IAEA TC Programme Achievements in the 21st Century

Progress and Impact

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# **Food and Agriculture**

## Relevance: evolution of the contribution of the TC Programme in achieving results

**From NLO 1:** How would you define the degree to which the TC programme has contributed to achieving results in each area of support in your country?

* QA of the responses: 47% of the answers were left unanswered.
* 50 out of the 181 respondents answered all the questions in this section.
* The data could be aggregated by thematic area, region, country, foa.
* Chart below shows a rapid scan of the answers given by region.

A screenshot of a graph

Description automatically generated

## Effectiveness: Evolution of introduction of improvements by TCP

**From NLO 1:** Please indicate the estimated time range when the improvements introduced by TC programme in each area were achieved in your country.

* Could be aggregated by theme, FOA, region.
* QA of the responses: 49% of the answers were left unanswered.
* 53 out of the 181 respondents answered all the questions in this section.
* Chart below shows a rapid scan of the results. The chart is groped by improvement of FOOD and AGRICLTURE and region only to serve as an example of how these data could be analysed.

A screenshot of a computer screen

Description automatically generated

## Sustainability: Evolution of tangible results brought by the TCP

**From NLO1:** Please indicate the estimated period when the improvements, introduced by the TC programme, have produced tangible results in the country.

* Could be aggregated by theme, region, foa.
* QA of responses: 50% of the questions were left unanswered.
* Out of the 181 interviews, only 46 answered all the questions of this section.
* The chart below is an example of how these data could be analysed.

A screenshot of a computer

Description automatically generated

## Regional Cooperation Agreements: Value added by participating.

**From NLO1:** What has been the value added by participating in activities led by the Regional Cooperation Agreements in the context of the TC Programme?

* Could be aggregated by theme, region, foa
* QA of responses: 67 respondents (out of 181) skipped this section without responding a single question.
* Example of how the data could be analysed.

A screenshot of a graph

Description automatically generated

## Visibility: Contribution of the TCP to the socio-economic development of countries.

**From NLO1:** In your opinion, how visible is the contribution of the IAEA TC programme to socioeconomic development in the different areas supported in your country?

* QA of responses: 67 out of the 181 respondents did not answer this section.
* Data could be aggregated by region, country, theme, foa
* Example of analysis:

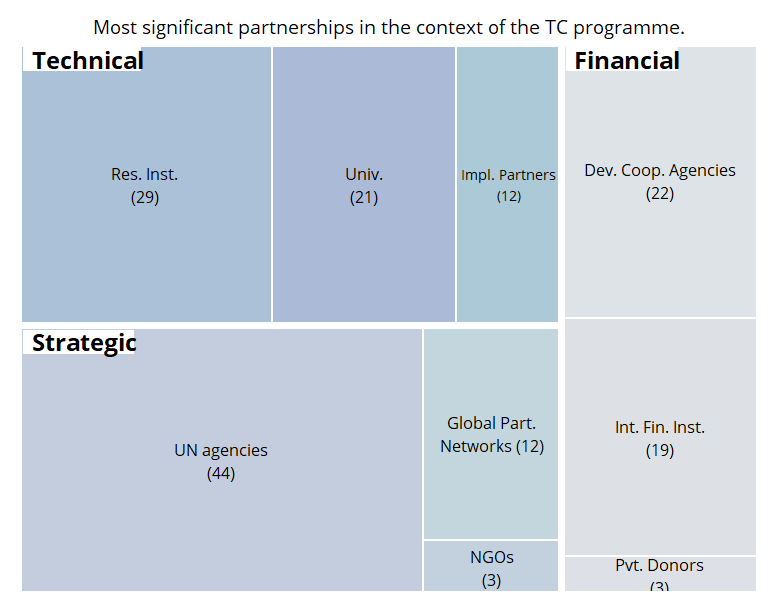
A graph of blue and white squares

Description automatically generated

## Partnerships: Significant partnerships established during the last 20 years

**From NLO1:** What are the most significant partnerships in the context of the TC programme thathave been established in your country during the last 20 years in the different thematic areas?

