



UNESCO GO→SPIN Methodological and Data Collection Training Workshop – Republic of Uganda

12–16 April 2021

LECTURE 4: Presentation of the GO→SPIN Online platform – Exploring the information content

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Research on Knowledge,
Innovation, Technology and
Science Organization

www.researchkits.org



GO→SPIN Platform: What is and what's for?

Provides guidance and information resources in support of mapping information on SETI policies, national SETI ecosystems and their organizations, SETI legal frameworks, operational policy instruments and indicators for providing evidence-based policy analyses, policy mix design, access to temporal series of indicators and a set of UNESCO and external databases.

Purposes:

- Facilitate *processes* of learning by broadening perspectives and framing by codifying and ordering the significant, but fragmented, knowledge base around SETI (policy) dynamics
- Encouraging intelligent benchmarking
- Supporting international mutual learning and exchange
- But also complementing (and not substituting) existing processes and analysis



Who are the potential users?

The national developing planning agencies, more particularly the government bodies responsible for formulating and co-ordinating national SETI policies and other national bodies involved in the application of SETI activities to sustainable development;

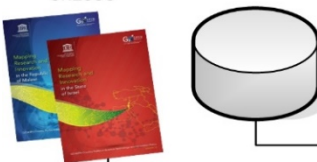
- Experts and analysts on SETI and other public policies
- Parliamentary groups especially concerned with SETI policies;
- SETI information brokers, consulting groups and advisory bodies;
- Teaching and research departments engaged in SETI policy studies;
- The governing bodies of R&D institutes and S&T services;
- The boards of management of productive enterprises heavily reliant on R&D or engaged in the transfer of technology and innovation;
- International governmental and non-governmental organizations concerned with SETI and their application to sustainable development;
- Academics, researchers and graduate students concern on SETI policy assessment...



Sources of information

GO-SPIN country profiles and other STI research studies conducted by UNESCO

Open Source databases of STI policies



Databases of indicators operated by the UN system

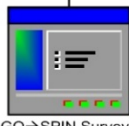


UNESCO Institute for Statistics database

Unesdoc: UNESCO repository

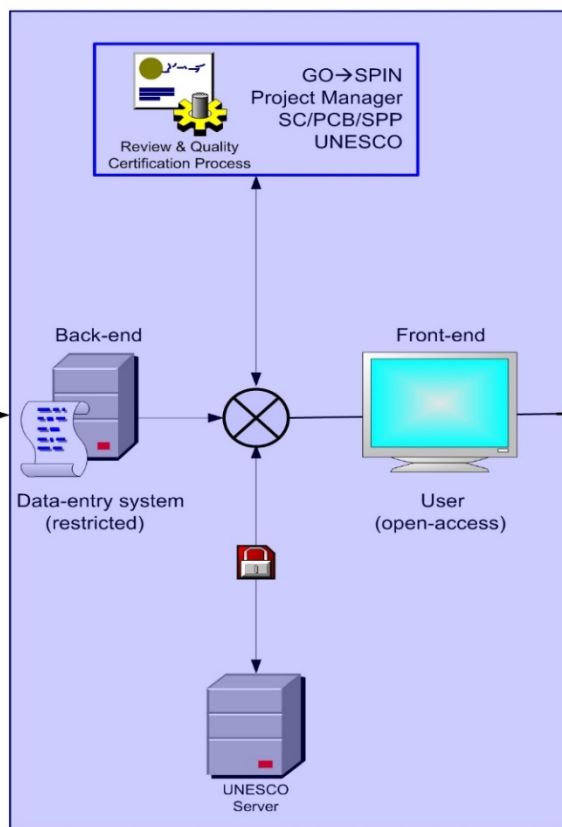


Links to STI and Sustainable Development National documents



GO-SPIN Surveys will be completed on-line by Member States' focal-points

GO-SPIN Multilingual Platform



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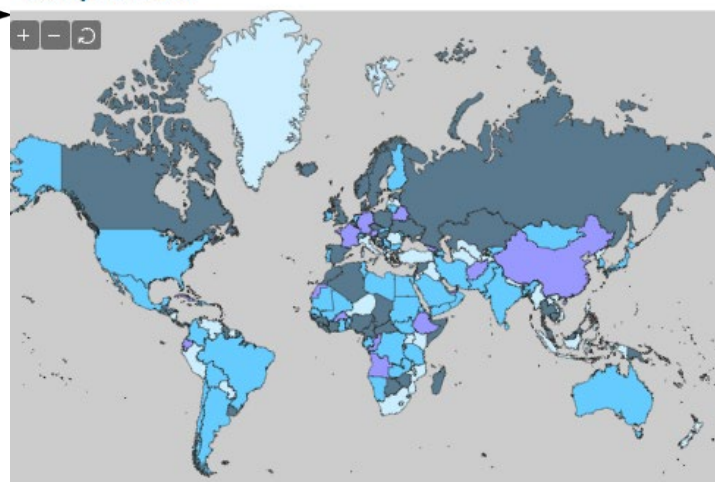
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Welcome

GO-SPIN is a methodological tool to map national science, technology and innovation (STI) landscapes and analyse STI policies and their implementation. The open-access platform offers innovative databases with powerful graphic and analytical tools for the use of decision-makers, parliamentarians, universities, knowledge brokers, companies, specialists and the general public, with a complete set of diverse information on STI policies.

