



Second Reporting Cycle Report on the implementation of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

ITALY

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Country Report on the implementation of the International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

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Article 4: General Obligations

1. Are there any laws, regulations procedures or policies in place in your country that implement the Treaty?

Yes X No

If your answer is 'yes', please provide details of such laws, regulations, procedures or policies:

- Italy ratified the Treaty on 29 April 2004, under Law n. 101/2004. The responsibility for implementation of the Treaty's provisions is given to the 21 Regions and Autonomous Provinces which act under respective implementation plans on which they report annually to the Ministry of Agriculture, Alimentation, Forestry and Tourism (MiPAAF). The MiPAAF is the National Focal Point for the Treaty to which it reports on activities undertaken and progress made at national level.
- In December 2015, a national law (Law n. 194 of 1 December 2015) on the safeguard and sustainable use of genetic resources for food and agriculture was released which makes explicitly reference to the Treaty as well as to the Convention on Biological Diversity. This Law provides instruments both for the safeguard and for the utilization of Italy's rich agricultural patrimony and specifically recognizes the role of small farmers in their efforts to maintain and develop plant and animal GRFA. The Law establishes, *inter alia*, a national Network for Biodiversity for Food and Agriculture, composed of *ex situ*, *in situ* and on farm stakeholders.
- Furthermore, a specific open-ended Project for the implementation of the Treaty's provisions was put in place by the MIPAAF in 2004 which involves several national research institutions and local farmers ("*Plant Genetic Resources-Implementation of the FAO International Treaty*", "RGV/FAO"), specifically addressing Articles 5, 6, 9, 11, 12 and 17 of the Treaty.
- Italian regions produce regional laws that implement the safeguard of PGFRA
 - O Apulia: https://psr.regione.puglia.it/en/sottomisura-10.1.4
 - O Campania: Regolamento regionale n.6 del 3 luglio 2012 -di attuazione dell'art.33 della LR n.1/2007 pubblicato sul BURC n.42 del 9.07.2012) http://www.agricoltura.regione.campania.it/biodiversita/biodiversita-vegetale.html
 - O Sicily: la Legge Regionale Tutela e valorizzazione delle risorse genetiche "Born in Sicily" per l'agricoltura e l'alimentazione (L.R. n. 19 del 18/11/2013).
 - Lazio: Legge regionale 1 marzo 2000, n. 15 "Tutela delle risorse genetiche autoctone di interesse agrario"
 - Calabria: la Legge Regionale n. 14 25/05/2021 "Tutela, conservazione, valorizzazione della diversità del patrimonio di varietà, razze e ceppi microbici di interesse agrario e alimentare del territorio calabrese". The law expressely refers to ITPGRFA and cite the national law that ratify the Traty (Law 101 6 april 2004).
 - O Piemonte regional law: L.R. 1/2019 art. 44 (Tutela e valorizzazione della biodiversità di interesse agricolo ed alimentare)
 - Emilia Romagna regional law: LEGGE REGIONALE 29 gennaio 2008, n. 1 "TUTELA DEL PATRIMONIO DI RAZZE E VARIETA' LOCALI DI INTERESSE AGRARIO DEL TERRITORIO EMILIANOROMAGNOLO"
 - O Toscana regional law: LR 64/04 "Tutela e valorizzazione del patrimonio di razze e varietà locali di interesse agrario, zootecnico e forestale".
 - O Umbria regional law: Legge Regionale n. 12 del 9 aprile 2015 "Testo unico in materia di agricoltura". specifically artt. 67-71 contenuti al Capo IV "Tutela delle risorse genetiche autoctone di interesse agrario.

- o Marche regional law: La L.R. 12/2003 "Tutela delle risorse genetiche animali e vegetali del territorio marchigiano".
- O Basilicata regional law: "Legge regionale n. 26 del 14 ottobre 2008 "Tutela delle risorse genetiche autoctone di interesse agrario"

2. Are there any other laws, regulations, procedures or policies in place in your country that apply to plant genetic resources?

Yes X
No

If your answer is 'yes', please provide details of such laws, regulations, procedures or policies:

Further to Law 101/2004 (see Q1), different laws, plans and guidelines are in placewhich address specific aspects of GRFA, their management and utilization:

The PNBA aims at coordinating the many and diverse initiatives and activities in placeat national and regional level on the safeguard of plant, animal and microorganisms GR for Food and Agriculture, as well as enhancing relationships with the respective involved national and international organisms. Furthermore, the purpose of the PNBA is to assist Regions and Autonomous Provinces in the implementation of the Treaty, by developing a national system of GRFA safeguard, sustainable agriculture and ruraldevelopment. Target genetic resources are those which are autochthonous and/or at risk of extinction/genetic erosion.

- The PNBA was integrated, in 2012, by specific Guidelines ("Linee Guida per la Conservazione *in situ*, *on farm* ed *ex situ* della Biodiversità vegetale, animale e microbica di interesse per l'agricoltura") to assist stakeholders at national, regionaland local level in the characterization and conservation of GRFA. The "Guidelines" represent a standardized instrument, elaborated and agreed by all involved stakeholders at national level and therefore allow for harmonized approaches and activities towards the implementation of the

 PNBA.

 (https://www.reterurale.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/9580).
- Furthermore, several regional laws are in place addressing the safeguard and sustainable use of PGRFA of local origin (these laws are available in Italian language at http://planta-res.politicheagricole.it/pages/documents.php?t=3).
- In 2010, the Ministry for the Environment, Land and Sea published a "National Strategy for Biodiversity" which dedicates a section to PGRFA and their conservationand sustainable use within the framework of international regimes (Treaty, CBD). (http://planta-res.politicheagricole.it/docs_pdf/Stratagia%20Nazionale%20Biodiversit_italiano.pdf).
- Concerning introduction, registration, management, distribution and marketing of commercial plant material, the following National Laws are in place:
 - o Presidential Decree n. 1164 of 24 December 1969 (and subsequent amendments) implementing Council Regulation n. 68/193/EEC on the marketing of material for the vegetative propagation of the vine
 - o Council Regulation (EC) No 870/2004 of 24 April 2004 on the conservation,

- characterisation, collection and utilisation of genetic resources in agriculture (repealing Regulation (EC) No 1467/94)
- o Law n. 110 of 23 March 1998: Ratification of the UPOV Convention
- o Law n. 1096 of 25 November 1971 (and subsequent amendments): Marketingand control of seed, implementing
 - Council Directive 2001/64/EC of 31 August 2001 amending Directive 66/401/EEC on the marketing of fodder plant seed and Directive 66/402/EECon the marketing of cereal seed
 - Council Directive 2002/53/EC of 13 June 2002 on the common catalogue of varieties of agricultural plant species
 - Council Directive 2002/54/EC of 13 June 2002 on the marketing of beet seed
 - Council Directive 2002/55/EC of 13 June 2002 on the marketing of vegetableseed
 - Council Directive 2002/56/EC of 13 June 2002 on the marketing of seed potatoes
 - Council Directive 2002/57/EC of 13 June 2002 on the marketing of seed of oiland fibre plants,
 - andNational Law n. 194 of 1 December 2015 (see Q1): modification of Art 19-bis, point 6 allowing farmers to exchange and sell certain amounts of their seedson local markets within the Network of Biodiversity for Food and Agriculture)
- Legislative Decree n. 124/2010, implementing Council Directive 2008/90/EC of 29
 September 2008 on the marketing of fruit plant propagating material and fruit plants intended for fruit production, and related Implementing Directives
- Legislative Decree n. 230 of 15 December 2017 implementing Regulation EU n. 1143/2014 on the prevention and management of the introduction and spread ofinvasive alien species
- o Organic Seeds: EU Regulation n. 2018/848

• In Campania region

o DGR n.260 del 15.05.2017 (BURC n.41 del 22.05.2017) gives rules on the list of farmers engaged in safeguard of genetic resources for food and agriculture.

