

## Technology Transfer

### UN ESCWA Technology Centre

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1

## Background

- Slowly patented innovations diffuse throughout taking decades to become the new standard.
- Simple model of 'transferring' technologies from developed to developing countries is insufficient and making our region "consumers"
- No real "knowledge" is being transferred

## Major Regional Needs

- Job creation for youth,
- Science and Innovation not connected to the Economy
- Acquisition of STI capabilities and benchmarking progress,
- Identification of priorities and diffusion of best practices,
- Facilitation of agricultural and industrial growth and competitiveness,
- Improving management of natural resources and environment.

3

## Arab R&D System is Promising Potential

- 1970-2010; Arab R&D output increased 33 fold.
- By 1950 only 10 universities, over 500 in 2010.
- Underutilized: in 2007 Arab Scientific Publications 15,000 (level of Brazil and S Korea in 1985).
- In 2008 Arab spent \$16.26 Billion on higher education for 6.62 Million students.
- Arab S&T resources are not raising issues and finding solutions.
- Challenging to utilize over 200 Mil literate and over 200,000 PhD holders Unable to connect with local economy: (80% of Arab PhD Emigrate)
- Arab recruiting massively abroad while unemployment is threatening, 2/3 Arabs <25 yrs old and around 20% unemployment?

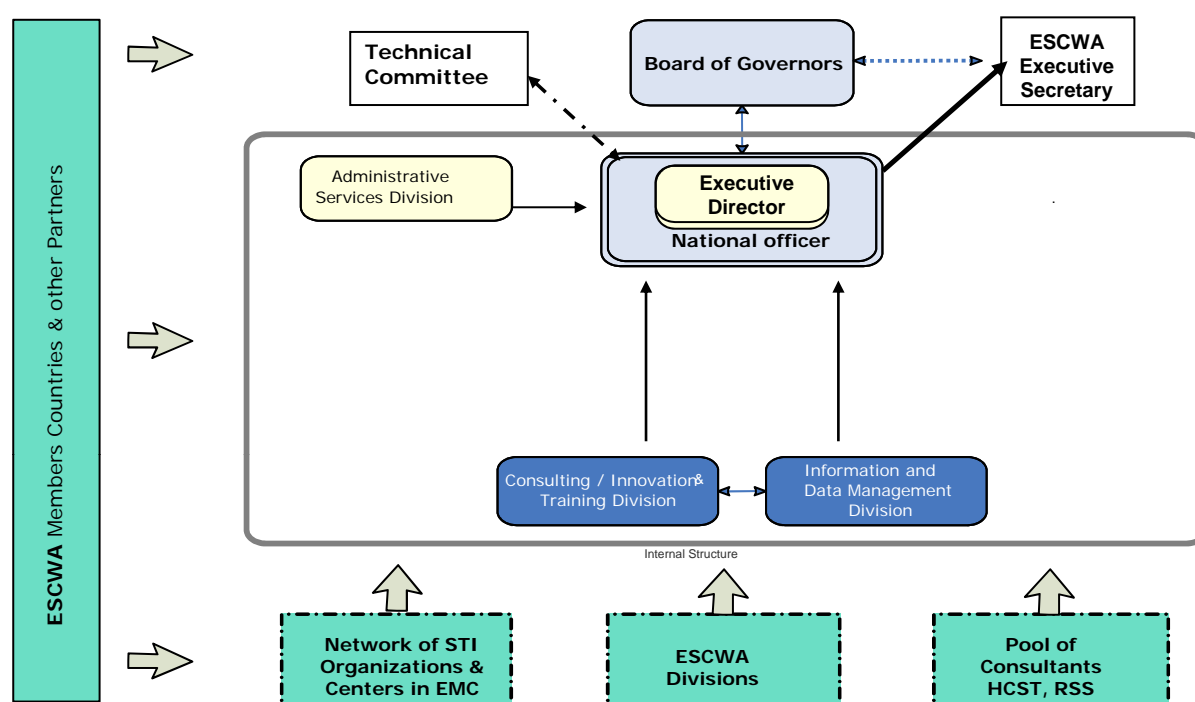
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## ESCWA Technology Centre Objectives

- To contribute to the strengthening of national STI systems
- To develop capabilities in problem solving and policy formulation
- To foster synergy and complementarity at the regional level in the application of technology