* Could be grouped by sector and theme



## Impact (from NLO2)

The following table shows the number of answered questions by each section of the NLO II questionnaire. Questions for each FOA where only enabled if the respondent selected that FOA in a leading question. Thus, the table is to be read as follows:

* Question: is the question number in the online survey
* Label: is the exact question that was asked
* n\_answered: number of respondets that answered that question
* interviews: number of interviews for which this question was enabled (i.e number of times that the FOA was selected)
* p\_answered: Percentage of respondents for whom should have responded the question

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | **label** | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Increased sustainable crop and improved climate resilience in agriculture | How many National New Seed Distribution Programmes have been supported by IAEA TC programme are currently in place in your country? | q0006 | 44 | 70 | 63% | 37% |
| Increased sustainable crop and improved climate resilience in agriculture | How many operational labs that have been supported by IAEA TC Programme are applying enhanced biotechnology and accelerated mutation techniques in your country? | q0007 | 50 | 70 | 71% | 29% |
| Increased sustainable crop and improved climate resilience in agriculture | Please provide the names of the operational labs that have been supported been by IAEA TC Programme in your country applying enhanced biotechnology and accelerated mutation techniques. | q0008 | 48 | 70 | 69% | 31% |
| Improved food authenticity, quality and reduce contaminants and residues in the food supply | How many labs have been established in your country with the support of the IAEA TC programme for food authenticity, food safety, and related purposes? | q0009 | 34 | 60 | 57% | 43% |
| Improved food authenticity, quality and reduce contaminants and residues in the food supply | Please provide the names of the labs supported by the IAEA TC programme that have been established in your country for food authenticity, food safety, and related purposes. | q0010 | 33 | 60 | 55% | 45% |
| Improved food authenticity, quality and reduce contaminants and residues in the food supply | How many testing laboratories supported by the IAEA TC programme are currently in place in your country? | q0011 | 33 | 60 | 55% | 45% |
| Improved food authenticity, quality and reduce contaminants and residues in the food supply | Please provide the names of the testing laboratories supported by the IAEA TC programme that are currently in place in your country. | q0012 | 31 | 60 | 52% | 48% |
| Improved food authenticity, quality and reduce contaminants and residues in the food supply | Are there currently any radiation surveillance programmes in your country in place that are supported by the IAEA TC programme? | q0013 | 34 | 60 | 57% | 43% |
| Enhanced livestock | Has there been any reported increase in food security in your country due to the introduction of genetic breeding techniques as a result of support from the IAEA TC programme? | q0014 | 27 | 44 | 61% | 39% |
| Enhanced livestock | How many laboratories, institutions or centres with capacity for livestock reproduction and breeding practices have been supported by the IAEA TC programme? | q0015 | 23 | 44 | 52% | 48% |
| Enhanced livestock | Please provide the names of the laboratories, institutions or centres with capacity for livestock reproduction and breeding practices supported by the IAEA TC programme: | q0016 | 22 | 44 | 50% | 50% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | How many centres in your country have received  IAEA TC programme support for developing, planning, and implementing regional or area-wide strategies for pest control speciﬁcally targeting fruit ﬂies? | q0017 | 42 | 72 | 58% | 42% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | Please provide the names of the centres in your country that received support from the IAEA TC programme to develop, plan and implement regional or area-wide strategies for pest control, speciﬁcally targeting fruit ﬂies? | q0018 | 36 | 72 | 50% | 50% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | How many centres in your country have received IAEA TC programme support to develop, plan and implement regional or area-wide strategies for pest control, speciﬁcally targeting mosquitoes? | q0019 | 38 | 72 | 53% | 47% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | Please provide names of the centers that have been supported by IAEA TC Programme in developing, planning, and implementing regional or area-wide strategies for pest control specifically targeting mosquitoes? | q0020 | 31 | 72 | 43% | 57% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | How many centres in your country have received support from the IAEA TC programme to develop, plan and implement regional or area-wide strategies for pest control of pests such as new world screwworm, etc.? | q0021 | 36 | 72 | 50% | 50% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | Please provide the names of the centres in your country that have received support from the IAEA TC programme to develop, plan and implement regional or area-wide strategies for pest control of pests such as new world screwworm, etc.? | q0022 | 29 | 72 | 40% | 60% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | Is there a surveillance system in place in your country for the timely detection of invasive regulated insect pests and vectors that has been supported by the IAEA TC programme? | q0023 | 35 | 72 | 49% | 51% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | How many centres in your country have received IAEA TC programme support speciﬁcally for COVID-related eﬀorts? | q0024 | 39 | 72 | 54% | 46% |
| Improved surveillance, detection, and control of major insect pests of agricultural and veterinary importance, including | Please provide names of the centers in you country that have been supported supported by IAEA TC Programme speciﬁcally for COVID-related eﬀorts? | q0025 | 37 | 72 | 51% | 49% |

## Future perspective: Importance of the TCP in achieving results in the future.

**From NLO1:** To the best of your knowledge (based for example on the CPF or on any current trends of engagement), how important will the contribution of the TC programme be in achievingresults in the following areas in your country over the next 5-10 years?

