living Ability		Communication Skills		Integrity		Resilience		Emotion Management	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	4.01	3.94	4.02	4.01	4.05	4.07	3.35	3.37	3.97	3.92
SD	0.52	0.49	0.69	0.56	0.46	0.50	0.52	0.57	0.34	0.46
Q1	4.25	4.25	4.58	4.33	4.44	4.50	3.75	3.75	4.00	4.00
Q2	4.00	4.00	4.00	4.00	4.00	4.00	3.38	3.50	4.00	4.00
Q3	3.75	3.56	3.67	3.67	3.81	3.75	3.00	3.00	3.75	3.75

	Civic Awareness		Working Experience		Thinking Skills		Team Spirit		Learning Ability		Family Resources	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.98	4.06	3.83	3.73	3.94	3.96	4.03	3.99	4.11	4.03	3.89	3.84
SD	0.42	0.45	0.72	0.64	0.44	0.44	0.44	0.45	0.55	0.55	0.83	0.82
Q1	4.25	4.44	4.25	4.00	4.15	4.00	4.20	4.20	4.50	4.44	4.50	4.25
Q2	4.00	4.00	4.00	3.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Q3	4.00	4.00	3.50	3.50	3.80	3.80	3.80	3.60	3.81	3.50	3.50	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters; Prog = values for the program; Full = values for the full sample

Economics and Finance

There are 18 Economics and Finance students (9 males and 9 females) participated in the pre-industrial attachment survey. The mean of youth competitiveness is 3.80 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.52, 4.00, 3.93, 3.85 and 3.69 respectively. To compare with the full sample, the participants from Economics and Finance acquire the same value in adaptability future changes, a higher value in basic skills competence, psychological features and a lower value in regular soft power, inherent factor.

Figure 4: 5 indicators - Pre - Economics and Finance
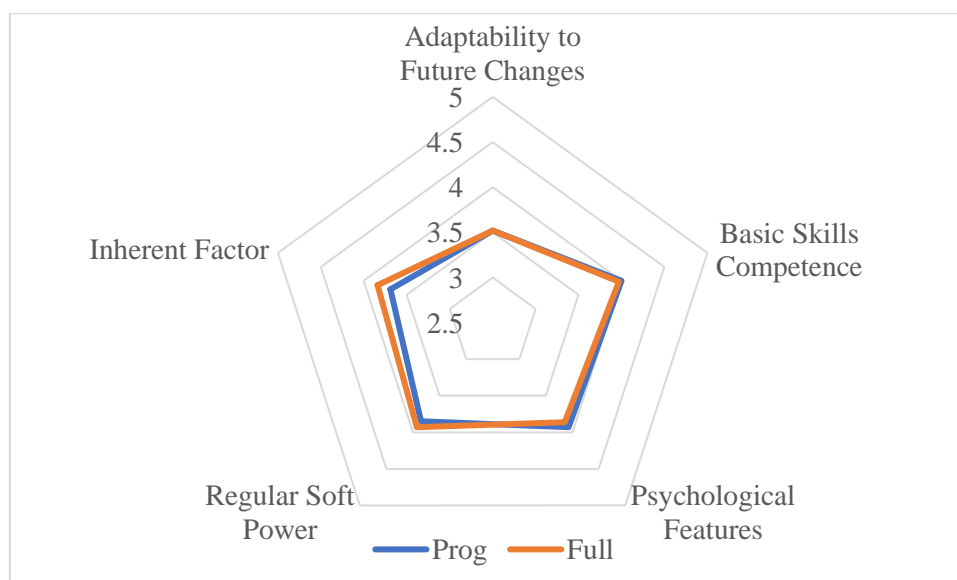
Note: Prog = values for the program; Full = values for the full sample

