

SINCE THE DAWN OF CIVILIZATION

TO NEW EGYPT

F R E E D O M





Scientific Research and Technology Strategy of Egypt

Vision for Knowledge-Based Economy

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Assistant Minister for Scientific Research and Technology**



National Strategy for Scientific Research & Technology in Egypt



VISION

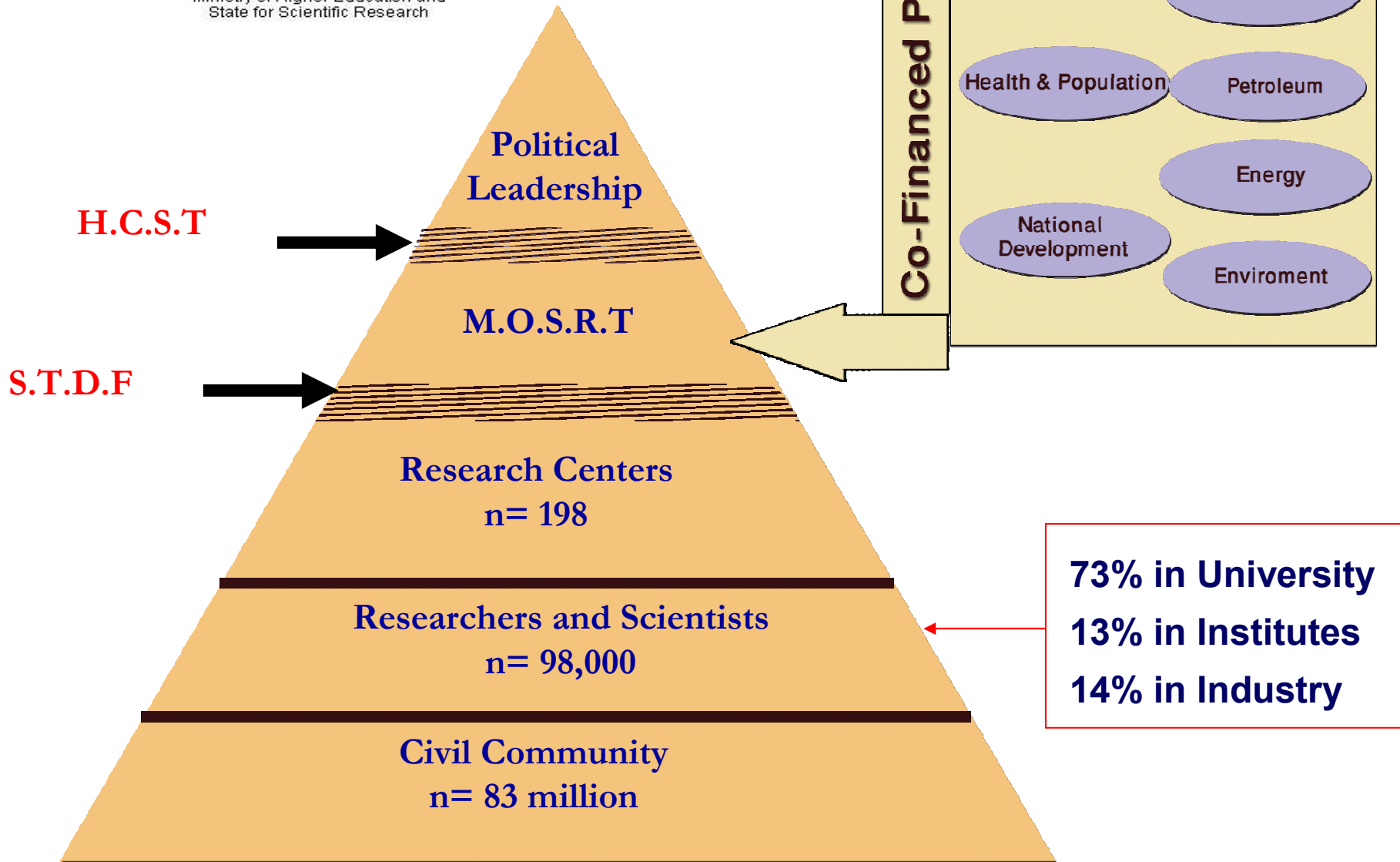
A scientific society capable of presenting applied scientific solutions to society's needs and supports knowledge – based **economy**.

MISSION

Reaching knowledge Economy through innovation in A competitive atmosphere based on Excellence to increase **economic** growth.

STRATEGIC OBJECTIVE

Building Scientific and Technology BaseProduce Knowledge InnovationInternationally-ranked Supporting **Economic** development

