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Centers and Institutes

Introduction

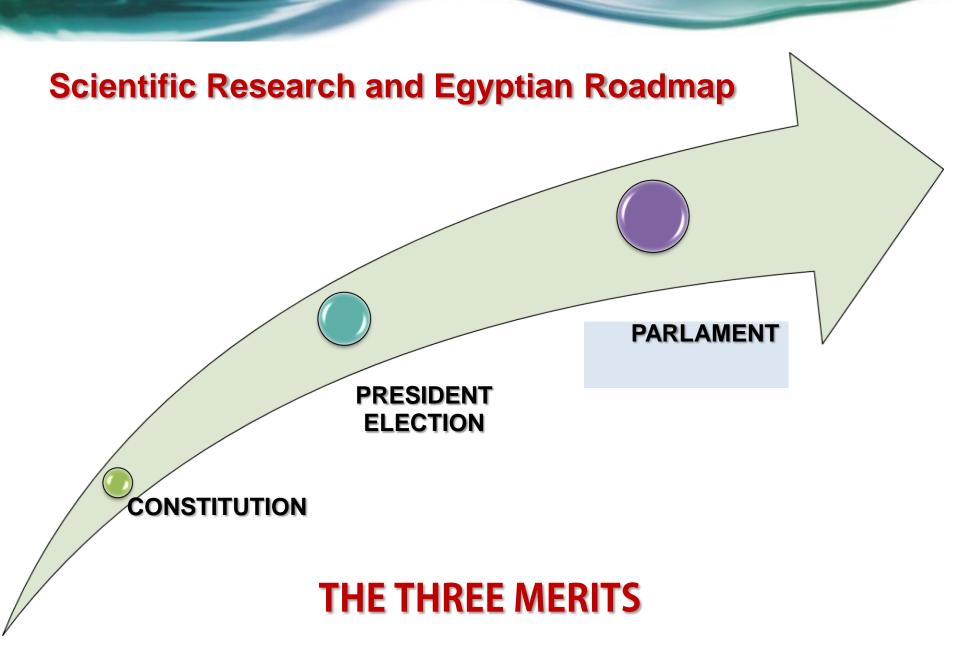
In today's global economy, Science, Technology, and Innovation (STI) have become key drivers of economic growth and sustainable development.

This is true for advanced economies such as the US, Japan, and Finland, as well as emerging economies such as South Korea and Malaysia.

Reaching of competitive advantage, wealth creation, and improvements in social well-being can only be achieved through a robust STI ecosystem, a clear strategic vision, and complementary supporting policies. Thus, it is imperative during this transitional phase for Egypt to recognize the importance of knowledge as a crucial component development. It must demonstrate its commitment to creating and strengthening the necessary institutions and adopting a clear vision and strategy to support its transition into a knowledge-based economy.

Elements of Development in Egypt





البحث العلمي في الدستور کهیتور

مادة (۲۳)

تكفل الدولة حرية البحث العلمي وتشجيع مؤسساته، باعتباره وسيلة لتحقيق

السيادة الوطنية، وبناء اقتصاد المعرفة، وترعى الباحثين والمخترعين، وتخصص له نسبة من الإنفاق الحكومي لا تقل عن ١٪ من الناتج القومي الإجمالي تتصاعد تدريجياً حتى تتفق مع المعدلات العالمية.

المقومات الاجتماعية

الفصل الأول

الباب الثابي

المقومات الأساسية للمجتمع

كما تكفل الدولة سبل المساهمة الفعالة للقطاعين الخاص والأهلي وإسهام المصربين في الخارج في نهضة البحث العلمي.

مادة (۲٦)

حرية البحث العلمي مكفولة، وتلتزم الدولة برعاية الباحثين والمخترعين وحماية ابتكاراتهم والعمل على تطبيقها.

الباب الثالث الحقوق والحريات والواجبات العامة

Part I The basic components of the state The first chapter Social determinants

Art. 23

The State shall guarantee the freedom of scientific research and encourage its institutions, as a means to achieve national sovereignty, and building a knowledge economy, and sponsored researchers and inventors, and allocated (to the proportion of government spending) not less than 1% of gross national income gradually escalate so as to comply with global averages.

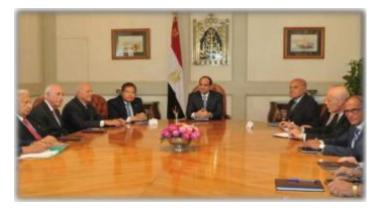
The State also ensure effective ways to contribute to private and national sectors and Egyptians abroad contribute to the renaissance of scientific research.

Part III Rights and freedoms and public duties Art. 66

Freedom of scientific research is guaranteed, and the state is committed to sponsor researchers and inventors and protect their innovations and work on its application.

Political level: President and Government

- > The formation of an advisory board to the president of the republic of distinguished scientists and experts.
- > The formation of the specialized council for education and scientific research.
- Encourage creative ideas: meet with "my idea" initiative young people.