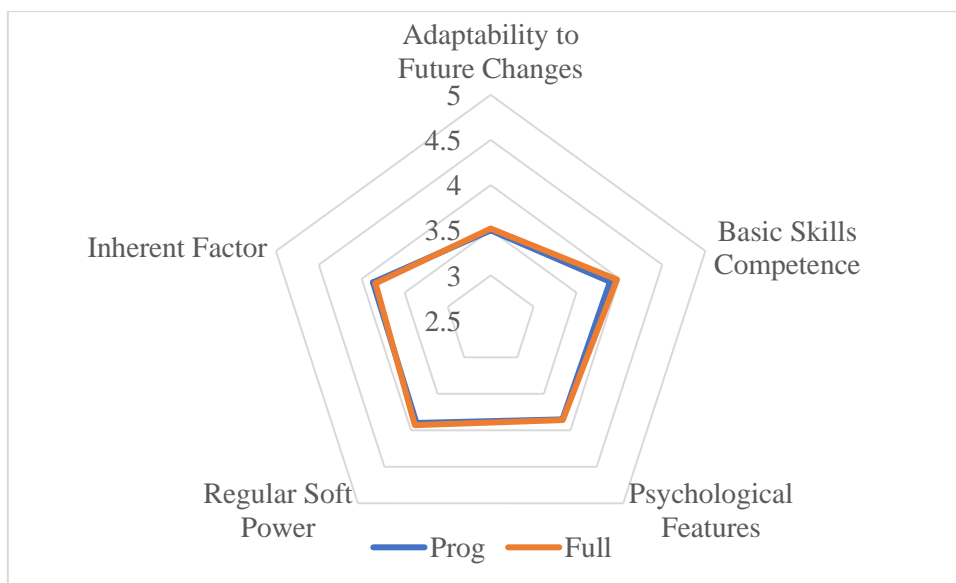Table 4: 5 indicators and 16 elements - Pre - Economics and Finance

	Youth Competitiveness		Adaptability to Future Changes		Basic Skills Competence		Psychological Features		Regular Soft Power		Inherent Factor	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.80	3.83	3.52	3.52	4.00	3.97	3.93	3.86	3.85	3.93	3.69	3.84
SD	0.33	0.35	0.30	0.44	0.41	0.46	0.38	0.31	0.41	0.39	0.94	0.82
Q1	3.92	4.01	3.68	3.79	4.32	4.28	4.11	4.00	3.99	4.09	4.19	4.25
Q2	3.75	3.83	3.48	3.52	4.00	4.00	3.91	3.88	3.87	3.94	3.75	4.00
Q3	3.53	3.65	3.34	3.25	3.75	3.75	3.58	3.69	3.56	3.73	3.25	3.50
	Professional Competence		Technological Knowledge		Language Proficiency		International Perspectives		Multiple Knowledge	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	2.43	2.43	3.89	3.91	3.72	3.74	4.04	3.99	3.53	3.55
SD	0.87	0.95	0.51	0.52	0.37	0.48	0.62	0.58	0.34	0.47
Q1	2.92	3.00	4.00	4.25	4.00	4.00	4.69	4.25	3.75	3.75
Q2	2.50	2.33	3.75	3.75	3.75	3.75	4.00	4.00	3.50	3.50
Q3	2.00	2.00	3.50	3.50	3.50	3.50	3.50	3.75	3.27	3.25
	Living Ability		Communication Skills		Integrity		Resilience		Emotion Management	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.93	3.94	4.07	4.01	4.07	4.07	3.67	3.37	4.04	3.92
SD	0.53	0.49	0.44	0.56	0.64	0.50	0.59	0.57	0.39	0.46
Q1	4.25	4.25	4.33	4.33	4.50	4.50	3.75	3.75	4.00	4.00
Q2	4.00	4.00	4.00	4.00	4.13	4.00	3.75	3.50	4.00	4.00
Q3	3.50	3.56	4.00	3.67	4.00	3.75	3.31	3.00	3.81	3.75
	Civic Awareness		Working Experience		Thinking Skills		Team Spirit		Learning Ability		Family Resources	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.93	4.06	3.44	3.73	4.09	3.96	3.94	3.99	3.90	4.03	3.69	3.84
SD	0.57	0.45	0.58	0.64	0.48	0.44	0.53	0.45	0.55	0.55	0.94	0.82
Q1	4.44	4.44	3.94	4.00	4.40	4.00	4.15	4.20	4.00	4.44	4.19	4.25
Q2	3.88	4.00	3.50	3.75	4.00	4.00	4.00	4.00	3.75	4.00	3.75	4.00
Q3	3.56	4.00	3.06	3.50	3.80	3.80	3.60	3.60	3.50	3.50	3.25	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters; Prog = values for the program; Full = values for the full sample

Sociology

There are 30 Sociology students (5 males and 25 females) participated in the pre-industrial attachment survey. The mean of youth competitiveness is 3.80 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.50, 3.89, 3.85, 3.90 and 3.87 respectively. To compare with the full sample, the participants from Sociology acquire a higher value in inherent factor and a lower value in adaptability to future changes, basic skills competence, psychological features and regular soft power.