In Sicily region

- o la Legge Regionale Tutela e valorizzazione delle risorse genetiche "Born in Sicily" per l'agricoltura e l'alimentazione (L.R. n. 19 del 18/11/2013)
- o PSR 2007/2017 and PSR 2014/2020 specifically on conservation of PGRFA.
- o Decreto del Presidente della Regione Lazio 29 maggio 2017, n. T00090

• In Lazio region:

- o Deliberazione 26 settembre 2017, n. 585
 - Modifiche alla Deliberazione della Giunta Regionale 30 gennaio 2001 n. 146 concernente "Modalità per la tenuta del registro volontario regionale delle risorse genetiche autoctone vegetali ed animali e per l'iscrizione in esso, ai sensi della legge regionale 1 marzo 2000, n. 15".
- O Deliberazione del Consiglio Regionale 8 agosto 2018, n. 14
 - PIANO SETTORIALE DI INTERVENTO PER LA TUTELA DELLE RISORSE GENETICHE AUTOCTONE DI INTERESSE AGRARIO (L.R. 15/2000). TRIENNIO 2018-2020
- O Deliberazione 20 novembre 2018, n. 688
 - Legge Regionale 1 marzo 2000, n. 15. Piano settoriale di intervento per la tutela delle risorse genetiche autoctone di interesse agrario. Triennio 2018 - 2020.
 PROGRAMMA OPERATIVO PRIMA e SECONDA ANNUALITÁ.
- In 2010 Calabria region adopted the document Strategia Regionale per la Biodiversità for safeguarding agrobiodiversity.
- Trento Province adopted:
 - the Legge Provinciale 11/2007 "Governo del territorio forestale e montano, dei corsi d'acqua e delle aree Protette",
 - o L.P. 4/2003, "Sostegno dell'economia agricola, disciplina dell'agricoltura biologica e

della contrassegnazione di prodotti geneticamente non modificati" to avoid genetic erosion of PGRFAa gene Bank was set up a IASMA in San Michele all'Adige.

3. Is there any law, regulation, procedure or policy in place in your country that needs to be adjusted / harmonized1 to ensure conformity with the obligations as provided in the Treaty?

Yes X

No

If your answer is 'yes', please provide details of such adjustments and any plans to make those adjustments:

The Law on the safeguard of Biodiversity for Food and Agriculture (Law n. 194 of 1 December 2015) in Article 3.5 states that the GRFA or any part thereof subject to the Law may not be incorporated in any new product which is going to be protected by anykind of Intellectual Property. This is in clear contrast to Treaty Artt. 11.2 and 13.2.

Therefore, this part of the Law will need to be adjusted accordingly.

In Campania region implementation are expected by the PSR Sottomisura 10.2 TIP 10.2.1 "Conservazione delle risorse genetiche autoctone a tutela della biodiversità – Risorse Genetiche vegetali".

¹ For the purpose of this report, a Contracting Party may choose whichever term (adjusted or harmonized) is appropriate in relation to their legal systems

Article 5: Conservation, Exploration, Collection, Characterisation, Evaluation and Documentation of Plant Genetic Resources for Food and Agriculture

4. Has an integrated approach to the exploration, conservation and sustainable use of plantgenetic resources for food and agriculture (PGRFA) been promoted in your country?

Yes X No

• The RGV/FAO Project (see Q1) aims at the identification, collection, conservation, utilization and documentation of PGRFA, especially of those which are of national origin. Collected accessions are included in the *ex situ* collections of the participatingresearch institutions and subsequently characterized agro-morphologically, genetically and from a biochemical point of view, with the aim to promote their sustainable utilization, through cultivation at local level or through their inclusion in breeding programmes for different purposes.

Small farmers are specifically recognized under the Project and part of the activities are dedicated to informal seed systems and local products.

Involved partners operate on the whole national territory, representing 29 crop- specific research institutions operating under the framework of 9 Research Centers of the Council for Research in Agriculture and Economics (CREA), further 5 institutions of the National Research Council (CNR) as well as the Non-Governmental Organization "Rete Semi Rurali" which represents 33 partners.

The Project does not only focus on those crops which are currently included in AnnexI of the Treaty, but relates to all crop species considered of economic and strategic importance for Italy. Species covered are cereals, vegetables, fruit species (including citrus, olive and grape), forage crops, industrial plants, medicinal and aromatic plants, forest and ornamental species.

- At regional level, laws are in place to assure the safeguard of local/regional varieties, their reintroduction into cultivation and their conservation both *ex situ* and on farm.
- Several other stakeholders are also involved in PGRFA collection, conservation and characterization, often in the framework of academic/national/international projects.
- At regional level Apulia promoted through the "sottomisura 10.1.4" of Regione Puglia that is aimed at supporting the maintenance and reintroduction into the territory of varieties, cultivars, clones and populations naturally adapted to local and regional conditions and threatened by genetic erosion, in order to reduce the risk of extinction and protect regional agricultural biodiversity
- Campania Region promoted an integrated approach for the exploration and conservation of PGRFA autoctonous at risk of extinction within two projects -SALVE ed AGRIGENET.
- Sicilia region funded several initiative aimed at safeguarding regional PGRFA: "Valorizzazione dei vitigni autoctoni", "Risorse Genetiche Vegetali Sicilia", "Caratterizzazione e conservazione del germoplasma di mandorlo siciliano", "Proteine vegetali", "Frutticoltura Etnea"
- Lazio region according to L.R. n. 15/2000:
 - Il survey and characterization of PGRFA

- *In situ* conservation in "Rete di Conservazione e Sicurezza"
- Calabria region according to L.R. n. 14/2014:
 - Art 7 institution of regional ex situ conservation of the regional germoplasm of plant and animals
 - Art 10 take measures for the commercialization of PGRFA material.

