Open innovation in Manufacturing industry in Peru

TII and Bio Asia Innovation Conferences 2015
Singapore, 18-22 May 2015

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Context

• Economic Growth
• Jobs Creation
• Innovation
• Industry Developing
• Poverty Alleviation
• Stake Holder Returns
Context

- Environmental Degradation
- Forest and Biodiversity loss
- Displacement of native people
- Land Acquisition
- Corruption
Perú

– **GDP**

Peru's GDP increased by 6.9% (2013). The GDP over 2014 reached 2.35%.

– **Economy mainly based on natural resources**
  
  • Products: Gold, silver, fish, agriculture.
  
  • Mining, manufacturing, construction sectors leading the growing of the economy

– **Environmental and social issues are very important specially in provinces.**
– In order to economic growth, it is required the diversification of the economy.

– Levels of investment in Research & Development is very low (0.15% of GDP) compared with Chile 0.65% and Mexico 0.43%.

– Firm’s innovations consist basically of incremental changes.

– R&D investment is prohibitive (financial and human capital needed).
The Peruvian government has a long term plan to promote the innovation in the manufacturing sector.

The following programs are:

- FINCYT (Fund for Innovation, Science and Technology)
- FIDECOM (Fund for R&D of Competitiveness)

- These programs finance technological innovation projects in businesses and research projects in universities and promote of highly qualified human capital.
Preservation of brown algae (Macrocystis spp)

- Traditionally, there was an exploitation of this resource and exported as a raw material.
- Government financed the innovation of the joint of an enterprise and an university in order to cultivate this resource and produce fertilizers and food for shrimps with added value.
- Through a sustainability approach: the community, the environment and the enterprise become to win.
Native plants for cosmetic use

Validation of characteristics of Andean and amazonic plants:
• Cat’s claw
• Yacon
• Maca (Ginseng Péruvien)
• Camu camu
• Achiote
• Purple corn

Results>
Production of cosmetic and antiage products
Standarized production of specialty coffee

- Organic
- Trade fair
- Standard of SCAA
Production and commercialization of spirulina in the south of Peru

Dietary supplement
– The results of the programs are:

  • 200 projects – enterprises and 100 projects – universities.
  • The strengthen of the human resources involved training, scholarships, and technological missions.
  • There are more than ten applications for patents.

– The effort of the promotion of the innovation must be continue.