Figure 5: 5 indicators - Pre - Sociology

Note: Prog = values for the program; Full = values for the full sample

Table 5: 5 indicators and 16 elements - Pre - Sociology

	Youth Competitiveness		Adaptability to Future Changes		Basic Skills Competence		Psychological Features		Regular Soft Power		Inherent Factor	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.80	3.83	3.50	3.52	3.89	3.97	3.85	3.86	3.90	3.93	3.87	3.84
SD	0.32	0.35	0.33	0.44	0.32	0.46	0.34	0.31	0.35	0.39	0.75	0.82
Q1	3.98	4.01	3.68	3.79	4.09	4.28	4.00	4.00	4.08	4.09	4.19	4.25
Q2	3.83	3.83	3.55	3.52	3.88	4.00	3.94	3.88	3.94	3.94	4.00	4.00
Q3	3.67	3.65	3.37	3.25	3.61	3.75	3.69	3.69	3.77	3.73	3.56	3.50
	Professional Competence		Technological Knowledge		Language Proficiency		International Perspectives		Multiple Knowledge	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	2.37	2.43	3.98	3.91	3.64	3.74	3.97	3.99	3.53	3.55
SD	0.75	0.95	0.51	0.52	0.41	0.48	0.44	0.58	0.34	0.47
Q1	2.92	3.00	4.44	4.25	4.00	4.00	4.19	4.25	3.75	3.75
Q2	2.33	2.33	3.75	3.75	3.75	3.75	4.00	4.00	3.50	3.50
Q3	2.00	2.00	3.75	3.50	3.31	3.50	3.75	3.75	3.31	3.25
	Living Ability		Communication Skills		Integrity		Resilience		Emotion Management	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.83	3.94	3.96	4.01	4.12	4.07	3.23	3.37	3.78	3.92

SD	0.41	0.49	0.40	0.56	0.47	0.50	0.60	0.57	0.61	0.46
Q1	4.00	4.25	4.00	4.33	4.50	4.50	3.50	3.75	4.00	4.00
Q2	3.75	4.00	4.00	4.00	4.00	4.00	3.25	3.50	4.00	4.00
Q3	3.50	3.56	3.67	3.67	3.75	3.75	3.00	3.00	3.50	3.75

	Civic Awareness		Working Experience		Thinking Skills		Team Spirit		Learning Ability		Family Resources	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	4.26	4.06	3.77	3.73	3.90	3.96	3.95	3.99	3.98	4.03	3.87	3.84
SD	0.34	0.45	0.50	0.64	0.43	0.44	0.42	0.45	0.55	0.55	0.75	0.82
Q1	4.50	4.44	4.00	4.00	4.00	4.00	4.15	4.20	4.25	4.44	4.19	4.25
Q2	4.25	4.00	4.00	3.75	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Q3	4.00	4.00	3.50	3.50	3.80	3.80	3.60	3.60	3.50	3.50	3.56	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters; Prog = values for the program; Full = values for the full sample

Post-industrial attachment survey

Full sample

There are 41 students (18 males and 23 females) from 2 program (i.e. Economics and Finance, and Sociology) participated in the post-industrial attachment survey. The mean of youth competitiveness is 3.65 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.42, 3.83, 3.78, 3.85 and 3.37 respectively (See Figure 6 and Table 6).

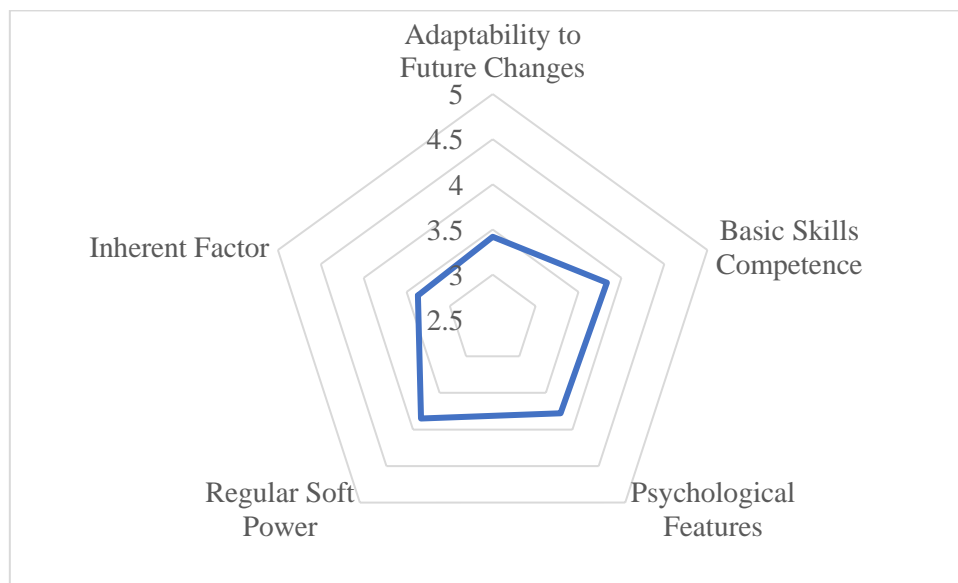Figure 6: 5 indicators - Post - Full sample

