

ALIGNING RESEARCH PRIORITIES WITH GLOBAL NETWORKS

Driving Innovation and Impact For Libya
Through International Collaboration

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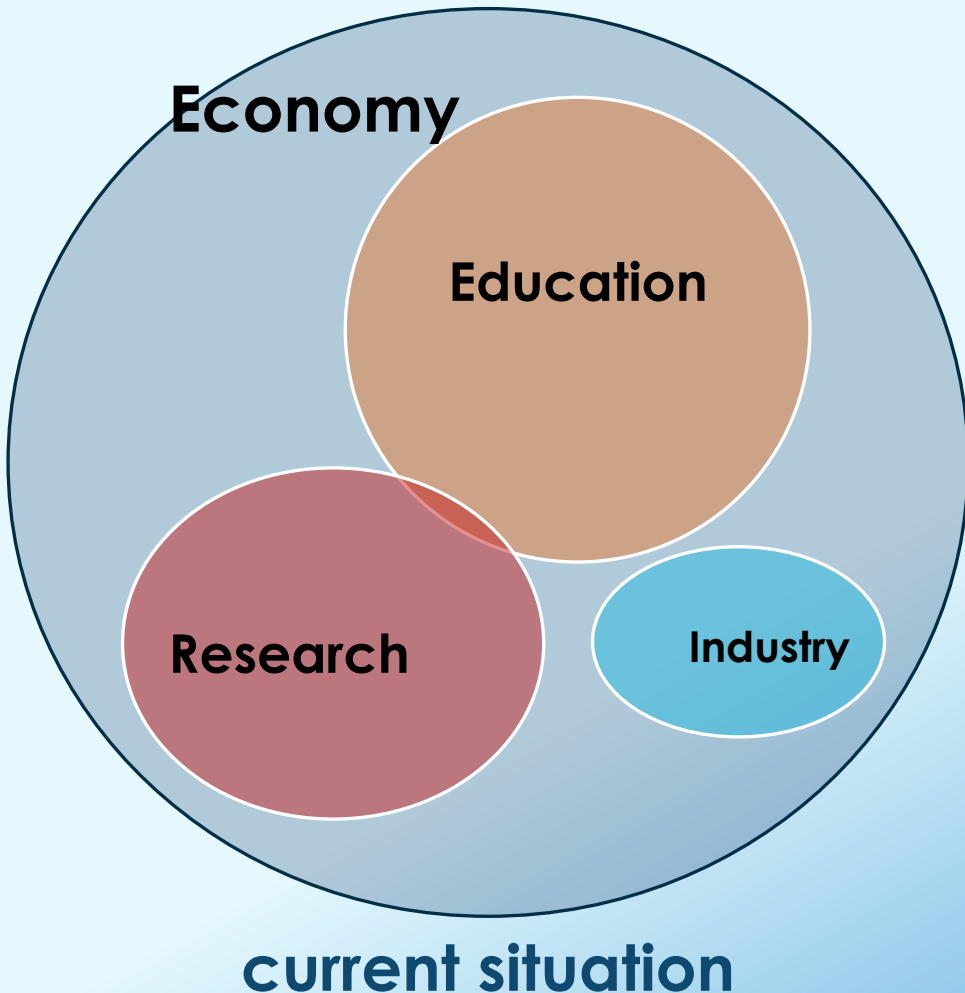
LIBYA'S NATIONAL RESEARCH PRIORITIES

Research Areas:

- ▶ Water resource management and desert effects
- ▶ Climate changes impact.
- ▶ Renewable energy and sustainable infrastructure
- ▶ Digital transformation and STEM education
- ▶ Public health research

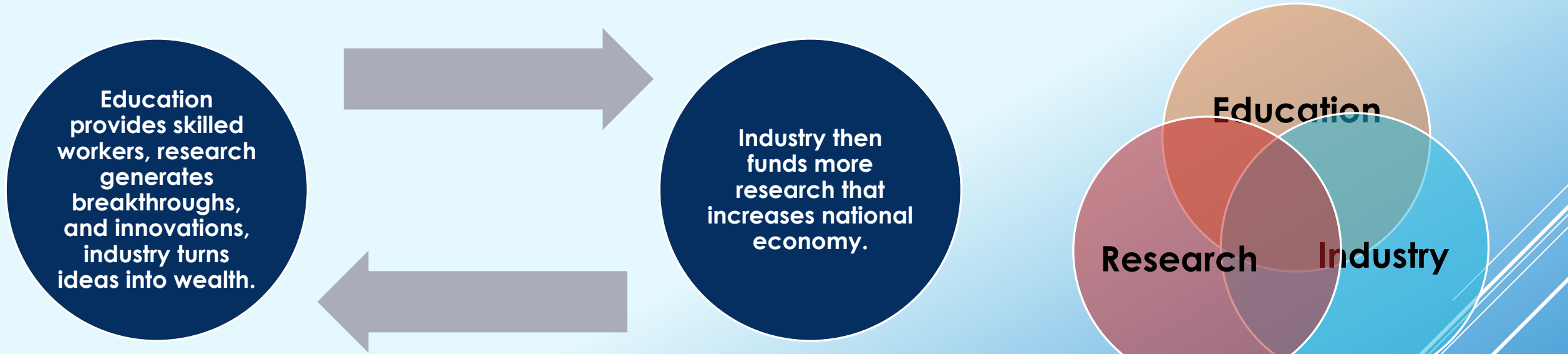
Many of these topics are already covered in ongoing or open COST Actions — making them ideal entry points for Libyan researchers.

EDUCATION, RESEARCH AND INDUSTRY



- ▶ important pool of academic talent but **limited international linkages**.
- ▶ High potential for engagement in interdisciplinary, international research.
- ▶ **Lack of structured participation in International applied research programs.**
- ▶ **Fragmented funding**

EDUCATION, RESEARCH AND INDUSTRY TO IMPACT ECONOMY



- South Korea's Economic Miracle
- 1960s: **Poor, weak economy.**
- Invested in education & R&D: **Heavy focus on engineering and tech.**
- Result: Home to Samsung, LG, Hyundai – now a top-10 global economy.

OPPORTUNITIES FOR INTERNATIONAL ENGAGEMENT

- ▶ **Identify and support** Libyan researchers to join existing Actions.
- ▶ **Encourage participation** in Short-Term Scientific Missions (STSMs).
- ▶ **Promote COST** as part of university and institutional internationalization strategies.
- ▶ **Focus on applied research in technologies, environment, energy**, where online or distant learning is possible (software, modeling and simulations, ...).
- ▶ **Share HPC and software tools and research labs**, and joint publications.
- ▶ **Arrange Workshops and training** to academic staff and postgraduate students

LIBYAN ACADEMY RUNNING MSC AND PHD PROGRAMS

- ▶ PhD and Msc programs
 - ▶ Local programs for PhD studies in Engineering, Economy, Physics , and health
 - ▶ Running Msc programs 130 Msc Programs
 - ▶ Running PhD programs **
- ▶ field, wind solar and hydrogen energy, environment, health, climate change impact, artificial intelligence ...etc (**More practical**)

METHODS OF ACTION

- ▶ Assign COST-national team from all Academic and Research institutions in Libya. (**already discussed last meeting**)
- ▶ Assign COST-focal point in each field, energy, environment, health, climate change impact, artificial intelligence ...etc (**More practical**)