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**Guidelines and Tools for Implementation, Coordination and
Regulation of Science, Technology and Innovation in Angola**

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REPUBLIC OF ANGOLA

MINISTRY OF HIGHER EDUCATION, SCIENCE AND TECHNOLOGY

Guidelines and Tools for implementation, coordination and regulation of Science, Technology and Innovation in Angola

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SUMMARY

I- Assessment of STI in Angola

II – Main documents, regulating STI in Angola:

- ✓ *National Policy for Science, Technology and Innovation (NPSTI)*
- ✓ *National Strategy of Science, Technology and Innovation (NSSTI)*
- ✓ *Coordinating Mechanism of the National System of STI (CMNSSTI).*
 - *Main pillars for the implementation of the NPSTI.*

III – Conclusions



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ASSESSMENT OF STI IN ANGOLA

- ✓ Regarding the strategic importance of STI, Angolan Government requested in 2005 from UNCTAD (*United Nations Conference on Trade And Development*) the assessment of STI in Angola.
- ✓ The results of this survey were displayed in 2008 ("*Science Technology and Innovation Policy-STIP. Review, 2008*");
- ✓ Complementary a group of Angolan exporters did other studies (2009-2010), that included a detailed analyse of the National Strategic Plan for Long-term Development up to 2025 (Angola) and also carried out some comparative studies.



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RESULTS OF THE ASSESSMENT OF STI IN ANGOLA

Characterisation of STI (1)

- ✓ Absence of an articulation between different actors involved in R&D;
- ✓ Dispersion of available resources, initiatives and efforts;
- ✓ Absence of a clear mechanism of funding of STI activities, regarding the sustainable development.



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RESULTS OF THE ASSESSMENT OF STI IN ANGOLA

Characterisation of STI (2)

- ✓ Before, scientific activities were carried out without clear guidelines and areas that should be prioritized.

- ✓ The absence of a National System of STI was a factor that not stimulated good practices and scientific production that significantly could support the development of the country.



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RESULTS OF THE ASSESSMENT OF STI IN ANGOLA

Legal framework for STI policy

- ✓ Legal framework for creation of NPSTI and Development of a National System of STI:
 - a) Law n.º 12/91;*
 - b) Law n.º 23/92;*
 - c) National Constitution (5 February 2010)*

- ✓ National Strategic Plan for Long-term Development up to 2025 (Angola)



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DOCUMENTS REGULATING STI IN ANGOLA (1)

NPSTI

Definitions

- The National Policy for Science, Technology and Innovation is the set of objectives that are consistent with the Government's Program in the STI area, serving as a regulatory instrument for its implementation.
- The National System of STI is the set of national scientific and technological resources - human, financial and institutional - and activities involving the creation, dissemination and application of knowledge (*Presidential Decree 224/11, 20 August*).



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DOCUMENTS REGULATING STI IN ANGOLA (2)

NPSTI: vision

The way - our dream!

- The vision for the development of Science, Technology and Innovation in Angola is the inclusion of science, technology and innovation in the Country Development Strategy so that in a long-term a society of knowledge is built up, whose attributes serve as determinants combating poverty and improving living conditions of citizens in harmony with nature.



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DOCUMENTS REGULATING STI IN ANGOLA (3)