5. Have PGRFA been surveyed and inventoried in your country?

Yes X

No

If your answer is 'yes', please provide details of your findings, specifying species, subspecies and/orvarieties, including those that are of potential use:

- Inventorying PGRFA present *ex situ* in Italy is one of the priority work areas of the RGV/FAO Project. A web page has been set up serving as the national entry point toPGRFA and related documents and activities (http://planta-res.politicheagricole.it).
 - The PGRFA inventory which is available on this website does not only include the accessions managed in the context of the project, but is open to all collections. It currently includes the 29 collections held by the RGV/FAO Project Partners, and 12
 - collections managed under other administrations (7 universities, 2 regional, 1 private and 2 local). The database currently provides passport information on 49.018 accessions belonging to 241 genera and 863 species. This National Inventory is periodically shared, at international level, with the European Catalogue EURISCO and with WIEWS of FAO, as part of the ongoing updating of the implementation of the Global Plan of Action on PGRFA.
- However, in Italy there are still many more collections held, with different objectives and priorities and by different other stakeholders, and the long term aim is to identify, invite and include these in the National Inventory.
- Furthermore, *in situ* and on farm inventories of PGRFA were compiled in 2014 in the framework of the EU funded Project PGRSecure (see Q 13) and are available at http://vnr.unipg.it/PGRSecure/html/project.html. These inventories list 2.365 landraces belonging to 329 species and 2.093 taxa of CWR. Both inventories comprise cereals, vegetables, legumes, fruit and fodder crops.
- In Campania region the results (morphological, genetical nutritional characterization) of the SALVE et AGRIGENET were inventoried through the database available on the portal www.genidellacampania.it.
- Sicily region approved the regional inventory through the Decreto Assessoriale n. 18/2011, pubblicato nel Suppl. ord. n. 1 Gazzetta Ufficiale della Regione Siciliana (p. I) n. 11 dell'11-3-2011 (n. 9) available at http://www.gurs.regione.sicilia.it/Gazzette/g11-1101/g11-1101.pdf with action related to aprico, plum, peach, cherry, almond, Citrus pistachio, carob, mulberry, pomegranate and other minor fruit crops. Inventory of these accessions are available at https://www.vivaiopaulsen.it/fruttiferi/.
- Lazio Region has released the Registro Volontario Regionale with 223 accessions available at http://www.arsial.it/arsial/biodiversita/registro-volontario-regionale/.
- The Trento province has set up several initiative aimed at inventorying accessions of local

interest (corn, Barley, Bean, Potato, Broccoli, Lettuce, Plum, Apple, Pear, Cherry, Grape, Walnut, Chestnut).

6. Has any threat to PGRFA in your country been identified?

Yes X

No

If your answer is 'yes', please indicate:

The species, subspecies and/or varieties subject to such threats; The sources (causes) of these threats:

Any steps taken to minimise or eliminate these threats;

Any difficulties encountered in implementing such steps.

Crops:

- Many activities of recovery of PGRFA are targeted at those PGRFA (mainly local varieties of cereals, vegetables and fruit species) which are at risk of extinction or genetic erosion due to abandonment and/or underutilization. These PGRFA have been transferred to *ex situ* collections maintained by the different actors involved in PGRFA management at national level, with the aim not only of safeguarding the genetic material, but also of promoting the reintroduction of these varieties into cultivation. This is especially true for vegetable varieties (for example tomato, onion, lettuce, pumpkin) rediscovered and reintroduced to local markets in the course of the RGV/FAO Project.
- A list of Red List species of Italy was published in 2013 by the Ministry of Environment, Land and Sea (available, in Italian language, at the following link: http://www.iucn.it/listerosse-italiane.php). Of the 297 vascular plants listed in this "Red List of Italian Flora", 59% are CWR present in Italy, according to the work conducted in the context of the PGRSecure Project (see Q 5).

Sources of threats:

- Main environmental threats to species have been identified in habitat fragmentation, uncontrolled urbanization and infrastructure development.
 - From an agricultural point of view, intensive plant and animal production systems are reported to pose risks to plant genetic diversity. Problems are also related to the uncontrolled exploitation of wild populations (especially aromatic and medicinal plants).
- Among pests and diseases threatening PGRFA, the bacterium *Xylella fastidiosa* is aserious problem to both old local and cultivated olive trees, while the red palm weevil(*Rhynchophorus ferrugineus*) attacks different species of palms all over the country.

- Concerning field collections, several biotic stresses can cause threats to the conserved accessions, such as the Mediterranean fruit fly (*Ceratitis capitata*) attacking stone fruits, the fungus *Taphrina deformans* (causing leaf curl in peach and almond), the fire blight bacterium (*Erwinia amylovora*) threatening pome fruits, the PSA bacterium destroying *Actinidia* plantings, the Plum pox virus (PPV) in stonefruits, Ca. Phytoplasma *vitis* in grapevine, or the Citrus Tristeza virus and, most recently, Huanglongbing (greening disease) in citrus.
- Seed collections can be exposed to the risk of low germination rate or viability of samples.

Measures to minimize threats:

- Concerning PGRFA, on farm conservation is being promoted, to be carried out byfarmers which have been selected for this purpose ("Caring Cultivators"), mainly under regional laws.
- In ex situ collections,
 - o phytosanitary controls need to be carried out both before introduction of the accessions into the collections might be necessary all around the year. as wellas during the whole year. Timely risanitation/multiplication actions can be necessary all year around.
 - o an assessment of duplications of accessions among the different collections present at national level will be needed in order to elaborate a programme forthe sustainable conservation of material; this might also include the allocation of specific funding for genebank operations targeted at specific regeneration and maintenance activities.

In situ conservation of PGR including CWR currently falls to a large extent under themanagement activities of Protected Areas, as prescribed in the Technical Report annexed to the Law on Implementation of the Treaty.

7. Has the collection of PGRFA and relevant associated information on those plant genetic resources that are under threat or are of potential use been promoted in your country?

Yes X No

If your answer is 'no', please indicate:

Any difficulties encountered in surveying or inventorying PGRFA; Any action plans to survey and inventory PGRFA;

The most important PGRFA that should be surveyed and inventoried:

See O. 5

- The collection of PGRFA at risk has been an important workstream of the RGV/FAOProject over the last 15 years. Several hundreds of accessions have been collected, accompanied by associated information given by local people, where possible.
- Also at regional level, PGRFA which are under threat are being identified and collected, under the single regional administrative frameworks. Accessions are conserved *ex situ*, and local farmers are identified which conserve them on farm as well, on behalf of the respective region.
- In addition, other stakeholders like Universities, Botanic Gardens etc have also collected PGRFA for different purposes.
- At regional level in Apulia, annually in May according to the International Day for Biological

Diversity are planned activities voted to promote the PGRFA as well as their potential use.

8. Have farmers and local communities' efforts to manage and conserve PGRFA on-farm

been promoted or supported in your country?

Yes X

No

If your answer is 'yes', please provide details of the measures taken:

The legal and operational background is given in Q1 and Q2.