* Could be aggregated by region, theme, improvement.
* QA of responses: 84 of the 181 respondents did not respond to this section
* Example of how these data could be analysed:

A screenshot of a graph

Description automatically generated

# **Health and Nutrition**

## Impact (from NLO2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | **label** | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | Have your country had a Ministry of Health endorsed national cancer control programme (NCCP)? | q0027 | 68 | 75 | 91% | 9% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | Have your country had a national cancer control programme (NCCP) governance structure/ system? | q0028 | 68 | 75 | 91% | 9% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are currently in operation? | q0029 | 51 | 75 | 68% | 32% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are no longer in operation ? | q0029 | 45 | 75 | 60% | 40% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are not yet operational? | q0029 | 45 | 75 | 60% | 40% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | What is the total number? | q0029 | 58 | 75 | 77% | 23% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | Please provide the names of diagnostic imaging centres in your country that have received support through the IAEA TC programme that are currently in operation. | q0031 | 56 | 75 | 75% | 25% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are currently in operation? | q0032 | 47 | 75 | 63% | 37% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are no longer in operation? | q0032 | 45 | 75 | 60% | 40% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | How many of them are not yet operational? | q0032 | 44 | 75 | 59% | 41% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | What is the total number? | q0032 | 55 | 75 | 73% | 27% |
| Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security consideratio | Please provide the names of treatment centres in your country that have received support through the IAEA TC programme that are currently in operation. | q0035 | 59 | 75 | 79% | 21% |
| Increased production and use of safe radioisotopes and radiopharmaceuticals to be used in medical applications | How many centres in your country that have received support from the IAEA TC programme are currently using medical radioisotopes for local radiopharmaceutical preparations? | q0037 | 36 | 44 | 82% | 18% |
| Increased production and use of safe radioisotopes and radiopharmaceuticals to be used in medical applications | Please provide the names of the centres in your country that have received support from the IAEA TC programme that are currently using medical radioisotopes for local radiopharmaceutical preparations? | q0038 | 33 | 44 | 75% | 25% |
| Increased production and use of safe radioisotopes and radiopharmaceuticals to be used in medical applications | Has your country received support from the IAEA TC programme for the establishment of governance for radiopharmaceutical health regulations? | q0039 | 34 | 44 | 77% | 23% |
| Increased effectiveness of nutrition programmes interventions and practices | Has any institution in your country in collaboration with the IAEA TC programme contributed to evidence-based decision-making on national nutrition intervention programmes for children? | q0040 | 27 | 32 | 84% | 16% |
| Increased effectiveness of nutrition programmes interventions and practices | How many institutions in your country in collaboration with IAEA TC programme contributed to evidence-based decision-making on national nutrition intervention programmes for children? | q0041 | 24 | 32 | 75% | 25% |
| Increased effectiveness of nutrition programmes interventions and practices | Please provide the names of institutions in your country that, in partnership with IAEA TC programme, have made contributions to evidence-based decision-making on national nutrition intervention programmes for children? | q0042 | 20 | 32 | 62% | 38% |
| Increased effectiveness of nutrition programmes interventions and practices | Has any institution in your country in collaboration with IAEA TC programme contributed to establishment or modification in nutrition policies/strategies for pregnant women and infants? | q0043 | 27 | 32 | 84% | 16% |
| Increased effectiveness of nutrition programmes interventions and practices | How many institution in your country in collaboration with IAEA TC programme contributed to establishment or modification in nutrition policies/strategies for pregnant women and infants? | q0044 | 22 | 32 | 69% | 31% |
| Increased effectiveness of nutrition programmes interventions and practices | Please provide the names of institutions in your country that, in partnership with IAEA TC programme, have made contributions to establishment or modification in nutrition policies/strategies for pregnant women and infants? | q0045 | 16 | 32 | 50% | 50% |
| Increased effectiveness of nutrition programmes interventions and practices | Has any institution  in your country in partnership with the IAEA TC programme, made contributions to establishment or modification in nutrition policies/strategies for the elderly population? | q0046 | 26 | 32 | 81% | 19% |
| Increased effectiveness of nutrition programmes interventions and practices | How many institutions in you country in partnership with the IAEA TC programme, have made contributions to establishment or modification in nutrition policies/strategies for the elderly population? | q0047 | 18 | 32 | 56% | 44% |
| Increased effectiveness of nutrition programmes interventions and practices | Please provide the names of institutions in your country that, in partnership with the IAEA TC programme, have made contributions to establishment or modification in nutrition policies/strategies for the elderly population? | q0048 | 14 | 32 | 44% | 56% |
| Improved surveillance, detection and control of major insect pests, including emerging or re-emerging zoonotic diseases | How many centres in your country have received support from the IAEA TC programme to develop, plan and implement Sterile Insect Technique for mosquito pest control? | q0049 | 37 | 43 | 86% | 14% |
| Improved surveillance, detection and control of major insect pests, including emerging or re-emerging zoonotic diseases | Please provide the names of the centres in your country that have received support from the IAEA TC Programme to develop, plan and implement Sterile Insect Technique for mosquito pest control? | q0050 | 31 | 43 | 72% | 28% |
| Improved surveillance, detection and control of major insect pests, including emerging or re-emerging zoonotic diseases | How many centres in your country have received support from the IAEA TC programme to develop, plan and implement Sterile Insect Technique for control of zoonotic diseases? | q0051 | 37 | 43 | 86% | 14% |
| Improved surveillance, detection and control of major insect pests, including emerging or re-emerging zoonotic diseases | Please provide the names of the centres in your country that have received support from the IAEA TC programme to develop, plan and implement Sterile Insect Technique for control of zoonotic diseases? | q0052 | 32 | 43 | 74% | 26% |