NPSTI: mission

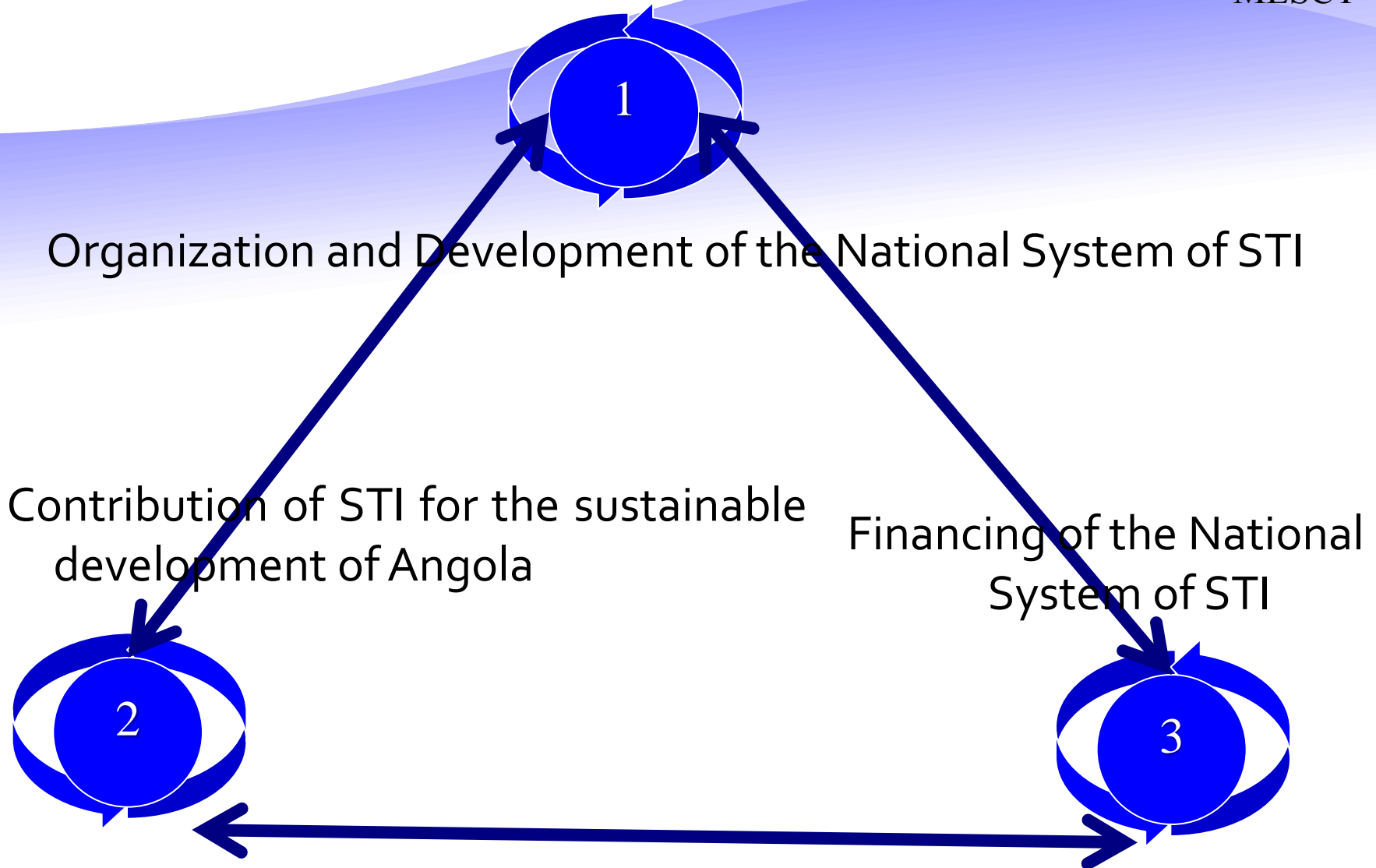
What to achieve for implementation of the vision?

- The NPSTI should be a tool for the implementation of the Angolan National System for Science, Technology and Innovation and for leveraging the economic and social development of the country, the resolution of structural problems of economy, management and efficient use of natural resources and maintaining the security and sovereignty of the Angolan state, in order to become a reference in the African continent.