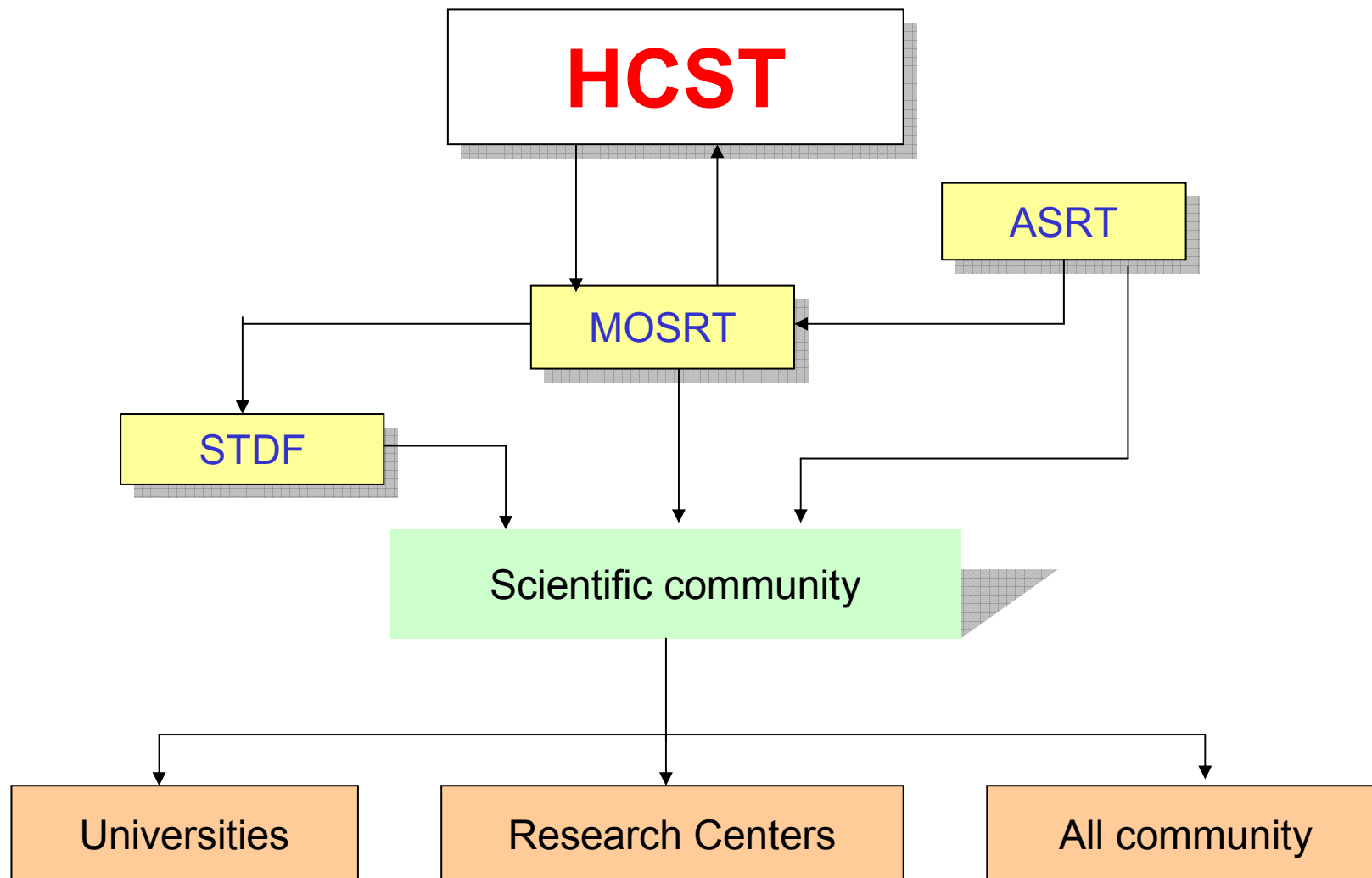


Towards Science, Technology and Innovation

2/9/2012



Ministry of Higher Education and
State for Scientific Research





Cycle of R&D Management



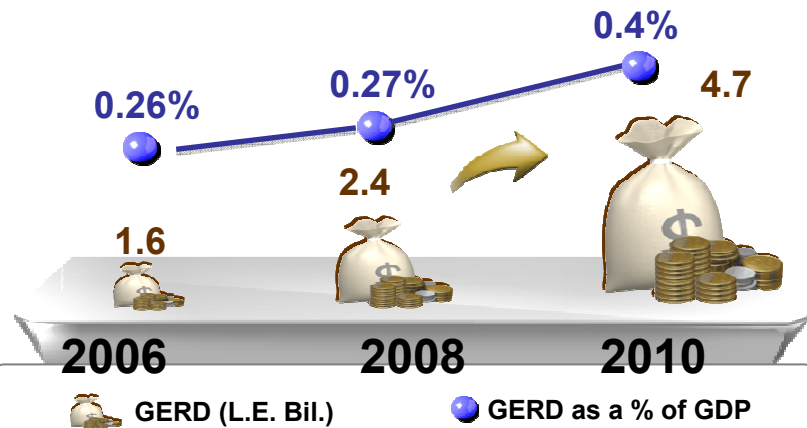
- ASRT , MOSRT
 - Planning & Coordinating
- STDF , RDI
 - Budget Allocation
 - National Funding Schemes
- RC, Universities & Industry
 - Implementation of R&D Program
 - R&D Program Management
- SCRC (STEP)
 - Program Evaluation and Monitoring



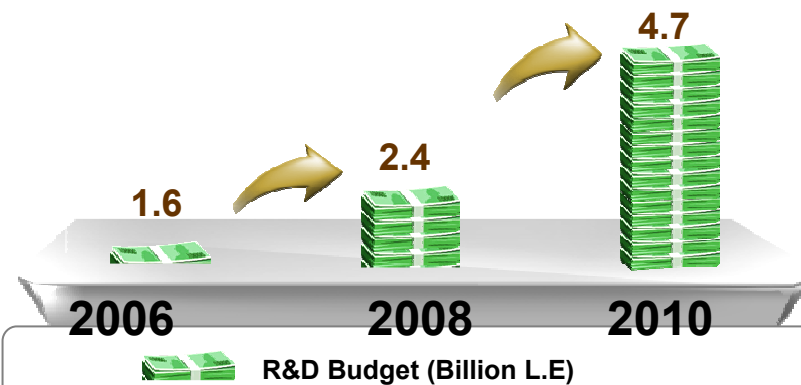
Rapid Increase in R&D Investment & Personnel



GERD (Gross Domestic Expenditure on R&D)