Table 6: 5 indicators and 16 elements - Post - Full sample

	Youth Competitiveness	Adaptability to Future Changes	Basic Skills Competence	Psychological Features	Regular Soft Power	Inherent Factor
Mean	3.65	3.42	3.83	3.78	3.85	3.37
SD	0.42	0.47	0.47	0.36	0.47	0.86
Q1	3.97	3.65	4.00	4.00	4.09	4.00
Q2	3.61	3.40	3.79	3.81	3.83	3.25
Q3	3.34	3.12	3.54	3.63	3.60	3.00
	Professional	Technological	Language	International	Multiple	

	Competence	Knowledge	Proficiency	Perspectives	Knowledge
Mean	2.42	3.83	3.62	3.86	3.38
SD	1.01	0.51	0.59	0.68	0.55
Q1	3.00	4.25	4.00	4.25	3.75
Q2	2.33	3.75	3.75	4.00	3.50
Q3	1.67	3.50	3.25	3.50	3.00
	Living Ability	Communication Skills	Integrity	Resilience	Emotion Management
Mean	3.85	3.80	4.07	3.10	3.80
SD	0.54	0.58	0.51	0.63	0.51
Q1	4.25	4.00	4.50	3.75	4.00
Q2	4.00	4.00	4.00	3.25	4.00
Q3	3.50	3.33	3.75	2.75	3.75
	Civic Awareness	Working Experience	Thinking Skills	Team Spirit	Learning Ability	Family Resources
Mean	4.14	3.72	3.92	3.87	3.87	3.37
SD	0.49	0.70	0.50	0.50	0.74	0.86
Q1	4.50	4.25	4.20	4.00	4.25	4.00
Q2	4.25	3.75	4.00	4.00	4.00	3.25
Q3	4.00	3.25	3.60	3.40	3.50	3.00

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters

Economics and Finance

There are 14 Economics and Finance students (7 males and 7 females) participated in the post-industrial attachment survey. The mean of youth competitiveness is 3.90 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.73, 4.14, 3.96, 4.08 and 3.59 respectively. To compare with the full sample, the participants of Economics and Finance acquire a higher value in all the indicators (See Figure 7 and Table 7).

Figure 7: 5 indicators - Post - Economics and Finance
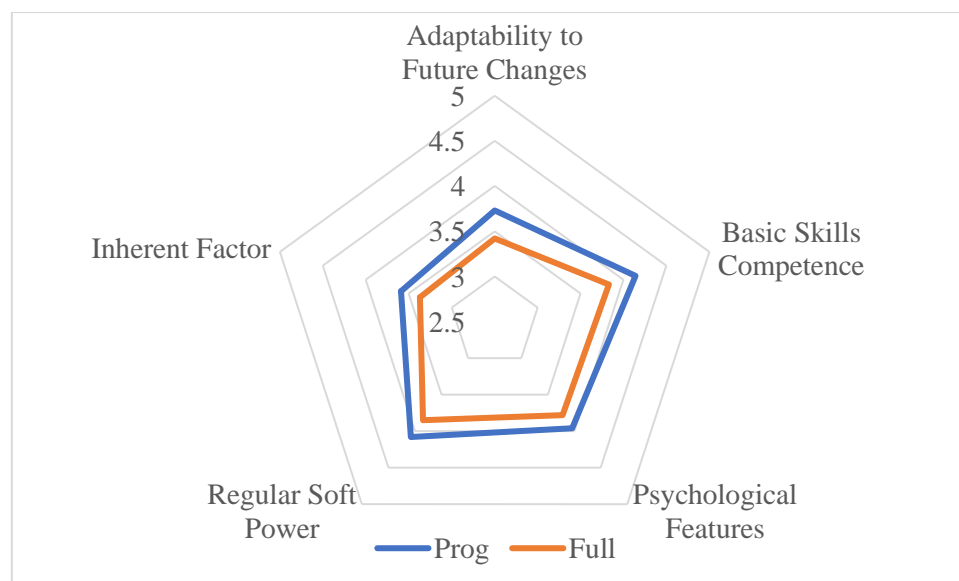
Note: Prog = values for the program; Full = values for the full sample