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NPSTI



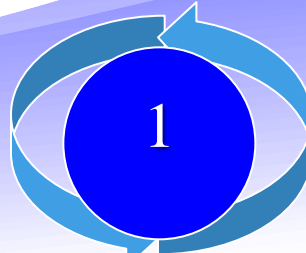


NPSTI

General Objectives (1)



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Organization and Development of the National System of STI

- I. Capacity building;
- II. Creation and strengthening of the material basis;
- III. Scientific and technological co-operation;
- IV. Legal framework and institutionalization of the National System of STI

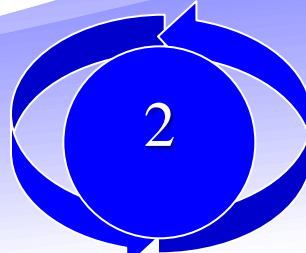


NPSTI

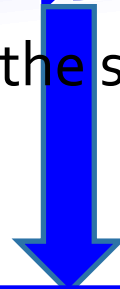


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General Objectives (2)



Contribution of STI for the sustainable development of Angola



- V. Promotion of scientific culture;
- VI. Response to issues on Defense, Security, Social, Culture and Environment.
- VII. Economic and Entrepreneurial Development;
- VIII. Action of STI in the Governance.

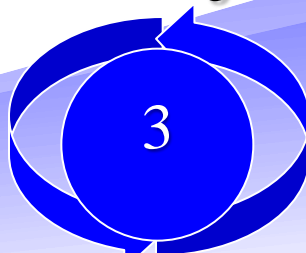


NPSTI



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General Objectives (3)



Financing of the National System of STI

IX. Financing R&D and innovation

- *Human resources*
- *R&D activities*
- *Scientific divulgation*
- *Creation and strengthening of the material basis*
- *Cooperation*
- *Mobilisation of founding*

Specific Objectives



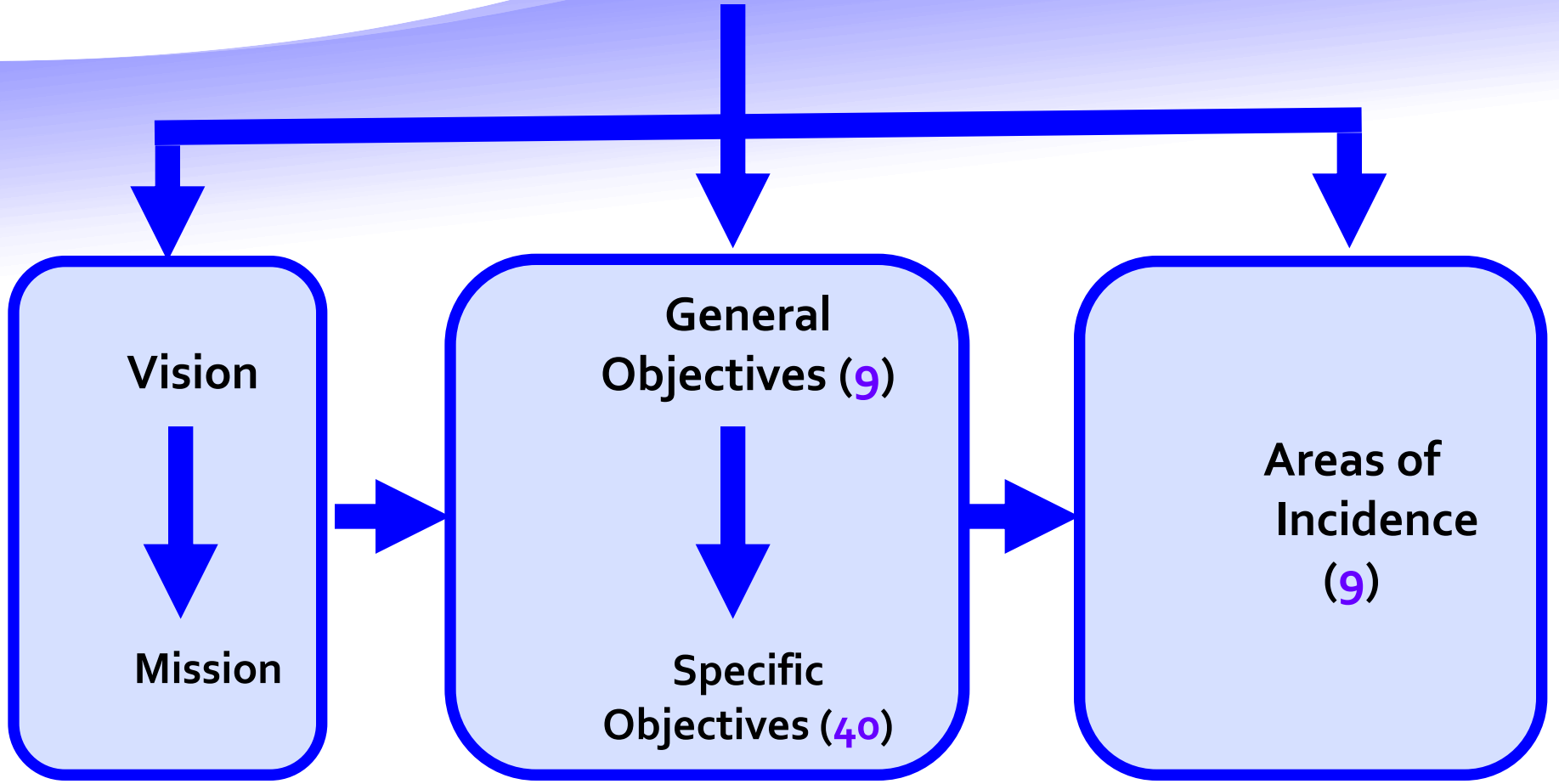
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Areas of incidence of the NPSTI