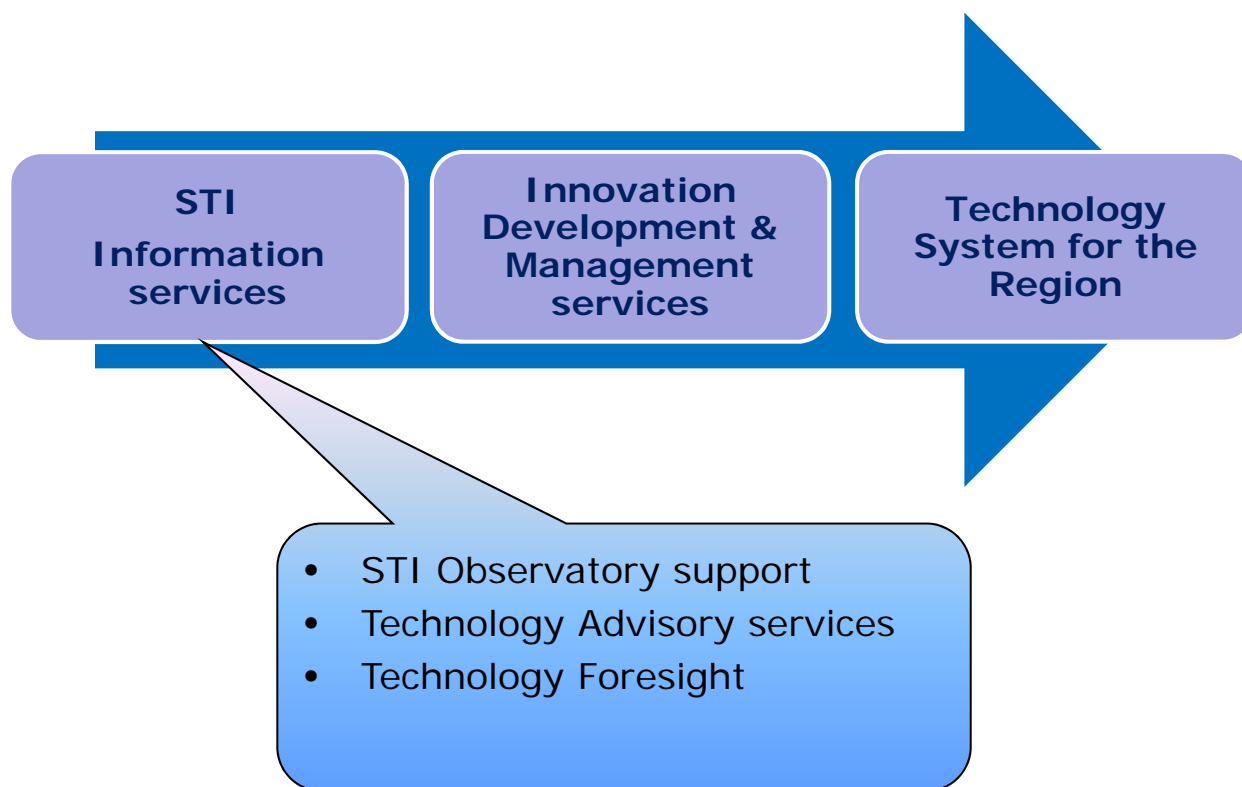
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## ESCWA Technology Centre, Amman - Jordan