- Both the national Law on Biodiversity for Food and Agriculture and the existing Regional Laws promote the involvement of farmers in on farm conservation of local varieties and breeds. Farmers are chosen according to their experience in the management of the specific species and related farm management. They are registered in specific registers of maintainers ("Caring Cultivators") and receive regular payment for their services.
- The National Plan on Biodiversity for Food and Agriculture (PNBA) provides a conceptual framework for a rural development which creates the economic, social and cultural conditions in which farmers' families can continue to conduct their agricultural activities, while maintaining traditional knowledge, integrated into new contexts of conservation, utilization and commercialization.
 - In the framework of the national RGV/FAO Project, the Farmers' Association "Rete Semi Rurali" is conducting work on supporting and recognizing the role of seed networks and farmers' organisation on sustainable use and conservation of PGRFA. In this way, it also contributes to the protection and re-creation of traditional knowledge and to the involvement of farmers and farmers' networks inpolicy decision-making. Recently, also approaches of participatory breeding havebeen introduced in the work programme. In addition, farmers and other stakeholders are involved through the Italian Seed Network in specific activities. Thanks to the RGV/FAO Project, each year around 5.000 people participate in on farm trials and activities, including consumers and technicians.
- Also Italy's participation in the ECPGR "On Farm" Working Group and different EU funded Projects promote the work of local farmers and farmers' communities(see QQ 13, 36).
- Campania region within the PSR Misura 10 "Sostegno per la conservazione, l'uso e lo sviluppo sostenibili delle risorse genetiche in agricoltura" Sottomisura 10.1 (TIP 10.1.4 "Coltivazione e sviluppo sostenibile di varietà vegetali autoctone minacciate di erosione genetica" contributions are given to farmers that preserve genetic resources (900,00 €/ha for fruit crops; 600,00 €/ha for horticoltural crops and corn; 558,00 €/ha per le pulse).
- The Sicilian Regional Law n. 19/2013 established the role of *gardian farmers* (Agricoltori custodi) and support them with the misures 214/2 Azione B del PSR 2007/2013.
- Lazio region promote and support local farmers the Regional law L.R. n. 15/2000 (fruit crops 700 €/ha; horticoltural crops 500 €/ha; Cereal and other arable crops 250 €/ha)
- 9. Has in situ conservation of wild crop relatives and wild plants for food production been promoted in your country?

Yes X

No

X Promote in situ conservation in protected areas;

Support the efforts of indigenous and local communities.

If such measures have been taken, please provide details of the measures taken:

The "Second Italian Country Report to the FAO on the State of the World's Plant GeneticResources for Food and Agriculture", reports on a survey on the flora growing in the 156most significant Protected Areas in Italy, carried out in 2008. This assessment revealed the presence of about 4,000 different taxa belonging to 953 genera. In this context, and based on the European CWR Checklist elaborated in the course of the EU financed project "European Crop Wild Relative Diversity Assessment and Conservation Forum" (PGR Forum), the presence of 3,267 taxa of CWR belonging to 620 genera in Italian Protected Areas was revealed. The list of species is available at http://www.fao.org/3/i1500e/Italy.pdf.

However, apart from inventorying, so far no specific coordinated measures targeted at *in situ* conservation of CWR have been put in place at national level.

The Trento province within the areas of Natura 2000 WCR has been promoted for food consumption and as genetic resource.

10. Are there any ex situ collections of PGRFA in your country?

Yes X

No

If your answer is 'yes', please provide information on the holder and content of such collections:

As indicated in Q5, several *ex situ* collections of PGRFA are co-existing in Italy, held by different stakeholders and for different purposes. Their exact number is unknown, as it is difficult to access information on these.

Nearly all national research centers and institutions have their own thematic collections according to the priorities of their research. Also most University faculties maintain PGRFA collections which are often well developed.

Many Regions have established collections of local germplasm found on their territory, often integrating these accessions in already existing *ex situ* collections managed by one or more of the above-mentioned facilities. Furthermore, many Botanic Gardens, Agricultural Schools as well as locally established germplasm collections are existing.

- Undoubtedly all these collections hold a very high number of accessions, but related problems concern the unknown state of duplications, health state of accessions, as well as related duplication of maintenance efforts. A more concerted action in the management of these collections and resources is definitely needed, bringing together the different financing institutions (Ministry of Agriculture, Ministry of Research, Regions,) and developing a rational and effective conservation system at national level.
- In Apulia for example ehere are several collections of agricultural crop germplasms of different species (grapevine, olive, citrus, stone fruits, pome fruits, minor fruits, etc.). They are conserved in field collections of the Research Center "Basile Caramia (CRSFA)" in Locorotondo (Bari, Italy) and in the Department of Soil, Plant and Food Sciences (DISSPA Vegetal Pathology section), of the University of Bari. Mainly the material has been conserved and sanitary and genetically characterized during the

rescue activities of biodiversity projects of PSR Puglia 2007-2013 and 2014-2020 (i.e. Regevip, Regerop projects). More information are available at the link: http://www.fruttiantichipuglia.it/

- In Campania Region PGRFA of tree fruit crops (n. 258) preserved in:
 - o CRAA -Azienda Agricola Sperimentale Regionale "Improsta" Salerno
 - o <u>CREA OFA –Centro di Ricerca per la Frutticoltura e Agrumicoltura- sede di</u> Caserta
 - O UNINA- Dipartimento di Agraria Portici
- Morevover, Reproduction materials of erbaceous autoctonous (n. 84) are preserved at:
 - o <u>CREA Centro di ricerca per l'Orticoltura e il Florovivaismo (CREA -OF) sede</u> di Salerno
 - o ARCA 2010 in Acerra (Napoli)
- In Sicily there are several ex situ collections:
 - Università degli Studi di Palermo (Agrumi, Nespolo, Pesco, Albicocco, Susino, Olivo, Vite) –
 - o Università degli Studi di Catania (Agrumi, Melo, Pero, fruttiferi vari)
 - o CNR, IGV (Vite, olivo, fruttiferi vari)
 - o CREA OFA (Agrumi, Olivo, fruttiferi vari)
 - O Centri di Conservazione regionale for pome fruit and minor fruit crops in Vendicari (SR) e Ficuzza (PA), with facilities for *in vivo* e *in vitro* conservation.
- In Lazio there are 4 ex situ collections:
 - Arsial farm in Montopoli in Sabina, 550 accessions among pome fruit, stone fruit, grape, olive.
 - o ARSIAL farm in Cerveteri collection of artichoke.
 - o ARSIAL farm in Alvito (159 accession among fruit trees and orticuoltural crops)
 - o In Gene bank Arsial in Rome are preserved seeds at -20°C.
- In the Trento province the Museum MUSE has an Gene Bank preserving seeds (50 millions) of local interest both wild (300 species) and cultivated (100 species). Eighty specie among them are endemic and at risk of extinction.
- 11. Has the development of an efficient and sustainable system of ex situ conservation of PGRFA been promoted in your country?

Yes	X
No	

If your answer is 'yes', please indicate the measures taken to promote ex situ conservation, in particularany measures to promote the development and transfer of technologies for this purpose:

As indicated above, many collections are co-existing, under different administrations and with different objectives and different levels of financial resources. Duplications are not monitored and gap analysis has not been carried out at national level.

An effort was made in 2001 to assess all *ex situ* collections of PGRFA held by the Experimental Institutes for Agriculture working under the Ministry of Agriculture (now CREA). This work laid the conceptual base for the development of the RGV/FAO Project.

A similar assessment was made in 2003 to collect information on all fruit genetic resources present in Italian collections. This survey included 18 entities (CREA, CNR, Universities, regional collections, private/commercial sector collections).

So far, an important systematic follow-up has been undertaken by the establishment of aNational Fruit Tree Germplasm Collection, located at the premises of the Experimental Institute for Fruit Trees (now CREA-Research Centre for Olive, Fruit and Citrus – Rome branch). This collection currently holds about 5.000 accessions of old and modern varieties of more than 20 species of temperate and subtropical fruits, both of national and foreign origin. It is foreseen that this collection will host the most 12.000 strategically important fruit accessions of national and global interest.