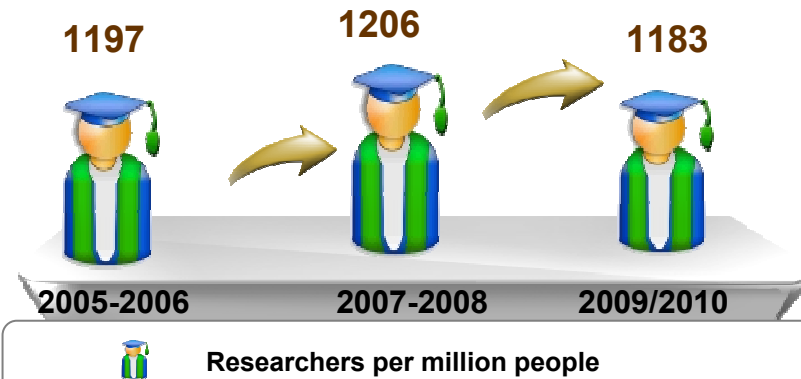
Government R&D Budget



Number of Researchers



Researchers per million people

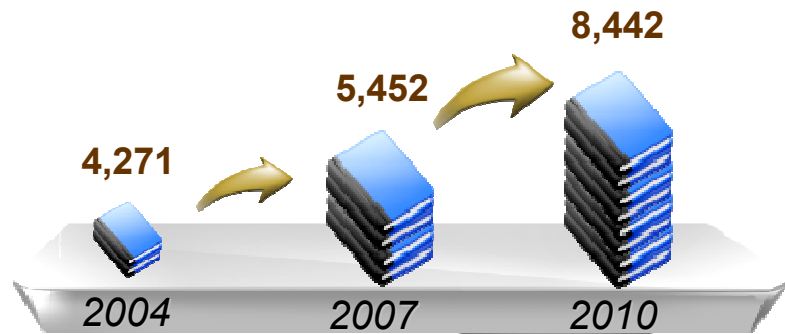




Quantitative Growth of S&T Performance

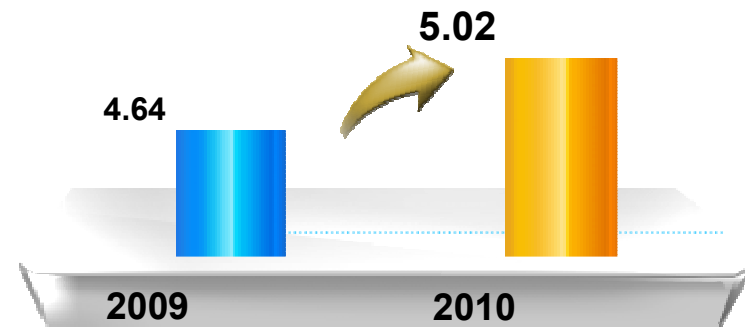


S&T Paper



 of International paper publications

Average citations per paper





Patent applications in Egyptian patent office From 2005 to 2009



السنة Year	مقيم Residents	مقيم غير Non Residents	الاجمالي Total
2005	428	1,008	1,436
2006	481	1,481	1,962
2007	515	1,657	2,172
2008	473	1,657	2,130
2009	490	1,452	1,942
2010	604	1626	2230



Patent application in Egyptian patent office by country From 2007 to 2009



السنة Year	اوروبا Europe	اسيا Asia	امريكا America	الاقيانوسية Oceania	افريقيا Africa	عربية دول Arab countries	مصر Egypt
2007	809	141	646	34	9	18	515
2008	927	131	542	29	5	21	473
2009	785	185	428	12	19	23	490



PCT Patent filing



السنة Year	PCT National phase طلبات المرحلة الوطنية في إطار معاهدة PCT		PCT International phase (non- Resident) طلبات المرحلة الدولية في إطار معاهدة PCT (غير مصريين ن)	Total PCT Patent application طلبات اجمالي في إطار PCT معاهدة
	مصريين Residents	غير المصريين Non Residents		
2007	2	1,496	42	1,540
2008	2	1,550	45	1,597
2009	3	1,372	33	1,408
2010	2	1,542	47	1,591



Granted patents from Egyptian patent office



السنة Year	مقيم Residents	مقيم غير Non Residents	الاجمالي Total
2007	81	218	299
2008	81	280	361
2009	55	266	321
2010	38	283	321



Egyptian granted patents according to *IPC Main Class*



Specialization	2007	2008	2009	2010	التخصص
Human Necessities	41	40	20	79	الاحتياجات الانسانية
Performing Operations; Transporting	14	12	8	78	التشكيل عمليات والنقل
Chemistry; Metallurgy	7	14	17	70	والفلزات الكيمياء
Textiles; Paper	0	1	3	2	والورق النسيج
Fixed Constructions	6	2	1	19	الثابتة المباني
Mechanical Engineering;	3	5	1	32	الهندسة الميكانيكية
Physics	5	5	4	23	والنويات الطبيعية
Electricity	5	1	1	18	الكهرباء والاتصالات
Total	81	81	55	321	الاجمالي



Granted Patents of Egyptian patent office by group of countries



السنة Year	مصر Egypt	عربية دول Arab countries	افريقيا Africa	الاقيانوسية Oceania	امريكا America	اسيا Asia	اوروبا Europe	الاجمالي Total
2007	81	1	0	2	86	10	119	299
2008	81	2	2	2	106	19	149	361
2009	55	3	1	9	89	33	131	321



Granted Patents from Egyptian patent office classified according to applicants



السنة Year	جامعات Universities	مراكز بحثية Research centers	أفراد Individual	شركات Companies	الإجمالي Total
2008	2	13	76	270	361
2009	0	17	57	247	321
2010	0	14	40	267	321



PCT Granted Patents



السنة Year	PCT National phase طلبات المرحلة الوطنية في إطار PCT معاهدة الـ		Total PCT Patent granted طلبات اجمالي في إطار PCT معاهدة الـ
	مصريين Residents	غير المصريين Non Residents	
2007	0	92	92
2008	0	141	141
2009	0	101	101
2010	0	227	227



Framework of Egypt New S&T Initiative



Input

2%
Investment

Reach 2% of GDP on GERD in Next 3 Years

Process

**6 Focused
Sciences
&
Initiatives**

Sciences

- ① Basic Sciences (all disciplines exp. Physics).
- ② Applied and Technological Sciences (Energy, Water, Food, and Health)
- ③ New Frontier Sciences (NANO, MEMs)
- ④ Industrial Sciences (Textile, Oil and Pharmaceutical Technologies).
- ⑤ State-led Sciences (Space, Ocean).
- ⑥ Services Sciences (Content, logistics and communication Technologies)

Initiatives

- ① Improving Research Environment
- ② Competitive Human Resources.
- ③ Funding of S&T support programs
- ④ Innovation initiative.
- ⑤ Networking & globalization
- ⑥ Informal Science Education initiative