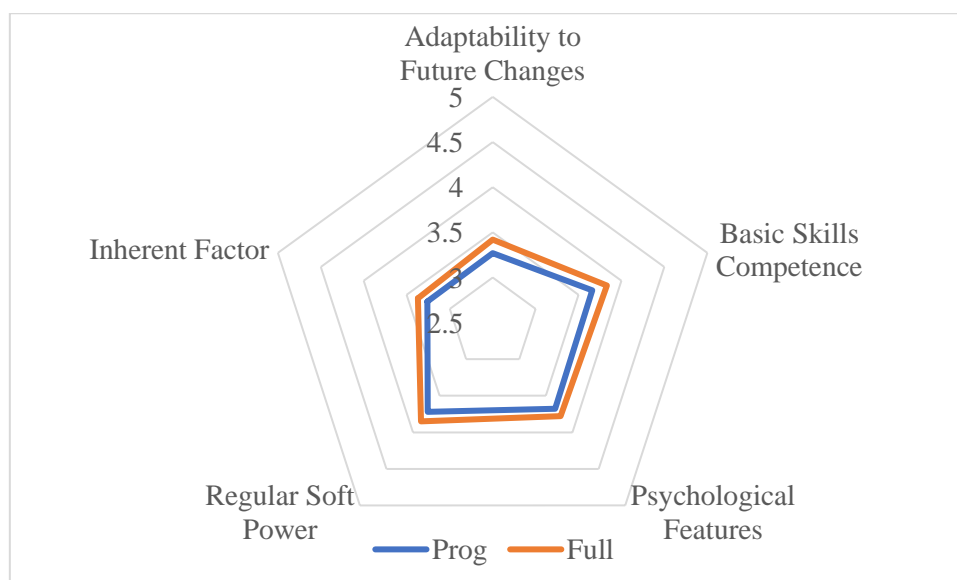Table 7: 5 indicators and 16 elements - Post - Economics and Finance

	Youth Competitiveness		Adaptability to Future Changes		Basic Skills Competence		Psychological Features		Regular Soft Power		Inherent Factor	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.90	3.83	3.73	3.52	4.14	3.97	3.96	3.86	4.08	3.93	3.59	3.84
SD	0.40	0.35	0.47	0.44	0.53	0.46	0.25	0.31	0.44	0.39	0.85	0.82
Q1	4.08	4.01	3.94	3.79	4.31	4.28	4.05	4.00	4.42	4.09	4.00	4.25
Q2	3.88	3.83	3.73	3.52	4.13	4.00	3.97	3.88	4.04	3.94	3.50	4.00
Q3	3.63	3.65	3.53	3.25	4.00	3.75	3.88	3.69	3.95	3.73	3.00	3.50

	Professional Competence		Technological Knowledge		Language Proficiency		International Perspectives		Multiple Knowledge	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	2.71	2.43	3.96	3.91	3.93	3.74	4.20	3.99	3.82	3.55
SD	1.25	0.95	0.55	0.52	0.36	0.48	0.61	0.58	0.48	0.47
Q1	3.00	3.00	4.44	4.25	4.00	4.00	4.69	4.25	4.19	3.75
Q2	3.00	2.33	4.00	3.75	3.75	3.75	4.00	4.00	3.75	3.50
Q3	1.50	2.00	3.75	3.50	3.75	3.50	3.81	3.75	3.56	3.25

	Living Ability		Communication Skills		Integrity		Resilience		Emotion Management	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	4.09	3.94	4.19	4.01	4.18	4.07	3.55	3.37	4.00	3.92
SD	0.59	0.49	0.55	0.56	0.42	0.50	0.39	0.57	0.38	0.46
Q1	4.50	4.25	4.50	4.33	4.50	4.50	3.75	3.75	4.00	4.00
Q2	4.13	4.00	4.00	4.00	4.13	4.00	3.50	3.50	4.00	4.00
Q3	4.00	3.56	4.00	3.67	4.00	3.75	3.31	3.00	3.81	3.75