# **Energy Planning and Nuclear Power**

## Impact (from NLO2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | **label** | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Improved energy planning and inform policies to meet future energy needs | Has your country utilized IAEA energy modelling tools to develop energy plans? Please select all tools that apply: | q0054 | 23 | 40 | 57% | 43% |
| Supported clean energy production and safe introduction, operation, and lifetime management of nuclear power | How many nuclear power plants (PPs) are currently in operation within your country’s nuclear power programme? | q0056 | 18 | 25 | 72% | 28% |
| Supported clean energy production and safe introduction, operation, and lifetime management of nuclear power | If your country already has an operational nuclear power programme (NPP), in what areas has the country received support from the IAEA TC programme: | q0055 | 9 | 25 | 36% | 64% |
| Supported clean energy production and safe introduction, operation, and lifetime management of nuclear power | If your country is currently embarking on a nuclear power programme,  which milestones have been reached? | q0057 | 8 | 25 | 32% | 68% |

# **Industrial Applications and Radiation Technology**

## Impact (from NLO2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | **label** | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Improved efficiency, productivity, quality, and safety across industries, using nuclear technology | In which areas are non-destructive testing (NDT) applications being used in your country? Please select all that apply from the following options: | q0059 | 24 | 39 | 62% | 38% |
| Improved efficiency, productivity, quality, and safety across industries, using nuclear technology | How many irradiators are currently operational in your country? | q0060 | 30 | 39 | 77% | 23% |
| Improved efficiency, productivity, quality, and safety across industries, using nuclear technology | Please indicate the relevant thematic areas in your country that use industrial applications of irradiation. Select all that apply from the following options: | q0061 | 21 | 39 | 54% | 46% |
| Increased the safe and effective utilization, operation, and maintenance of research reactors | Is there a national strategic plan in place in your country for research reactors? | q0062 | 23 | 27 | 85% | 15% |
| Increased the safe and effective utilization, operation, and maintenance of research reactors | Is there a regulatory framework established in your country with the support of the IAEA TC Programme for research reactors? | q0063 | 23 | 27 | 85% | 15% |
| Increased the safe and effective utilization, operation, and maintenance of research reactors | How many research reactors in your country have obtained licenses or been commissioned with the assistance of the IAEA TC Programme? | q0064 | 22 | 27 | 81% | 19% |
| Increased the safe and effective utilization, operation, and maintenance of research reactors | How many research reactors in your country have undergone enhancements in their operation, utilization, and safety with the assistance of the IAEA TC Programme? | q0065 | 21 | 27 | 78% | 22% |