It is desirable that a similar approach of rationalization of collections will be pursuedalso for other crop groups.

• In Campania region initiatives are undegoing within PSR Sottomisura 10.2.1 del PSR Campania 2014-2020, approvato con DRD n.223 del 11.07.2018 -BURC n.48 del 16 luglio 2018; information available at

http://www.agricoltura.regione.campania.it/PSR_2014_2020/M1021.html http://www.agricoltura.regione.campania.it/PSR_2014_2020/1021/ABC.html http://www.agricoltura.regione.campania.it/PSR_2014_2020/1021/DICOVALE.html

12. Has the maintenance of the viability, degree of variation, and the genetic integrity of ex situcollections of PGRFA been monitored in your country?

Yes X

No

If your answer is 'yes', please provide details of the main conclusions of these monitoring activities:

Collection holders are careful not to lose any material. Material at risk is timely being reproduced. However, lack of sufficient stable financial resources is more and more hindering continuation in these activities and some public collections are at risk of beingreduced or even abandoned.

In Sicily the True-to-type confirmation has been assessed for the most part of the accessions conserved. The almond database is available at www.agrobiodiversita.eu and https://www.vivaiopaulsen.it/fruttiferi/.

13. Has your country cooperated with other Contracting Parties, through bilateral or regional channels, in the conservation, exploration, collection, characterization, evaluation or documentation of PGRFA?

Yes X

No

If your answer is 'yes', please indicate the other Contracting Parties with whom the cooperation was undertaken (where additional to cooperation through the Governing Body or other Treaty mechanisms) and, where possible, details of any relevant projects:

- In the context of the International Treaty, Italy has promoted the conservation, exploration, collection, characterization, evaluation or documentation of PGRFA through contributions to the Benefit Sharing Fund in the years 2008-2020, (see Q.35).
- Italy is Member Country in the European Collaborative Programme on Crop Genetic Resources (ECPGR) and is represented by experts in nearly all thematic and cross-cutting Working Groups. Therefore, Italian experts collaborate with experts and colleagues from

the European Region on a wide range of issues, contributing to thelong-term conservation of crop genetic resources in Europe on a cooperative basis, and facilitating their increased utilization.

- In the context of ECPGR, Italy is member to AEGIS, "A European Integrated Genebank System", an initiative aiming to implementing at regional level the ITPGRFA by efficiently conserving and providing access to material under the sMTAto unique germplasm in Europe, through the establishment of a European Collection. So far, 8605 accessions have been included in AEGIS.
- Through its annual payments to ECPGR, Italy has contributed to the realization of atotal of 31 Grant Scheme Activities carried out since 2014, enabling also the participation of Italian experts in 15 of these (see list of projects in Q35).
- Also within the context of ECPGR, Italy shares information on PGRFA thus providing facilitated access to accessions conserved *ex situ*, through the European Catalogue, EURISCO.
- Italian partners are also involved in the new ECPGR "EVA" initiative (European Evaluation Network), which aims specifically at bringing together public and private entities in research and breeding of new crop varieties able to cope with future challenges at European level. The Initiative started with cereals and vegetables but islaid down to cover all crops for PGRFA purposes.
- In the context of Research Projects funded by the European Commission under different research frameworks, a wide range of stakeholders from Italy (representing the public and the private sector, research, academia, farmers associations) were or are partners in a number of Projects aimed at the conservation, exploration, collection, characterization, evaluation and documentation of PGRFA, such as (list notexhaustive):
 - G2P-SOL (2017-2019) "Linking genetic resources, genomes and phenotypes of Solanaceous crops"
 - Farmers' Pride (2017-2019): "Conservation actions to safeguard the wealth of Europe's in situ plant genetic resources and integration of the user community to maximize sustainable use of these in situ PGR"
 - DYNAVERSITY: (2017-2019) "Conserving diversity in situ in agriculture and in the food chain"
 - TomRES (2017-2020) "A novel and integrated approach to increase multiple and combined stress tolerance in plants using tomato as a model"
 - TomGEM (2016-2019) "Improving tomato yield and quality in the face of climate change"
 - DIVERSIFOOD (2015-2019) "Embedding crop diversity and networking for localhigh quality food systems".
 - TRADITOM (2015-2018) "Traditional tomato varieties and cultural practices".
 - WHEALBI (2014-2018): "Wheat and Barley Legacy for Breeding Improvement"
 - PGRSEcure (2011-2014): "Novel characterization of crop wild relative and landrace resources as a basis for improved crop breeding"
 - SOLIBAM (2010-2014): "Strategies for organic and low-input breeding and management"
 - GenResIS AEGRO (2007-2010): "Genetic Reserve Information System"
 - GrapeGen06 (2007-2010): "Management & Conservation of Grapevine Genetic Resources" "Leafy vegetables germplasm, stimulating use" (2007-2010)
 - AVEQ (2004-2007): "Avena genetic resources for quality in human consumption"
 - EURALLIVEG (2007-2011)- "Vegetative Allium, Europe's Core Collection, Safeand Sound"
 - HiDRAS (2003-2007): "High Quality Disease Resistant Apples for a sustainable Agriculture"
 - PGRForum (2003-2005): "European Crop Wild Relative Diversity Assessmentand Conservation Forum"
 - Still at European regional level, Italy is Partner in several bilateral European

Neighbourhood Policy And Enlargement Programmes "Twinning" and "TAIEX", targeting at the establishment of National variety catalogues, variety registrationand characterization, and strengthening of the seed sector, according to the relative regulations of the European Community.

Collaborations are currently ongoing with Serbia, Georgia and Kosovo.

- At global level, Italian experts are involved in the "Wheat Initiative" (Coordinating global research for wheat), established in 2011 following endorsement from the G20 Agriculture Ministries, which aims to encourage and support the development of a global public-private research community sharing resources, capabilities, data and ideas to improve wheat productivity, quality and sustainable production around the world.
- Lazio regions participated to the European project REVERSE (REgional exchanges and policy making for protecting and valorizing biodiVERSity in Europe) 2010-2012 whose aims was to improve the regional policies for conservation a sustainable use of agrobiodiversity.

Article 6: Sustainable Use of Plant Genetic Resources for Food and Agriculture

14. Are there any policy and legal measures² in place in your country that promote the sustainableuse of PGRFA?

Yes X

If your answer is 'yes', please indicate whether such policy and legal measures include:

- X Pursuing fair agricultural policies that promote the development and maintenance of diverse farming systems that enhance the sustainable use of agricultural biological diversity and other natural resources;
- X Strengthening research that enhances and conserves biological diversity by maximizing intra-and inter-specific variation for the benefit of farmers;
- X Promoting plant breeding efforts, with the participation of farmers, that strengthen the capacity to develop varieties particularly adapted to social, economic and ecological conditions, including in marginal areas;
- X Broadening the genetic base of crops and increasing the range of genetic diversity available tofarmers;
- X Promoting the expanded use of local and locally adapted crops, varieties and underutilised species;
- X Supporting the wider use of diversity of varieties and species in on-farm management, conservation and sustainable use of crops and creating strong links to plant breeding and agricultural development;
- NO Reviewing and adjusting breeding strategies and regulations concerning variety release andseed distribution.

