IAEA
International Atomic Energy Agency
Atoms for Peace and Development

Fourth Meeting of the South East European International Institute for Sustainable Technologies (SEEIIST) Steering Committee

Vienna

27 November 2018

TC Programme Cycle Management

PROGRAMME PLANNING & APPROVAL

1. Upstream work
2. Concepts & Prioritization
3. Project design
4. Resourcing & budgeting
5. Internal Approval
6. Approval by TACC/Board

PROGRAMME IMPLEMENTATION

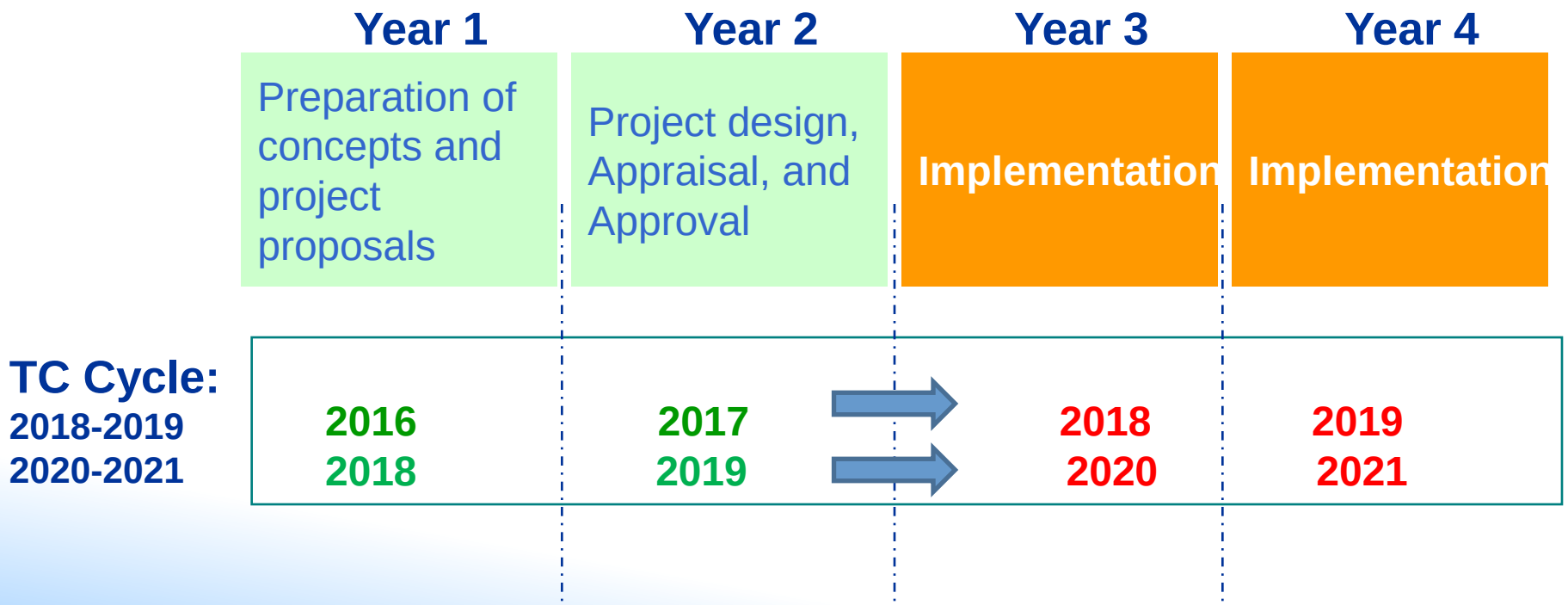
1. Operational execution
2. Monitor progress
3. Make adjustments
4. Report performance / Self Assessment
5. Project closure

PROGRAMME REVIEW

1. Independent Evaluation
2. Self Assessment
3. Impact Assessment
4. Follow-up adjustments and implementation of recommendations

TC Programme Cycle

Bi-annual cycle + 2 preparation years



What's next? - project design phase

31 May 2018
- Submission of Regional Progamme Note

14 September 2018
- Submission of draft regional project design

Oct. /Nov. 2018
- TC Workshop on Project Design

26 – 27 November 2018
- NLO Meeting (NOW!)