Executive level: Ministry of Scientific Research (Methodology)

- ➤ Immediate access to spend 1% of national income on scientific research to ensure the constitutional balancing (current ratio of 0.7%).
- ➤ Adjust the science, technology and innovation system through the optimal use of resources efficiently and effectively.
- > The evaluation and follow-up of the system and determine spending channels and linking performance to efficiently target the National Priorities mechanisms.

Executive level: Ministry of Scientific Research (Executive steps)

- The formation of a working group (representatives from the MoSR, Ministry of Planning and other research institutions, government and civil society)to study and evaluate and modify Matrix of Science, Technology and Innovation.
- Improve the legislative climate it: Consider the required legislation to stimulate innovative thinking and encourage investment in scientific research.
- Develop a national strategy for Science,

Work group duties

Modifying the organizational structure of the matrix: remove inconsistencies in the roles and responsibilities between the elements of the array with a clear definition of the terms of reference in order to bring harmony and determine the required accounting mechanisms for performance tuning.

Determine the basic functions that must be performed by STI system.

Identify the entities involved in every function.

Define their respective responsibilities and authorities required and accountability mechanisms by which the performance and efficiency set.

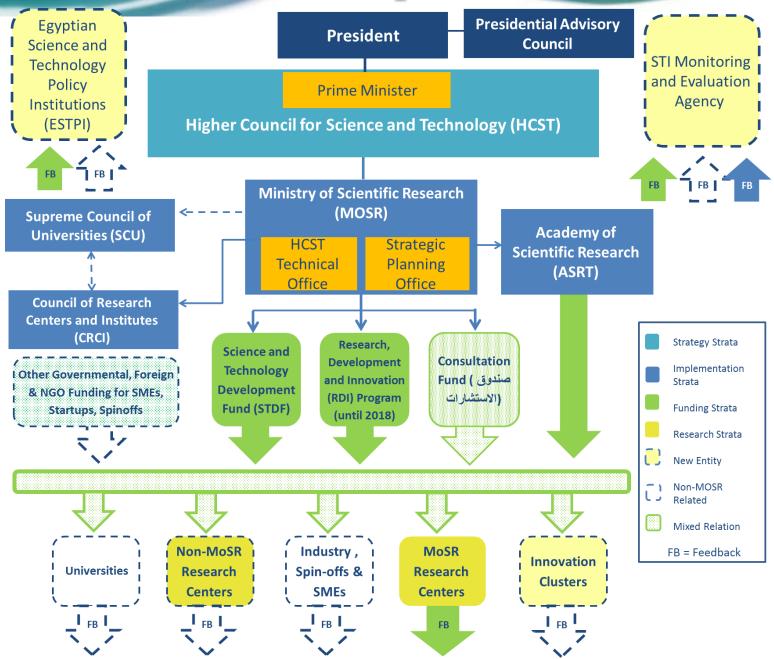
Preparation of the organizational chart of the STI matrix in Egypt and adding new entities to carry out the roles were absent in the present system.

Executive level: Important OUTPUTS

mportance		
l	Policy	70
	Policy making	18
	Policy coordination	18
	Policy advice / research	10
	Policy Implementation	24
2	Funding	51
	Multidisciplinary research funding	15
	Industry R&D funding	20
	Specialized priority area funding	16
3	Evaluation STI Policy & Program	49
	Academic and research Institutions	22
	STI Policies	12
	R&D Programs	12
	External Evaluation	3
	STI strategizing	42
	Setting the National Strategy	18
	Foresighting and analysis	12
	Following up on strategy implementation	12
	Coordination	23
	Industry - Academia Linkages	3
	STI Regional and International Cooperation	20
	High level Planning	18
	Budgeting	18
3	Research	6
)	Research Cluster Management	4

Main Function	Sub-functions	Responsibilities	Authorities	Accountability (KPIs)	Reports to
STI strategizing	Setting National Strategy	Set the national mission, vision, strategic objectives and priorities for Science, Technology and Innovation Provide guidelines for institutional reform related to STI to facilitate the implementation of the strategy Propose various draft laws, decrees, and regulatory procedures necessary to execute the STI Strategy.	To make the national strategy compulsory for all relevant entities To access all sources of information from all the entities involved in the formulation of the strategy	Having a well-established, declared, and well-communicated national strategy to all stakeholders. Sengagement from all stakeholders Issue a report every 3-5 years to analyze past developments, draw conclusions and progress of the strategy, and make proposals for the future	Reports to the Prime Minister
	Fore-sighting and Road mapping	Create an STI strategy roadmap with a clear distribution of roles and responsibilities for all entities involved Conduct studies and offer recommendations on the role of STI in furthering the national development goals Predict, analyze, and evaluate the key drivers of change in STI and their impact Perform technology trend analysis, technology foresight studies, technology level evaluation Identify the key technologies requiring national level investments and provide support for developing a technology roadmap Make recommendations based on these studies to aid in setting the national STI strategy	To impose the results of the studies it produces when forming the strategy and policies	Must issue periodic fore-sighting reports and other reports as requested by the entity setting the national strategy Contribution of new, recommended technologies to GDP increase and increase in levels of national investment Efficiency ratio of strategy-making process	Reports to the entity setting the national strategy
	Strategy Management	Manage different policies and programs that are being made to achieve the national strategy and goals Follow-up different activities to ensure the proper implementation of the strategy Evaluate the progress of the strategy and determine whether it needs to be adjusted	To monitor executive bodies where the strategy is concerned and evaluate their efforts to achieve its goals	Achieving goals of national strategy Issue reports on regular basis on the status of the STI strategy Extent to which strategy is well-communicated to all concerned executive bodies with clear roles and responsibilities for each	Reports to the Prime Minister
National Planning		Set 3 or 5 years plans to achieve the national strategy in conjunction with the entity responsible for setting the strategy Plan specific programs to achieve the national plan	To follow-up the implementation of the plans, policies and programs	Periodic evaluations will be conducted to assess the progress of the plans and programs Meeting the KPIs of the programs under the national plan Plan is well-communicated and coordinated	Reports to Prime Minister and Parliament

