## **Project Objective**

To enhance agricultural productivity in countries in Africa and the Indian Ocean region by supporting the production of fruit fly free fruits and vegetables, meeting international standards.

## **Logical Framework Matrix (LFM) for RAF2014020**

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	Design Element	Indicator	Means of Verification	Assumptions
Outcome	<ul> <li>Participating Member States have adapted national IPM (including Sterile Insect Technique (SIT)) strategies for fruit fly control based on pre-season, in-season and post- harvest techniques as well as strengthened networking among the countries.</li> </ul>	<ul> <li>Number of countries that have developed/ reviewed fruit fly management strategies</li> </ul>	Member State progress reports	<ul> <li>Government makes available resources for implementation of the IPM strategies, including the SIT component.</li> <li>Adequate safety and regulatory infrastructure for SIT application.</li> </ul>
Output	<ul> <li>1 Project Management Team Operational</li> </ul>	<ul> <li>Appointment/Assignment of the key project team. Communication between the project team. Project reporting.</li> </ul>	<ul> <li>Copies of the communications and project reports</li> </ul>	
	<ul> <li>Quarantine surveillance system (early warning system) for introduction of exotic fruit fly species operational.</li> </ul>	<ul> <li>Number of quarantine stations or system operational</li> <li>Detection networks installed and in operation in relevant areas of participating Member States</li> </ul>	<ul> <li>Member States progress reports on quarantine</li> <li>Member State progress reports</li> </ul>	<ul> <li>Increasing risk of introduction of exotic fruit fly pest species and commitment to prevent their establishment in new areas</li> </ul>
	<ul> <li>3 Increased awareness of exotic invasive fruit fly pests and improvements of quarantines for fruit flies.</li> </ul>	<ul> <li>Number of fruit and vegetable farmers actively involved in the implementation of the project</li> </ul>	<ul> <li>Member States progress reports on quarantine</li> </ul>	<ul> <li>Farmers adopt and implement environmentally friendly fruit fly control methods</li> </ul>
	<ul> <li>4 User friendly database (including GIS maps) containing information on species, host range, seasonal abundances, and geographic distributions.</li> </ul>	<ul> <li>GIS maps showing vulnerable areas in the participating MS</li> </ul>	<ul> <li>Project report on development of database</li> </ul>	<ul> <li>Database continuously updated to keep it alive and informative</li> </ul>
	<ul> <li>5 Increased technical capacity of national staff in the participating MS on fruit fly identification, control techniques and quarantine treatment development.</li> </ul>	<ul> <li>Number of staff trained</li> </ul>	Member States reports	<ul> <li>Active participation of plant protection authorities, as well as making staff in fruit fly programmes available for training</li> </ul>
	<ul> <li>6 Academic and practical training programmes with focus on SIT launched in Africa.</li> </ul>	<ul> <li>Number of fellows trained in SIT under group fellowship arrangement</li> </ul>	Fellowship training report	<ul> <li>Active participation of plant protection authorities, as well as availability of trapping and fruit sampling materials</li> </ul>
Activity	<ul> <li>1 .1 Confirming/Setting-up project team (CP, CP team in MS, PMO/TO)</li> </ul>			
	<ul> <li>1 .2 Conducting project review meetings</li> </ul>			
	<ul> <li>1 .3 Updating project work plan</li> </ul>			