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- ✓ 2018-07-16 to 2018-07-21
- KOBLENZ, GERMANY
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- ✓ 2018-07-13 to 2018-07-20
- TEPILORA, RIO POSADA AND MONTALBO BIOSPHERE RESERVE, ITALY
Summer School on Integrated Management Approaches and Sustainable Tourism Strategies for Biosphere Reserves
- ✓ 2018-06-17 to 2018-09-10
- ASTANA, KAZAKHSTAN
EXPO 2018 International Exhibition in Astana



GLOBAL OBSERVATORY OF SCIENCE, TECHNOLOGY
AND INNOVATION POLICY INSTRUMENTS

The structure of GO→SPIN analytic units

**Explicit
policies**





<https://gospin.unesco.org/>



Global Observatory of Science, Technology and Innovation Policy Instruments



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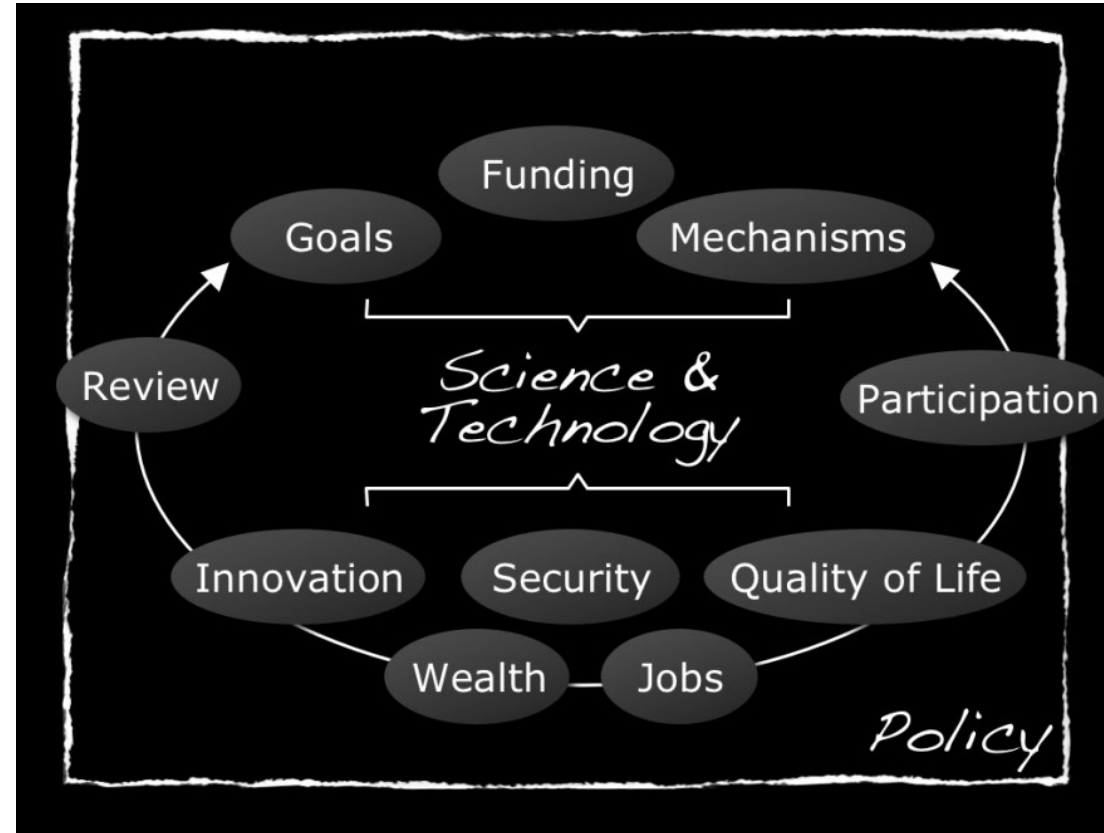
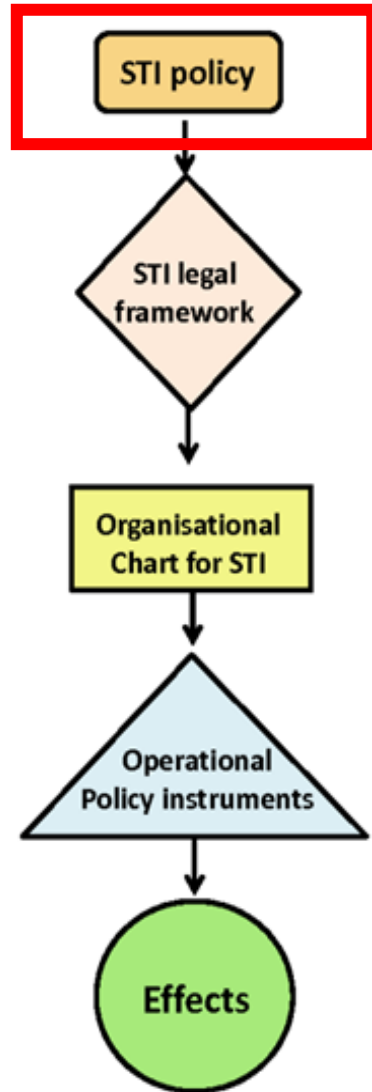
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Analysing the content of the SETI “explicit” policies