	Civic Awareness		Working Experience		Thinking Skills		Team Spirit		Learning Ability		Family Resources	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	4.11	4.06	3.89	3.73	4.19	3.96	4.10	3.99	4.16	4.03	3.59	3.84
SD	0.39	0.45	0.59	0.64	0.46	0.44	0.55	0.45	0.55	0.55	0.85	0.82
Q1	4.25	4.44	4.19	4.00	4.55	4.00	4.45	4.20	4.50	4.44	4.00	4.25
Q2	4.13	4.00	3.88	3.75	4.10	4.00	4.00	4.00	4.13	4.00	3.50	4.00
Q3	4.00	4.00	3.50	3.50	4.00	3.80	4.00	3.60	4.00	3.50	3.00	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters; Prog = values for the program; Full = values for the full sample

Sociology

There are 27 Sociology students (11 males and 16 females) participated in the post-industrial attachment survey. The mean of youth competitiveness is 3.52 out of 5. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" were 3.27, 3.66, 3.68, 3.72 and 3.26 respectively. To compare with the full sample, the participants of Sociology acquire a lower value in all the indicators (See Figure 8 and Table 8). It shall be noted that those participants are who completed their industrial attachment in summer 2018 while the project has not been established. It is estimated that the participants of the coming slot with more pre-attachment support will acquire a higher value in the post-attachment survey.

Figure 8: 5 indicators - Post - Sociology

Note: Prog = values for the program; Full = values for the full sample

Table 8: 5 indicators and 16 elements - Post - Sociology

	Youth Competitiveness		Adaptability to Future Changes		Basic Skills Competence		Psychological Features		Regular Soft Power		Inherent Factor	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.52	3.83	3.27	3.52	3.66	3.97	3.68	3.86	3.72	3.93	3.26	3.84
SD	0.37	0.35	0.39	0.44	0.35	0.46	0.38	0.31	0.44	0.39	0.86	0.82
Q1	3.72	4.01	3.46	3.79	3.85	4.28	3.88	4.00	3.89	4.09	4.00	4.25
Q2	3.49	3.83	3.25	3.52	3.75	4.00	3.69	3.88	3.70	3.94	3.25	4.00
Q3	3.32	3.65	3.09	3.25	3.46	3.75	3.59	3.69	3.51	3.73	2.88	3.50

	Professional Competence		Technological Knowledge		Language Proficiency		International Perspectives		Multiple Knowledge	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	2.27	2.43	3.76	3.91	3.45	3.74	3.69	3.99	3.16	3.55
SD	0.84	0.95	0.48	0.52	0.62	0.48	0.66	0.58	0.44	0.47
Q1	3.00	3.00	4.00	4.25	3.75	4.00	4.13	4.25	3.50	3.75
Q2	2.00	2.33	3.75	3.75	3.50	3.75	3.75	4.00	3.25	3.50
Q3	1.83	2.00	3.50	3.50	3.00	3.50	3.25	3.75	2.88	3.25

	Living Ability		Communication Skills		Integrity		Resilience		Emotion Management	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	3.72	3.94	3.60	4.01	4.01	4.07	2.87	3.37	3.69	3.92
SD	0.47	0.49	0.50	0.56	0.55	0.50	0.61	0.57	0.55	0.46
Q1	4.00	4.25	4.00	4.33	4.50	4.50	3.38	3.75	4.00	4.00
Q2	3.50	4.00	3.67	4.00	4.00	4.00	2.75	3.50	3.75	4.00
Q3	3.50	3.56	3.33	3.67	3.75	3.75	2.50	3.00	3.50	3.75

|	Civic Awareness		Working Experience		Thinking Skills		Team Spirit		Learning Ability		Family Resources	
	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full	Prog	Full
Mean	4.16	4.06	3.63	3.73	3.79	3.96	3.75	3.99	3.72	4.03	3.26	3.84
SD	0.55	0.45	0.74	0.64	0.47	0.44	0.44	0.45	0.78	0.55	0.86	0.82
Q1	4.63	4.44	4.25	4.00	4.00	4.00	4.00	4.20	4.00	4.44	4.00	4.25
Q2	4.25	4.00	3.75	3.75	3.80	4.00	3.80	4.00	3.75	4.00	3.25	4.00
Q3	3.88	4.00	3.13	3.50	3.40	3.80	3.40	3.60	3.50	3.50	2.88	3.50