	<ul> <li>1 .4 Preparing and submitting PPARs (every six months)</li> </ul>			
	■ 1.5 IAEA Field Monitoring			
	2 .1 Reinforcing the technical capability/infrastructure of fruit fly quarantines in participating counterpart institutions	Number of decision makers     participating in national Coordinators     Meeting and their involvement with     the development of country     programmes for improved fruit fly     quarantines	NCM report and Member State reports on programmes for improved fruit fly quarantines	<ul> <li>Active participation of plant protection authorities. Financial and human resources available</li> </ul>
	2 .2 Implementing trapping and fruit sampling in selected areas	Trapping and fruit sampling activities in selected areas	Materials procured on time	Data base available for data input
	<ul> <li>3 .1 Training on development of common monitoring protocol and the deployment of accurate monitoring systems to detect exotic fruit fly pests</li> </ul>	<ul> <li>Number of staff exposed to the concept of detection and monitoring systems installed</li> </ul>	<ul> <li>RTC report and reports on monitoring systems deployed</li> </ul>	<ul> <li>Staff trained is enabled to implement the knowledge in their home country</li> </ul>
	3 .2 Raising awareness and facilitating the exchange between the SIT community and stakeholders and end users in the selected areas	<ul> <li>Number of staff trained on public relations, and stakeholders with raised awareness</li> </ul>	<ul> <li>Public Relations meetings and expert report</li> </ul>	<ul> <li>Financial and human resources available</li> </ul>
	4 .1 Training on quarantine and pest risk analysis for each of the participating Member States	<ul> <li>Number of staff exposed to the concept of quarantine and pest risk analysis</li> </ul>	<ul> <li>RTC and Member State reports on improvements to quarantine systems</li> </ul>	<ul> <li>Staff trained enabled by plant protection authorities to implement the knowledge gained in the home country</li> </ul>
	<ul> <li>4 .2 Training in fruit fly identification</li> </ul>	<ul> <li>Number of staff trained in fruit fly taxonomy</li> </ul>	■ RTC report	<ul> <li>Financial and human resources available</li> </ul>
	<ul> <li>5 .1 Facilitating the sharing of information between participating Member States and the international community</li> </ul>	Meeting participation	Attendance certificate	<ul> <li>Trained staff remains employed</li> </ul>
	<ul> <li>5 .2 Training on surveillance systems, population suppression and related SIT activities</li> </ul>	<ul> <li>Number of staff trained on surveillance, suppression and related SIT activities</li> </ul>	RTC report	<ul> <li>Staff trained is enabled to implement the knowledge in their home country</li> </ul>
	<ul> <li>5.3 Training on and implementing of fruit fly suppression</li> </ul>	<ul> <li>Number of staff exposed to the concept of fruit fly suppression</li> </ul>	Expert reports	<ul> <li>Financial and human resources available</li> </ul>
	<ul> <li>5 .4 Fruit fly trapping, collection and incubation of fruits</li> </ul>	<ul> <li>Trapping data, data on fruit infestation levels</li> </ul>	Report on fruit fly surveillance	<ul> <li>Traps are serviced</li> </ul>
	<ul> <li>6 .1 Development of academic and practical training programme on SIT</li> </ul>	<ul> <li>Existance of approved training programme by 2016</li> </ul>	<ul> <li>Copies of the approved training programme and certification process</li> </ul>	<ul> <li>Training programme acceptable to MSs</li> </ul>
	6 .2 Implementation of Group     Fellowship Training Programme on     SIT	<ul> <li>Number of group fellowship activities conducted</li> </ul>	Project progress report	<ul> <li>Trained staff returns to support the SITprogramme in their MSs</li> </ul>
Input	1 .1 .1 Fruit fly trapping, collection and incubation of fruits	Assessment conducted	Counterpart Report	<ul> <li>Traps are serviced and fruits are collected</li> </ul>
	<ul> <li>2.1.1 MTG1. Second Coordination Meeting to: (1) evaluate the progresses made; and to (2) plan project activities</li> </ul>	■ NCM1 held during 2Q-2016	<ul> <li>NCM2 report and work plan reviewed</li> </ul>	
	<ul> <li>2.1.2 MTG2. Second Coordination Meeting to: (1) evaluate the</li> </ul>	■ NCM2 held during 2Q-2018	<ul> <li>NCM2 report and work plan reviewed</li> </ul>	<ul> <li>Applications received on time from Member States</li> </ul>

