Economic and Social Commission for Western Asia

ESCWA
TECHNOLOGY CENTRE

The Wheel of Technology and Innovation for Agricultural Technologies Acceleration in the Arab Region

Conceptual approach

International Forum on Innovation in Agri-Food Systems to Achieve the SDGs. Zoominar VII - 18 June 2020

Shared Prosperity **Dignified Life**

UNITED NATIONS
الاسكوا
ESCWA

Kareem Hassan

Executive Director of ESCWA Technology Centre

Agricultural Technologies Challenges in the Arab Region

Shortage of Applied Knowledge in Arabic
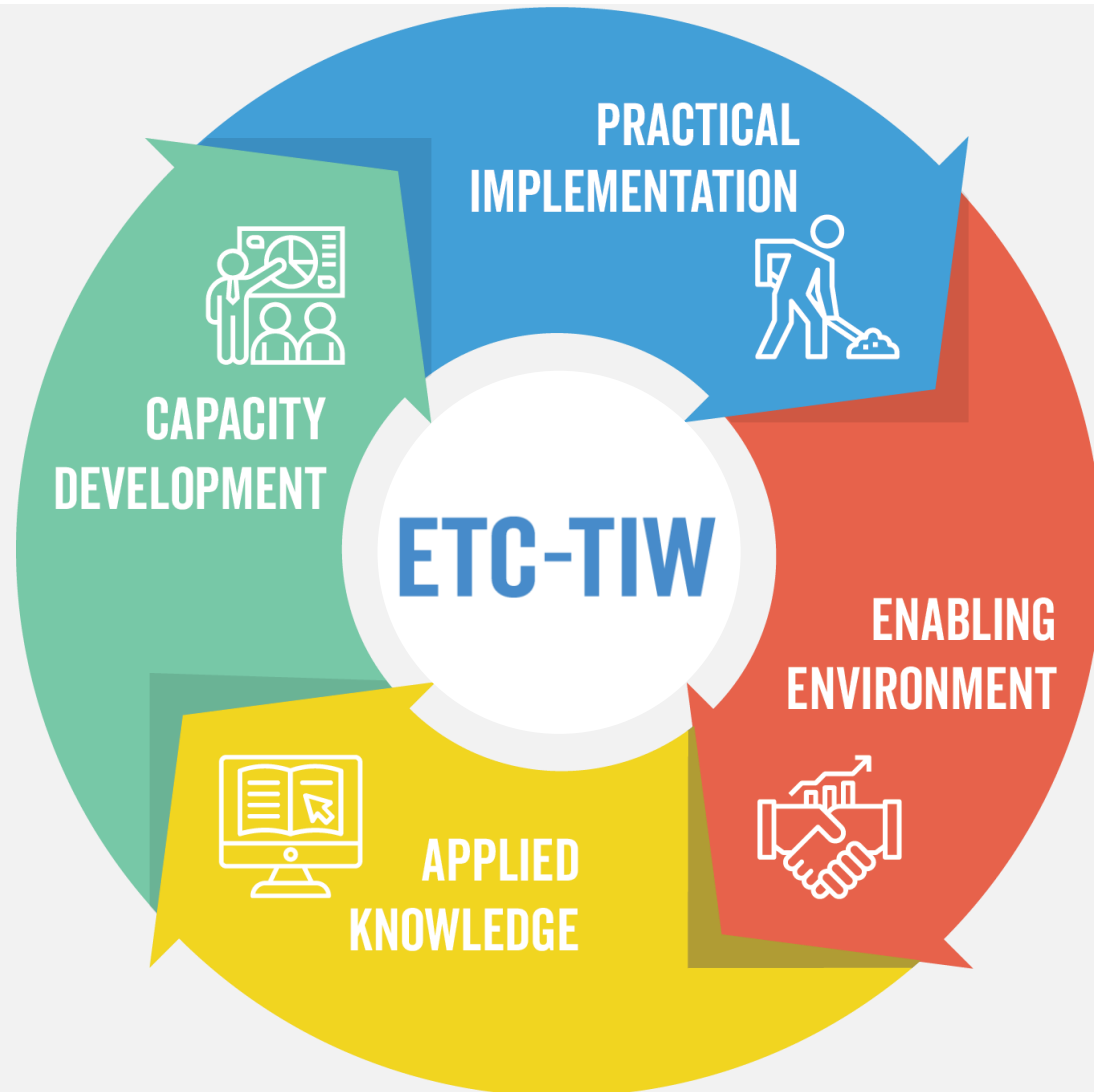
Lack of Skills and Abilities