Performance

Major S&T
User

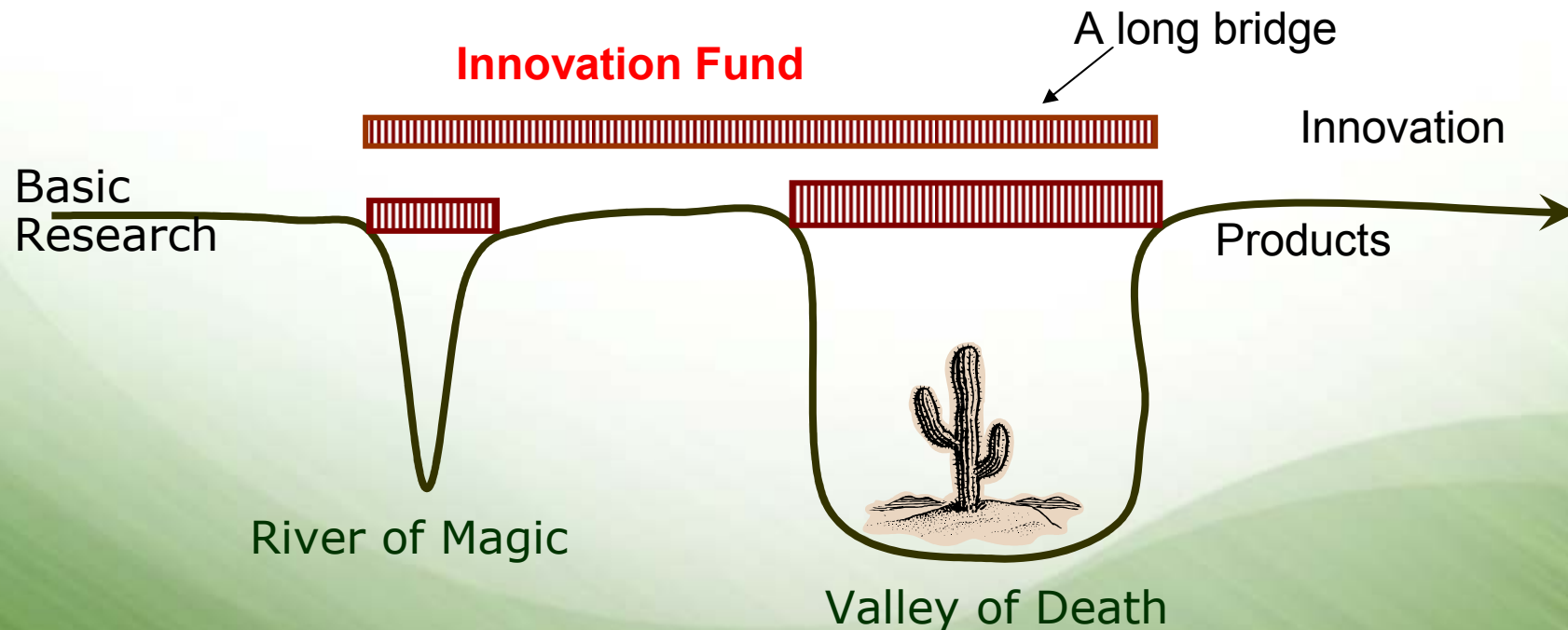
Use S&T for Economic Growth



Initiative Four : *“Innovation Fund”* to “Support strategic Innovative R&D”



- Innovation funding programs from Base to Product.
- Small-Business Innovation Research Programs.
- Technology Finance Programs.
- New Technology-based Start-up Programs.

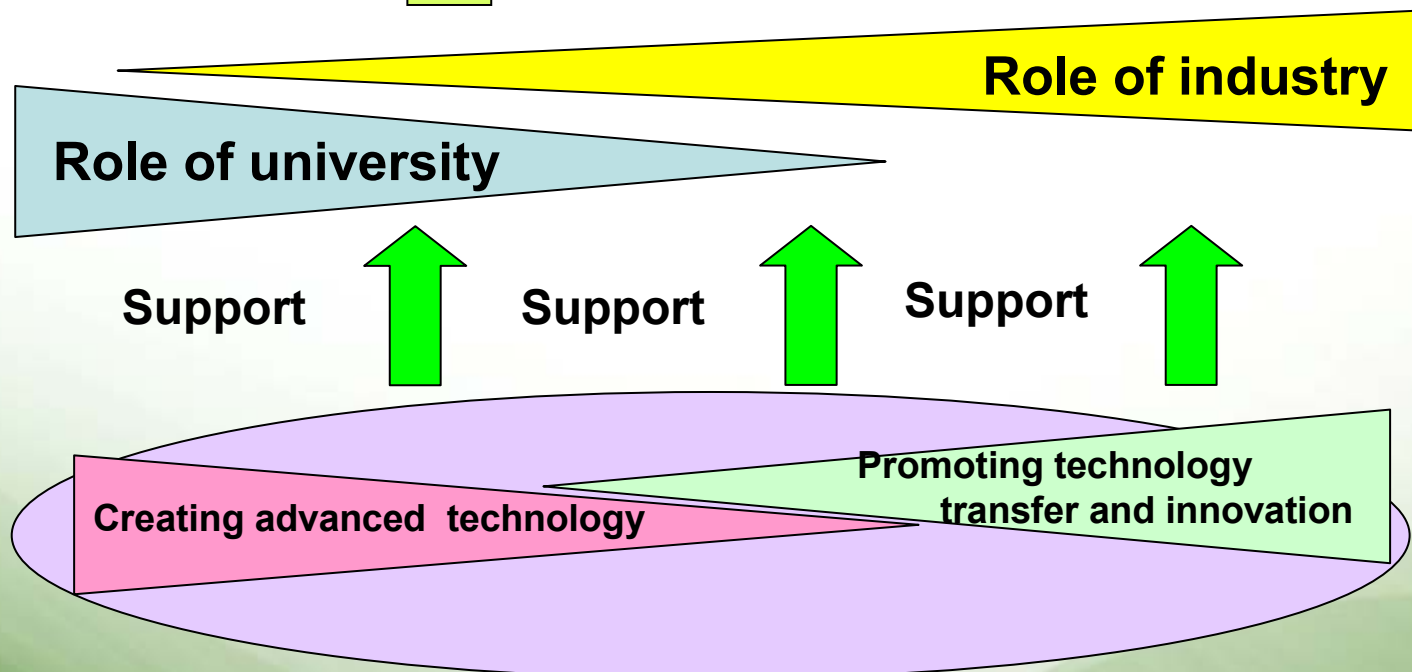
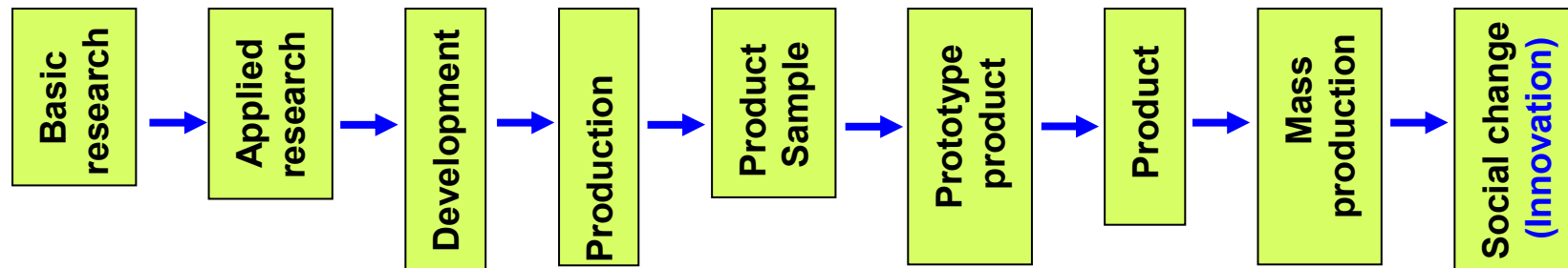