- Education, Culture and Professional Training;
- Higher Education;
- Agriculture and Fisheries;
- Information and communication technologies;
- Industry, Oil, Gas and Mineral Resources;
- Health;
- Water resources;
- Energy;
- Environment.



NPSTI





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DOCUMENTS REGULATING STI IN ANGOLA (4)

National Strategy for STI

What and to whom to do? By whom? When and where? Costs!?

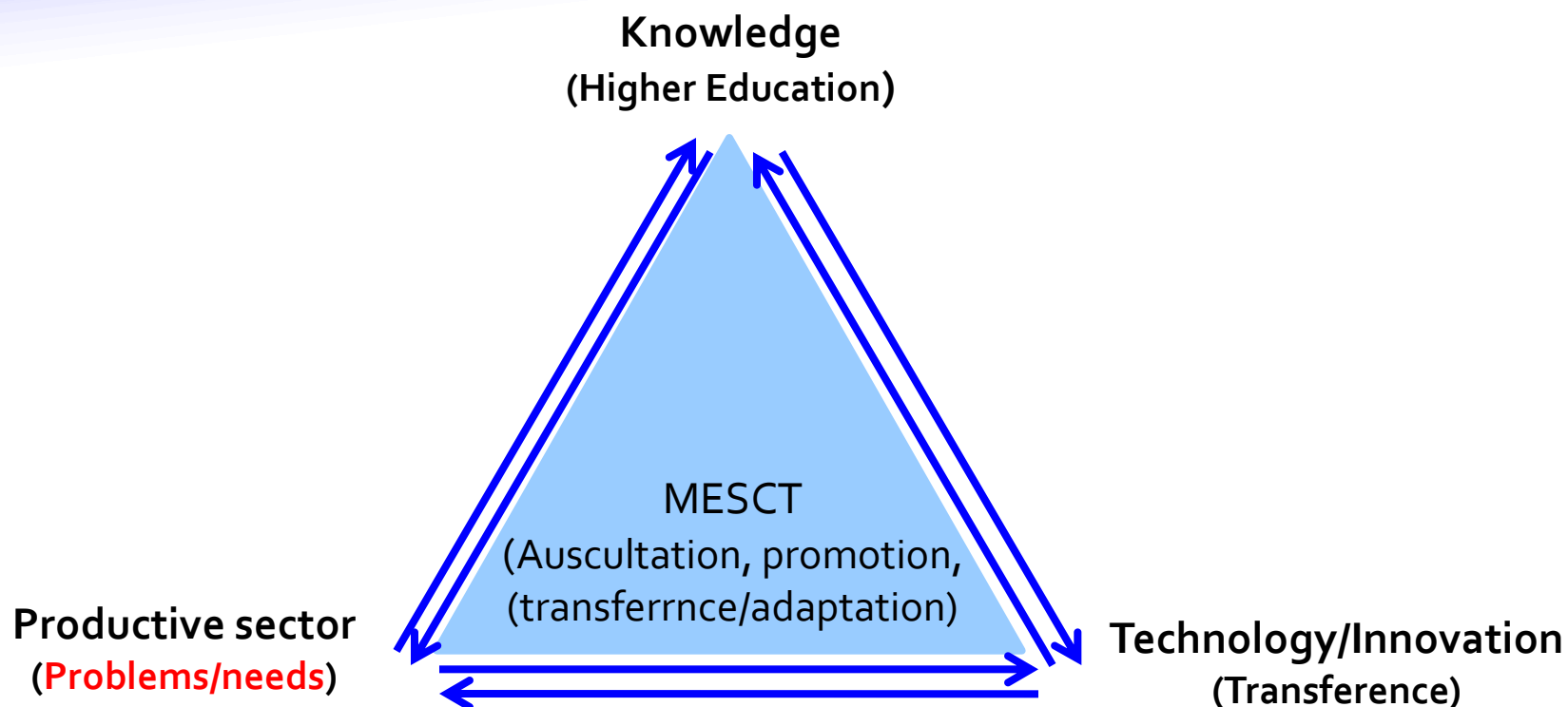
- **The National Strategy for Science, Technology and Innovation (NSSTI)** aims to establish ways and means for attaining the objectives of the Executive (Government) in the short- and medium-term, in accordance with the vision and mission of the NPSTI.