Inefficient Financial Management

Support cycle deficiency
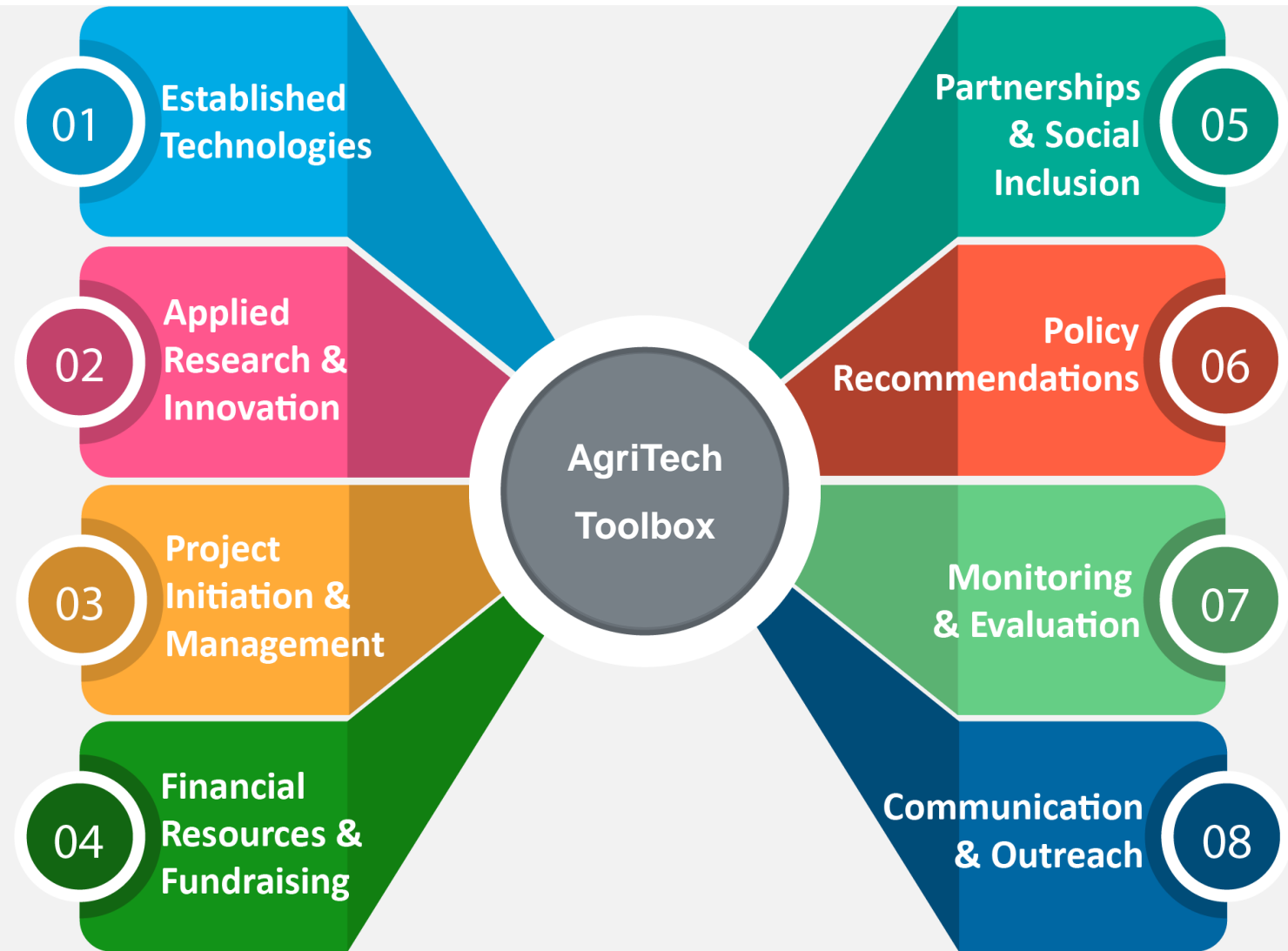
ETC's Technology and Innovation Wheel

This conceptual approach is based on 4 main pillars that shape its wheel:

- *Pillar 1:* Promoting open **applied knowledge**.

- *Pillar 2:* Emboldening the local technological **capacities**.

- *Pillar 3:* Encouraging the **implementation** of appropriate technologies.