Initiative Four : *“Innovation Fund”*



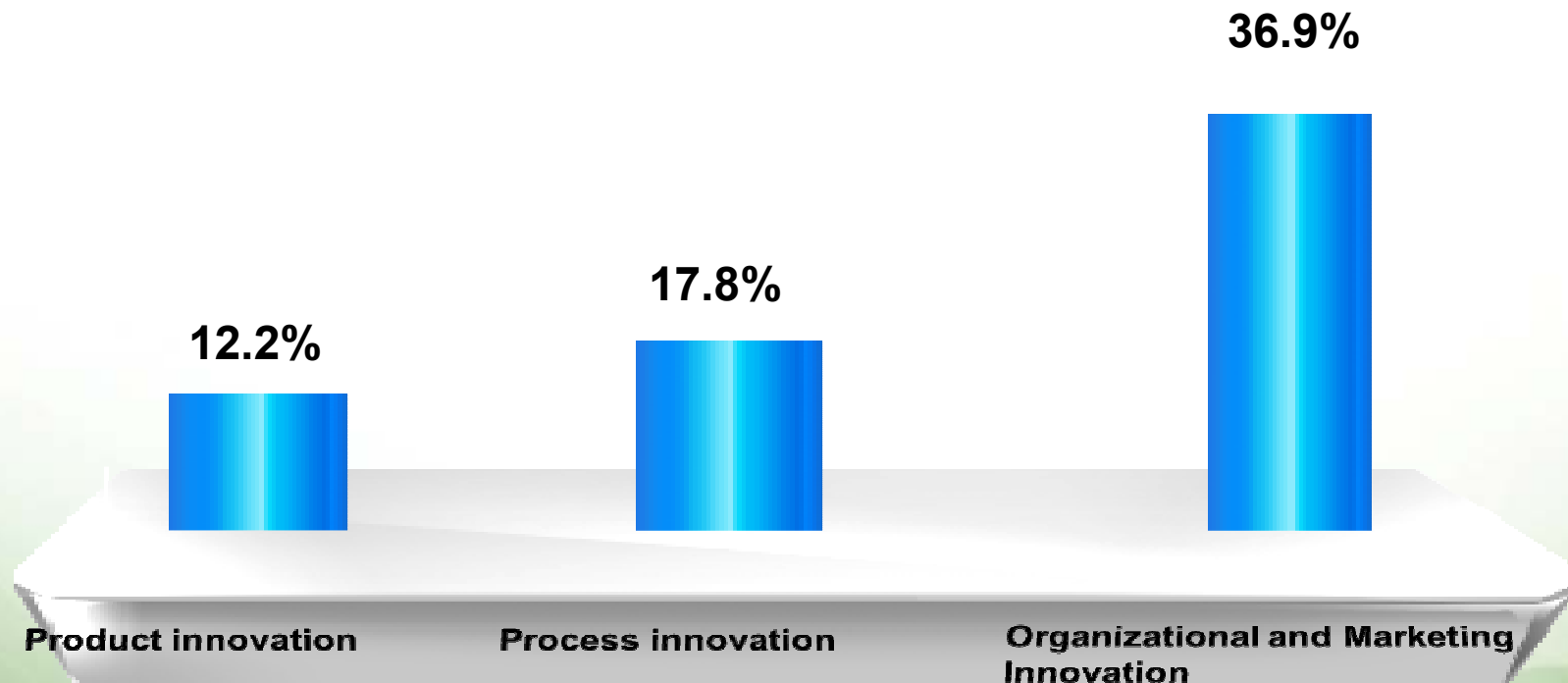
In order to achieve innovation, consistent management from basic research to production is important.




