

Innovation-based Entrepreneurship Education : Ecosystem & Education Pattern

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Why we need IBE: A few facts





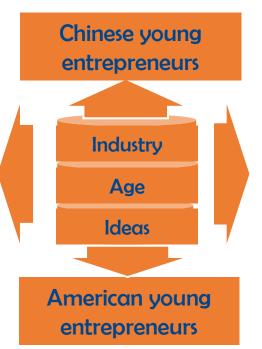
The differences between U.S.A & China

1.Americans mainly focus on the Internet, biological medicine, new energy, media, catering and other fields.

2.The average age on the list is 26.

3.Better at technology, product and service innovation, Disruptive innovation & design.

U.S.A



1.Chinese young entrepreneurs are clustered in the internet industry, E-commerce. 2. The average age on the list is 28. 3.Better at making application, Internet+ traditional industries. Traditional Services.

China

Forbes : Comparison between American& Chinese entrepreneurs under the age of 30





What kind of entrepreneurs we need?

Zhejiang has a resident population of 54.42 million and the number of registered enterprises is more than 3.7 million, among which individual businesses account for over 2.5million. Zhejiang people has a entrepreneurial gene by nature. There are 10 people in one enterprise if we estimate the population from 18 to 60 years old. What does that mean? Wenzhou is the cradle of private economy and has been regarded as the "Oriental Jews" because of their strong business sensibilities. However, under the traditional culture of "better be the head of a dog than the tail of a lion", Wenzhou faces the very difficulties of industrial upgrading, and less developed in the past five years regarding to their economic growth. What does that mean?







Jack Ma



Mr. Duan



Mr. Shi



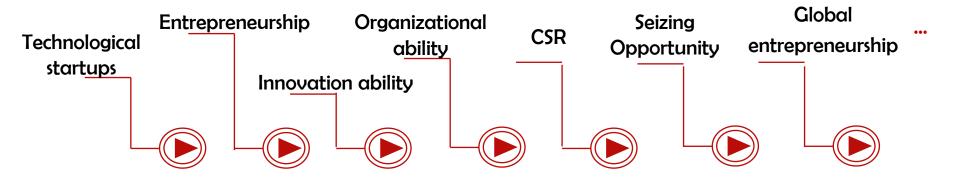
Why we need IBE: A few facts





What kind of entrepreneurs we need?

- We need Jack Ma, or we need Ren Zhengfei more ?
- We need Mr. Wang, but we still need Qinghou Zong?
- We have Pony, but we dream to have a Chinese Steve jobs?







Evolution from 1st generation, 2nd and 3rd generation of entrepreneurs

Entrepreneurs in the 1980s

- >Courage
- \geq Diligence
- First-mover advantage >
- \geq Connections

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Cost & Marketing \geq advantages

- Entrepreneurs in 1990-2000
 - \geq Exporting-oriented
 - Cost-oriented
 - Brand operation \geq
 - Disruptive production
 - Manufacturing \geq advantage

Entrepreneurs today

- Abundant knowledge
- Innovative business model \geq
- \geq Global vision

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- Business inherent law \geq
- \geq Core competence

Survival Type Entrepreneurship



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Manufacturing type Entrepreneurship

Innovation-Bsed Entrepreneurship



2 What kind of new entrepreneurs we need?

Natures of IBE Entrepreneurs

- The spirit of observing insightful and exploring bravely;
- The consciousness of taking risk, challenging themselves;
- The ability of never giving up when getting frustrated;
- The ability of identifying opportunities and taking actions fast;
- The morality of cooperating honestly and appreciating others sincerely;
- The responsibility to create values to contribute to the society.

Entrepreneurial university is facing the challenges regarding to the talent training issue, how to reconstruct a new talent training mode based on innovation driven?





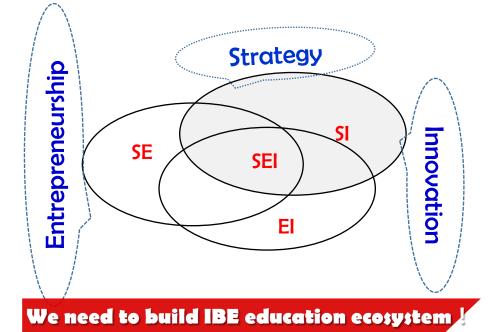
SEI Model of Innovation-Based Entrepreneurship Education

Strategy 2 Entrepreneurship

- Motivation: Entrepreneurship
- Strategy: Disruptive construction
- Key factor: voice of technology

Innovation 2 Entrepreneurship

- Innovation is a significant dimension of entrepreneurship
- Innovation is a significant step of entrepreneurship