progresses made; and to (2) plan project activities			
<ul> <li>2 .1 .3 PR1: laboratory materials to support the fruit fly reference collection</li> </ul>	<ul> <li>Equipment purchased and delivered on time (2016)</li> </ul>	<ul> <li>Acknowledgement of receipt</li> </ul>	<ul> <li>Needs identified</li> </ul>
<ul> <li>2 .1 .4 EM4 (5 days) to support the implementation of quarantine measures</li> </ul>	■ EM1 takes place during 4Q 2017	<ul> <li>Expert mission report</li> </ul>	<ul> <li>Select expert available and accepted by the host country</li> </ul>
<ul> <li>2 .1 .5 EM8 (5 days) to support the implementation of quarantine measures</li> </ul>	■ EM2 takes place during 4Q 2019	<ul> <li>Expert mission report</li> </ul>	<ul> <li>Selected expert available and accepted by the host country</li> </ul>
<ul> <li>2 .1 .6 Amendment of legislation to cope with outbreak of exotic invasive fruit flies</li> </ul>	Document produced	<ul> <li>Draft amendment</li> </ul>	<ul> <li>Counterparts and plant quarantine officials available</li> </ul>
<ul> <li>2 .2 .1 EM6 to provide advice on fruit fly suppression</li> </ul>	■ EM3 takes place during 4Q 2018	<ul><li>Expert mission report</li></ul>	<ul> <li>Select expert available and accepted by the host country</li> </ul>
<ul> <li>3 .1 .1 RTC1 on "Fruit fly detection, surveillance and suppression" (20 participants, 2 lecturers and a staff member, 5 days,)</li> </ul>	RTC1 held during 2Q-2017	<ul> <li>RTC1 Report</li> </ul>	<ul> <li>Applications received on time from Member States</li> </ul>
<ul> <li>3 .1 .2 Materials installed and periodically revised in the field</li> </ul>	Materials installed	<ul> <li>Periodic service of traps and fruit sampling</li> </ul>	<ul> <li>Distribution identified</li> </ul>
<ul> <li>3 .1 .3 Materials installed and periodically revised in the field</li> </ul>	Materials installed	<ul> <li>Periodic service of traps and fruit sampling</li> </ul>	<ul> <li>Distribution identified</li> </ul>
• 3 .2 .1 EM7 on Suppression (5 days)	EM held during 3Q 2019	■ EM Report	<ul> <li>Selected expert available and accepted by the host country</li> </ul>
<ul> <li>3 .2 .2 Materials installed and periodically revised in the field</li> </ul>	Materials installed	<ul> <li>Periodic service of traps and fruit sampling</li> </ul>	<ul> <li>Distribution identified</li> </ul>
3 .2 .3 PR6 Updating and publication of the book on fruit fly host-plants	New version produced	Book on fruit fly host plants	<ul> <li>Counterparts and local staff available to contribute</li> </ul>
<ul> <li>4 .1 .1 RTC2 on "SIT and MAT" (20 participants, 2 lecturers and a staff member, 5 days,)</li> </ul>	RTC2 held during 3Q-2018	■ RTC2 Report	<ul> <li>Applications received on time from Member States</li> </ul>
• 4 .1 .2 Group Fellowship training	SV1 implemented during 2Q 2017	Scientific visit report	<ul> <li>Applications received on time from Member States</li> </ul>
<ul> <li>4 .1 .3 RTC3 on "Advanced GIS" (20 participants, 2 lecturers and a staff member, 5 days,)</li> </ul>	RTC3 held during 2Q-2019	■ RTC3 Report	<ul> <li>Applications received on time from Member States</li> </ul>
<ul> <li>4 .2 .1 PR7 Preparation of technical pamphlets, videos and other materials on taxonomy, biology and management of fruit flies</li> </ul>	PR materials produced	■ PR materials	<ul> <li>Counterparts and local staff available to contribute</li> <li>Counterparts and local staff available to contribute</li> </ul>
<ul> <li>4 .2 .2 PR8 Updating and publication of the book on fruit fly host-plants</li> </ul>			
<ul> <li>5 .1 .1 MT1, 2016 Support for participation in "International</li> </ul>	<ul> <li>Meeting attended in 2Q 2016</li> </ul>	Attendance certificate	<ul> <li>Applications received on time from Member States</li> </ul>

