



Dr. Kayyali Mohamed, CEO

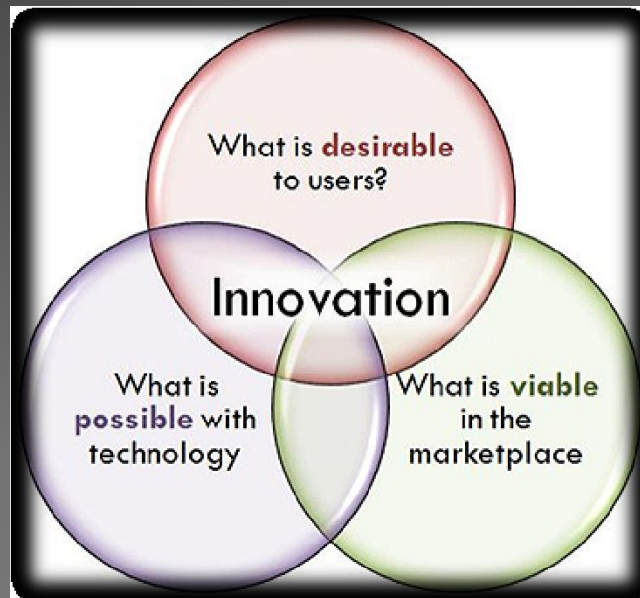
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Today, most of the innovations are limited with developed countries like USA, Japan and Europe while developing countries are still behind in the field of innovation and management of technology.

But it is also becoming a subject for rapid progress and development in developing countries.

