

PGR Management

Activities and Challenges from a European Perspective

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PGR Management – activities & challenges

- genetic diversity needs to be conserved and made available
 - *ex situ* in genebanks
 - on-farm in 'traditional' farms or gardens
 - *in situ* in nature reserves

PGR Management – activities & challenges

- PGR management activities in Europe
 - *ex situ*
 - ca. 1.4 million accessions in 400 public holdings
 - *in principle* available under SMTA (MLS material) or NP
 - documentation centralised in EURISCO
 - quality of management varies
 - on-farm (landraces)
 - very many NGO's with various sizes and backgrounds
 - representing local farmers and hobby growers
 - generally poor management and restricted access
 - strong public awareness activities
 - *in situ* (crop wild relatives)
 - based on national legislation and nature protection
 - hardly accessible

PGR Management – activities & challenges

■ European challenges

national / European issues

- coordination
 - players need to collaborate to be more effective
- reliability
 - conservation needs to be reliable

once lost = lost for ever

- access
 - international policies complicate access
 - scientific and technological developments need to be used

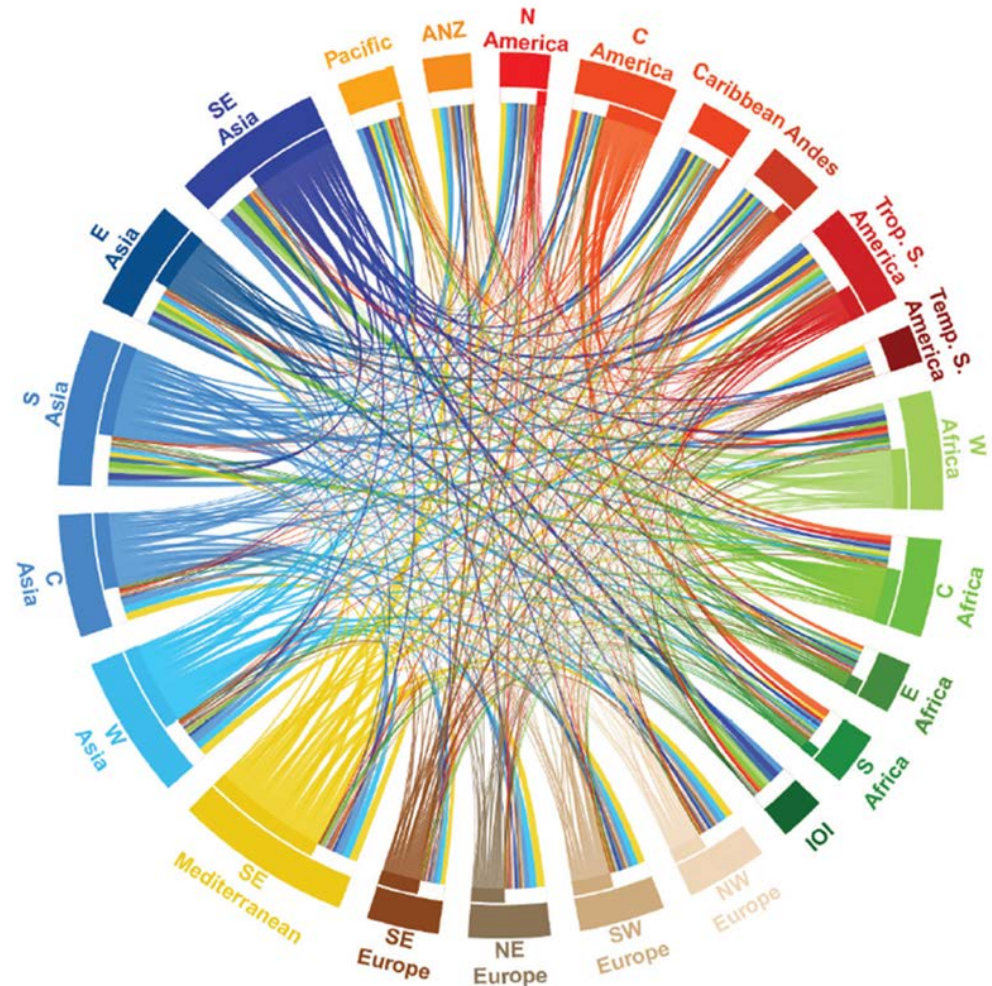
global issues

PGR Management – activities & challenges

- PGR: very high global interdependence

Calories in regional food supplies and their origins

(Source: Khoury *et al.* 2015)



PGR Management – activities & challenges

- options for collaboration EU - China
 - improve visibility of, and access to PGR
 - create 'windows' on each others PGR
 - mind the language
 - Genesys as potential platform
 - establish policy-environment that allows exchange
 - create trust by visits and collaborative projects
 - explore possibilities of genomics for genebanks (G4G)
 - characterise and analyse genebank collections
 - use of ~omics facilities
 - bioinformatics meets plant breeding and biosystematics
 - develop interfaces to support the use of PGR
 - based on use cases

Thank you for your attention !



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