Explicit Policy



Socio-Economic National Development Plans | listed by countries

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Country : [Afghanistan](#)

Document name: *Afghanistan.pdf*

Language: *English*

Starting date: *2017*

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Country : [Albania](#)

Document name: *Albania.pdf*

Language: *English*

Starting date: *2014*

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Country : [Algeria](#)

Document name: *Algeria.pdf*

Language: *French*

Starting date: *2015*

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Country : [Azerbaijan](#)

Document name: *Azerbaijan.pdf*

Language: *English*

Starting date: *2017*



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Country : [Albania](#)

Language: *English*

Starting date: 2009

Document description: *National Strategy for Science, Technology and Innovation 2009-2015*

Document name: *Albania.pdf*

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Country : [Argentina](#)

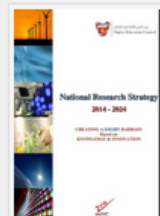
Language: *Español*

Starting date: 2012

Document description: *Plan Nacional de Ciencia, Tecnología e Innovación: Argentina Innovadora 2020*

Document name: *Argentina.pdf*

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Country : [Bahrain](#)

Language: *English*

Starting date: 2014

Document description: *National Research Strategy 2014-2024*

Document name: *Bahrain.pdf*

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Country : [Bangladesh](#)

Language: *English*

Starting date: 2011

Document description: *National Science and Technology Policy-2011*

Document name: *Bangladesh.pdf*

[View record](#)

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Country : [Bolivia](#)

Language: *Español*

Starting date: 2013



Global Observatory of Science, Technology and Innovation Policy Instruments



Content Analysis of the STI National Policy | listed by countries

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Country : [Botswana](#)

Language: English

Policy vision: Botswana will become a globally competitive nation with technological development, innovation and knowledge driving socio-economic growth.

Policy mission: To achieve a knowledge-driven economy through effective and sustainable science- and technology-based research and innovation.

STI policy start date: 2011

Status: In operation

Main STI policy document name: National Policy on Research, Science, Technology and Innovation (2011)

Main STI policy document year: 2011

[View record](#)



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Country : [Cambodia](#)

Language: English

Policy vision: The ultimate vision sought for the Master Plan is "Making the Leap to an innovative S&T Nation" ...

STI policy start date: 2014

Status: In operation

Main STI policy document name: Cambodia's National Science and Technology Master Plan 2014-2020

Main STI policy document year: 2014

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Country : [Ethiopia](#)

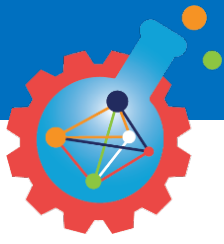
Language: English

Policy vision: To see Ethiopia entrench the capabilities which enable rapid learning, adaptation and utilization of effective foreign technologies by the year 2022/23.

Policy mission: To create a technology transfer framework that enables the building of national capabilities in technological learning, adaptation and utilization through searching, selecting and importing effective foreign technologies in manufacturing and service ...



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Analysing the SETI institutional ecosystem