# **Water and Environment**

## Impact (from NLO2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | label | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Improved integrated, sustainable land and water management practices for agriculture and freshwater resources | How many laboratories in your country have received support from the IAEA TC programme to establish or consolidate themselves as credible institutions for sample analysis, data interpretation, decision making and consultation? | q0067 | 40 | 45 | 89% | 11% |
| Improved integrated, sustainable land and water management practices for agriculture and freshwater resources | Please provide the names of these laboratories. | q0068 | 40 | 45 | 89% | 11% |
| Improved integrated, sustainable land and water management practices for agriculture and freshwater resources | Has an evidence-based water resource management strategy or plan been adopted, or is currently being developed, in your country with the support of the IAEA TC programme? | q0069 | 40 | 45 | 89% | 11% |
| Improved integrated, sustainable land and water management practices for agriculture and freshwater resources | Has any transboundary operational cooperation arrangements applied to transboundary basins used data or monitoring mechanisms supported by the IAEA TC programme?If yes, please specify which arrangements have made use of this support. | q0070 | 40 | 45 | 89% | 11% |
| Improved management and reduced pollution of land, air, coastal ecosystems, and the oceans, including from plastics | Are there regulations and/or strategies in place in your country for the prevention, remediation, and sustainable management of land, air, coastal zone, and marine environment that have been developed with the support of the IAEA TC programme? | q0071 | 29 | 32 | 91% | 9% |
| Improved management and reduced pollution of land, air, coastal ecosystems, and the oceans, including from plastics | Has the IAEA TC programme provided support for the conduct of ocean monitoring activities in your country to assess the impact of the following factors? If yes, please tick the corresponding box: | q0072 | 12 | 32 | 38% | 62% |
| Improved management and reduced pollution of land, air, coastal ecosystems, and the oceans, including from plastics | Has the IAEA TC programme supported the establishment of plans and strategies in your country for the remediation or management of sites in your country contaminated by nuclear substances? | q0073 | 27 | 32 | 84% | 16% |

# **Nuclear Safety and Security**

## Impact (from NLO2)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **foa** | **label** | **question** | **n\_answered** | **interviews** | **p\_answered** | **p\_unanswered** |
| Improved nuclear installation safety | Has the national governmental and regulatory infrastructure needed for nuclear safety been established or enhanced with support of TC programme? | q0075 | 28 | 31 | 90% | 10% |
| Improved nuclear installation safety | In how many nuclear power plants in your country has safety been strengthened with the support of TC programme? | q0076 | 26 | 31 | 84% | 16% |
| Improved nuclear installation safety | In how many nuclear fuel cycle facilities in your country has safety been enhanced with the support of TC programme? | q0077 | 24 | 31 | 77% | 23% |
| Improved nuclear installation safety | In how many research reactors in your country has safety has been enhanced with the support of TC programme? | q0078 | 27 | 31 | 87% | 13% |
| Improved radiation safety | Has the governmental and regulatory infrastructure needed for radiation safety in your country been established or enhanced with the support of the IAEA TC programme? | q0079 | 63 | 65 | 97% | 3% |
| Improved radiation safety | Has radiation protection for workers, patients, and the public been strengthened in your country with the support of IAEA TC programme? | q0080 | 64 | 65 | 98% | 2% |
| Improved radiation safety | Has the management of radioactive waste in your country been improved with the support of the IAEA TC programme? | q0081 | 64 | 65 | 98% | 2% |
| Improved radiation safety | Have national capabilities and arrangements for emergency preparedness and response been established or enhanced in your country with the support of the IAEA TC Programme? | q0082 | 63 | 65 | 97% | 3% |
| Improved radiation safety | Has the safety of radiation material transport in your country been enhanced with the support of the IAEA TC programme? | q0083 | 63 | 65 | 97% | 3% |

# Contribution to Sustainable Development Goals

**From NLO1:** Have the nuclear technologies supported by TC programme made a direct contribution in achieving any of the Sustainable Development Goals (SDGs) in your country? If so, which ones?

**From NLO1**: Have any of the nuclear technologies supported by the TC Programme been used to report on SDG progress indicators?

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