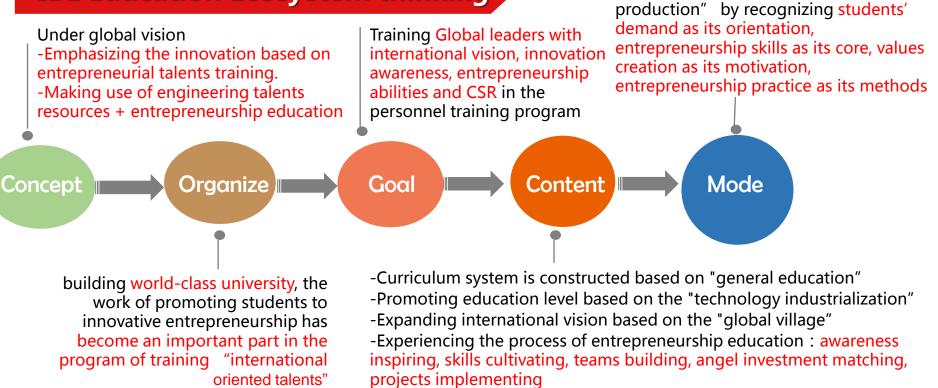


3 IBE Education Ecosystem: from ZJU



Gradually form the model of "research-

IBE Education Ecosystem thinking







IBE Education Ecosystem thinking

Entrepreneurship education carriers

ZJU Entrepreneurship Development Center

ZJU

Entrepreneurial Nursery

ZJU Entrepreneurship Education Center

Science and Technology Experiment Park

ZJU Entrepreneurship Capital matchmaking

ZJU Entrepreneurship Forum

ZJU International Entrepreneurship Practical platform

Student entrepreneurship
organization;

ZJU Entrepreneurship Association

ZJU Entrepreneurship Practical Guidance Center

ZJU Entrepreneurial Training Camp

ZJU's Entrepreneurship Editorial Department

ZJU Future Entrepreneur Club

ZJU Postgraduate's Innovation and Entrepreneurship Center

ZJU "KBA" Club

Entrepreneurship	Entrepreneurship
competitions	supporting platforms
ZJU Angel Matching Project	The National University Science
Competition	Park
ZJU Dandelion	Industrial Technology Research
Entrepreneurship Competition	Institute
ZJU "PBE" Entrepreneurship Competition	Research Institute of innovative technology
Entrepreneurship Idea Show Competition	Technology Transfer Center
Entrepreneurship Competition of Province and City	Local cooperation Center
"The Challenge Cup"	Entrepreneurship Program
Entrepreneurship Competition	Supporting Fund
The Xinshang Cup" Entrepre-	Special Funds (SQTP,"985")

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neurship Competition





Pattern 1 : Engineering education+ innovation+ entrepreneurship (V1.x)



Intensive Training Program of Innovation and Entrepreneurship of Zhejiang University, short for ITP, which belongs to Chu Kochen Honors College, has trained more than 800 students.

Positioning

Aim to train talents with a solid professional knowledge, strong innovation awareness, outstanding innovation skills and innovation abilities; aim to train would-be entrepreneur with international vision and native wisdom.

Selecting

Recruit 60 students over 5000 sophomores from engineering departments by voluntary application, open competition, merit-based enrollment. The 60 students need to complete a two-year ITP learning at the premise of finishing their original major.

1999-2014: Domestic exploration

Teaching Features

- Plan professionally, train systematically
- Case teaching, class lecturing
- Going out of class, strengthening practices

Program Operation

- Entrepreneur tutor [platform]
- Activities: truth seeking salon, truth seeking elite meeting, entrepreneurial front diary.
- Positioning: ITP and entrepreneurs matching
- Alumni association
- Activities : ITP & Enterprises joint job fairs, Wechat account operation

Reputation: National outstanding class



Pattern 1 : Engineering majors+ innovation+ entrepreneurship (V2.0)

1. Selecting system reform

- Students consisting reform (60 students)
- 40 undergraduates: full-time & non-management major students
- 10 postaraduates: full-time, preferring to science & engineering & agriculture & medical science
- 10 alumni: ZJU educational background, preferring to people with working experience

Elimination \$ystem (Elimination rate 30% within 2 years) 2. Teaching reform

Training plan reform

- Grouping: 60 students, 10 groups, each one has 4 undergraduates, 1 postgraduate and 1 alumni
- Entrepreneurship project: each group is in charge of one project
- Project evaluation: two project evaluations at the end each semester of -Junior, top three teams who win the entrepreneurship competition receive investment directly
- Elimination System : Each evaluation eliminates last two groups, in aggregation 30%, but they still have resurrection chances