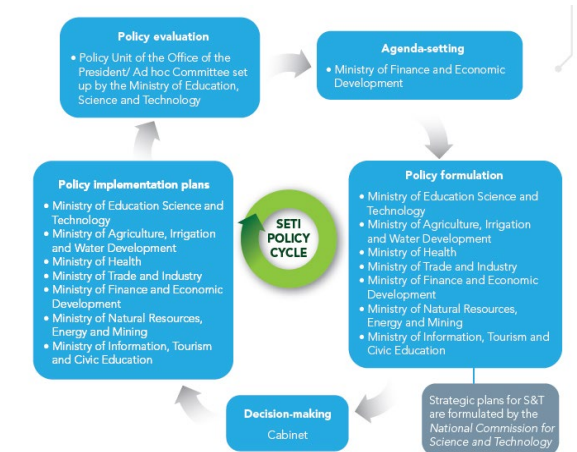
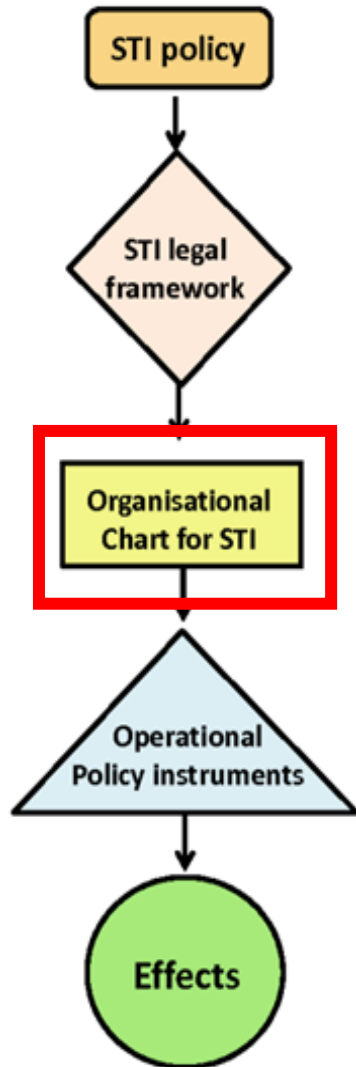
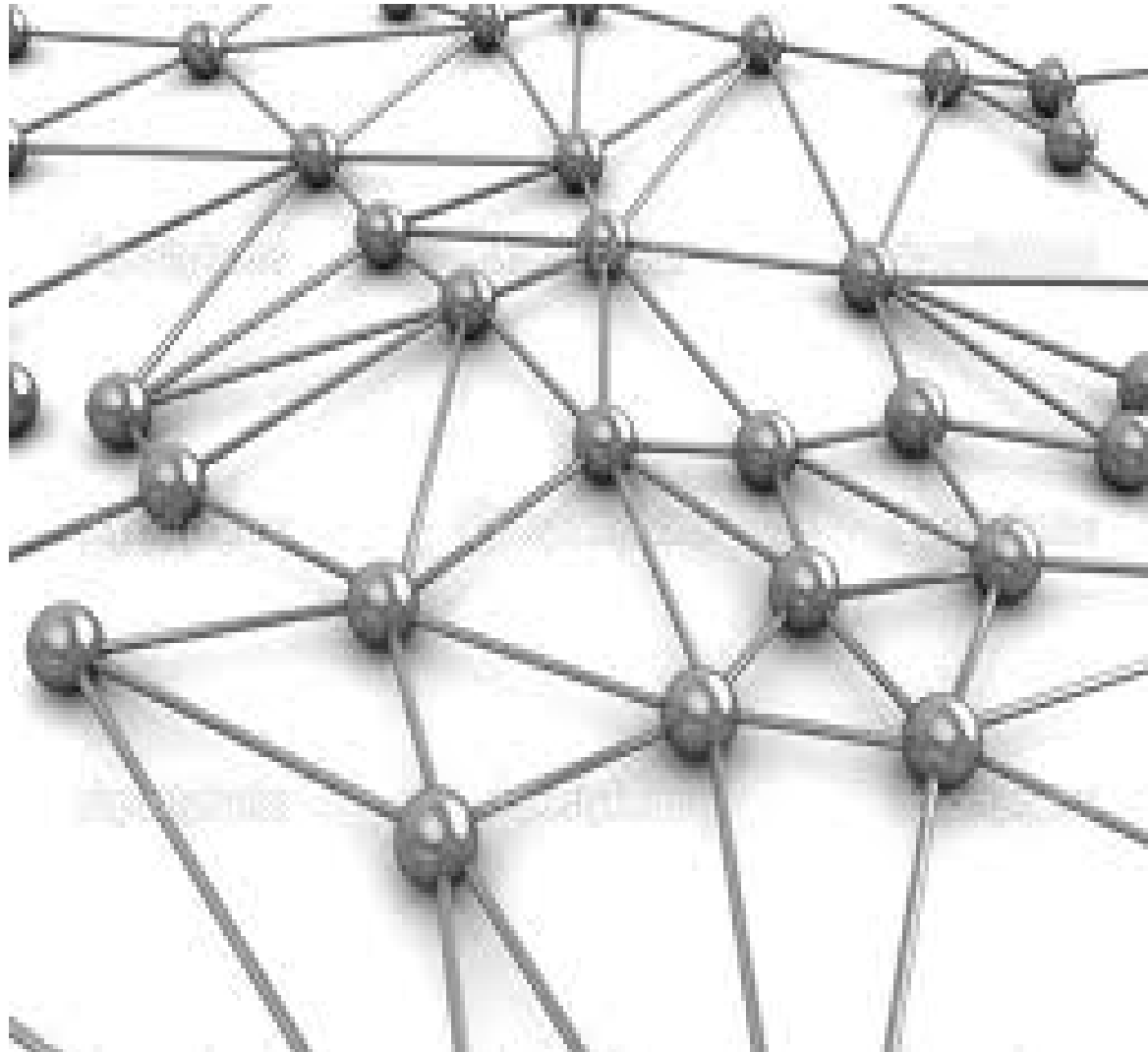