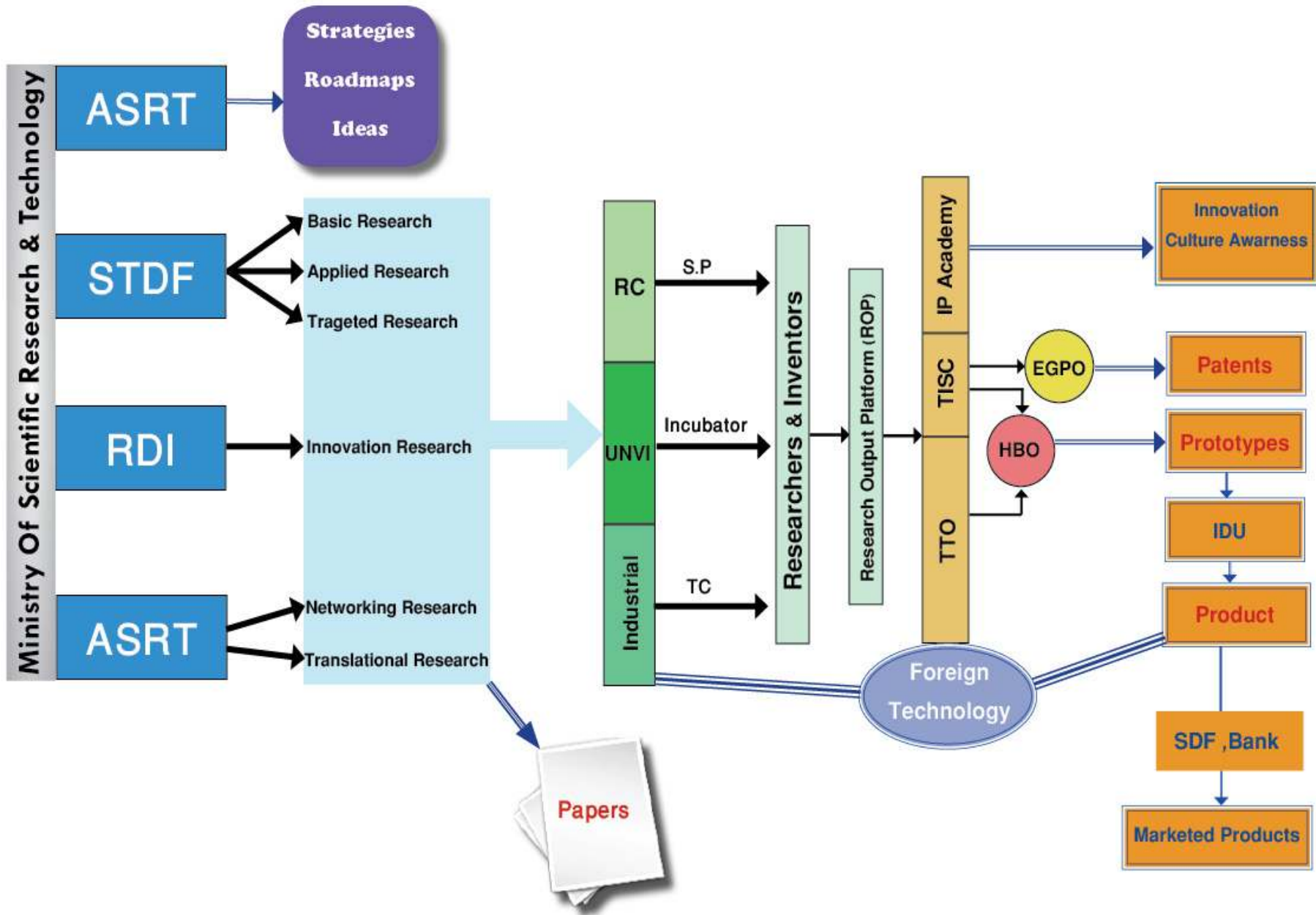
“Innovation Support Program”



Innovation in Industry



 **Innovation Survey on 3,000 Egyptian Enterprises**





IP Current Situation



Egypt IP Law 82/2002

- **First Book** (Patent – utility model – Integrated circuit - undisclosed information) for EgPO – ASRT.
- **Second Book** (Trademark – Design and Industrial Design – Geographic indication) Ministry of Supply and Internal Trade.
- **Third Book** (Copyright and Related Right) Ministry of Culture except Broadcast Agency and (Software and Database) Ministry of Information and communication.



International Treaties



- ❑ Egypt is a member of Paris convention 1951.
- ❑ Hague agreement 1952.
- ❑ Madrid agreement 1952.
- ❑ Egypt is a member of WIPO since 1975.
- ❑ Strasbourg agreement for IPC 1975.
- ❑ Berne agreement 1977.
- ❑ TRIPS agreement 1995.
- ❑ Trademark Law Treaty 1999.
- ❑ PCT Treaty member since June 6, 2003.
- ❑ Nice agreement 2005.
- ❑ Madrid protocol 2009.



Legislations (Intellectual property law)

Patent new Area



- ❑ **The roots of the Intellectual Property in EGYPT go to 1949 by the law 132/1949.**

- ❑ **The New Law 82/2002 which protect areas,**
 - Patent , Utility Models
 - Layout-Designs for Integrated Circuits
 - Undisclosed Information
 - Micro-Organism
 - Protection of Pharmaceutical Product
 - Patent term of Protection 20 years



EGPO ISA and IPEA



- The International Patent cooperation union Assembly at its 17 session in October 2009 appointed the Egyptian patent Office as an International Searching and Preliminary Examination authority under the PCT.
- The Egyptian Patent Office set a plan to start by the end of 2011 to work as ISA and IPEA.



IP Challenges in Egypt



- ❑ Legal Issue (Amendments to laws).
- ❑ IP Policy and Strategy (Comprehensive Policy).
- ❑ IP Public Awareness.
- ❑ IP Teaching.
- ❑ IP Invention and Innovation Support.



Legal Issues



- Establishment Intellectual Property Office
 - (Combine all IP elements under one umbrella)
 - First Step to form an Industrial Property Office
 - (Patent – Trademark – Industrial Design ...etc)
 - Second Step to merge Industrial Property Office with Copyright & Related Rights.



Proposed IP Policy and Strategy



No Policy No strategy

- ❑ Fundamental reforms of IPR System
- ❑ Development of cooperative platforms between industry, academia and research institutions.
- ❑ Raising the effectiveness of IP exploitation.
- ❑ Strengthening international competitiveness based on IP exploitation.



National IPR Strategy objectives



- IP Creation
- IP Exploitation
- IP Promotion / awareness
- IP Protection
- Incentivizing the IP ecosystem
- Development of Human Resource



International Cooperation



- **Cooperation with WIPO, EPO and JP O.**
- **Bilateral Agreements with China, Mexico**

