



# Open Innovation, human capital and the commercial space industry Karima LAÏB

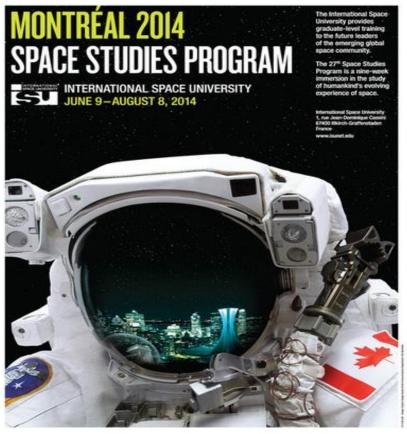
M.Sc. International Business

HEC Montreal, ISU

ICAO / UNOOSA Aerospace Symposium
18–20 March 2015, ICAO Headquarters, Montréal, Canada



#### And it all started with... SSP14-ISU





HEC MONTREAL







#### Introduction

- New space
- Globalization
- New technologies



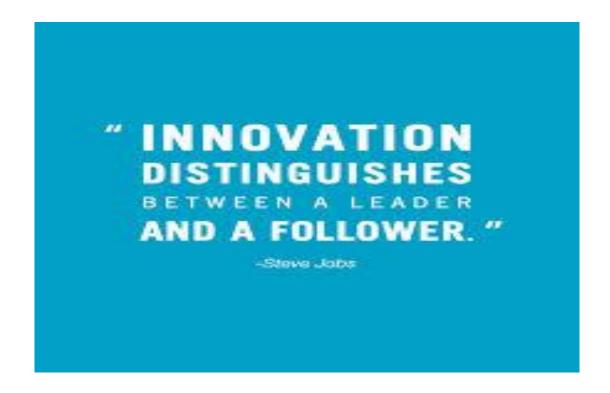
Competitive business environment





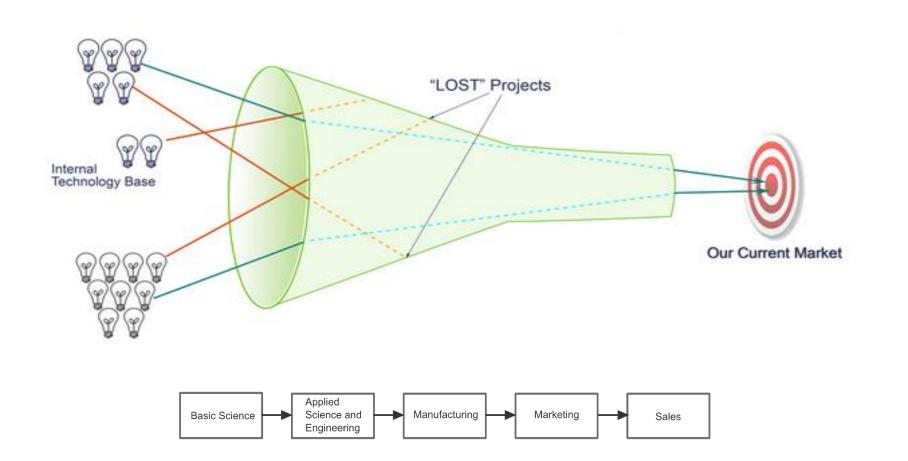


# Innovation from growth tool to a survival condition





#### Closed model of innovation



#### **Open Innovation? Why?**

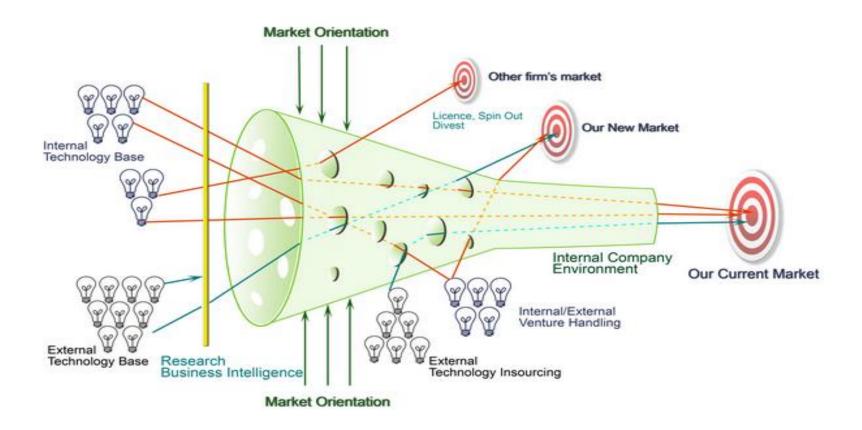
"Open innovation is the process of strategically managing the sharing of ideas and resources among entities to co-create value." (TP OI in space, SSP14, ISU)





Best ideas, practices, knowledge are not necessarily within the boundaries of the firm

#### **Open Innovation model**



24 March 2015





#### Multiple levels of openness













Why OI for the commercial space industry?