Figure 31: SETI policy cycle in Malawi, 2014. Source: UNESCO

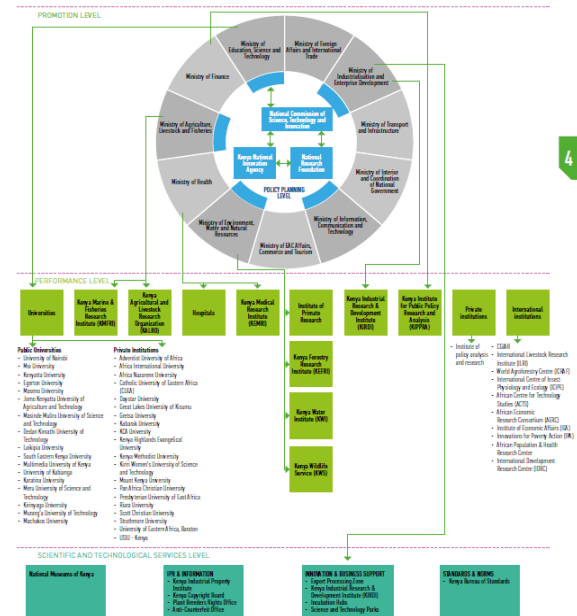


Figure 4.4. Organizational chart showing Kenya's research and innovation system. Source: Authors' production based on GG+SPIN methodology (UNESCO, 2015)



Global Observatory of Science, Technology and Innovation Policy Instruments



STI Organizational Analysis | Options

STI Policy Cycle

STI Organizational Chart

Inventory of STI Institutions

Inventory of Science and Technology Parks

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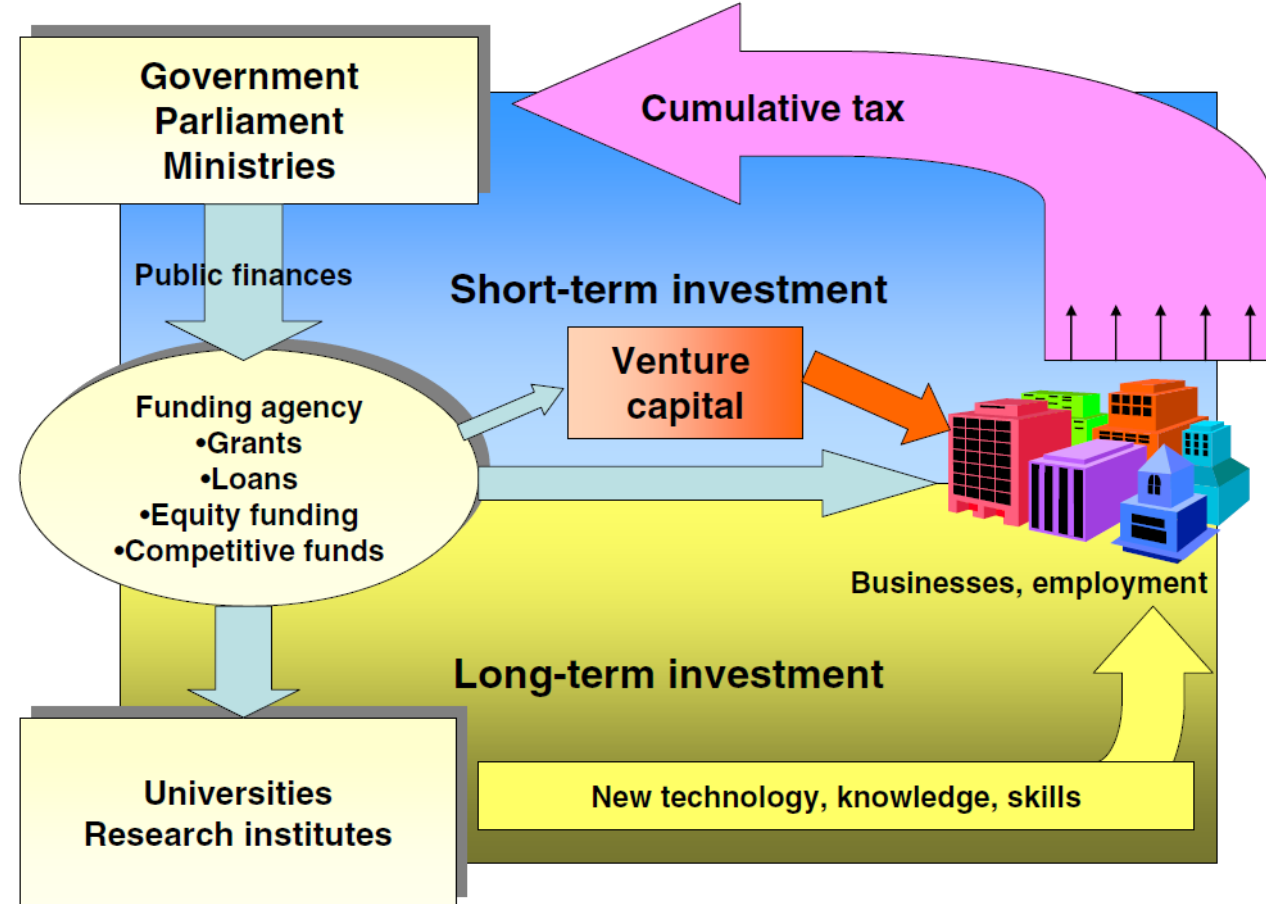
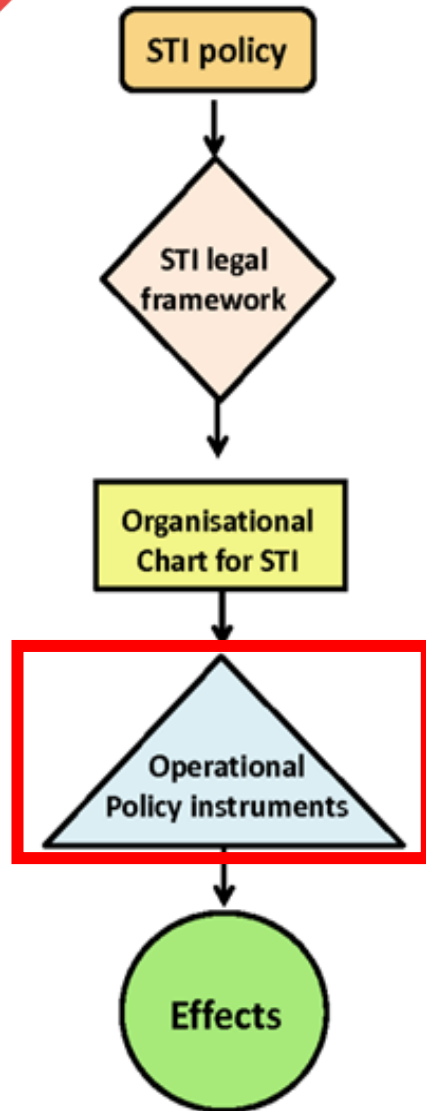
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Inventory of operational policy instruments