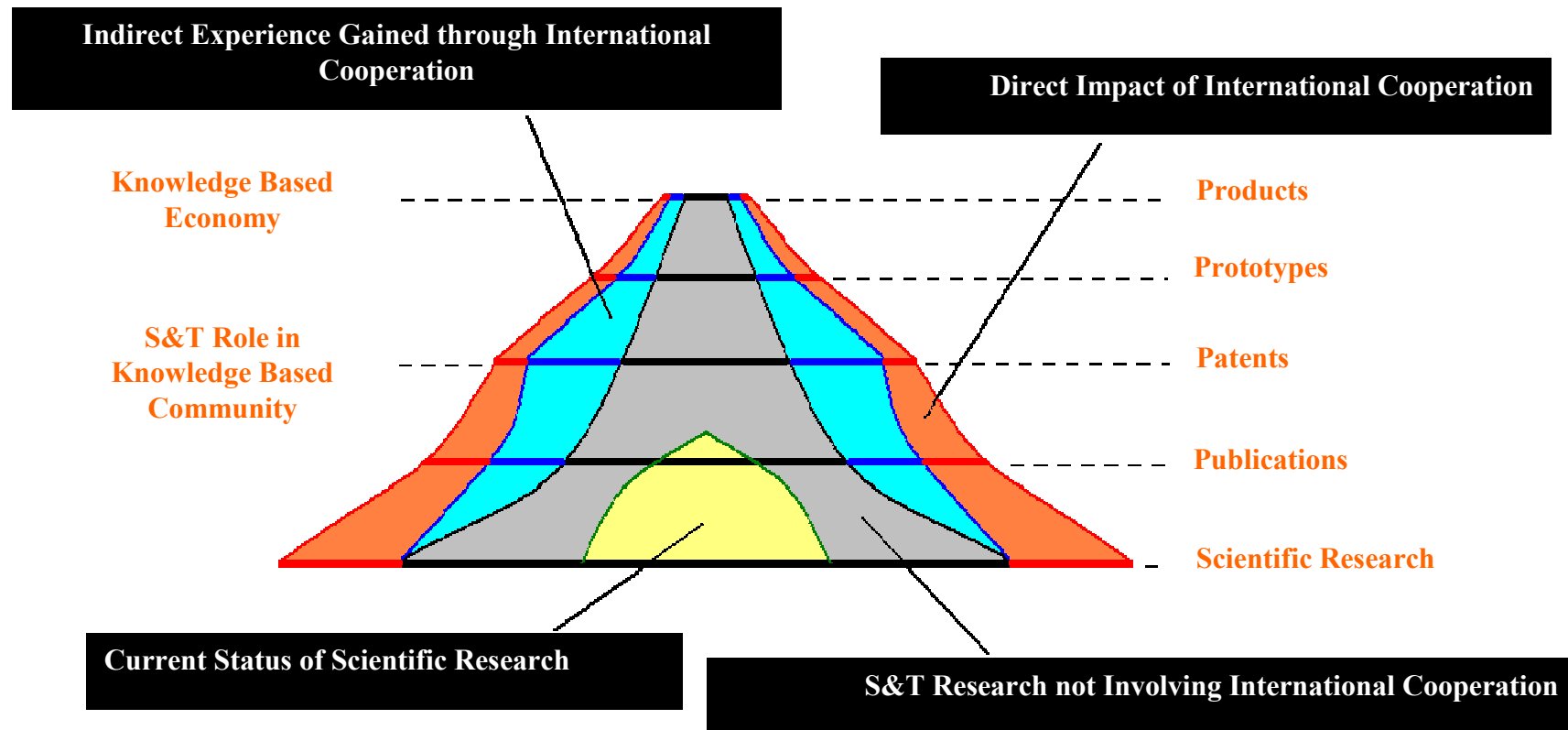
Expected cooperation in;

- Exchange of Experts in IP
- IP library
- Training for trainers
- Accessing IP relevant databases



Ministry of Higher Education and State for Scientific Research

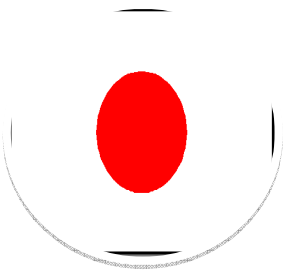
“4P’s” Concept



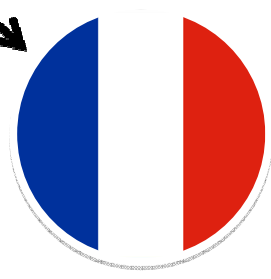
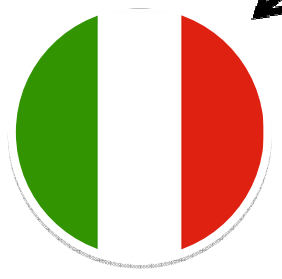
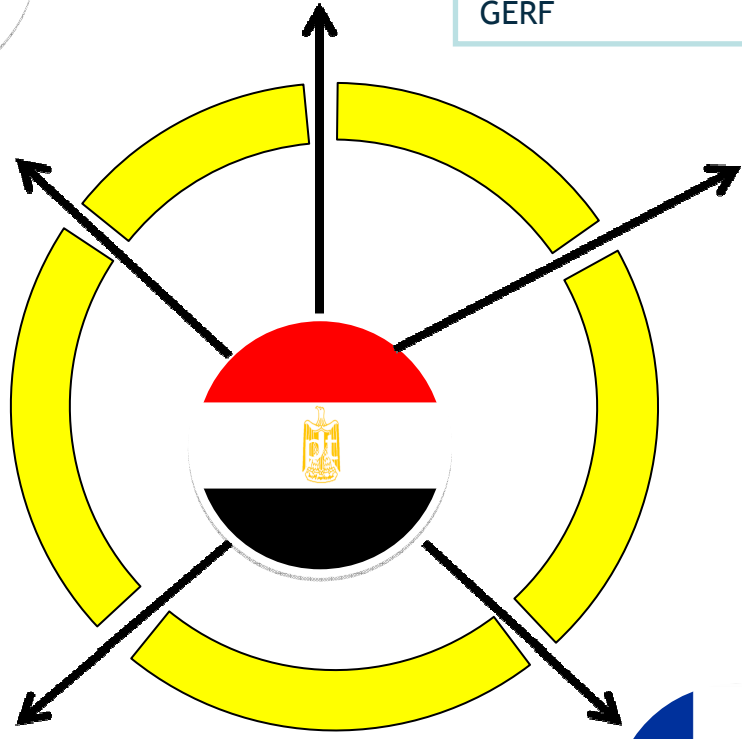
E-JUST
JST-STDF
JSPS-STDF



Eg-IIT Univ.
CSP
Joint Research Prog.