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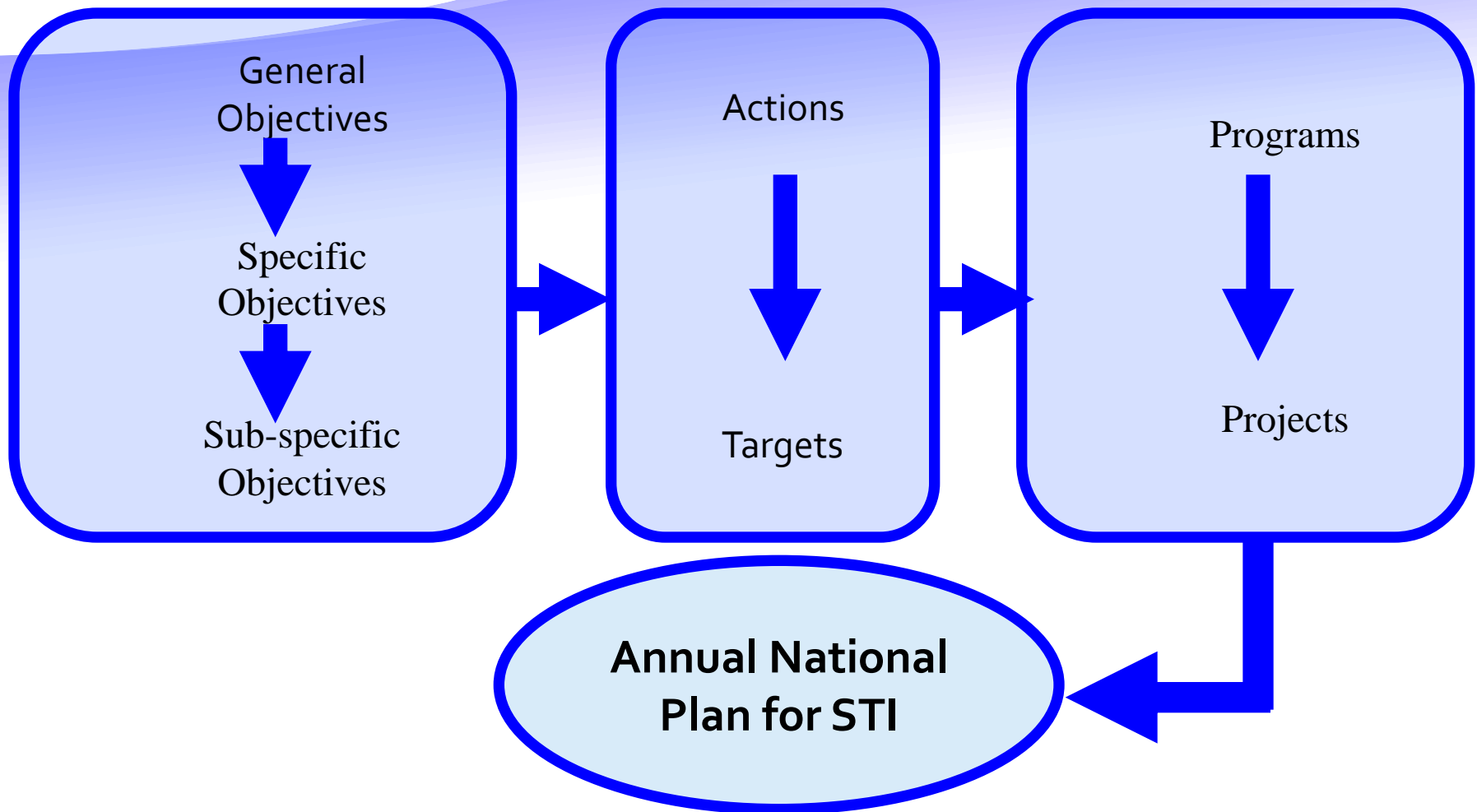
DOCUMENTS REGULATING STI IN ANGOLA (5)

National Strategy for STI



DOCUMENTS REGULATING STI IN ANGOLA (6)

National Strategy for STI





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DOCUMENTS REGULATING STI IN ANGOLA (7)