Global Observatory of Science, Technology and Innovation Policy Instruments



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[Comparative table](#)

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STI Operational Policy Instruments | Comparative table by Countries | Standardized objectives and goals

Country	a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	Tot
Algeria	1													5
Argentina	43	16									2	17	9	133
Bolivia	2					3			1				1	5
Botswana	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Brazil	35	5	58	2	4	33	14	-	-	-	1	8	9	106
Burkina Faso	3	-	2	-	1	3	-	-	1	-	-	1	-	3
Chile	25	3	23	4	1	57	4	-	-	-	-	14	-	88
Colombia	14	1	15	-	2	17	1	-	-	1	-	3	-	36
Costa Rica	6	-	13	2	4	10	1	-	-	3	-	5	3	33
Cote D'Ivoire	2	-	1	-	1	2	-	-	-	-	-	-	-	2
Cuba	1	-	-	-	-	1	-	-	-	-	-	-	-	1
Dominican Republic	2	-	2	-	-	3	-	-	-	-	-	1	-	7
Ecuador	9	-	11	1	-	2	-	-	1	-	-	-	-	20
Egypt	7	3	7	-	1	5	-	-	-	2	-	1	-	11
El Salvador	4	-	6	-	-	7	2	-	-	1	-	-	-	13
Ethiopia	2	-	-	-	1	1	-	-	-	-	-	-	-	2
Ghana	1	-	1	-	-	1	-	-	-	1	-	-	-	3
Guatemala	6	2	6	-	1	2	-	-	-	1	1	-	1	11
Honduras	2	-	1	-	-	3	-	-	-	1	1	-	-	7
India	21	8	20	6	4	28	3	4	1	9	2	6	-	49
Iraq	1	-	2	-	-	-	-	-	-	1	-	-	-	3
Israel	36	22	37	5	8	30	6	9	8	-	27	17	-	59
Jamaica	1	-	-	-	-	3	-	-	-	-	-	1	-	3
Jordan	5	-	3	-	-	6	-	-	-	2	-	1	-	7
Kenya	6	-	12	1	4	5	-	-	1	7	1	3	-	12
Kuwait	20	-	10	-	12	14	-	-	-	4	2	4	-	34
Lao People's Democratic Republic	1	-	1	-	-	-	-	2	1	-	-	1	-	2
Lebanon	10	-	12	-	4	12	-	-	-	2	2	2	2	22
Liberia	4	6	8	2	-	4	2	-	-	6	-	-	-	10
Malawi	20	4	16	3	10	2	5	-	3	4	-	2	-	27

b. Strengthening the infrastructure of research laboratories in the public and private sectors



STI Operational Policy Instruments | Comparative table by Countries | STI Supply and Demand Sides