Symposium on Fruit Fly 2016" (12 pars, 5 days)			
<ul> <li>5 .1 .2 MT2, 2017 Support for participation in "International Symposium on Area-wide IPM" (12 pars, 5 days)</li> </ul>	<ul> <li>Meeting attended in 2Q 2017</li> </ul>	<ul> <li>Attendance certificate</li> </ul>	<ul> <li>Applications received on time from Member States</li> </ul>
• 5 .1 .3 MT1, 2018 Support for participation in "International Symposium on Fruit Fly 2016" (12 pars, 5 days)	■ Meeting attended in 2Q 2018	<ul> <li>Attendance certificate</li> </ul>	<ul> <li>Applications received on time from Member States</li> </ul>
• 5.2.1 EM1 on Suppression (5 days)	EM held during 3Q 2016	■ EM Report	<ul> <li>Select expert available and accepted by the host country</li> </ul>
<ul><li>5 .2 .2 EM2 on Suppression (5 days)</li></ul>	■ EM held during 3Q 2017	■ EM Report	<ul> <li>Select expert available and accepted by the host country</li> </ul>
<ul> <li>5 .2 .3 EM3 (5 days) to provide advice on fruit fly suppression</li> <li>5 .3 .1 PR11 Purchase of traps and</li> </ul>	■ EM2 takes place during 2Q 2017	Expert mission report	Select expert available and accepted by the host country
attractants fruit fly surveillance			
• 5 .3 .2 EM5 on Suppression (5 days)	■ EM held during 3Q 2018	■ EM Report	<ul> <li>Selected expert available and accepted by the host country</li> </ul>
<ul> <li>5 .4 .1 PR3 Purchase of traps and attractants fruit fly detection</li> </ul>	<ul> <li>Equipment purchased and delivered on time (2018)</li> </ul>	<ul> <li>Acknowledgement of receipt</li> </ul>	<ul> <li>Needs identified</li> </ul>
<ul> <li>5 .4 .2 PR2 Purchase of traps and attractants fruit fly detection</li> </ul>	<ul> <li>Equipment purchased and delivered on time (2016)</li> </ul>	<ul> <li>Acknowledgement of receipt</li> </ul>	Needs identified
<ul> <li>5 .4 .3 PR4 Purchase of traps and attractants fruit fly surveillance</li> </ul>	<ul> <li>Equipment purchased and delivered on time (2016)</li> </ul>	<ul> <li>Acknowledgement of receipt</li> </ul>	Needs identified
<ul> <li>5 .4 .4 PR5 Purchase of traps and attractants fruit fly surveillance</li> </ul>	<ul> <li>Equipment purchased and delivered on time (2018)</li> </ul>	<ul> <li>Acknowledgement of receipt</li> </ul>	<ul> <li>Needs identified</li> </ul>
<ul> <li>5 .4 .5 PR10 Purchase of traps and attractants fruit fly surveillance</li> </ul>			
<ul> <li>5 .4 .6 PR9 Purchase of traps and attractants fruit fly surveillance</li> </ul>			
■ 6.1.1 FE10 - First Group fellowship (4 months)			
<ul> <li>6 .1 .2 Develop SIT training programme</li> </ul>			
• 6 .2 .1 FE1 - First Group fellowship (4 months)			
• 6 .2 .2 FE2 - First Group fellowship (4 months)			
• 6 .2 .3 FE3 - First Group fellowship (4 months)			
• 6 .2 .4 FE4 - First Group fellowship (4 months)			
• 6 .2 .5 FE5 - First Group fellowship (4 months)			
<ul> <li>6 .2 .6 FE6 - First Group fellowship (4 months)</li> </ul>			

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• 6 .2 .7 FE7- First Group fellowship (4 months)	Agenda item: 7.1
• 6 .2 .8 FE8 - First Group fellowship (4 months)	
• 6 .2 .9 FE9 - First Group fellowship (4 months)	
6 .2 .10 FE11 - Second Group fellowship (4 months)	
• 6 .2 .11 FE12 - Second Group fellowship (4 months)	
6 .2 .12 FE13 - Second Group fellowship (4 months)	
6 .2 .13 FE14 - Second Group fellowship (4 months)	
6 .2 .14 FE15 - Second Group fellowship (4 months)	
6 .2 .15 FE16 Third Group fellowship (4 months)	
6 .2 .16 FE17 Second Group Fellowship (4 months)	
6 .2 .17 FE18 Second Group Fellowship (4 months).	
6 .2 .18 FE20 - Third Group fellowship (4 months)	
6 .2 .19 FE21 - Third Group fellowship (4 months)	
• 6 .2 .20 FE21 - Third Group fellowship (4 months)	
• 6 .2 .21 FE22 - Third Group fellowship (4 months)	
• 6 .2 .22 FE23 - Fourth Group fellowship (4 months)	
<ul><li>6 .2 .23 FE24 - Fourth Group fellowship (4 months)</li></ul>	
<ul><li>6 .2 .24 FE25 - Fourth Group fellowship (4 months)</li></ul>	
• 6 .2 .25 FE25 - Fourth Group fellowship (4 months)	
6 .2 .26 FE26 - Fourth Group fellowship (4 months)	
6 .2 .27 FE27 - Fourth Group fellowship (4 months)	

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