We would like to invite you to participate in this survey on IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY (PART II).

Your insights will provide invaluable data that will enable us to measure and document the progress and impact that our collective efforts have brought about since the beginning of the 21st century.

The information gathered through the survey will be used to develop comprehensive publications that will be used to inform research into the impact of the TC programme and to guide the programme's development in the future.

IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II

PART 1. INFORMATION ABOUT RESPONDENT * 1. Please select your **role** the from dropdown list

	\$	
* 2. Please selec	et your country from the	dropdown list
	•	
* 3. Please enter yo	our first and last name	
First Name		
Last Name		

IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II

PART 2

THEMATIC AREAS

* 4. In which of the following thematic areas has the IAEA TC programme made a
substantial contribution to the socio-economic change in your country?
FOOD and AGRICULTURE
HEALTH and NUTRITION
ENERGY PLANNING and NUCLEAR POWER
INDUSTRIAL APPLICATIONS and RADIATION TECHNOLOGY
WATER and ENVIRONMENT
SAFETY AND SECURITY
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
FOOD and AGRICULTURE
5. In which of the following Fields of Activity has the TC programme made a substantial
contribution to socio-economic change in your country?
Increased sustainable crop and improved climate resilience in agriculture
Improved food authenticity, quality and reduce contaminants and residues in the food supply
Enhanced livestock
Improved surveillance, detection, and control of major insect pests of agricultural and veterinary
importance, including emerging or re-emerging zoonotic diseases
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
FOOD and AGRICULTURE
Increased sustainable crop and improve climate resilience in agriculture
6. How many National New Seed Distribution Programmes have been supported by IAEA TC programme are currently in place in your country?
The second secon
7. How many operational labs that have been supported by IAEA TC Programme are
applying enhanced biotechnology and accelerated mutation techniques in your country?

8. 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.
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
EOOD 1 AODIGIUEUDE
FOOD and AGRICULTURE
Improved food authenticity, quality and reduce contaminants and residues in the
food supply
9. 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?
programme for room mucrosty, room oursely, and rotation purposes.
10. 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.
11. How many testing laboratories supported by the IAEA TC programme are currently in
place in your country?
12. Please provide the names of the testing laboratories supported by the IAEA TC
programme that are currently in place in your country.
12. And there are no months one and distinct accessible and a second of the second of
13. Are there currently any radiation surveillance programmes in your country in place
that are supported by the IAEA TC programme?
○ Yes ○ No

FOOD and AGRICULTURE	
Livestock production	
	ted increase in food security in your country due to the ding techniques as a result of support from the IAEA TC
Yes	○ No
· ·	nstitutions or centres with capacity for livestock ractices have been supported by the IAEA TC programme?
-	f the laboratories , institutions or centres with capacity for ceeding practices supported by the IAEA TC programme:
IAEA TC PROGRAMME A	CHIEVEMENTS IN THE 21ST CENTURY - PART II
FOOD and AGRICULTURE	
•	tion, and control of major insect pests of Agricultural including emerging or re-emerging zoonotic diseases
· · · · · · · · · · · · · · · · · · ·	country have received IAEA TC programme support for menting regional or area-wide strategies for pest control ?
-	f the centres in your country that received support from the plan and implement regional or area-wide strategies for ting fruit flies?

19. How many centres in yo	our country have received IAEA TC programme support to
develop, plan and implement $% \left(\mathbf{r}_{i}\right) =\mathbf{r}_{i}$	regional or area-wide strategies for pest control , specifically
targeting mosquitoes?	
20. Please provide names of	the centers that have been supported by IAEA TC Programme
	implementing regional or area-wide strategies for pest control
specifically targeting mosqui	
	our country have received support from the IAEA TC programme
	ent regional or area-wide strategies for pest control of pests
such as new world screwwo r	rm, etc.?
22. Please provide the names	s of the centres in your country that have received support
-	e to develop, plan and implement regional or area-wide
	f pests such as new world screwworm , etc.?
strategies for pest control of	posts such as new world serenworld, etc
23. Is there a surveillance	e system in place in your country for the timely detection of
invasive regulated insec	t pests and vectors that has been supported by the IAEA TC
programme?	
O Yes	○ No
24 11	
	ur country have received IAEA TC programme support
specifically for COVID-relate	ed enorts?
25 Please provide names of t	the centers in you country that have been supported
	namme specifically for COVID-related efforts?
Supported by IALA TO FlogId	