Country	Fostering STI's supply side	Fostering STI's demand side	Fostering the link between STI's	Tot
Algeria	2	2	1	5
Argentina	75	42	16	133
Bolivia	1	1	3	5
Botswana	1	-	-	1
Brazil	78	18	10	106
Burkina Faso	3	-	-	3
Chile	30	35	23	88
Colombia	17	10	8	36
Costa Rica	18	6	8	33
Cote D'Ivoire	2	-	-	2
Cuba	1	-	-	1
Dominican Republic	3	3	1	7
Ecuador	17	-	3	20
Egypt	7	3	1	11
El Salvador	9	3	1	13
Ethiopia	2	-	-	2
Ghana	1	-	-	3
Guatemala	9	1	1	11
Honduras	2	4	1	7
India	27	5	17	49
Iraq	3	-	-	3
Israel	27	24	8	59
Jamaica	1	2	-	3
Jordan	4	1	2	7
Kenya	6	3	3	12
Kuwait	20	8	6	34
Lao People's Democratic Republic	2	-	-	2
Lebanon	10	8	4	22
Liberia	6	4	-	10
Malawi	20	5	2	27
Malaysia	-	3	-	3
Mauritius	1	3	3	7
Mexico	38	6	7	51
Morocco	10	-	10	20
Mozambique	13	3	1	17
Nicaragua	4	3	1	8



Global Observatory of Science, Technology and Innovation Policy Instruments



STI Operational Policy Instruments | Argentina | STI Supply and Demand Sides

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Country: [Argentina](#)

Title of the instrument: *Partial Financing Program for Short-Term Internships Abroad for Postdoctoral Scholars and Research Assistants - CONICET*

Overview: *Partial Financing Program for Short Stays Abroad for Postdoctoral Scholars ...*

Language: *English*

STI Supply and Demand Sides: *Fostering STI's supply side*

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Country: [Argentina](#)

Title of the instrument: *FONCyT - Fund for Scientific and Technological Research*

Overview: *The Fund for Scientific and Technological Research (FONCYT) is an organization in charge of managing and applying National Treasury budgetary resources, those coming from external credit operations and international cooperation, with the purpose of ...*

Language: *English*

STI Supply and Demand Sides: *Fostering STI's supply side*

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Country: [Argentina](#)

Title of the instrument: *Presidence Unit*

Overview: *The National Agency for Scientific and Technological Promotion (ANPCyT) through its Presidency Unit promotes the incorporation of highly qualified human resources for innovation and technology transfer in different institutions, to support the change in ...*

Language: *English*

STI Supply and Demand Sides: *Fostering STI's supply side*

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Country: [Argentina](#)

Title of the instrument: *ICT scholarships (FONCyT)*

Overview: *The National Agency for the Promotion of Science and Technology (ANPCyT) through the FONCyT within the framework of the Program to*



View | STI Operational Policy Instruments | STI Supply and Demand Sides | Argentina

ACTIONS PDF Book

Title of the Instrument

Partial Financing Program for Short-Term Internships Abroad for Postdoctoral Scholars and Research Assistants - CONICET

Keywords

CONICET, short stays, postdoctorate, research assistants, scholars

Overview

Partial Financing Program for Short Stays Abroad for Postdoctoral Scholars

This Program provides partial funding to CONICET Postdoctoral Internal Fellows for short-term internships in research centers of excellence abroad, oriented to carry out training and/or experimentation within the work plan presented. At the time of application and during the entire stay abroad, applicants must be active fellows in the above-mentioned category.

Partial Funding Program for Overseas Stays for Research Assistants

This Program provides partial funding to Members of the Scientific and Technological Researcher Career of CONICET in the category of ASSISTANT RESEARCHER in research centers of excellence abroad, aimed at completing their training, training, experimental training and / or collaborations. At the time of application, applicants must be active researchers in the category mentioned above.

Objectives of the STI plan

Strengthen fundamental aspects of the National STI system (human resources, infrastructure, organization, procedures, articulation and coordination) in order to provide it with sufficient capacity to meet the productive and social demands as well as enhancing its effectiveness and operational efficiency through the generation of greater complementarities, reducing contradictions and optimizing the use of resources.

Standardized objectives and goals

A. Strengthening the production of new endogenous scientific knowledge

C. Human resources for research, innovation and strategic planning. Capacity building, education and training of specialized human capital for (1) the production of new scientific knowledge, (2) development of new technologies, (3) promotion of innovation within the productive and services systems and (4) management of the knowledge society.

Sectoral and horizontal approach of the Instrument

B. Horizontal: the benefits go to all the disciplines, areas and sectors

STI Supply and Demand Sides

Fostering STI's supply side

Classification by main field of science

All

Scilo-Economic Objective Classification

General advancement of knowledge

Mode of support / Type of Mechanism

A. Grants (grant funds)

Conditions to apply for the Instrument

Partial Financing Program for Short Stays Abroad for Postdoctoral Scholars

Recipients: Internal CONICET Postdoctoral Scholars who are active both at the time of application and the use of the funding, who may apply for a single period of internship during the duration of the scholarship.

The beneficiaries of Extraordinary Postdoctoral Grants, Special Grants and Postdoctoral Reinsertion Grants, as well as those Internal Postdoctoral Scholars who are enjoying a period of scholarship in addition to the statutory scholarship period, may not participate.

Duration: The periods of stay abroad to be requested may not be less than two (2) months and may not exceed six (6) months in duration. The period of stay abroad must be within twenty-four (24) months of the scholarship award. Postdoctoral Scholars who are in exceptional extensions may not participate.