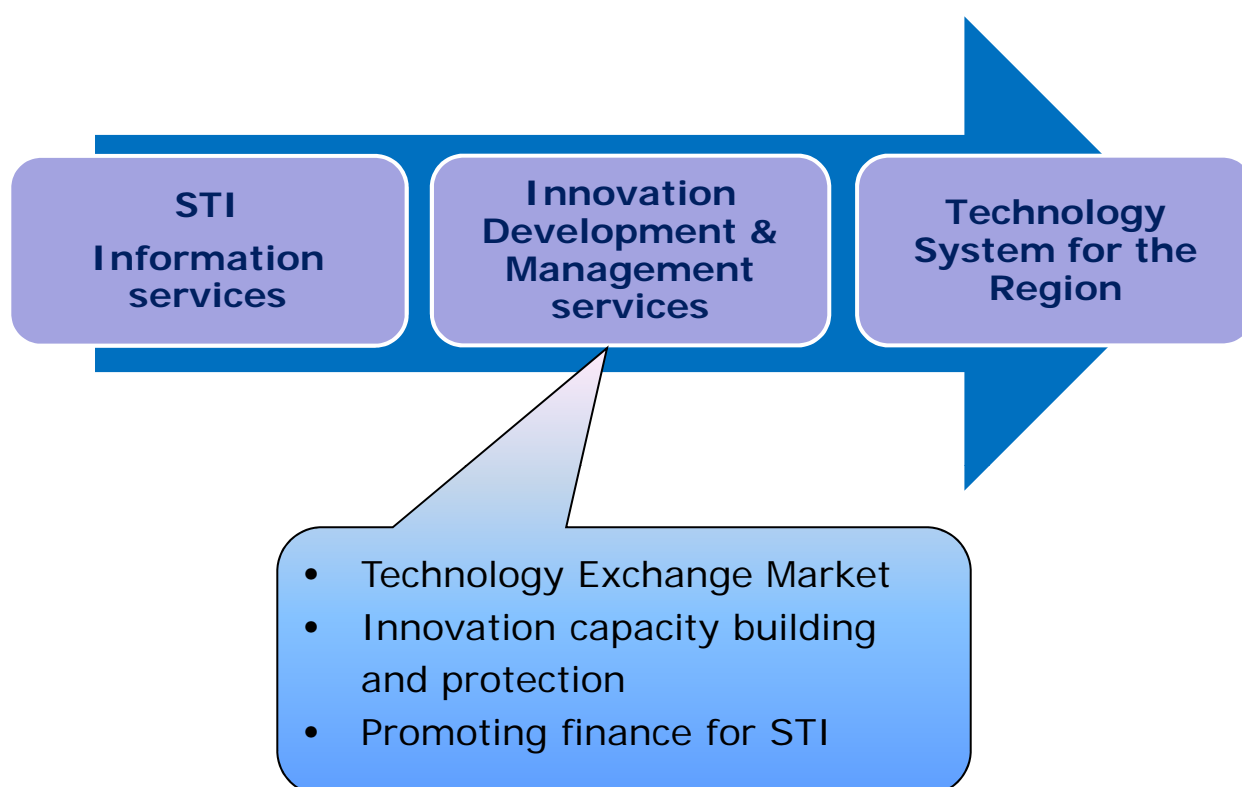
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## ETC Activities



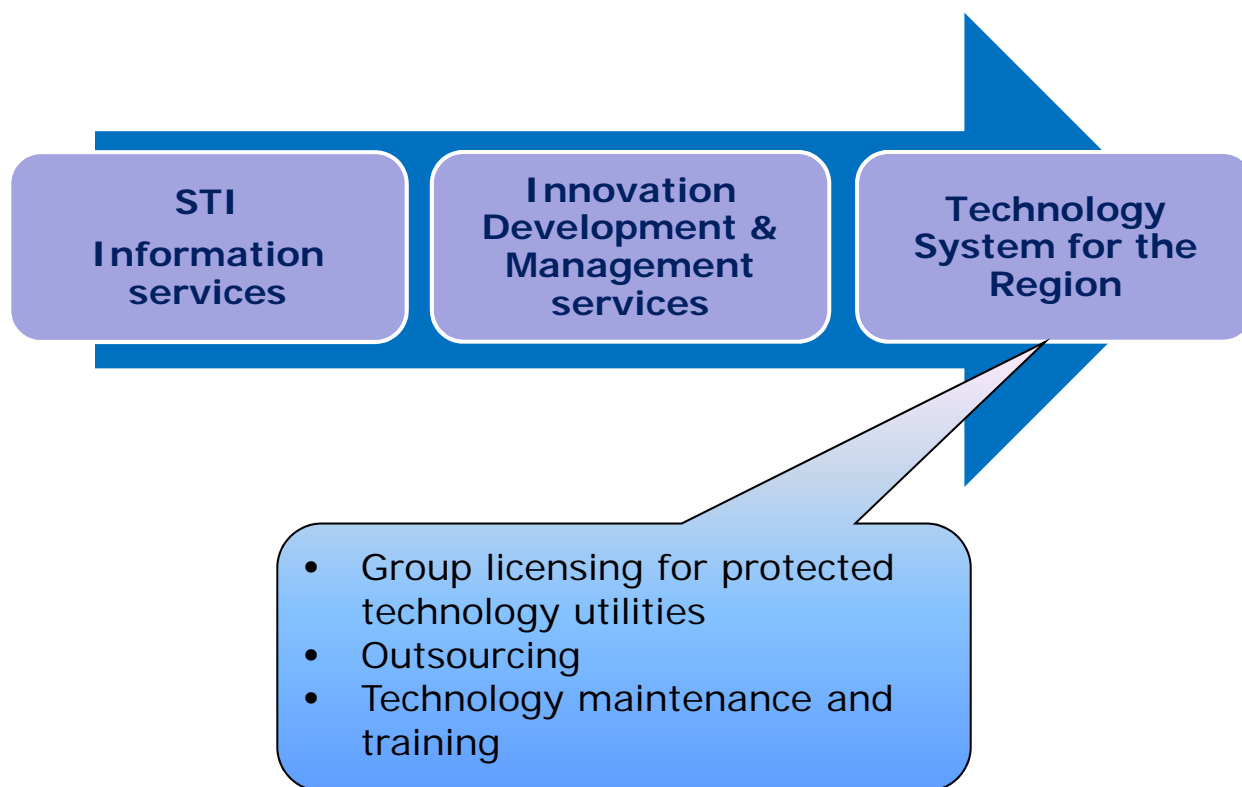
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## ETC Activities