Note: Q1, Q2, Q3 = 1st, 2nd, 3rd quarters; Prog = values for the program; Full = values for the full sample

Pre- and post-industrial attachment comparison

Economics and Finance

12 Economics and Finance participants (5 males and 7 females) completed the pair of pre- and post-industrial attachment questionnaire in this reporting period. The mean of youth competitiveness increased from 3.69 to 3.78. The indicators of "Adaptability to Future Changes", "Basic Skills Competence", "Psychological Features", "Regular Soft Power" and "Inherent Factor" increased 0.14, 0.05, 0.06, 0.17 and 0.06 respectively. The largest change was found in regular soft power. The results indicated that participation in the industrial attachment would be positively associated with the scores of the post-industrial attachment survey (See Figure 9 and Table 9).

Figure 9: 5 indicators - Pre&Post - Economics and Finance
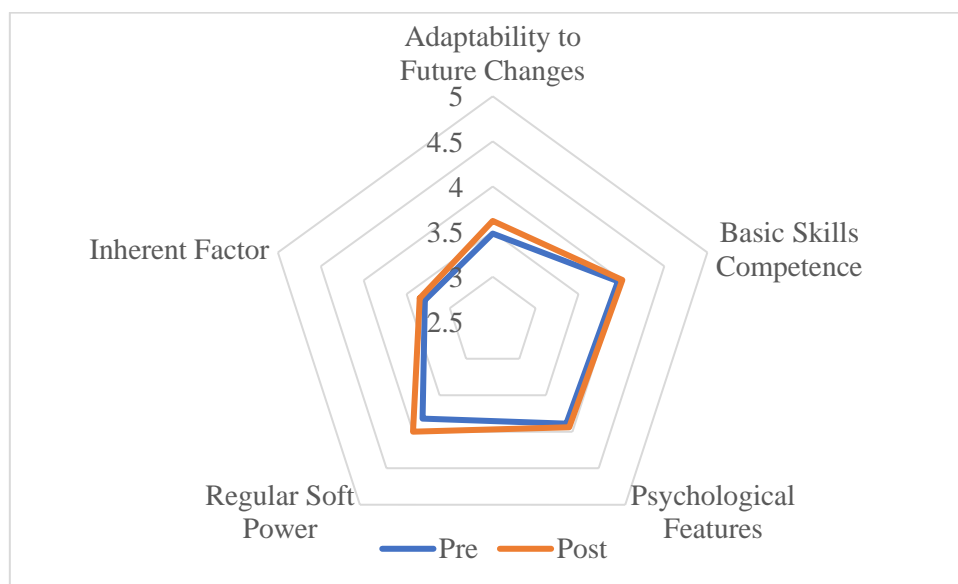
Note: Pre-mean = values for Pre-industrial attachment; Post-mean = values for Post-industrial attachment

Table 9: 5 indicators and 16 elements - Pre&Post - Economics and Finance

	Youth Competitiveness	Adaptability to Future Changes	Basic Skills Competence	Psychological Features	Regular Soft Power	Inherent Factor
Pre-mean	3.69	3.48	3.96	3.89	3.82	3.29
Post-mean	3.78	3.62	4.01	3.94	4.00	3.35
Change	0.10	0.14	0.05	0.06	0.17	0.06
	Professional Competence	Technological Knowledge	Language Proficiency	International Perspectives	Multiple Knowledge
Pre-mean	2.14	3.85	3.79	4.04	3.56
Post-mean	2.50	3.88	3.88	4.10	3.73
Change	0.36	0.02	0.08	0.06	0.17
	Living Ability	Communication Skills	Integrity	Resilience	Emotion Management
Pre-mean	3.90	4.03	3.98	3.73	3.98
Post-mean	3.96	4.06	4.17	3.54	3.98
Change	0.06	0.03	0.19	-0.19	0.00
	Civic Awareness	Working Experience	Thinking Skills	Team Spirit	Learning Ability	Family Resources

Pre-mean	3.85	3.35	4.03	3.97	3.94	3.29
Post-mean	4.08	3.75	4.17	3.98	4.08	3.35
Change	0.23	0.40	0.13	0.02	0.15	0.06

Note: Pre-mean = values for Pre-industrial attachment; Post-mean = values for Post-industrial attachment;

Change = values for Post-industrial attachment - values for Pre-industrial attachment