Academic requirements:

Complete the BIGERH module by logging onto the Intranet of CONICET, taking into account the instructions for carrying out the electronic version of the application. Presenting compliance notes for the completion of the Internship from the foreign institution's authority and the researcher responsible for directing the scholarship holder's activities during his/her stay, with institutional letterhead and corresponding signatures.

STI Plan for the period 2015-2018. The STI Plan for the period 2015-2018, which must include all the information requested, should be addressed to: seccionpostdoctoral@conicet.gov.ar



Global Observatory of Science, Technology and Innovation Policy Instruments



Inclusive STI Policies | Options

[Inclusive STI Policy Instruments](#)

[Inclusive STI Legal Framework](#)

[SAGA: STEM and Gender Advancement](#) 


[Inclusive Policy Lab \(UNESCO Social and Human Sciences Sector\)](#) 

[GEOBs: Global Ethics Observatory](#) 

[GOAP: Global Open Access Portal](#) 

[TVET - World database: Country profiles](#) 

[WINS: Water Information Network System](#) 

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▾ Select data by Sustainable Development Goals (SDGs)

All

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<p>10 REDUCED INEQUALITIES</p> <p><input checked="" type="checkbox"/> SDG 10. Reduce inequality</p>	<p>11 SUSTAINABLE CITIES AND COMMUNITIES</p> <p><input checked="" type="checkbox"/> SDG 11. Sustainable cities and communities</p>	<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> <p><input checked="" type="checkbox"/> SDG 12. Responsible consumption and production</p>	<p>13 CLIMATE ACTION</p> <p><input checked="" type="checkbox"/> SDG 13. Climate action</p>	<p>14 LIFE BELOW WATER</p> <p><input checked="" type="checkbox"/> SDG 14. Life below water</p>	<p>15 LIFE ON LAND</p> <p><input checked="" type="checkbox"/> SDG 15. Life on land</p>	<p>16 PEACE, JUSTICE AND STRONG INSTITUTIONS</p> <p><input checked="" type="checkbox"/> SDG 16. Peace, justice and strong institutions</p>	<p>17 PARTNERSHIPS FOR THE GOALS</p> <p><input checked="" type="checkbox"/> SDG 17. Partnership for the goals</p>	

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Impact of Research and Innovation on SDGs | STI Operational Policy Instruments | listed by countries

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Country : [Algeria](#)

Title of the instrument: *Grand Challenge 2018 - DGRSDT*

Overview: *Algeria is at a turning point in its economic strategy which is moving towards emerging models articulated on globalization, and underpinned by research and development, business competitiveness and innovation ...*

Language: *English*

STI Supply and Demand Sides: *Fostering STI's demand side*



SGDs :



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Title of the instrument: *Innovative projects - ANVREDET*

Overview: *The National Agency for the Valorisation of the Results of Research and Technological Development (ANVREDET) launches a call for submission of innovative research projects towards Universities, University Centers, Higher Normal Schools, Centers and ...*

Language: *English*

STI Supply and Demand Sides: *Fostering the link between STI's demand and supply sides*



SGDs :



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Title: Cracking the code: girls' and women's education in science, technology, engineering and mathematics (STEM)

Imprint: Paris, UNESCO, 2017

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Issue: 2

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Title: SAGA Science, Technology and Innovation Gender Objectives List

Issue: 1

Imprint: Paris, UNESCO, 2016

Original Language: English

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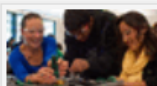
Library: Specialized collections

Title: Closing the gender gap in STEM: drawing more girls and women into science, technology, engineering and mathematics

Imprint: Bangkok, UNESCO Office Bangkok, 2016

Original Language: English

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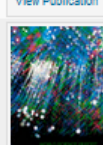
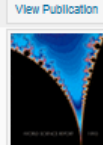
Library: Specialized collections

Title: Be part of the change! STEM and Gender Advancement (SAGA): improved measurement of gender equality in science, technology, engineering



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Q Results for the search of 'women'

Table name	English	Spanish	French	Russian	Arab	Chinese	All
Archive of STI policy reviews (1960-2015)	1	-	-	-	-	-	1
Inventory of STI Institutions	9	1	-	-	-	-	10
STI Operational Policy Instruments	80	41	12	-	-	-	133
STI Legal Framework	32	8	14	-	-	-	54
Digital Library	46	1	1	-	-	2	51
STI personnel trade unions and syndicates	-	1	-	-	-	-	1











Total: 250



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Results for Paraguay

- ▶  Socio-Economic National Development Plans
- ▶  National STI Policy Documents
- ▶  Content Analysis of the STI National Policy
- ▶  Archive of STI policy reviews (1960-2015)
- ▶  STI Legal Framework
- ▶  STI Policy Cycle
- ▶  Inventory of STI Institutions
- ▶  STI Operational Policy Instruments
- ▶  Indicators 



ASANTE SANA





Time for questions



... Thank you very much
For your kind attention!



Last run

