#### **Digital Sequence Information**

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#### What is DSI?

- Digital sequence information: sequenced genetic resources
- No need to cross borders as physical sample, before being uploaded and internationally available
- Product development: Often no direct line between one sequence and one product, especially when new sequences are created digitally based on database entries coming from natural resources
- There is a product and service industry around creating and working with DSI, incl. analytical software and proprietary algorithms

#### Decision 15/9

A multi-lateral mechanism (MLM) to share monetary and non-monetary benefits and a Global Fund

#### Annex, para 1:

"[All] [commercial] users
of digital sequence information on genetic resources
[held in [public] databases]
[are encouraged to][will][should][shall]
share [monetary or non-monetary] benefits
arising from its use
in a fair and equitable manner."

# 5 questions

- Who should pay into the Global Fund?
- Who should receive money?
- How to share non-monetary benefits?
- How does the MLM relate to national measures?
- What about the databases?

## 1. Who should pay?

- all those who benefit directly or indirectly
- all users
- all from specific sectors (individual exemptions possible)
- only those users who heavily rely on DSI
- only those users who make a lot of money from it
- only those who self-identify as relevant DSI user
- only companies from developped countries
- everybody buying a product made using DSI or from biological resources

## 2. Who should receive money?

- Parties based on a fixed formula
- Project based
- Hybrid of Party allocation and projects
- all Parties and/or IPLCs
- only Parties and IPLCs in developing countries

## 3. Non-monetary benefits

- not shared through the Global Fund
- must not replace monetary benefits
- there's no list (yet) on what these nonmonetary benefits could be
- users of DSI should somehow find others with whom to share non-monetary benefits, but based on mutually agreed terms

# 4. Relationship to other measures?

- "No double payments" and "No jurisdiction shopping"
- If a sequence is in a Public database, then it should not also be regulated by a national measure.
- If a user already paid to another instrument, then they should *not* pay to the Global Fund (for example International Treaty on Plant Genetic Resource)
- MLM and national measures can be harmonized.
- Parties should be able to choose which sequences or genetic resources fall under national measures and which fall under the MLM

### 5. What about the databases?

- The assumption is that DSI will somehow show up in public databases.
- There is no definition of "public database"
- DSI can be uploaded to public and private databases, with additional information, but it differs whether what or whether it's required.
- Generally, there is no check whether sequences have be obtained legally.
- Sequences in public databases are generally available to researchers, but no guaranteed rights to access.
- The entities who maintain and manage public databases
  - can be outside the influence of the CBD
  - can receive funding etc. by Parties, their ministries, their research projects etc.

#### Public Databases

- [should] inform users about benefit sharing, but don't have to collect money for the Global Fund
- [should] have good governance
- Parties
  - only want to encourage databases "because the have no control over them"
  - funding databases "shall ensure" that the entities operating them ensure the effective implementation of the DSI decision
- The CBD
  - should operate it's own centralized database.
  - could operate or use a Clearing House

# Open issues?

- Who should pay?
- Who should receive?
- How should the money be distributed?
- Does the CBD wants to tell the database operators what to do?
- Is the MLM the default process for DSI, or can sequences be kept under national control?
- What to do about non-monetary benefits?
- Should the CBD operate a centralized DSI database, a Clearing House?

# Will the MLM for DSI be a strong instrument?

Or a way to postpone any benefit-sharing until all genetic resources are sequenced and uploaded?