- 1. COST SHARING
- 2. RISK SHARING
- 3. DECREASING TIME-TO-MARKET
- 4. VISIBILITY/ MARKETING









#### More resources







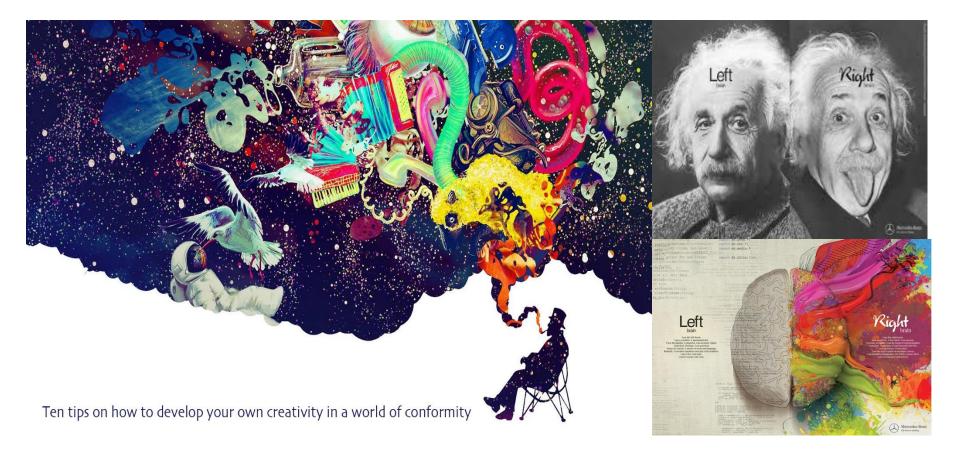
### In practice?







#### Creative problem solving approach





#### Collaboration and co-creation

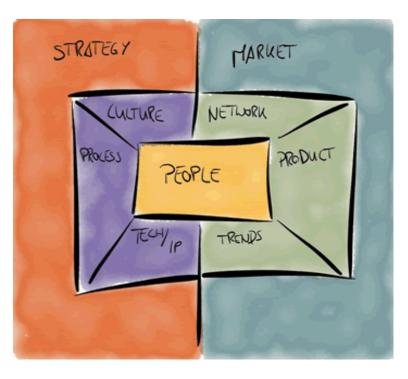
## TEAMWORK





#### **Corporate culture**

- Organizational structure
- Leadership style
- Business Model
- Knowledge management



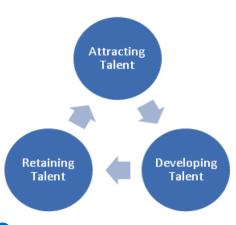
"...technology is only 20% of the picture. The remaining 80% is people. You have to get the culture right". David and Fahey (2000:13)

#### **Human capital is KEY**

- Talents
- Multidisciplinary teams
- International/ Intercultural perspective



**Education and Training** 





#### **International Space University**



Since its founding in 1987, ISU has graduated more than 3900 students from over 100 countries. Together with hundreds of ISU faculty and lecturers from around the world, ISU alumni comprise an extremely effective network of space professionals and leaders that actively facilitates individual career growth, professional activities and international space cooperation.

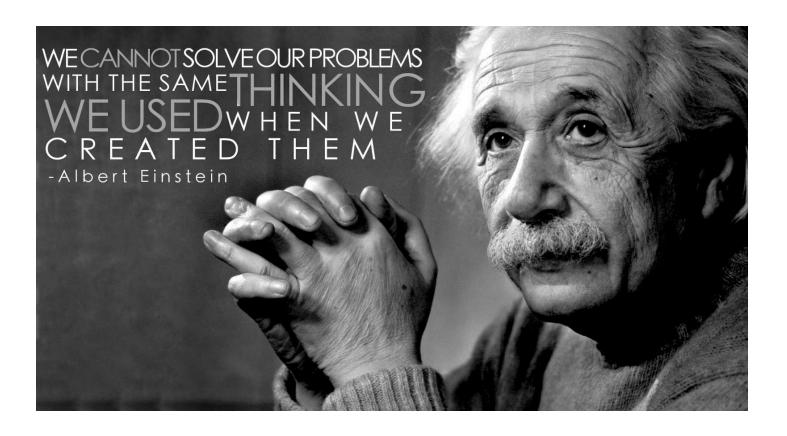


# 3l'S: International, Intercultural and Interdisciplinary





# Conclusion: "a different approach for different challenges"





# Motivating the next generation it is about...

- Dreams
- Open Innovation and collaboration
- Education and training

Motivating, **inspiring** and **empowering** 



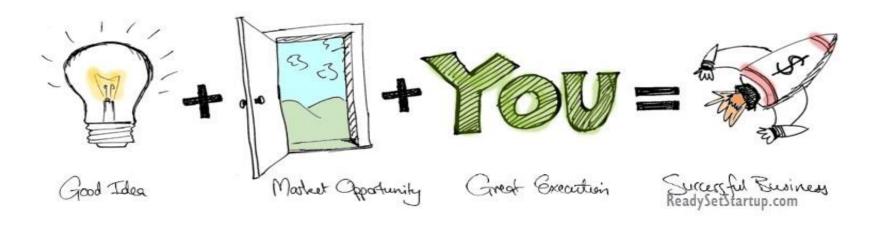






# The future of the Commercial Space industry

Pixar CEO's Ed Catmull (Hill et al. 2014): innovation in space is "not just about making up how to do [rockets, but about] making up how to run [organizations] of really diverse people who can make something together that no one could do alone"







## **THANK YOU**

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