2014- : A new journey, a new start

Curriculum reform

- Practice-oriented, curriculum practice integration
- Cooperate with entrepreneurship projects, intensify entrepreneurial skills

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Wide range of faculty, lectures from previous araduates

3. Training periods

- Second semester of Sophomore
- **Building groups**
- Choosing tutors and directions
- Completing courses
- 3 Second semester of Junior
- Perfecting BP
- Completing courses

First semester of Junior

- Finishing BP draft and defense
- Completing courses

First semester of senior

- Taking part in the competition
- Top three groups receive investments







Pattern 1 : Engineering majors+ innovation+ entrepreneurship (V2.0)

2014- : A new journey , a new start

Cases of IBE



Outstanding entrepreneurs

- Fang Yi : 1999itper, CEO of Getui
- Chen yichao : 2001itper, CEO of Youxiduo
- Shen Y.L : 2001 itper, Chama go e-commerce , CEO Maggies home
- Wang Runyu : 2002itper , COO of Hangzhou Funcity Tech company
- Guyingying : 2004itper, CEO of Chuanyizhushou
- Yangyang: 2007itper , CEO of Youqian Network, founder of 11'11......

Entrepreneurship Data

- In 2014, the national college students' entrepreneurship rate is under 1%;
 ZJU students' entrepreneurship rate is up to 4%.
- For 16 years, the entrepreneurship rate is up to 20% after 5 years graduation in the ITP class, much higher than the average rate in ZJU, particularly the rate of 2004 itper is up to 30%.
- Most entrepreneurs from ITP are serial entrepreneurs, most of them are outstanding entrepreneurs, as well as top managers in MNCs.



Pattern 2 : Education internalization(interactions

internationally and domestically)





HaiChuang Garden

Bay area

Joining international entrepreneurship eco-system

- Students from ZJU and other universities in Scotland, America, New Zealand, South Korea etc. will jointly participate the REAP program. Fanghui and Jiangxiaoying's groups grow quickly.
- ZJU, American BAS business school/school of management in Purdue university, Lyon GEP project in France, four international teams, entrepreneurship education in 28 countries.

Creating a laboratory jointly

 ZJU creates laboratories with north Carolina, Stanford, Lund university jointly, more than 10 students will enter Stanford venture lab

Hangzhou Haichuang Garden+ Bay Area jointly entrepreneurship platform

 Hangzhou & Bay area build an incubator jointly, 6 students including overseas ITP & students in bay area to do start-ups now.

4 IBE talents training program

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Pattern 3: Micro-entrepreneurship alliances--ZJUers-xi ecosystem

Administrative power to guide students' entrepreneurship activities

High participation: an increasing number of students participating in entrepreneurship competitions (over 1000 students, 120 teams in the Dandelion entrepreneurship competition) Excellence performance: eight gold medals, two silver medals in the ninth "Challenge cup"

-Media advertising ; -Consulting service ; -Mechanical electronics -Education training ; -Cultural creativity ; -Biochemical environment ; -Agriculture & foods ; -Software network.



Entrepreneurship ecosystem: being formed around ZJU, many angel investments are in favor of ZJUers Rich capitals: ZJU microentrepreneurship association gathers over 150 teams, among which 40 teams registered, 20 teams invested, 182.4 million totally

4 IBE talents training program

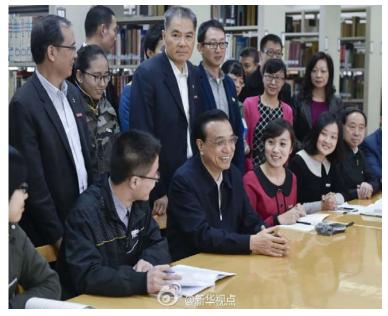




Pattern 3: Micro-entrepreneurship alliances--ZJUers-xi ecosystem

Administrative power to guide students' entrepreneurship activities

- In recent three years, over 115 enterprises are founded by ZJUers in ZJU technology park, among which quite a lot of star enterprises.
- "Dream town" + ZJU entrepreneurship network: building ZJU ecosystem of technology, entrepreneurship, investment, incubation, tutor+.....
- More than 20 teams financed by angel investment, among which 10 teams financed more than 5 millions
- A report from People's network in 22ed May that the entrepreneurship rate of undergraduates in ZJU is ranking top , ZJU+Alibaba is the oriental "Stanford+ Silicon valley" mode



Thank you !