If such policy and legal measures are in place, please provide details of the measures taken and any difficulties encountered in implementing them:

- The Law on Biodiversity for Food and Agriculture promotes the development of agricultural policies and/or the implementation of existing measures to enhancebiological diversity in agricultural production systems, raising awareness on theimportance and roles of diversified agro-ecosystems and local foods.
- During the 15 years of the RGV/FAO project,
 - o the reintroduction into cultivation of local varieties was realized through recovery and genetic cleaning of local varieties, mainly vegetables. Examples are tomato, peppers, artichoke, potato in the Campania region, tomato, potato and bean in the Marche region, and radicchio, onion, pumpkin in Lombardy.
 - O Partners are continuously carrying out research targeted at the identification of use of PRGFA in sustainable agricultural production. Main targets are reduction ofirrigation (rice), phyto-farmaceutical interventions (disease resistance in cereals, fruit species,...), adaptation and mitigation of the effects of climate change (forest species, fodder crops), requalification of landscapes (industrial species), as wellas broadening the genetic base of cultivated species for sustainable agriculture(cereals, fruit species).
 - o an activity on participatory breeding was initiated on cereals, based on reintroduction of

local maize varieties held ex situ into the areas of origin, in collaboration with local farmers.

Campania Region within the PSR 2014-2020 funded the following actions: "10.1.4 e 10.2.1 attivate dalla Regione nell'ambito della Misura 10- Pagamenti Agro-climatico-ambientali" information available at

http://www.agricoltura.regione.campania.it/PSR_2014_2020/psr.html http://www.agricoltura.regione.campania.it/PSR_2014_2020/M11.html http://www.agricoltura.regione.campania.it/PSR_2014_2020/M16.html

² For the purpose of this report, legal measures may include regulations.

Article 7: National Commitments and International Cooperation

<i>15</i> .		document	conservation, exploration, collection, characterization, evaluation, ation and sustainable use of PGRFA been integrated into your country's nes and policies?		
		Yes	X		
		No			
	Ify	our answei	r is 'yes', please provide details of the integration of such activities:		
	X	Conserva	ation		
	X	Explorati	on		
	X	Collection	1		
	X	Characte	erization		
	X	Evaluation	n		
	X Documentation				
	X	X Sustainable use			
	Please indicate into which type of programmes and policies:				
	X	1	Agriculture and rural		
	dev	elopment			
	X	Food secu	nrity		
	X	Biodivers	ity conservation		
	X	Climate o	change		
		Other			
	Ac	lditional			
	de	tails:			
16.		•	country cooperated with other Contracting Parties, through bilateral alchannels, in the conservation and sustainable use of PGRFA?		
		Yes	X		
		No			
		If your ans	wer is 'yes', please indicate whether the aim of such cooperation is to:		

X Strengthen the capability of developing countries and countries with economies in transition with respect to conservation and sustainable use of PGRFA;

	pro tec	cumentatio oviding ac	Enhance international activities to promote conservation, evaluation, on, geneticenhancement, plant breeding, seed multiplication, and sharing, ocess to and exchanging PGRFA and appropriate information and no conformity with the Multilateral System of Access and Benefit-Sharing eaty.
	you oth	ur country her relevan	to cooperation through the Governing Body or other Treaty mechanisms, has cooperated with other Contracting Parties directly or through FAO and tinternationalorganizations, please indicate such other Contracting Parties ossible, details of any relevant projects:
	Se	e Q 13.	
	Ar	ticle 8:	Technical Assistance
17.		countries	country promoted the provision of technical assistance to developing and countries with economies in transition, with the objective of g the implementation of the Treaty?
		Yes	X
		No	
	N	Not applical	
	If	your answe	r is 'yes', please provide details of the measures taken:
	X	Exchange	e of information
	X	Access to	and transfer of technology
	X	Capacity	building
	Ple	ease explair	1:
fina	ance		ng contributions to the BFS activities targeted at Treaty implementation were 6); these activities comprised also technical assistance as identified in the course of jects.
18.		•	country received technical assistance with the objective of g theimplementation of the Treaty?
		Yes	
		No	X
	N	Not applical	ole
	I	f your answ	ver is 'yes', please provide details of such technical assistance:
	Ех	xchange of	information
	Ac	ccess to and	transfer of technology
		pacity build	

Please explain:				

Article 9: Farmers' Rights

19. Subject to national law, as appropriate, have any measures been taken to protect and promotefarmers rights in your country?

Yes X

No 🔲

If your answer is 'yes', please indicate whether such measures were related to:

- X Recognition of the enormous contribution that local and indigenous communities and farmers of all regions of the world have made and will continue to make for the conservation and development ofplant genetic resources;
- X The protection of traditional knowledge relevant to PGRFA;
- X The right to equitably participate in sharing benefits arising from the utilisation of PGRFA;
- X The right to participate in making decisions, at the national level, on matters related to the conservation and sustainable use of PGRFA;
- X Any rights that farmers have to save, use, exchange, and sell farm-saved seed / propagatingmaterial.

If such measures were taken, please provide details of the measures taken and any difficulties encountered in implementing them:

- Farmers and Farmers' Associations are explicitly recognized in the National Law on the safeguard of Biodiversity for Food and Agriculture. They are active part in the onfarm conservation processes initiated under regional laws. Also the preservation and active application of traditional knowledge on PGRFA is part of the law.
- In the context of the RGV/FAO Project, seed networks and farmers' organizations are recognized for their role in sustainable use and conservation of PGRFA.
- They are furthermore present in the national Table on PGRFA and Treaty implementation as well as in the Treaty's WGs on Farmers' Rights and on Sustainable use, and are therefore involved in policy decision-making both at national and international level.
- Campania region promoted of laws and tools to protect and promote farmer rights such as art.33 della Legge Regionale n.1 del 19 gennaio 2007; Regolamento del 3 luglio 2012, n.6
- In Sicily through the PSR 2007/2013 Misura 214 Azione B.

Article 11: Coverage of the Multilateral System

No

20.	under the	country notified all PGRFA listed in Annex I to the Treaty that are management and control of your Government and in the public domain d in the MultilateralSystem of Access and Benefit-Sharing (MLS)?
	All	
	Partially	X
	None	
	•	er is 'all', please provide details of any difficulties encountered in ex IPGRFA in the MLS:
	If your answer	r is 'partially', please provide details of:
	The ex	tent to which Annex I PGRFA have been included in the MLS; The crops that
	have b	een included in the MLS; and
	The di	fficulties encountered in including Annex I PGRFA in the MLS:
1] ;	the Treaty, but Italy is further a So far, 8.605 ac	et of Annex I accessions which are conserved <i>ex situ</i> in Italy have been notified to efforts are ongoing to include them all in the MLS. Within the ECPGR Programme, stimulating also the inclusion of non Annex I material in the MLS through AEGIS accessions have been flagged through AEGIS(see Q. 13). Interested curators are also roject RGV/FAO partners
	If your answer I PGRFA inth	r is 'none', please indicate the difficulties encountered in including Annex e MLS:
	Lack of gui	idelines for the identification and inclusion of material;
		o national genebank;
	Lack of car	talogue of PGRFA in the countryLack of specialised human resources;
	Limited eco	onomic resources and the need for capacity building;
	Other, plea	se explain
21.	within yo	country taken measures to encourage natural and legal persons our jurisdiction who hold Annex I PGRFA to include those in the MLS?
	Yes	X

If your answer is 'yes', please provide details of:

- The natural or legal persons within your jurisdiction that included Annex I PGRFA in the MLS;
- The crops that have been included in the MLS by these persons; and
- Any difficulties these persons encountered in including Annex I PGRFA in the MLS:

Material has been included in the MLS by the Council for Research in Agriculture and Economics (CREA) and the National Research Council (CNR).