8

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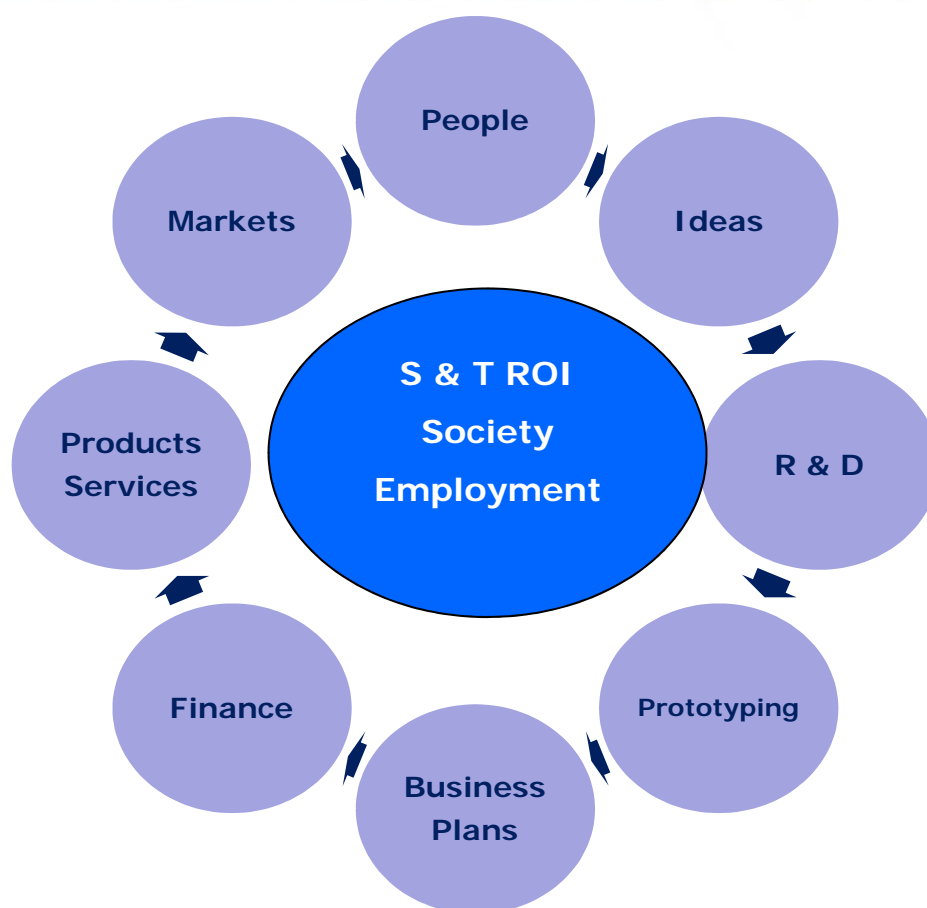


9

## Domains of Attention

- Construction industry
- Industrial technologies
- Energy
- Agriculture
- Water
- New materials
- Information and Communication Tech

10



## Meeting on Promotion of S2S Cooperation in TT

(20-21 April 2011) Amman-Jordan

- Developing mechanisms to reach the beneficiaries of the ETC, as well as a plan for sustained funding correlated with success indicators;
  - *ETC Board of Governors meeting 15 Nov 2011 Amman*
  - *MOU between ETC and represented National Institutions*
- Adopting ICTs as efficient, fast and affordable tools for transferring technologies in various areas of interest;
  - *ETC Web site under construction (Jan 2012) featuring 'Virtual Technology Market Exchange'*



## Meeting on Promotion of S2S Cooperation in TT

(20-21 April 2011) Amman-Jordan (Cont.)

