Need for a mutual supportiveness of Nagoya Protocol and IT PGRFA in national ABS implementation

Los Baños, 27 March 2017
Simple, effective and mutual supportive implementation of the IT PGRFA and the NP

- Explanation of plant breeding
- Needs with regard to ABS legislation
- Continuous benefit-sharing
The plant breeding process

From genetic resource to genetic resource

Genebank accessions

Commercial material

Landraces/wild types

Selection of plant material

Recombination

Evaluation

Trials in several years and in several locations

Resistance, yield, agricultural characteristics

Selection

Parent line/variety

Application for variety registration

DUS tests

Seed production, pre-basic, basic, standard/certified seed

Cultivation

2-4 years

6-8 years

3-5 years

Maintenance breeding

From genetic resource to genetic resource
The plant breeding process

From genetic resource to genetic resource

Selection of plant material

Resistance, yield, agricultural characteristics

Trials in several years and in several locations

Parent line/variety

Application for variety registration

Seed production, pre-basic, basic, standard/certified seed

Cultivation

DUS tests

Interdependence

Genebank accessions

Commercial material

Landraces/wild types
The plant breeding process

Complex ancestry: thousands of GRs used to arrive to one new variety

- Selection of plant material
- Recombination
- Evaluation
- Trials in several years and in several locations
- Resistance, yield, agricultural characteristics
- Selection
- Parent line/variety
- Application for variety registration
- DUS tests
- Cultivation
- Seed production, pre-basic, basic, standard/certified seed
The plant breeding process

Complex ancestry: thousands of GRs used to arrive to one new variety

Continuous flow of material around the world

From genetic resource to genetic resource
Plant breeding; which materials to be used
Plant breeding; lots of crosses a year

±5 %

± 95 %
Needs with regard to ABS obligations

- Practical rules
  - Preferably one set of rules for all plant breeding activities; IT PGRFA fits best
- Clarity on which legislation to use
  - Different types of plant material
  - Different species (crops)
    - *In situ* versus *Ex situ*
- Simple procedures; standard clauses
- English information
- Timeliness
- Legal certainty; as breeding processes are long
Needs with regard to ABS obligations

• National focal points and competent authorities
  • Contact details
  • Mandates

• Reasonable expectations
Continuous benefit-sharing

https://www.euroseeds.eu/voluntary-benefit-sharing-activities-european-seed-industry
Continuous benefit-sharing

- Improved varieties
- Breeders’ exemption
- Characterization and evaluation of genebank materials
- Multiplication of genebank materials
- Providing genetic resources to the multilateral system
- Direct financial support
- Dissemination of information
- Involvement in international cooperation
World map with benefit-sharing activities
Benefit-sharing project Indonesia

INDONESIA

YAYASAN BINA TANI SEJAHTERA FOUNDATION

At the basis of this project is Indonesia’s largest vegetable seed company PT East West Seed Indonesia. The founders of this joint venture, Enza Zaden’s Pier Mazereeuw and Simot Groot of East West Seed, are also the founding fathers of the Yayasan Bina Tani Sejahtera Foundation, which they established in 2009. However, the daily affairs of the Foundation are handled by the team of PT East West Seed Indonesia. The aim of the Foundation is to give vegetable growers all the help they need. The Foundation helps growers grow their vegetables, especially in the remote parts of the lowlands with their difficult conditions. By sharing the expertise and technology the living standards of many farming families are improved and their capacity and production will increase. Know-how is constantly made available by the Foundation to millions of vegetable growers in the country and it is visible that the better technology and high-quality resources like seed help farmers increase their income.

Examples of success stories include: digging of wells and installing of pipelines to make more water available for irrigation and consumption; planting trees to make environments greener; printing manuals on vegetable cultivation and making those available to farmers.

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Tentang YBTS

Yayasan Bina Tani Sejahtara (YBTS) didirikan untuk berkibrah di bidang sosial dan kemanusiaan khususnya terkait dengan penghidupan pertanian. Kami berkarya untuk membantu perbaikan penghidupan petani agar semakin sejahtera. Berdirinya yayasan merupakan salah satu strategi lanjung jawab sosial perusahaan PT. East West Seed Indonesia (http://www.panahmerah.id/).
Seed is Life