Progress report EURISCO

EURISCO Advisory Committee meeting, 14th October 2016, Angers, France
Contents of EURISCO

• 1,842,760 accessions

• 376 holding institutes

• 43 countries

• 6,233 genera (including synonyms)

• 41,649 species names (unique combinations genus + species, including synonyms)

• 368,446 MLS accessions

• 28,899 AEGIS accessions

as of 2016-09-07
Genera

- Arabidopsis: 36%
- Triticum: 8%
- Hordeum: 6%
- Zea: 3%
- Solanum: 2%
- Phaseolus: 2%
- Pisum: 2%
- Avena: 2%
- Vitis: 1%
- Other: 37%

as of 2015-12-07
Biological status

- Breeding/research material: 26%
- Traditional cultivar/landrace: 14%
- Advanced or improved cultivar (conventional breeding methods): 12%
- Wild: 7%
- Natural: 5%
- Other: 3%
- Breeder's line: 3%
- Inbred line (parent of hybrid cultivar): 1%
- Unknown: 29%

as of 2015-12-07
Data quality in EURISCO

- 587,391 accessions with collecting information
  - 91,808 different collecting sites
  - But only 188,456 accessions with coordinates (10% of all accessions; 32% of accessions with collecting information)

- 1,161,631 accessions with donor information

- 960,334 accessions with country of origin
  - 24 different geographic regions

as of 2016-09-07
Passport data updates

• 2014
  – 1 update
  – 1,114,995 accessions

• 2015
  – 28 updates
  – 1,837,368 accessions

• 2016 (as of 2016-09-09)
  – 19 updates
  – 1,842,760 accessions
Outcomes 2014

• EURISCO transfer
  – Reengineering from scratch
    • Database structures
    • Public web application
    • Intranet for NFPs incl. PL/SQL packages for data integrity checks
  – Migration path for EURISCO data (MySQL → Oracle)

• Switch to new upload mechanism (incremental updates)
Outcomes 2015

• EURISCO intranet
  – Java-based passport importer developed
  – Data quality/integrity checks improved

• Extension for C&E data
  – Data exchange format
  – Database schema
  – Upload mechanism
  – Public web interface (prototype; continued in 2016)

• AEGIS tracking

• Several improvements of the public web interface
Outcomes 2016 (as of 2016-09-12)

• Extension for C&E data (continued)
  – Public web interface tested
  – Additional features implemented
  – Productive data imported

• Public web interface
  – Additional export functionalities implemented
  – Advanced search completely reworked
  – Extended performance tuning
New architecture: DB schema features

- EURISCO intranet
  - 49 tables
  - 460 indexes
  - 90 triggers
  - 9 PL/SQL packages
  - 110 functions and procedures
  - 27 Java classes

- EURISCO web
  - 45 tables
  - 25 materialised views
  - 585 indexes
  - 6 PL/SQL packages
  - 25 functions and procedures
Version history web interface

• v1.0.0 (Oct. 2014)
  First public version
  – v1.0.1 – v1.0.6
    Small extensions/improvements

• v1.1.0 (Nov. 2014)
  New export functionality + download of full dump
    Continuous improvements

• v1.2.0 (Jun. 2016)
  C&E data extension; new export functionalities; new advanced search; lots of small improvements
  – v1.2.1 – v1.2.3 small extensions/improvements
Coordination

• Helpdesk behind the scenes (should not be underestimated ;-) )
• Planning of training workshops
  – 2015 Tirana, Albania
  – 2016 Angers, France
  – 2017 Gatersleben, Germany
  – Training materials + test environment developed + report
• Participation in project applications
• Presentations, posters, article
• Newsletter
• Plans and reports