Also, some Universities and other public collections included some material. Information on the included material is available from PlantA-Res, EURISCO and WIEWS.

If your answer is 'no' please provide details, in particular details of any difficulties

	encountered	inencouraging these persons to include Annex I PGRFA in the MLS:
	Article 12: within theM	Facilitated access to plant genetic resources for food and agriculture Iultilateral System
22.		r country taken measures to provide facilitated access to Annex I PGRFA, in nee with the conditions set out in Article 12.4 of the Treaty?
	Yes	X
	No	
	If your answ	er is 'yes', please provide details of such measures:
•	WIEWS is fa well as conta made av	formation on all materials included in the databases of PlantA-Res, EURISCO and accilitated: passport idata of these accessions are searchable in these inventories, as act details of the collection holders. The sMTA for exchange of material has been vailable on the website of PlantA-Res (http://planta-agricole.it/docs_pdf/SMTA_english.pdf), topromote its use in the exchange of
		er is 'no', please provide details of any difficulties encountered in providing facilitated nex I PGRFA:
23.		litated access been provided in your country to Annex I PGRFA using dardMaterial Transfer Agreement (SMTA)?
	Yes	X
	No	
	If your answ	er is 'no', please provide details of any difficulties encountered in providing

	SMTA been nex IPGRFA		arily in your coun	ry to provide acc	cess to
Yes	X				
No					
No, but	the issue is un	der considera	tion		
transfe			ntry provide an op ek recourse in case		
Yes		No 🗆			
f your ansv	ver is 'yes', ple	ase provide o	etails of the relevan	t laws, regulations	or procedures:
	e legal systen to disputes ar		ntry provide for t	he enforcement o	of arbitral decis
				he enforcement o	of arbitral decis
related				he enforcement o	of arbitral decis
related Yes No	to disputes ar	ising under t			
Yes No f your answ Have the	ver is 'yes', ple	ase provide of the control of the co	ne SMTA?	t laws, regulations as in respect of vertical PGRFA for the	or procedures: which your
Yes No f your answ Have the	ver is 'yes', ple	ase provide of the control of the co	etails of the relevan disaster situation access to Annex I	t laws, regulations as in respect of vertical PGRFA for the	or procedures: which your
Yes No f your answ Have the country contrib	ver is 'yes', ple	ase provide of the control of the co	etails of the relevan disaster situation access to Annex I	t laws, regulations as in respect of vertical PGRFA for the	or procedures: which your

Article 13: Benefit-sharing in the Multilateral System

28.	Has your country made any information available regarding Annex I PGRFA?
	Yes X
	No 🐸
	If your answer is 'yes', please provide details of any information made available regarding Annex IPGRFA:
	X Catalogues and inventories
	Information on technologies
	X Results of scientific and socio-economic research, including characterisation, evaluation and utilization
	Other
	• The National Inventory on PGRFA, available from the PlantA-Res website shares passport data on all 16.943 accessions which are currently notified to be availableunder the sMTA.
	• This information is also available in the European Search Catalogue EURISCO, as well as in WIEWS. Specific information concerning characterization and evaluation on this material is being made available upon request to the relative collection managers whose contact details are available from the PlantA-Res website. (see Q. 5)
	• In addition to the above-mentioned National Inventory, further 29.845 accessions(<i>Triticum</i> and <i>Hordeum</i>) are made available by the National Research Council. Information on the availability of this material is contained in the relative notification published on the Treaty website.
	• Campania Region made available this information at the following url: www.genidellacampania.it
29.	Has your country provided or facilitated access to technologies for the conservation, characterisation, evaluation and use of Annex I PGRFA?
	Yes X
	No
	If your answer is 'yes', please indicate whether your country:
	X Has established or participated in crop-based thematic groups on utilisation of PGRFA;
	X Is aware of any partnerships in your country in research and development and in commercial joint ventures relating to the material received through the MLS, human

Please provide details:

resource development and effective access to research facilities.

• Italian experts chair different crop-specific and/or cross-sectorial Working Groups operating under ECPGR. Work carried out by these groups is also based on the useof

technologies as defined and chosen for the specific purposes.

• In the context of the G2B-SOL Project (see Q13), technologies are shared with awide range of countries (Treaty members and non-members) for the molecular and phenological characterization of Solanaceae accessions, and the sharing of this information through a dedicated web tool (http://www.g2p-sol.eu/G2P-SOL- gateway.html)

30.	Has your country provided for and/or benefitted from capacity building measures
	in respect of Annex I PGRFA? ³

Yes	X
No	

If your answer is 'yes', please indicate whether such measures were related to:

- X Establishing and/or strengthening programmes for scientific and technical education andtraining in conservation and sustainable use of PGRFA;
- X Developing and strengthening facilities for conservation and sustainable use of PGRFA;
- X Carrying out scientific research and developing capacity for such research

If your country provided for and/or benefitted from such measures, please provide details:

Capacity building is/was part of the projects and activities listed under Q13.

³ Please note that this question differs from question 15 as it only concerns Annex I PGRFA and is more specific

Article 14: Global Plan of Action

31. Has your country promoted the implementation of the Global Plan of Action for the Conservation and Sustainable Use of Plant Genetic Resources for Food and Agriculture?
Yes X
No
If your answer is 'yes', please indicate whether the implementation of the plan was
done through:
X National actions;
X International cooperation;
Other actions Please provide details:
• Priority Areas II (ex situ conservation) and III (sustainable use) of the GPA are core elements of the national RGV/FAO Project and are therefore extensively implemented an national level. (see above). Since this project is not limited to Annex I crops, a wide range of PGRFA species including landraces and wild relatives benefit from the activities.
• Priority Area I of the GPA (<i>in situ</i> conservation) has not been systematically approached yet, but surveys on CWR including their threat assessment have been carried out, which lays the base for future elaboration of an <i>in situ</i> conservation strategy.
On farm management, on the other hand, is quite well implemented at national level, both through the RGV/FAO Project and within regional measures and action plans on the conservation of local PGRFA.
 Concerning Priority Area IV (Institutional and Human Capacities), these aspects are inpart covered under different activities, for example through the work carried out within ECPGR and other collaborations.
Article 15: Ex Situ Collections of Plant Genetic Resources for Food and Agriculture held by the International Agricultural Research Centres of the Consultative Group on International Agricultural Research and other International Institutions
32. Has facilitated access to Annex I PGRFA been provided in your country to the International Agricultural Research Centres of the Consultative Group on International Agricultural Research (IARCs) or other international institutions that have signed agreements with the Governing Body of the Treaty?
Yes X
No 🔘
If your answer is 'yes', please indicate:

To which IARCs or other international institutions facilitated access was provided; The number of SMTAs entered into with each IARC or other international institution:

Access is facilitated to any interested stakeholder, through the websites of PlantA-Res, EURISCO and WIEWS.