- Developing appropriate technology selection and transfer models that includes knowledge along with equipment's for the region;
- Developing technology transfer success criteria and indicators.
  - *STUDY Dec 2011: Develop economic model for technology deployment in the various productive sectors (construction, water, ENERGY, agriculture, mfg, new materials, ICT)*
  - *STUDY Dec 2011: Customize an innovation intellectual property creative system (practical and AFFORDABLE)*
  - *STUDY Jan 2012: Financing Technology Transfer and Innovation Advice roadmap and support guide*

## ETC - TT Meetings in 2011

### Promotion of South-south Cooperation in Technology Transfer

20-21 April 2011, AMMAN

&

25-26 October 2011, Beirut



FCCIAL

Federation of Chambers of Commerce, Industry and Agriculture in Lebanon

### IP & Technology Transfer for Universities & Research Institutes

November 16-17, 2011, Amman



WORLD  
INTELLECTUAL  
PROPERTY  
ORGANIZATION



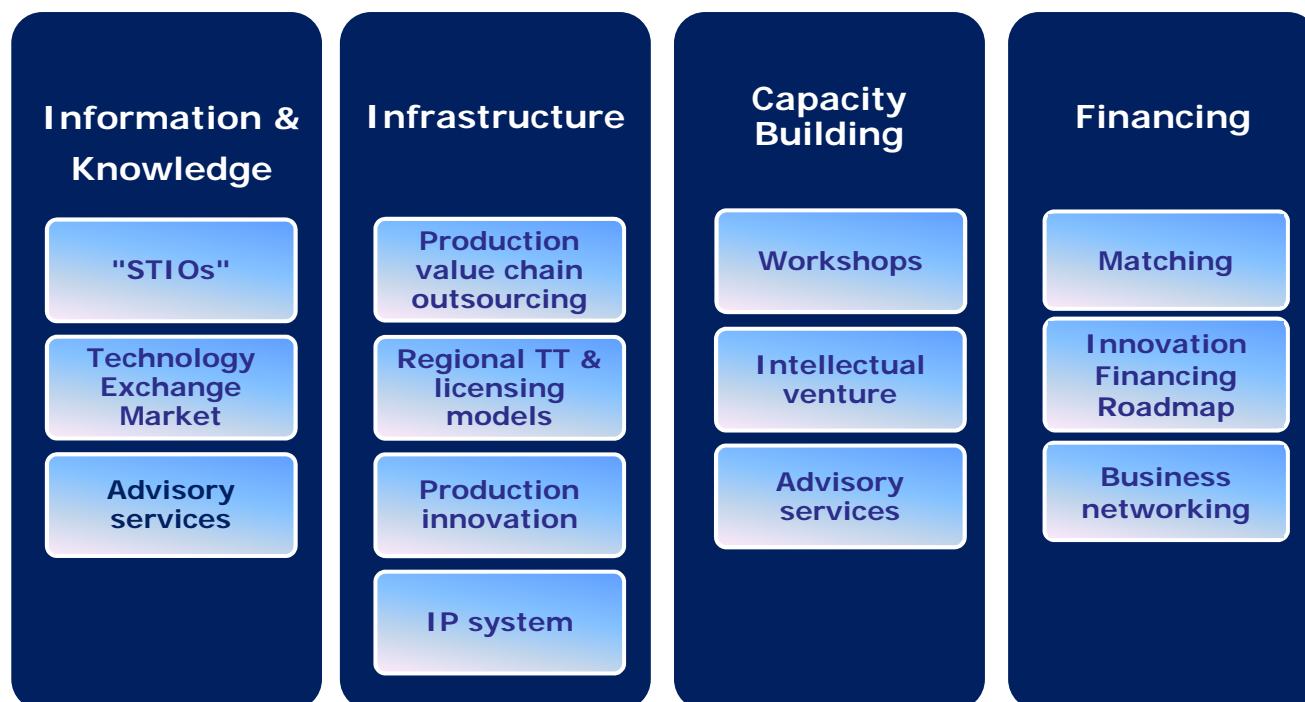
### Makinat LEBANON

The International Trade Exhibition & Conference for Industrial Machinery, Machine Tools, Equipment & Technology for the Middle East

6-9 December 2011, Beirut



## ETC Work Plan 2012-2013



## Conclusions

- Technology PARTNERSHIP is needed
- Within the country (University – Industry)
- Within the region
- South 2 South 2 North
- Partnerships with local universities, technology suppliers, and production sector

**THANK YOU**