



Funded by the Erasmus+ Programme of the European Union







REASONS TO SUPPORT ENTREPRENEURS

Outline



Defining Entrepreneurship with some Activities

Who is an Entrepreneur?

Why a vibrant Entrepreneurial Ecosystem is a necessity for Pakistan?



Potential for Pakistan to Exploit

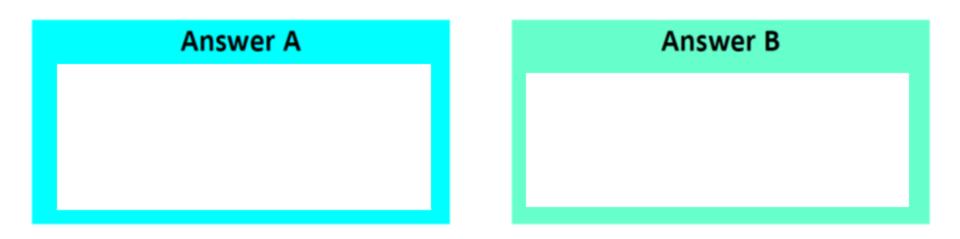


Conclusion





Are entrepreneurship courses useful?



Are entrepreneurship courses useful?

Answer A

No, entrepreneurs have a unique personality, so it's difficult to teach them how to start a business

Answer B

Yes, entrepreneurship courses can equip participants with everything they need for starting an own business.

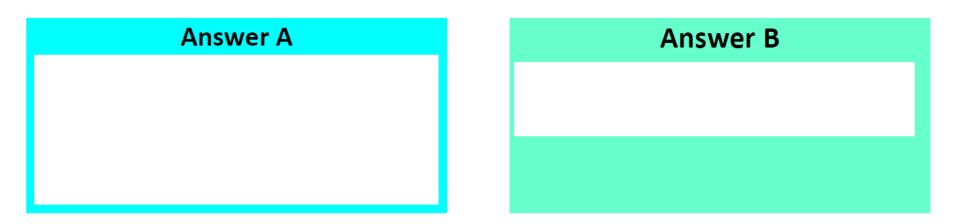
Why are entrepreneurial skills helpful?

Answer A

As, also in the industry, jobs are getting more complex and flexible problem-solving is a highly requested skill.

Answer B It serves personal development.

Is the entrepreneurial career an attractive goal for unemployed graduates?



Is the entrepreneurial career an attractive goal for unemployed graduates?

Answer A

No. Students are always scared and I don't think that their interest in starting an own business will increase in the next years.

Answer B

Absolutely. Actually, everyone wants to start an own business.

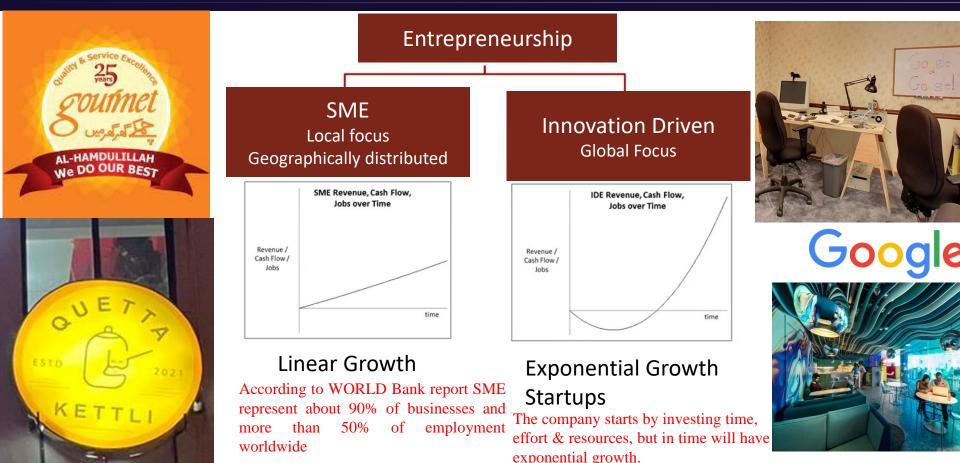
Entrepreneurship

An entrepreneur creates a firm to realize his/her idea, known as entrepreneurship, which aggregates capital and labor in order to produce goods or services for profit.

Entrepreneurship

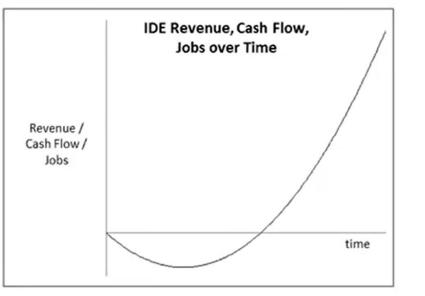


Entrepreneurship









1.636 trillion USD

Market capitalization (36.2% increase from the end of 2022)

Exponential Growth Negative Cashflow Investment required

Innovation Driven Entrepreneurship

Innovation =

Innovation Driven Entrepreneurship

Innovation = Invention

Innovation Driven Entrepreneurship

Innovation = Invention x Commercialization

Innovation = Invention x Commercialization



Innovation

During a press conference to announce Microsoft's acquisition of Nokia, Nokia CEO ended his speech saying, "We didn't do anything wrong, but somehow, we lost."

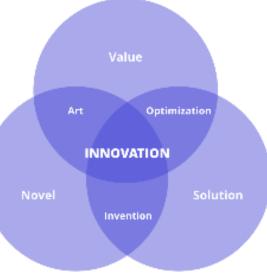
Upon this conclusion, he and the entire management team publicly wept.

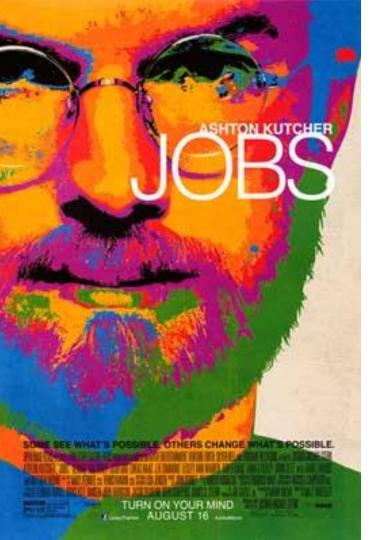


What is Innovation?

Innovation is the process of <u>creating value</u> by applying <u>novel solutions</u> to <u>meaningful</u> <u>problems</u>

IDE is realized by Startups





Entrepreneurs

- A person who undertakes the risk of starting a new business venture is called an entrepreneur
- A person who is up late working 100 hours for himself; to avoid working 40 hours for someone else
- Not necessarily motivated by profit but regard it as a standard for measuring success

Exercise: Who is an entrepreneur?

Instruction group 1

Collect arguments why entrepreneurs are born.

Instruction group 2

Collect arguments why entrepreneurs are made.

Time: 10 minutes

- Entrepreneur:

- Talent
- knowledge
 and resources
- Individuals and institutions

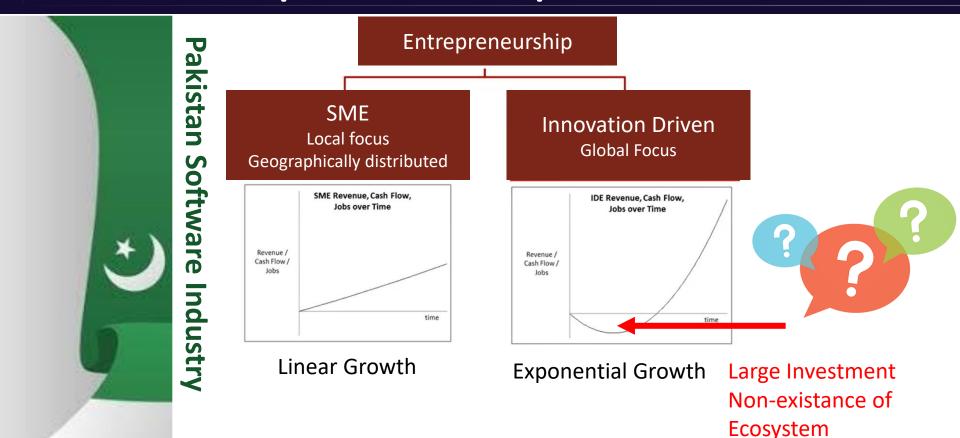
Onramps
 (access points)

- Intersections
- Culture

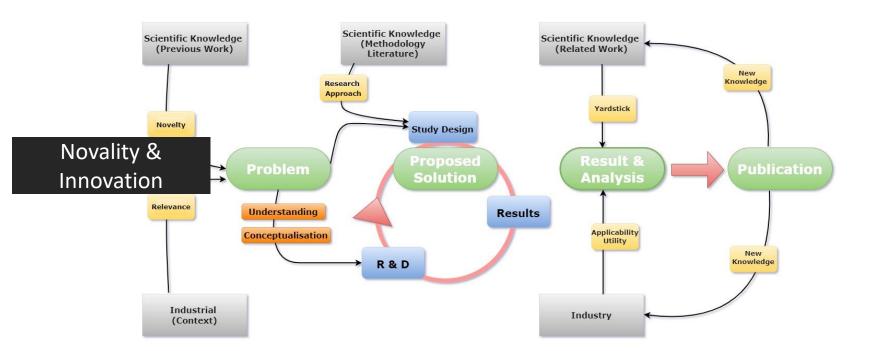
Why a vibrant entrepreneurial ecosystem is essential for Pakistan?

An ecosystem that allows for the fast flow of talent, information, and resources helps entrepreneurs quickly find what they need at each stage of growth. As a result, the whole is greater than the sum of its separate parts

Entrepreneurship and Pakistan



Innovation Driven Research



Pakistan Needs to Establish a Sound Startup Ecosystem

India has **118** unicorns, **44** in 2021, **22** in 2022 Indian Startup Ecosystem is Producing Unicorns

India has 3rd

largest ecosystem

for startups after the US and China



Privately held Startup company with a value of over \$1 billion



Potential

- Pakistan has the basic ingredients
 - Large young population eager to innovate
 - Affordable connectivity
 - Several educational institutions
 - Government eagerness to work with academia and industry
 - Large number of local problems with global scope

Pakistan winning 2 Golds in APICTA 2014

Pakistan is not short on talent

- Winners in startup and students projects
- While competing with 18 economies of Asia Pacific Region



Pakistan Winning 2 Golds in APICTA 2015

Pakistan is not short on talent





Pakistan is not short on talent



 Pakistan winning 3 Golds

APICTA 2016

Pakistan winning Gold



Pakistan is not short on talent

• Startup Category in APICTA 2017



Pakistan winning 1 Gold and 6 Silver Awards in APICTA 2018

Pakistan is not short on talent

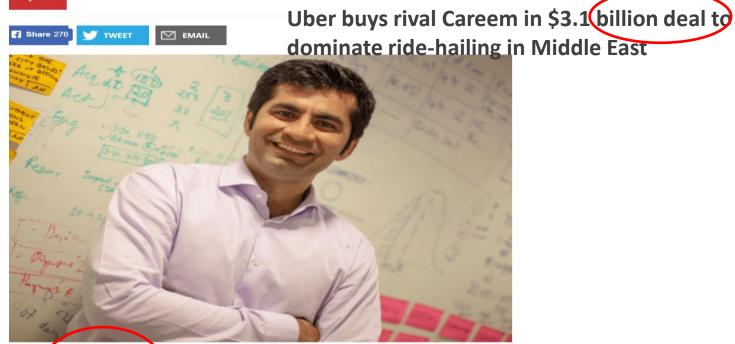


| | erra | OVERALL | | | |
|-----|------|----------------|-------|--------|-------|
| RAN | К | ECONOMIES | MERIT | WINNER | TOTAL |
| 1 | | PAKISTAN | 13 | 7 | 20 |
| 2 | | HONG KONG | 10 | 6 | 16 |
| 3 | | THAILAND | 4 | 6 | 10 |
| 4 | | CHINESE TAIPEI | 8 | - | 8 |
| 5 | | SRILANKA | 6 | 1 | 7 |
| 6 | | MALAYSIA | 5 | | 5 |
| 7 | | BRUNET | 2 | 2 | 4 |

How this Pakistani built a billion-dollar startup

3y Osman Husain Published: February 7, 2017

Pakistan not reaping the benefit of its creative minds



Careem's Mudassir Sheikha explain, why growth needs to be an obsession for any motivated founder. PHOTO: CAREEN

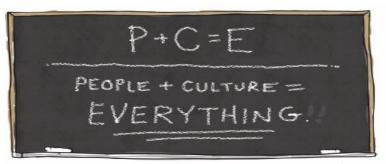
Mudassir Sheikha is the CEO and co-founder of ride-hailing app Careem, one of the hottest startups on the Asian continent.

Emerging Technologies to Focus



Conclusion

- Innovation Driven Entrepreneurship is very critical for Pakistan to progress
- We need to establish a complete and vibrant entrepreneurial ecosystem
- We need to motivate our creative minds to establish innovation driven startups and provide them with the ecosystem that takes them to create unicorns



CONTACT DETAILS

Engr. Dr. Mirza Tariq Hamayun

Associate Professor, Electrical & Computer Engineering Department

Corresponding member IFAC Technical Committee "Nonlinear Control Systems"

Member of Automatic Control Research Society

Head of Control & Automation research group

COMSATS University Islamabad (CUI)

Lahore Campus

Email: mhamayun@cuilahore.edu.pk