If your answer is 'no', please provide details of any difficulties encountered in providing facilitated access to Annex I PGRFA to IARCs and other international institutions that have signed agreements with the Governing Body of the Treaty:

33. Has access to non-Annex I PGRFA been provided in your country to IARCs or other international institutions that have signed agreements with the Governing Body of the Treaty?

Yes X No

If your answer is 'yes', please indicate:

To which IARCs or other international institutions access was provided;

The number of MTAs entered into with each IARC or other international institution:

Non-Annex I material has been included in the MLS through AEGIS and is available from the EURISCO website.

All available information is made available to any interested stakeholder, including the IARCs. Information about sMTAs exchanged with the IARCs are known to the Secretariat of the Treaty.

If your answer is 'no', please provide details of any difficulties encountered in providing access to non-Annex I PGRFA to IARCs and other international institutions that have signed agreements withthe Governing Body of the Treaty:

Article 16: International Plant Genetic Resources Networks

34.	non- go	ur country undertaken any activities to encourage government, private, vernmental, research, breeding and other institutions to participate in the tional plant geneticresources networks?
	Vac	V

Yes X

If your answer is 'yes', please provide details of such activities:

National stakeholders of different character have been (in part successfully) invited toparticipate in ECPGR and AEGIS related activities, as well as to join the National Inventory published on the PlantA-Res website.

Article 18: Financial Resources

35.	Has your co	ountry	provided	financial	resources	for	national	activities	for	the
	conservation	n andsus	stainable	use of PG	RFA?					

Yes X
No

If your answer is 'yes', please provide the estimated amount of funds provided during the last fiveyears, including government resources:

The Technical Report to the Law on the implementation of the Treaty identifies three actors who receive funds for the development and implementation of activities targeting the conservation and sustainable use:

- Research institutions operating under the auspices of the Ministry of Agriculture, through the RGV/FAO Project. Between 2004 and 2021, a total of 17.5 million € has so far been invested. Target activities are mainly related to *ex situ* conservation and associated operations, as explained above (Q5).
- The 20 Regions are called to promote the conservation and sustainable use of PGRFA at local level, with financial resources being provided through the EuropeanAgricultural Fund for Rural Development, set up by European Union Council Regulation (EC) No 1290/2005 of 21 June 2005 on the financing of the Common Agricultural Policy (CAP). In this context, for the 2014-2020 period, the 20 Italian Regions received around 80 million € for the implementation of Measure 10.2 ("conservation and sustainable use of PGRFA"). Related activities are mainly targeted at the recovery of autochthonous and local varieties, their characterization, documentation and conservation, as well asmaintenance of regional networks of local farmers conserving those varieties on farm(QQ 6 and 8).
- The Ministry of Environment receives about 100.000 € per year for measures targeted at *in situ* conservation of CWR in Protected Areas.
- Sicily funded several projects aimed at the conservation and sustainable use of PGRFA such as:
 - Progetto Recupero e valorizzazione dei vitigni autoctoni € 2.000.000
 - Progetto Risorse Genetiche Vegetali Sicilia € 1.000.000
 - Progetto Mandogerm € 100.000
 - Progetto Olivo € 500.000
 - Progetto Frutticoltura Etnea € 500.000
 - Progetto Grani Antichi € 500.000

Please indicate if your country has developed a strategy or other measures to enhance the availability, transparency, efficiency and effectiveness of the provision of financial resources to implement the International Treaty:

36.	Has your country provided financial resources for the implementation of the
	International Treaty?

1 63	Λ
No	

Vac

If your answer is 'yes', where possible, please provide details of such channels and the amount of the financial resources involved during the last 5 years:

- Italy is one of the major contributors to the International Treaty al global level, havingso far contributed with a total of 10.597.260 US\$, divided as follows:
 - o Core Administrative Budget (1.126.735 US\$)
 - o Fund to support the Participation of Developing Countries (26.678 US\$)
 - Fund for Agreed Purposes between the Treaty Secretariat and ContractingParties (3.174.362 US\$)
 - o Benefit Sharing Fund (8,011,811 US\$).
- ECPGR WG activities and Grant Scheme Projects. These Projects are short term activities (12-24 months), funded by a maximum of 15.000 € each (extra contributions excluded):
 - o COCHEVA Bras Collection, Characterization and Evaluation of wild and cultivated Brassicas (2015-2016)
 - o *EURISCO Training Workshop* (2015, 2016, 2017)
 - o ECoHisPy Building and promoting a European Pyrus collection a case study (2015-2016)
 - PRUNDOC Identification of a representative set of Prunus domestica accessions of European origin, well documented and characterized, to beincluded into the AEGIS system (2015-2016)
 - o TRAID Triticum in AEGIS: Identification and Documentation (2015-2016)
 - EU.CHERRY Collaborative action for updating, documenting and communicating the cherry patrimonial richness in EU (2016-2017)
 - Barley C&E Data Integration of barley characterization and evaluation into EURISCO, and development of specifications for a barley crop portal, with afocus to improve the AEGIS collection (2016-2017)
 - o SMARTLEG Efficient management of resources for smart legumes Utilization (2016-2017)
 - o Grape On Farm *On-farm inventory of minor grape varieties in the European* Vitis *Database* (2017-2018)
 - TRISECA Identification and updating data of eligible AEGIS accessions in bothwheat and rye species (TRIticum and SECale in Aegis = TRISECA) (2017-2018)
 - o LINKAGES Assessing linkages between genebanks and direct users (2017-2018)
 - o Pomefruit C&E Common ECPGR protocols and tools available for Characterization & Evaluation of Malus/Pyrus genetic resources
 - o BETA NET Improving a cooperation network between actors involved in conservation and utilization of Beta genetic resources (2018-2019)
 - o Prunus Alignment Testing, Use and Alignment of genetic data to distinguishunique and characterized accessions in Prunus (2018-2019)
 - Training in *Triticum* Species (TTS) *Training on Identification of Botanical Varieties in* Triticum *Species* (2018-2019).
 - o "AEG-VIT-IS: Enhancing quality and quantity of Vitis genetic resources in AEGIS (2020-2021)"

Total			
amount:			
Channel:			
Bilateral	X	Regional	X
Multilateral	X		

Has your country received financial resources for the implementation of the InternationalTreaty?							
Yes							
No	X						
	answer is 'yes', where possible, please provide details of such channels and the of the financial resources involved during the last 5 years:						
7	Total amount:						
(Channel:						
Bilat	eral						
Regio	onal						
Mult	ilateral						
Please p	rovide details:						
General	remarks on the implementation of the ITPGRFA						
	remarks on the implementation of the ITPGRFA may use this box to share any advice you may have arising from your						
You coun You							

[--- Question to be administered separately ---]About this reporting

	Have	you	encountered	any	difficulties	in	completing	this	
r	eporting	forma	t?						
Y	es 🖳								
N	lo								
If yo	ur answe	er is 'y	es', please pro	vide o	details on su	ch di	ifficulties:		
If yo	ou have si	uggest	tions for impro	oveme	ent of this re	porti	ing format, p	lease share then	n: