# The FAO International Treaty (IT) on Plant Genetic Resources for Food and Agriculture, the Convention on Biological Diversity (CBD), and its Nagoya Protocol (NP)

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- The IT is a legally-binding Treaty under the UN Food and Agriculture Organization.
- The objectives of the IT are:
  - the conservation and sustainable use of PGRFA (Plant Genetic Resources for Food and Agriculture = plant germplasm) and
  - the fair and equitable sharing of the benefits arising out of their use.
  - The IT is in harmony with the CBD, and <u>focused on sustainable agriculture and food security.</u>

- The CBD is a legally-binding Convention.
- The objectives of the CBD are:
  - the conservation of biological diversity
  - the sustainable use of its components and
  - the fair and equitable sharing of the benefits arising out of the utilization of genetic resources.

- The IT:
  - 140+ nations are
     Parties to it; in force
     since June 2004.
  - The US Senate
    approved ratification
    on 29 September
    2016; US became a
    Party on 13 March
    2017.

#### The CBD:

- 190+ nations are
   Parties to it; in force
   since Dec. 1993.
- The US signed (1993)
   but has not yet
   ratified it.

- The IT:
  - Recognizes nations' sovereign rights over "their" PGRFA but agree to:
  - Establish a multilateral system (MLS) for benefit-sharing and facilitated access to certain PGRFA for crop genetic improvement for food security.
  - Provisions for PGRFA in International Agricultural Research Centers (CIMMYT, IRRI).

- The CBD:
  - Recognizes nations' sovereign rights over "their" genetic resources.
  - Emphasizes contractual (bilateral) arrangements.
  - "Prior informed consent" can be required by a nation, and "benefit sharing" takes place via "mutually agreed terms" regarding access to germplasm.

- IT's scope includes all PGRFA. The MLS includes:
  - PGRFA of 64 food and feed crops key to food security; more crops may be included;
  - Held in ex situ
     collections by national
     governments (e.g., US
     National Plant
     Germplasm System), in
     the public domain; or
     held by IARCs; or
  - Donated by private entities.

- CBD's scope and coverage:
  - Most genetic resources under national jurisdiction exchanged internationally post-29 Dec. 1993.
  - US considers the IT to cover all PGRFA but some nations' IT interpretations might lead to their applying implementing legislation for the **CBD** Nagoya Protocol (NP) to crops not now covered by the IT MLS (e.g., soybean, tomato).

- Benefit-sharing under the IT:
  - In a broad sense,
     benefit-sharing under
     the IT will come from
     nations who are obliged
     to conserve PGRFA and
     make them available for
     research and breeding.
- Benefit-sharing under the CBD:
  - Negotiated by providers and recipients (e.g., in contracts for exchanging genetic resources); in some cases involve national governments.
  - In many nations, will be guided by the Nagoya Protocol (NP) on Access to Genetic Resources and the Fair and Equitable Sharing of the Benefits Arising from their Utilization: came into force October 2014.

- Benefit-sharing under the IT:
  - In a narrow sense, monetary benefit-sharing will flow from individual PGRFA transactions via the Standard **Material Transfer Agreement** (SMTA) which details obligations of recipients and providers. Funds do not flow back directly to the PGRFA's country of origin: they are invested in projects supporting farmers in developing countries who conserve crop diversity and assisting farmers and breeders globally.
- Benefit-sharing under the CBD:
  - National implementation procedures are under development, and will be key to the NP's effects.
  - See the CBD Access and Benefit-Sharing Clearinghouse for more information:

https://absch.cbd.int/

- Germplasm access and exchange under the IT:
  - Via the MLS's SMTA, which includes conditions for end use (excludes non-food and non-feed), conservation, management of intellectual property rights (IPRs), and benefit-sharing upon commercialization.
- Germplasm access and exchange under the CBD:
  - Variable terms,
     negotiated by parties to individual contracts.
  - National implementation of the NP might affect those terms, and might not be tailored to the needs of agriculture, which can involve problematic requirements.

### Effects of IT and CBD on US germplasm users

#### • IT:

- Has not affected use of PGRFA acquired pre-IT, nor of domestic US PGRFA.
- Use of some PGRFA acquired internationally post-IT has been affected by terms and conditions of SMTA.
- In some cases, the IT's SMTA has facilitated international access to PGRFA for U. S. publicsector researchers, genebanks, etc., but in other cases it has not.

#### • CBD:

- Generally has not affected use of germplasm acquired pre-CBD, nor of domestic US germplasm.
- Use of germplasm acquired internationally post-CBD affected by terms and conditions of exchange consistent with U. S. law.
- Effects of the NP will be determined by its implementation.
- Post-CBD and post-NP, access to germplasm internationally has become increasingly problematic.