Executive level: Important OUTPUTS



Executive level: Important OUTPUTS

onsibilities	 Create/endorse an STI strategy roadmap with a clear distribution of roles and responsibilities for all entities. Provide guidelines for institutional reform related to STI to facilitate the implementation of the strategy. Propose various draft laws, decrees, and regulatory procedures necessary to execute the STI Strategy. Follow-up different activities to ensure the proper implementation of the strategy. Conduct studies and offer recommendations on the role of STI in furthering the national development go: contributions by different sectors of the society in the field of science and technology. 		
thorities	 To make the national strategy compulsory for all relevant entities To request information from other entities and agencies within the STI system relevant to the strategy fo To receive regular reports on strategy implementation 		
ntability/KPIs	 Having a well-established, declared, and well-communicated national strategy with clearly defined roles a responsibilities Will issue a report every 3-5 years to analyze past developments, draw conclusions and progress of the st make proposals for the future Achievement of national strategy goals 		

مصر تعتمد في البناء والتنمية على أجيال دائمة التعلم ومنتجة ومصدرة للمعرفة

الرؤية

تهيئة بيئة مشجعة للعلوم والتكنولوجيا والابتكار ورصد ومتابعة أداء جميع عناصر المنظومة في ضوء قدرتها على إنتاج وتسويق المعرفة وحسن استغلال الموارد المتاحة

الرسالة

مضاعفة إنتاج مصر من المعرفة بحلول ٢٠٢٠ والمشاركة مع قطاعات الدولة الأخرى في تضيق الفجوة الغذائية وتحسين الصحة وزيادة تنافسية الصناعات الوطنية والوصول بالمكون المحلي بها بنسبة لا تقل عن ٥٠%

العلم

والمجتمع

التعاون

الدولي

الهدف الاستراتجي

الفطة

اليات تنفيذ

المسارات

محاور

الخطة

777

إنتاج ونقل وتوطين التكنولوجيا

الصحة الصناعات والسكان التكتولوجيات لإستراتيجية والغذاء الجعيدة والبازغة والرأسمالية

*برامج ومشروعات بحوث وتطويروتنمية تكنولوجية - شراكات مع الصناعة الوطنية-نقل وتوطين التكنولوجيا - الهندسة العكسية- شراكات وتحالفات دولية وتوأمة علمية- دعم الابتكار والاحتضان وريادة الأعمال والشركات الناشئة

قوانين وتشريعات جديدة-تحرير اللوائح الحالية من الجمود والمعوقات —وضع هيكل تنظيمي - حوكمة المنظومة — *مشروعات ومبادرات وحملات قومية - منح بناء قدرات - إنشاء شبكات ومراكز تميز علمية وتجمعات ابتكارية-اتفاقيات دولية - رصد وتقييم الاداء

تهيئة بيئة مشجعة للعلوم والتكنولوجيا والابتكار وإنتاج المعرفة

البحوث

الأساسية

والبينية

والمستقبلية

والاجتماعية

يط البحوث

والتطوير

بالصناعة

منظومة

العلمي

البحث

العلمي

العليبة

والبحثية

* منح وبرامج ومشروعات ومبادرات ومشروحات وحملات قومية تمولها وزارة البحث العلمي (صندوق العلوم والتنمية التكنولوجية و أكاديمية البحث العلمي) ويشارك في تمويلها برامج التعاون الدولي ووبرنامج البحوث والتنمية والابتكار (RDI) والوزرات والصناعات المعنية ومؤسسات المجتمع المدنى وتضع شروطها المرجعية المجالس النوعية بكاديمية البحث العلمي وتنفذها مؤسسات البحث العلمي المصرية ويتابع تنفيذ الخطة وزارة البحث العلمي ويقيم مردودها الاقتصادي وزارة التخطيط

شكرا لحسن إستهاعكم