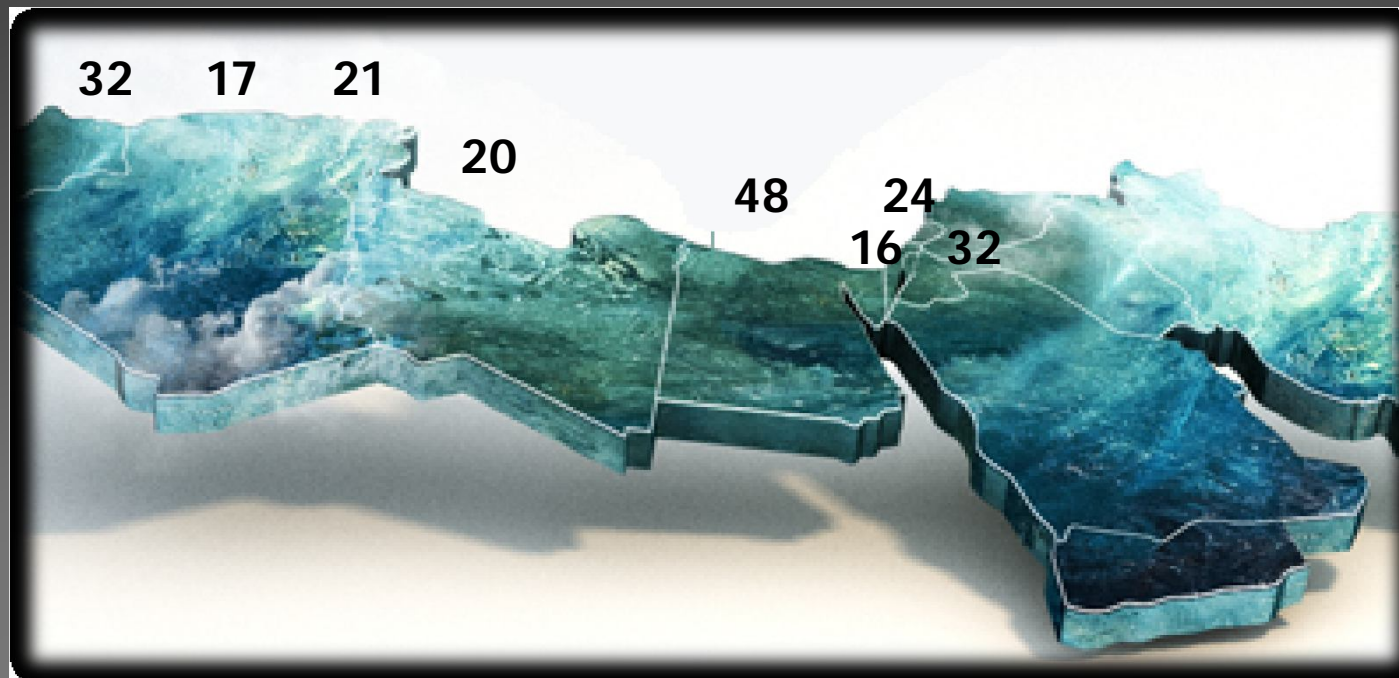


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- Creative industries & relation to business incubators
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Innovation and technology environment in developing countries are by nature, problematic, characterized by poor business models, political instability and governance conditions, low education level and lack of world-class research universities



Los 5 puntos y numero de univ no significa nada

Not only Silicon Valley

U.S.A's **IBM and Apple**

Japan's **Sony**

Finland's **Nokia**

Switzerland's **Novartis** (Pharmaceuticals)

South Korea's **Samsung**

These companies also hold many important patents. They have established state-of-the-art research and development (R & D) labs and are heavily investing in new ideas.



The world's top most 50 innovative companies belong to developed countries



Estube aya los 5
conty 19 anos R&D
y business

Los tigres asia fue
6% 10 anos atras

Define the Challenges



Quantos patente
tenemos y CTO mng

Issues in Developing Countries

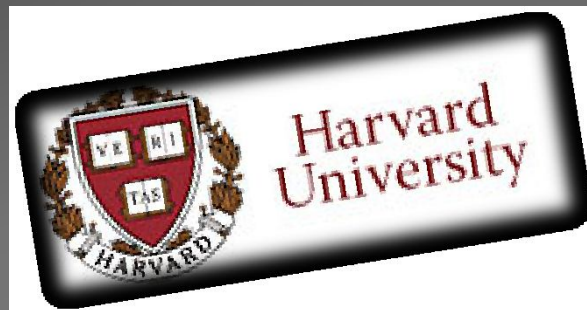
The innovation process and technology management is emerging field in the developing-world companies. Innovation and technology environment in developing countries are by nature,

- ✓ **Poor** business model
- ✓ **Government** conditions
- ✓ **Low** education level
- ✓ **Poor** management of technology
- ✓ **Poor** condition of infrastructure



The world ranking of top 500 universities , only 3% universities belong to developing countries and remaining 97% world top ranking universities belong to developed countries (North America: 44%, Europe: 34%, Asia: 19%).

The academies of these top ranked universities have also strong affiliations with entrepreneurs and most of the academies are also entrepreneurs by themselves.