14 December 2018
- Submission of feedback to MSs

April 2019
- NLO Meeting: Voting for recommendation of regional projects for BoG approval

17 May 2019
- Project designs finalized in PCMF

July 2019
- Clearance of proposed TC programme

Sept. – Oct. 2019
- Quality Review

November 2019
- Review of TC prog. By TACC

November 2019
- Approval by BoG

TC project types

National

Infrastructure building

Address country's specific needs

About 60-65% of the programme

Regional

Networking and experience sharing

Address issues of common interest and issues of regional dimension

Interregional

Networking and experience sharing

Address issues of common interest to the four regions

TC Programme Services

Training fellowships & scientific visits

Equipment & materials

Training courses & workshops

Capacity building

Networking

Knowledge sharing

Partnership building

TC Programme aims to support sustainable socioeconomic development in Member States

Technical Cooperation (TC) Projects

Expert assistance

Conferences, symposia & seminars

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RER2018009 PROJECT PROPOSAL

Title: Human Resources Development for setting-up a Hadron Therapy Centre within a Joint South-East European International Institute for Sustainable Technologies (SEEIIST)

Development Objective: To build a critical mass of initially needed human resources for design, construction, operation and developing the scientific program for the merits of the emerging hadron tumour therapy and research facility –SEEIIST

Target countries: Albania, Bosnia and Herzegovina, Bulgaria, Montenegro, Serbia, Slovenia, and The Frmr. Yug. Rep. of Macedonia

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RER2018009 FOCAL PROBLEM

The initiative by the SEEIIST to establish a state-of-the-art 'Facility for Tumour Therapy and Biomedical Research with Protons and Heavier Ions' will require building of human resource capabilities in the SEE Region.

The IAEA is requested to provide capacity building support for:

- designing and building of an accelerator-based large-scale research facility,
- training of scientist, medical practitioners, and engineers in various specialized fields and their networking.

Expected Project Results

Outcome	Critical mass of researchers, engineers, technicians and medical doctors needed to design, construct, and operate the hadron tumour therapy (HT) facility, established
Outputs	1. Scientists and engineers have acquired knowledge to design, construct, operate the hadron tumour therapy facility (Infrastructure aspects). 2. Medical practitioners and engineers acquired knowledge on fundamentals of the HT (clinical and operational aspects) 3. Sustainable communication and dissemination platform introduced among different partners to promote networking, knowledge sharing, and scientific research in HT
Activities	**Fellowships, Scientific Visits, Expert Missions, Workshops, etc.**

Memorandum of Understanding

Signed on December 2006

Consistent with the efforts to promote regional and interregional cooperation in the peaceful uses of nuclear science….

Have agreed to implement the interregional human resources project in accordance with the arrangements and understandings in a spirit of friendly cooperation.

Bahrain, Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, Palestine, Turkey

Observers: China, France, Germany, Greece, Italy, Japan, Kuwait, Portugal, Russian Federation, Sweden, Switzerland, UK, USA

SESAME: an Interregional project

2007-2010:

INT1055: "Support for Human Capacity Building in the Utilization and Operation of the Synchrotron-light for Experimental Science and Applications for the Middle East (SESAME)"

To strengthen international cooperation among Member States participating in SESAME through the use of accelerator physics and synchrotron radiation applications.

2012-2015

INT0086: "Building Human Capacity for the Construction, Operation and Use of SESAME"

To support the human capacity development for the installation, commissioning, safe operation and utilization of the SESAME facility as an international center of excellence for research and applications in the Middle East.

2016-2019

INT0092: "Building Human Capacity for the Construction, Operation and Use of Synchrotron-Light for Experimental Science and Applications for the Middle East"

To establish SESAME as a leading research center of excellence open to all scientists, thereby fostering science and technology in the region and building bridges between the different cultures and countries of the region (Science for peace).

The IAEA TC on SESAME

Examples of Expert support :

- Construction and installation of the Booster
- Site acceptance tests of the Booster power supplies
- Review of Vacuum System of the SESAME Storage Ring

Some fellowships on:

- Capacity building plan of SESAME
- Implementation of the personnel safety
- Performing measurements on synchrotron facilities
- IT infrastructure for the accelerator computer network
- Design and analysis of girder-magnets support system
- RF electronics
- Theoretical and experimental training on accelerator physics
- Extended X-ray absorption

IAEA participates in the Council meetings

The IAEA TC on SESAME

The users of the SESAME facilities were trained in accelerator physics and synchrotron radiation applications.

The operators of the SESAME facilities were trained in operation and maintenance of the synchrotron.

The project contributed to the establishment of the legal documentation for the safe commissioning and operation of the SESAME facilities.

The project strengthened the international cooperation among Member States participating in SESAME through the use of accelerator physics and synchrotron radiation.

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IAEA | Technical Cooperation Programme

Technical cooperation: delivering results for peace and development