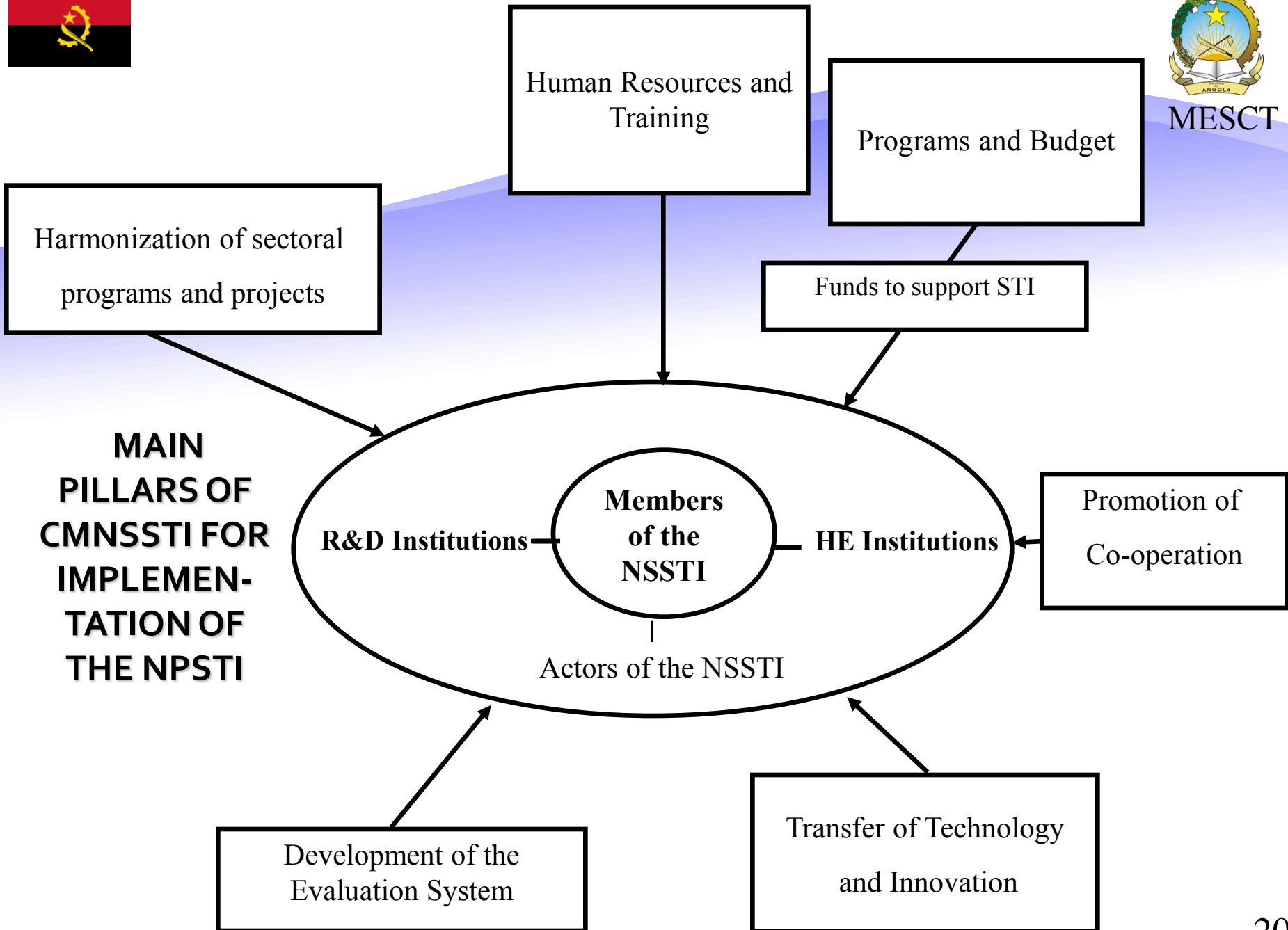
Coordinating Mechanism of the National System for STI

How to do?

- **The Coordinating Mechanism of the National System of STI** aims to strengthen coordination and supervision to improve the link between different agencies or institutions that are part of the NSSTI.