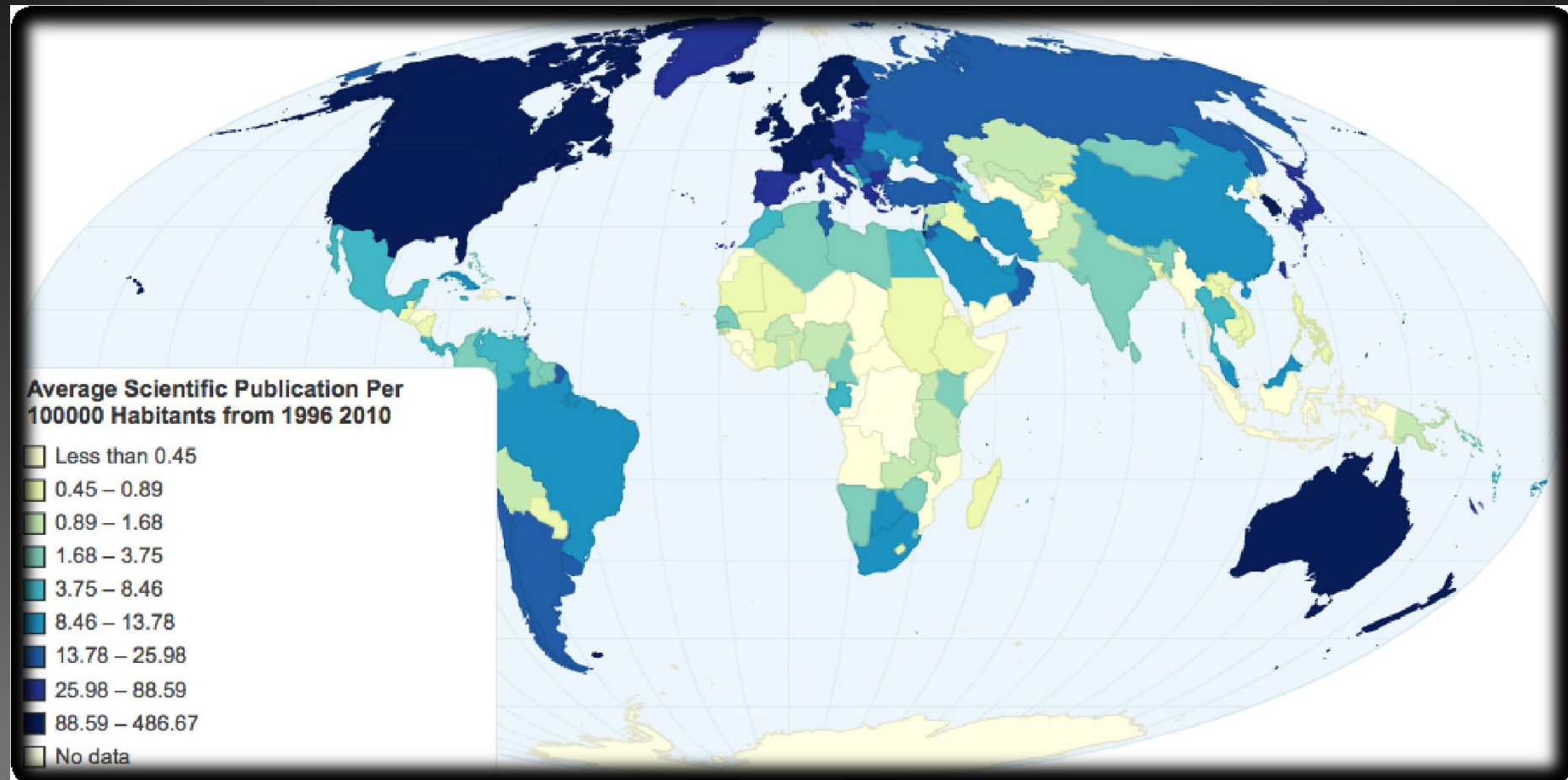


Graduated from the U.S or European universities on returning to their countries approach their responsibilities in their own country seeking to transfer what they have learned to their own home environment.