HEALTH and NUTRITION 26. In which of the following Fields of Activity has the IAEA TC programme made a substantial contribution to **socio-economic change** in your country? Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security considerations; on cancer control ensure integration of diagnostics and treatment interventions in comprehensive cancer control strategy Increased production and use of safe radioisotopes and radiopharmaceuticals to be used in medical applications Increased effectiveness of nutrition programmes interventions and practices Improved surveillance, detection and control of major insect pests, including emerging or re-emerging zoonotic diseases that affect human health IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II **HEALTH and NUTRITION** Improved imaging and treatment capacity for cancer and other NCDs, including on related safety and security considerations; on cancer control ensure integration of diagnostics and treatment interventions in comprehensive cancer control strategy 27. Have your country had a Ministry of Health endorsed national cancer control programme (NCCP)? () Yes) No 28. Have your country had a national cancer control programme (NCCP) governance structure/ system? O No () Yes

29. How many **diagnostic imaging centres** / services have been established in your country with the support of the IAEA TC programme?

What is the **total number**?

How many of them are **currently** in **operation**?

How many of them are **not yet operational**?

How many of them are **no longer** in **operation** ?

30. Please indicate the kind of **support** that your country has received for diagnostic **imaging centres** through the IAEA TC programme during the following **time periods**.

	Established	Supported	Enhanced cooperation regionally	N/A
2000-2004				
2005-2009				
2010-2014				
2015-2019				
2020-2023				
Other (please specify)				
-	_		entres in your cour are currently in ope	•
•	tment-related educ country with the sup		a mes (for all professi a TC programme?	ons) have been
What is the total numb	er?			
How many of them are ${f c}$	urrently in operation?			
How many of them are n	ot yet operational?			
How many of them are n	o longer in operation?			

2000-2004 2005-2009 2010-2014 2015-2019 2020-2023	Established O	Suppported	cooperation	N/A
2005-2009 2010-2014 2015-2019	0	0		
2010-2014 2015-2019	0			
2015-2019	0			
2020-2023	$\overline{}$			
Other (please specify)				
34. Please indicate	the type of suppor	rt that treatment (c entres/ services in	your count
ave received from	the IAEA TC prog	ramme during the	following time peric	ods.
	1 0	J	Enhanced	
			cooperation	
	Established	Supported	regionally	N/A
2000-2004				
2005-2009	\bigcirc	\bigcirc	\bigcirc	\bigcirc
2010-2014		\bigcirc	\bigcirc	
2015-2019	\bigcirc	\bigcirc		\bigcirc
2020-2023				
2020 2020				

33. Please indicate the type of support that education programmes in your country (for

HEALTH and NUTRITION

Increased production and use of safe radioisotopes and radiopharmaceuticals to be used in medical applications

36. Please indicate the **type** of **support** that **medical cyclotron facilities** in your country have received from the IAEA TC programme during the following **time periods.**

2000-2004		Supported	Regional Cooperation	N/A
2000 2001				
2005-2009				
2010-2014				
2015-2019				
2020-2023				
Other (please specify)				
				<i>[</i>
•	•	•	eived support from the 1	IAEA TC
programme are cui	rrently using medic	cal radioisotope	es for local radiopharn	naceutical
	rently using medi	cal radioisotopo	es for local radiopharn	naceutical
	crently using medi	cal radioisotopo	es for local radiopharn	naceutical
	crently using medi	cal radioisotopo	es for local radiopharn	naceutical
preparations?				
preparations? 38. Please provide	the names of the c	e ntres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c		ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC p	the names of the c	e entres in your c	country that have receive	ed support
preparations? 38. Please provide from the IAEA TC pradiopharmaceut	the names of the c programme that are ical preparations	centres in your of e currently using?	country that have receive	ed support s for local
preparations? 38. Please provide from the IAEA TC pradiopharmaceut 39. Has your cou	the names of the c programme that are ical preparations	centres in your of e currently using?	country that have received medical radioisotopes	ed support s for local

IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II

HEALTH and NUTRITION

Increased effectiveness of nutrition programmes interventions and practices

contributed to evidence-b	pased decision-making on national nutrition intervention
programmes for children	n?
Yes	○ No
41. How many institutions	in your country in collaboration with IAEA TC programme
contributed to evidence-base	ed decision-making on national nutrition intervention
programmes for children?	
42. Please provide the names	s of institutions in your country that, in partnership with IAEA
TC programme, have made co	ontributions to evidence-based decision-making on national
nutrition intervention progra	mmes for children?
	your country in collaboration with IAEA TC programme
	nent or modification in nutrition policies/strategies for pregnant
women and infants?	
Yes	○ No
44. How many institution in	n your country in collaboration with IAEA TC
programme contributed to e	establishment or modification in nutrition policies/strategies for
pregnant women and infant	ts?
AE Dlagge provide the married	a of inclinations in visual soundary that in newton eaching with IATA
-	s of institutions in your country that, in partnership with IAEA ontributions to establishment or modification in nutrition
policies/strategies for pregn	
policies/strategies for pregn	lant women and imants:
•	n your country in partnership with the IAEA TC programme, made
	nment or modification in nutrition policies /strategies for the
elderly population?	
Yes	○ No