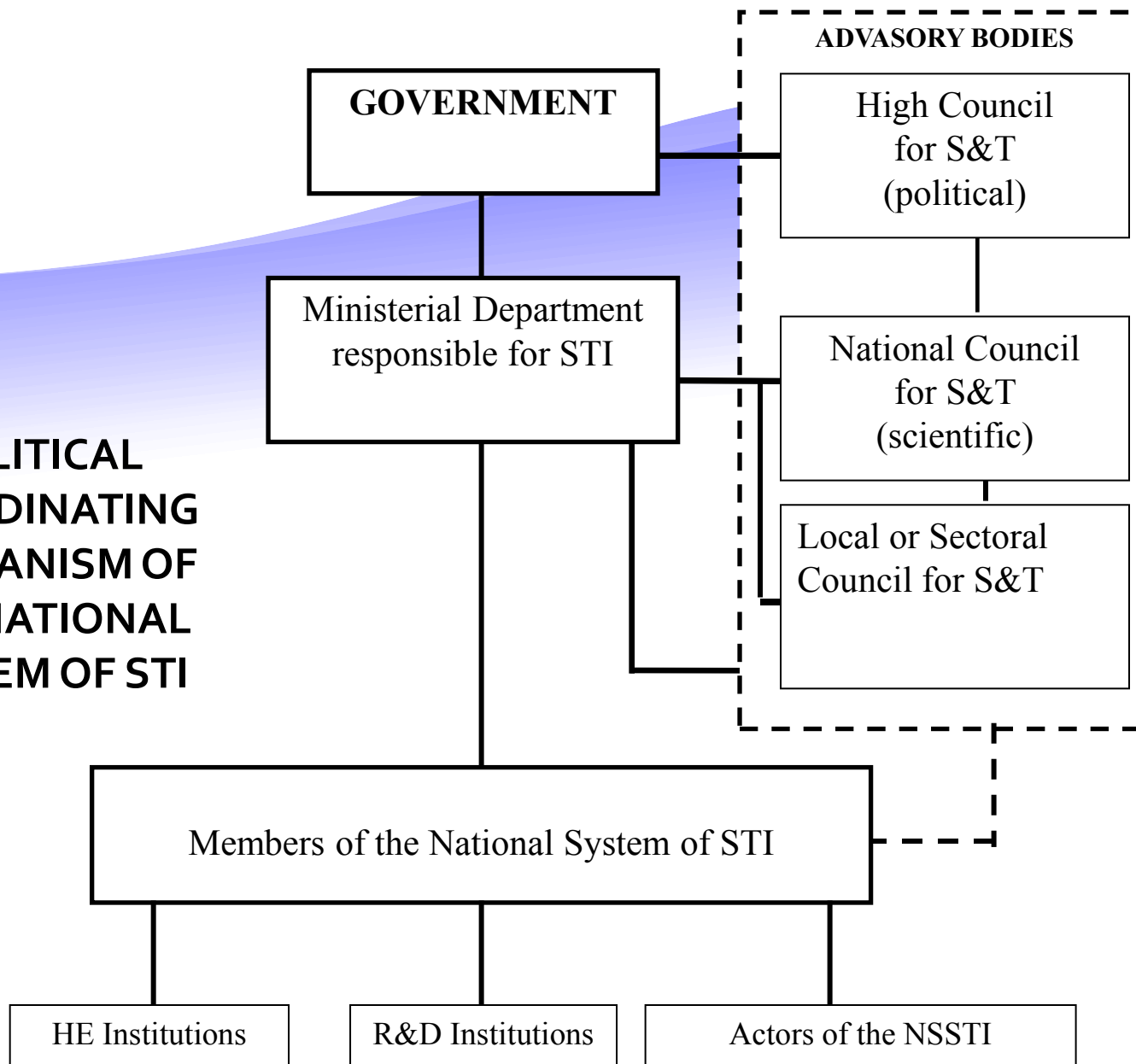
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POLITICAL COORDINATING MECHANISM OF THE NATIONAL SYSTEM OF STI





Guidelines and Tools for implementation, coordination and regulation of Science, Technology and Innovation in Angola

These tools were approved by the Council of Ministers on 1 June 2011, namely:

- ✓ NPSTI (*Presidential Decree 201/11, 20 July*)
- ✓ National Strategy for STI (*Presidential Decree 196/11, 11 July*)
- ✓ Coordinating Mechanism of the National System of STI (*Presidential Decree 224/11, 20 August*)

CONCLUDING REMARKS (1)

NSSTI

NPSTI

CMNSSTI

Source: <http://ciencias7.blogs.sapo.pt>



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CONCLUDING REMARKS (2)

- 1) Angolan Government has a propose to use science and technology as a fundamental tool to promote the sustainable socio-economic development and a factor of unity, promoting social peace and rapprochement between peoples and strengthening regional and international co-operation;
- 2) The establishment of a knowledge society through the integration of science, technology and innovation in the development strategy of the country is a key factor to build a modern, economically competitive society that allows sustainable development, combating poverty and improving the citizen's quality of life;
- 3) The institutionalization, consolidation and improvement of the National System of Science, Technology and Innovation should be the short way to achieve the referred above objectives and to reach better coordination, articulation and complementarity of initiatives, efforts and synergies of all its actors and other elements of society.

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