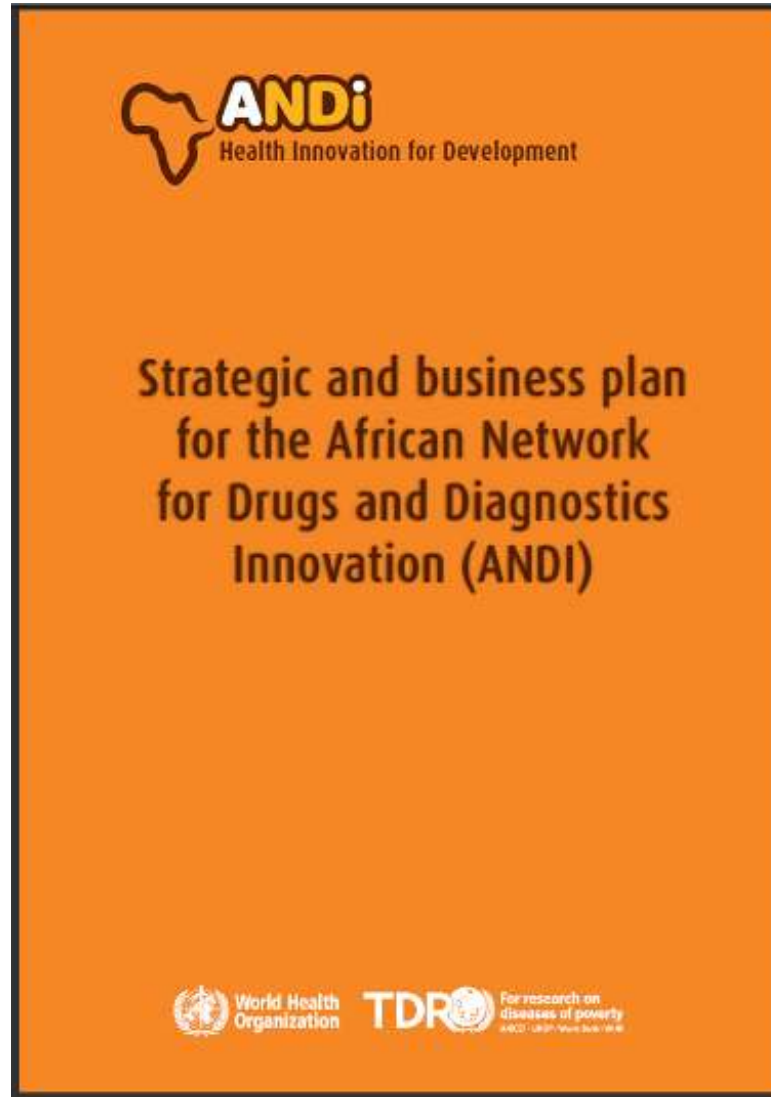


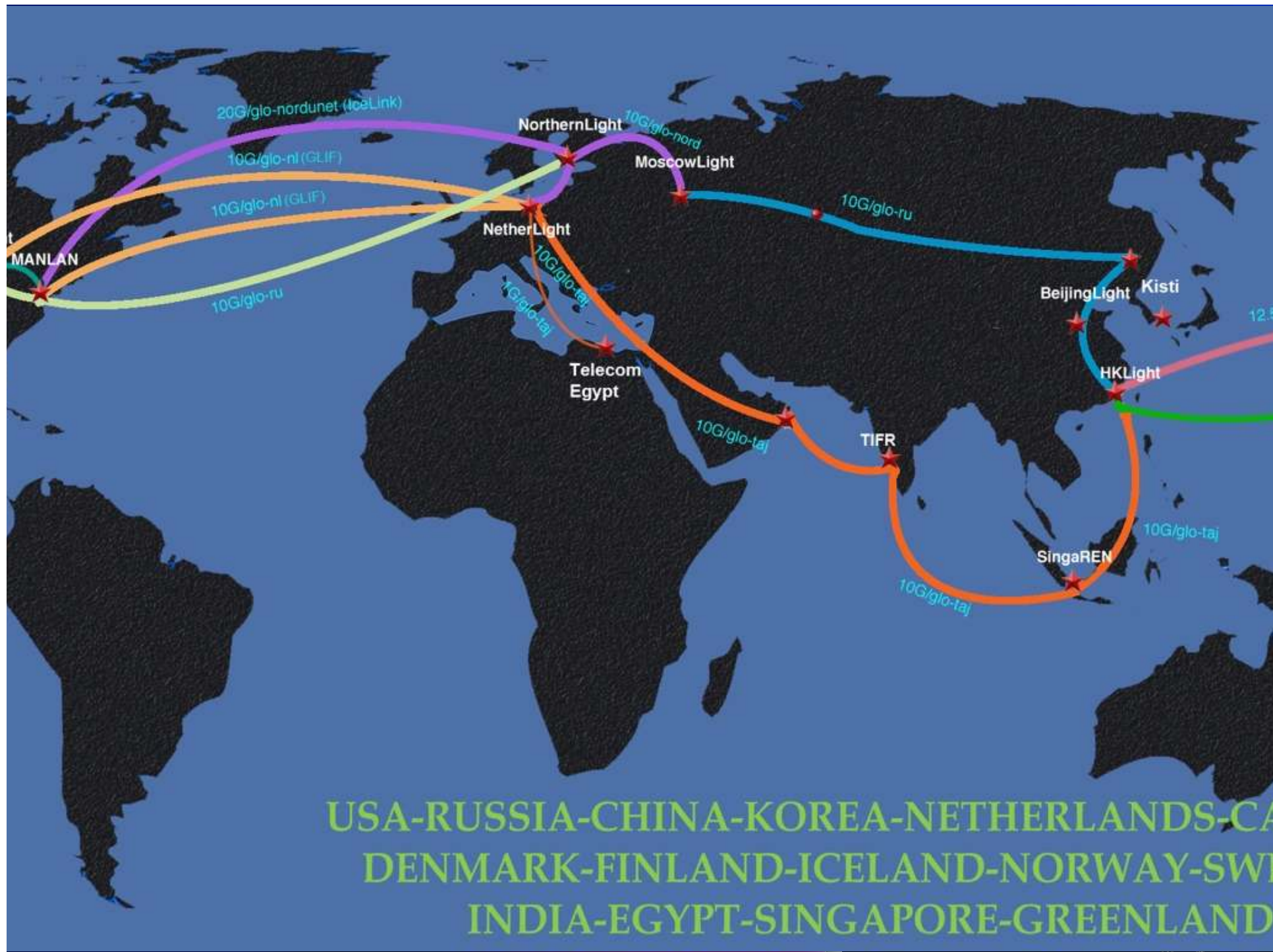
GERSS
GESP
GERLS
GERF



Energy and Renewable Energy
Environment, including Water
Agriculture Sciences
Space Sciences
Archaeology
Life Sciences

Strategic business plan adopted







Thank You !



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