. Has any **institution** in your country in collaboration with the IAEA TC programme

47. 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?
48. 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?
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
MEN TO TROOTENINE NOTHEVELVED IN THE ZEOT OF VEOLITIES IN
HEALTH and NUTRITION
Improved surveillance, detection, and control of major insect pests including
emerging or re-emerging zoonotic diseases affecting human health
gggg
49. 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?
50. 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?
51. 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?
uiseases:

52. 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?
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
ENERGY PLANNING and NUCLEAR POWER
53. In which of the following Fields of Activity has the IAEA TC programme made a substantial contribution to socio-economic change in your country?
Improved energy planning and inform policies to meet future energy needs
Supported clean energy production and safe introduction , operation , and lifetime management of nuclear power
IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II
ENERGY PLANNING and NUCLEAR POWER
Improved energy planning and inform policies to meet future energy needs
54. Has your country utilized IAEA energy modelling tools to develop energy plans? Please select all tools that apply:
WASP
MAED
FINPLAN
MESSAGE
SIMPACTS
No, we have not used any of these tools
Other (please specify)

management of nuclear power 55. If your country already has an operational nuclear power programme (NPP), in what areas has the country received **support** from the IAEA TC programme: Site characterization Life extension Transition to operation Decommissioning Lifetime cycle (long-term operation) 56. How many nuclear power plants (PPs) are currently in operation within your country's nuclear power programme? 57. If your country is currently **embarking** on a **nuclear power programme**, which milestones have been reached? IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II INDUSTRIAL APPLICATIONS and RADIATION TECHNOLOGY 58. In which of the following Fields of Activity has the IAEA TC programme made a substantial contribution to **socio-economic change** in your country? Improved efficiency, productivity, quality, and safety across industries, using nuclear technology

Supported clean energy production and safe introduction, operation, and lifetime

ENERGY PLANNING and NUCLEAR POWER

IAEA TC PROGRAMME ACHIEVEMENTS IN THE 21ST CENTURY - PART II

Increased the safe and effective utilization, operation, and maintenance of research reactors

INDUSTRIAL APPLICATIONS and RADIATION TECHNOLOGY

Improved efficiency, productivity, quality, and safety across industries, using nuclear technology

Analysis of paintings and other cultural heritage items Identification and assessment of material properties Measurement of pollution levels Other (please specify) Monitoring and optimization of industrial and optimization of industrial radiography for inspecting mand detecting hidden flaws by using the asshort X-rays, gamma rays and neutron penetrate various materials	materia ability o
properties and detecting hidden flaws by using the assurement of pollution levels and detecting hidden flaws by using the assurement of pollution levels short X-rays, gamma rays and neutron penetrate various materials	ability o
Measurement of pollution levels penetrate various materials	ons to
Other (please specify)	
for many impediators are surrently energtional in your country?	
low many irradiators are currently operational in your country?	
. Please indicate the relevant thematic areas in your country that use industrial	
	ļ
· · · · · · · · · · · · · · · · · · ·	l
plications of irradiation . Select all that apply from the following options:	I
plications of irradiation. Select all that apply from the following options: Food safety	I
plications of irradiation . Select all that apply from the following options:	I
plications of irradiation. Select all that apply from the following options: Food safety	I
plications of irradiation. Select all that apply from the following options: Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear	
plications of irradiation. Select all that apply from the following options: Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers	
plications of irradiation. Select all that apply from the following options: Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear	am
plications of irradiation. Select all that apply from the following options: Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear facilities for wastewater treatment or flue gas purification from coal-fired boilers) Industrial applications - Materials modification: Changing chemical, physical, and biological property.	am
Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear facilities for wastewater treatment or flue gas purification from coal-fired boilers) Industrial applications - Materials modification: Changing chemical, physical, and biological proproduce novel materials Cultural heritage (characterization and preservation of artifacts)	am
plications of irradiation. Select all that apply from the following options: Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear facilities for wastewater treatment or flue gas purification from coal-fired boilers) Industrial applications - Materials modification: Changing chemical, physical, and biological proproduce novel materials	am
Food safety Medical sterilization (skin, blood, medical equipment) Industrial applications - Radiotracers Industrial applications - Environmental remediation and industry (industrial-scale electron bear facilities for wastewater treatment or flue gas purification from coal-fired boilers) Industrial applications - Materials modification: Changing chemical, physical, and biological proproduce novel materials Cultural heritage (characterization and preservation of artifacts)	am