Wrong env

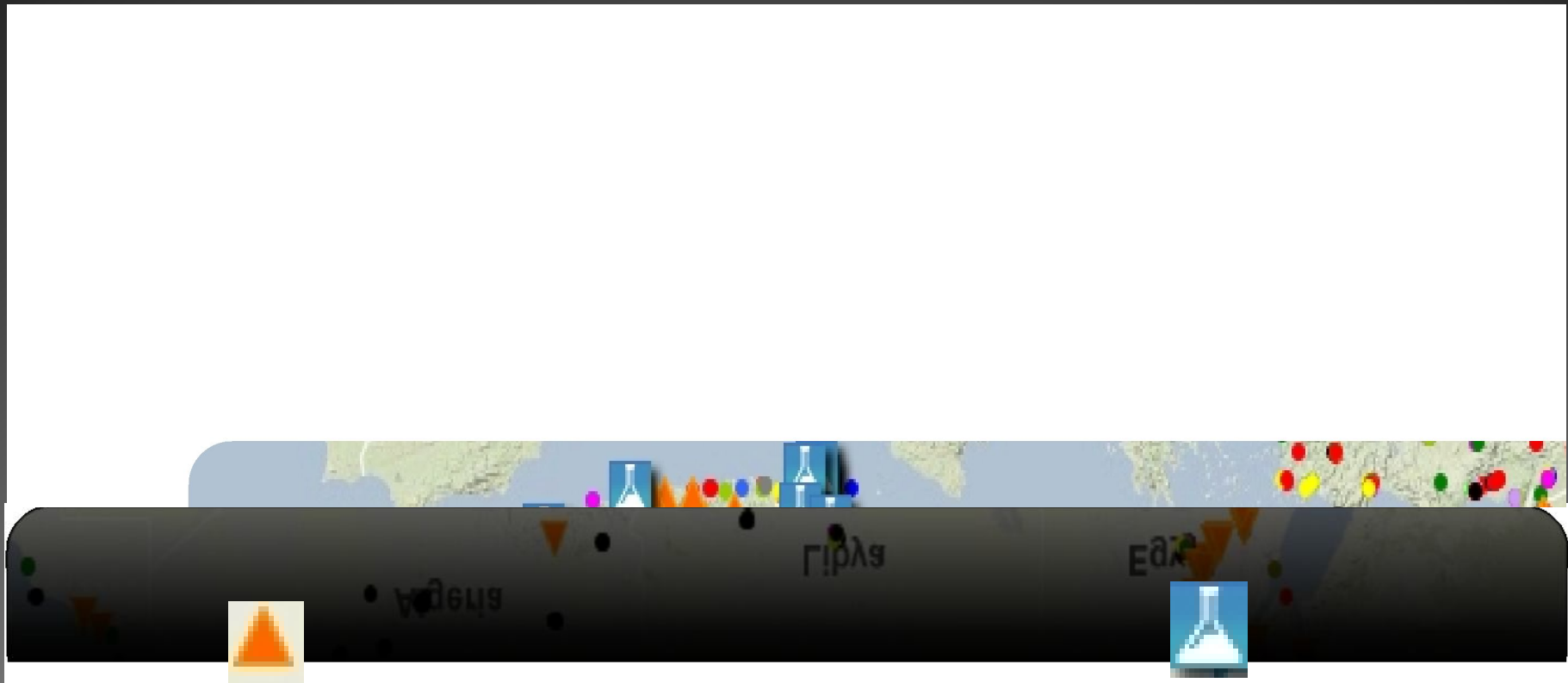
Publications indicators worldwide (2 Years before)



Publishable & Applicable results

On Shelf patents

Relation to Industry & Technology



Innovation and technology at grass root level in developing countries is a new emerging attention. These innovations may not be commercialized at global level but these can be new sources of innovation at national level.

The real problem is to:

- ✓ Identify
- ✓ Objectify
- ✓ Patent these innovations
- ✓ Commercialize it at national level

Research in developing countries is limited to:

- ✓ Publications
- ✓ Develop link with industry
- ✓ Business modeling



Proposed Solution

The government should also take initiatives for improvement of existence infrastructure and development of new infrastructure.

- ✓ To facilitate the proper exploitation of such knowledge in innovation process
- ✓ Researchers to be trained toward meeting specific developing countries
- ✓ Eliminate country's policies and constraints towards R&D processes
- ✓ Develop Quality research result by maximizing number of publications among world notable journals
- ✓ Empower the business technology model for future expansion among world market

How to measure quality across Industries and Businesses

- Creating transparency
- Enabling experimentation to discover needs, expose variability, and improve performance
- Segmenting populations to customize actions
- Replacing/supporting human decision making
- Innovating new business models, products, and services

The missing QUALITY of Business & Research



Creative industries as a whole tend to have difficulty marketing outside of their region, because of a lack of general business skills. They tend to rely on their local shops, publishers and advertisers to find customers.

Innovation Idea + Tools + Validation = Success Business Trip

Thank You,



Got a Question ?



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