- *Pillar 4:* Advocating local and regional **enabling environments**.
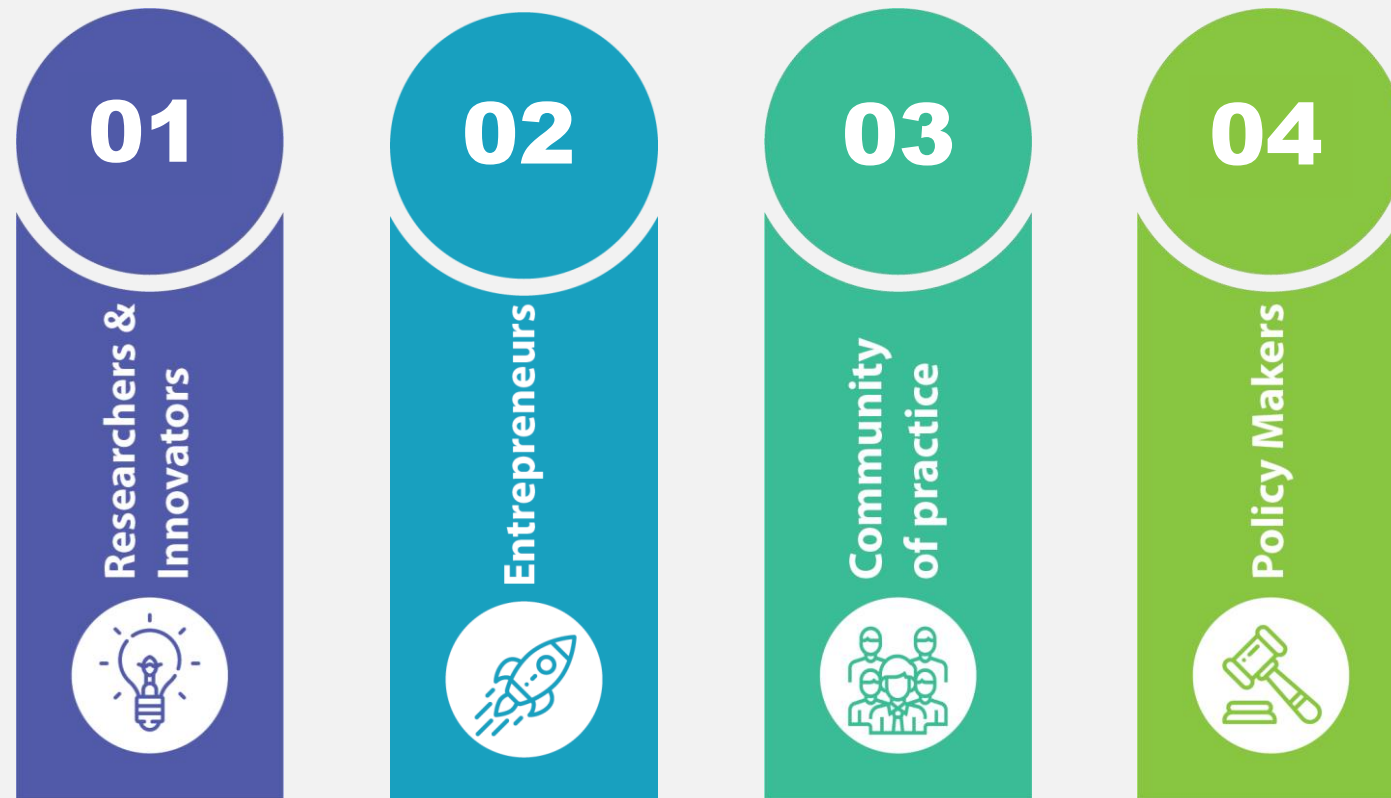
Pillar 1: Applied Knowledge

The AgriTec Toolbox will consist of 8 bodies of knowledge that integrate and offer a multidisciplinary understanding of Agricultural Technologies and their appropriate application in the Arab Region.

It will help SMEs, Entrepreneurs, Policy Makers, and End Users to properly select the most relevant technologies to their context, and support them throughout the implementation process.