INDUSTRIAL APPLICATIONS and RADIATION TECHNOLOGY

Increased the safe and effective utilization, operation, and maintenance of research reactors

62. Is there a national s	strategic plan in place in	your country for research	reactors?
Yes		No	
63. Is there a regulator IAEA TC Programme for	-	l in your country with the s	upport of the
○ Yes	(No	
64. How many research recommissioned with the as	•		oeen
65. How many research re operation, utilization, and s		_	
IAEA TC PROGRAMM WATER and ENVIRONM		N THE 21ST CENTURY -	PART II
66. In which of the follow contribution to socio-ec	wing Fields of Activity ha onomic change in your		
Improved integrated, su resources	stainable land and water man	agement practices for agricultu	ıre and freshwater
Improved managemen from plastics	t and reduced pollution of lan	d, air, coastal ecosystems, and th	e oceans, including
IAEA TC PROGRAMM	IE ACHIEVEMENTS IN	N THE 21ST CENTURY -	PART II
WATER and ENVIRONM	IENT		
Improved integrated, sus agriculture and freshwat		er management practices	s for
67. How many laboratori programme to establish or analysis, data interpreta	consolidate themselves a	s credible institutions for	

68. Please provide the names of these laboratories.		
	water resource management strategy or plan been adopted,	
of is currently being develop	ped, in your country with the support of the IAEA TC programme?	
Yes	○ No	
	operational cooperation arrangements applied to transboundary	
basins used data or monitor	ring mechanisms supported by the IAEA TC programme?	
If yes, please specify which	arrangements have made use of this support.	
Yes	○ No	
If yes, please specify which arrang	gements have made use of this support.	
IAEA TC PROGRAMME	ACHIEVEMENTS IN THE 21ST CENTURY - PART II	
WATER and ENVIRONMEN	JT	
	reduce pollution of land, air, coastal ecosystems, and the	
oceans, including from plas	tics.	
71. Are there regulations a	and/or strategies in place in your country for the prevention ,	
	able management of land, air, coastal zone, and marine	
environment that have been	en developed with the support of the IAEA TC programme?	
Yes	○ No	

Harmful Algal Blooms	_
	Microplastics
Acidification	No
Other (please specify)	
	amme supported the establishment of plans and strategies in diation or management of sites in your country contaminate
Yes	○ No
IAEA TC PROGRAMM	ACHIEVEMENTS IN THE 21ST CENTURY - PART II
AFETY AND SECURITY	ng Fields of Activity has the IAEA TC programme made a socio-economic change in your country?
AFETY AND SECURITY 74. In which of the follow substantial contribution to the improved nuclear instal material improved radiation safe Improved radiation safe IAEA TC PROGRAMM	ng Fields of Activity has the IAEA TC programme made a socio-economic change in your country? Achievements in the 21st century - Part II
AFETY AND SECURITY 74. In which of the follow substantial contribution to Improved nuclear instal Improved radiation safe IMARIA TC PROGRAMM AFETY AND SECURITY aproved nuclear installation	ng Fields of Activity has the IAEA TC programme made a socio-economic change in your country? Achievements in the 21st century - part ii
AFETY AND SECURITY 74. In which of the follow substantial contribution to Improved nuclear install Improved radiation safe IMPROVED INTERPORT INSTALLATION SECURITY INTOVED	ng Fields of Activity has the IAEA TC programme made a socio-economic change in your country? Achievements in the 21st century - Part II

77. In how many nuclear fuel cycl with the support of TC programme?	e facilities in your country has safety been enhanced
78. In how many research reactor support of TC programme?	's in your country has safety has been enhanced with the
IAEA TC PROGRAMME ACHI	EVEMENTS IN THE 21ST CENTURY - PART II
SAFETY AND SECURITY	
Improved radiation safety	
Please respond below with "Yes"	or "No" for each question.
<u>-</u>	egulatory infrastructure needed for radiation safety in renhanced with the support of the IAEA TC programme?
Yes	O No
80. Has radiation protection for your country with the support of	workers, patients, and the public been strengthened in FIAEA TC programme?
Yes	○ No
81. Has the management of radi support of the IAEA TC programm	ioactive waste in your country been improved with the ne?
Yes	○ No
-	and arrangements for emergency preparedness and nhanced in your country with the support of the IAEA TC
Yes	○ No
83. Has the safety of radiation n the support of the IAEA TC progra	naterial transport in your country been enhanced with
Yes	○ No

Thank you for your participation!

Your response has been successfully recorded. Your feedback will contribute to improving the IAEA TC programme. We sincerely thank you for taking the time to complete this survey.

We appreciate your input and look forward to working with you in the future.

Best regards, 2023 TC Survey Team Department of Technical Cooperation IAFA