01 Established Technologies

02 Applied Research & Innovation

03 Project Initiation & Management

04 Financial Resources & Fundraising

05 Partnerships & Social Inclusion

06 Policy Recommendations

07 Monitoring & Evaluation

08 Communication & Outreach

AgriTech Toolbox
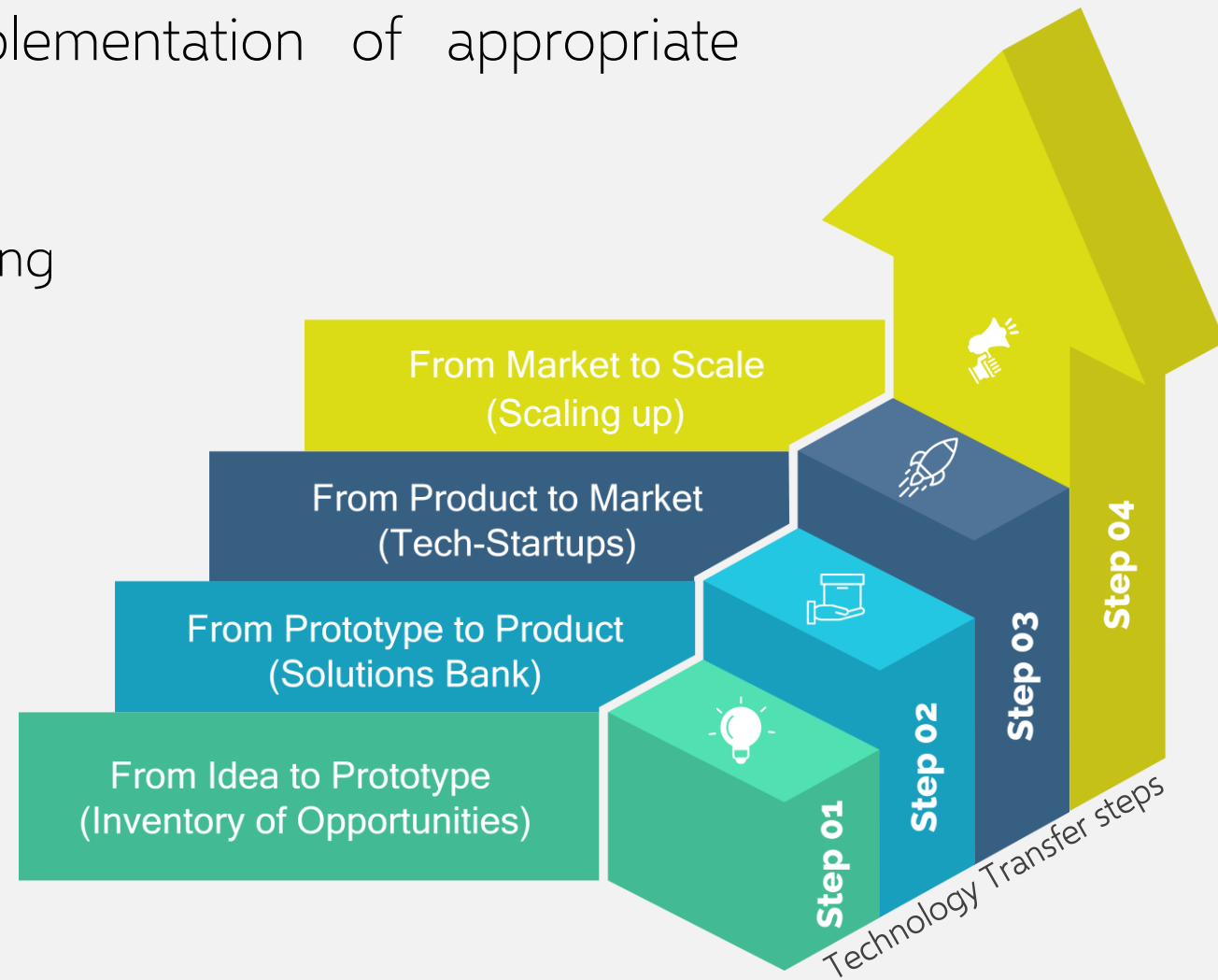
Pillar 2: Capacity Development

Building the capacities of local stakeholders to be able to design, develop, implement, utilize, and upscale technologies and innovation in Arab countries. The trainings will be online, offline and blended learning, which target the following 4 groups:

01 Researchers & Innovators

02 Entrepreneurs

03 Community of practice

04 Policy Makers

Pillar 3: Practical Implementation

Supporting the full cycle of local implementation of appropriate technologies by serval means:

4. Promoting successful technologies and helping them to scale throughout the Arab region.

3. Introducing solutions to the local market. Building a community of Arab Tech Startups.

2. Developing professional local solutions. Documenting them into a "Solutions Bank".

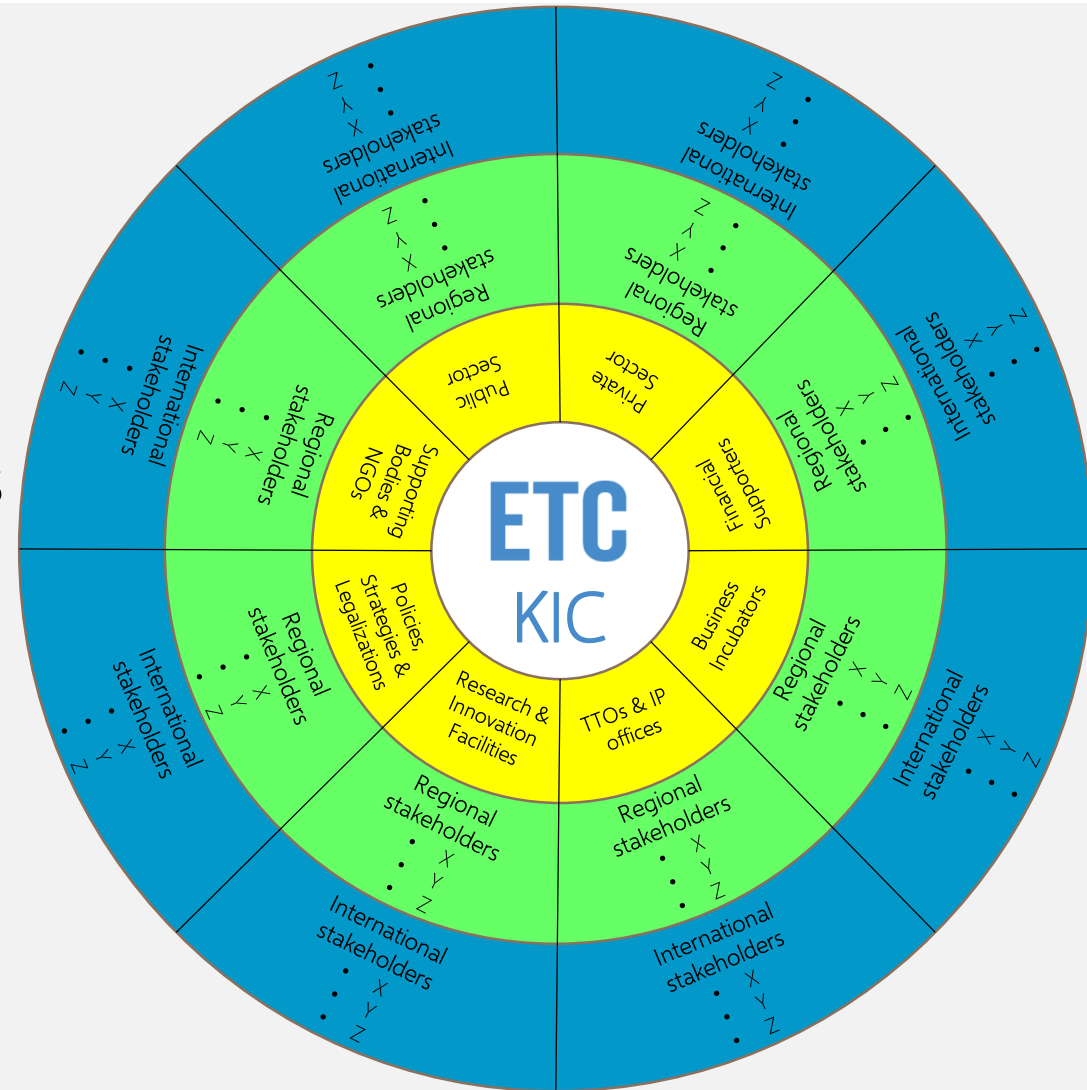1. Building prototypes of appropriate solutions. Warehouse "Inventory of Opportunities".

From Market to Scale
(Scaling up)

From Product to Market
(Tech-Startups)

From Prototype to Product
(Solutions Bank)

From Idea to Prototype
(Inventory of Opportunities)

Step 01

Step 02

Step 03

Step 04

Technology Transfer steps

Building local Knowledge and Innovation Communities (KICs), In order to support the technology transfer processes at the local and regional levels.

Each KIC will consist of several entities representing the whole AgriTech ecosystem.

These bodies and stakeholders are classified into 8 categories as following:

Thank You!

Kareem Hassan

kareem.hassan@un.org