Species 2000

The Species 2000 Protocols for a Distributed System

by Yuri Roskov, Species 2000 Secretariat

Species 2000

- Species 2000 is a federation of taxonomic databases around the world
- We are working in partnership with ITIS (**I**ntegrated **T**axonomic **I**nformation **S**ystem, N America) on the **Catalogue of Life**
- **Catalogue of Life** is a taxonomic checklist of all know species of the Earth

Species 2000

- **The Catalogue of Life** is available as
- **Dynamic Checklist** is an array of on-line taxonomic databases which linked to the common access system operated by SPICE software
- **Annual Checklist** is a fixed assembly of taxonomic databases as an annual edition of single database on CD and in the web

- **Dynamic Checklist (2006)**

www.sp2000.org or http://spice.sp2000.org

✓ 26 databases (including European Hub)

✓ covers 450.000 species

- **Annual Checklist (2006)**

www.sp2000.org or http://annual.sp2000.org/2006

✓ 37 global species databases

✓ covers 880.000 species (over 1.050.000 in 2007)

Species 2000

Standard Dataset,

version 3.2 of December 2004
is available at *www.sp2000.org*

The standard dataset has described 10 field groups related to each species:

1. **Accepted scientific name** linked to References,
2. **Synonym(s)** linked to Reference(s),
3. **Common name(s)** linked to Reference(s)
4. **Latest taxonomic scrutiny**
5. **Database title**
6. **Additional data**/Comments
7. **Family name**
8. **Classification** above family up to highest taxon
9. **Distribution data**
10. **Reference(s)**

Species 2000

Roadmap to database connection

1. Collecting metadata on each database via Sp2000 Questionnaire

2. Open on-line access to the database

3. Peer review process: 3 independent taxonomic reviews plus technical report by the Secretariat

4. Joining Species 2000 (membership of the international project)

5. Access agreement (permission for Species 2000 to include data into the Catalogue of Life)

Roadmap to database connection

- **for Dynamic Checklist**

6. Connection to one of the Species 2000 hubs via SPICE wrapper (incl. mapping fields and wrapper programming)

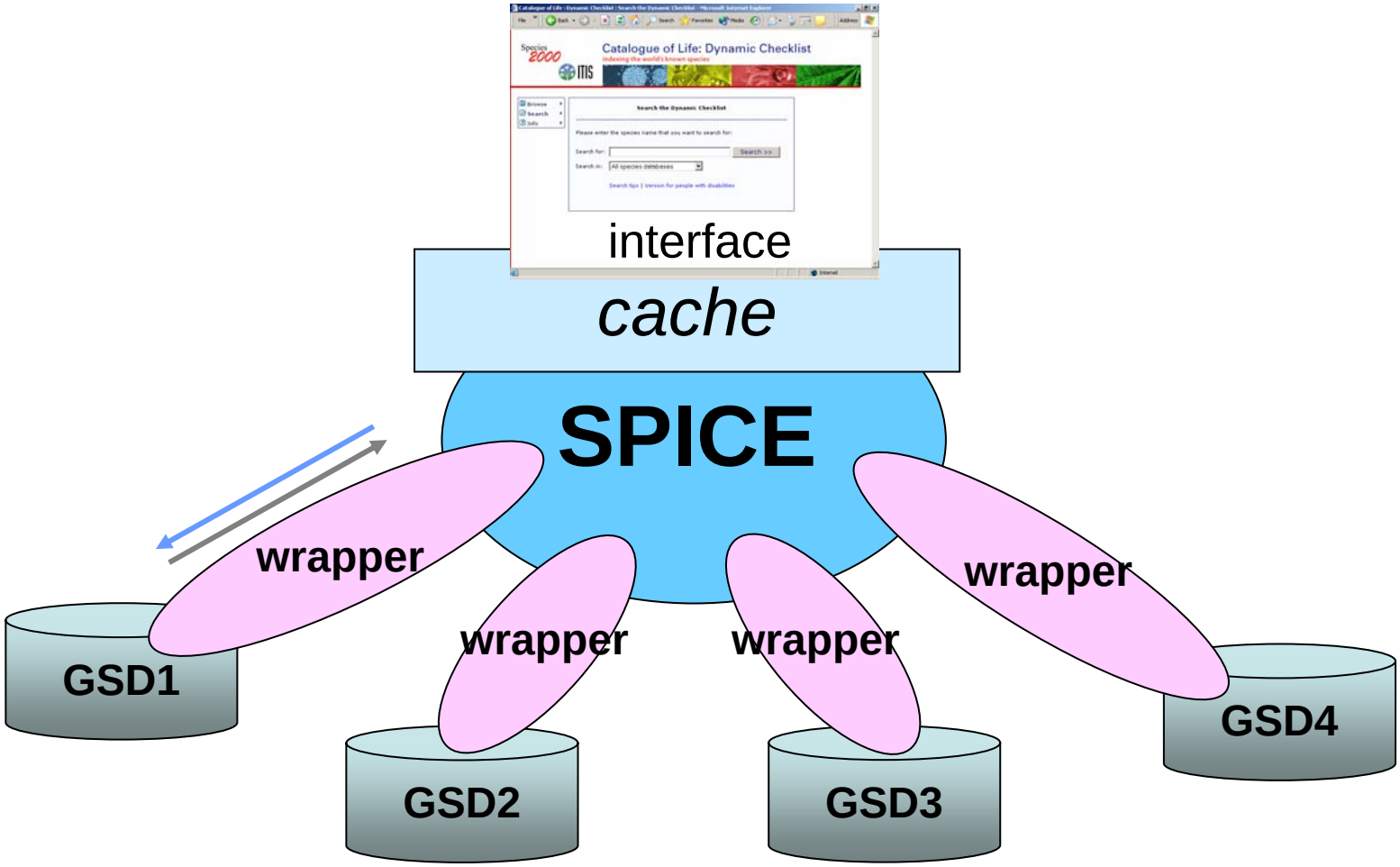
7. Testing the connection to the hub (technical tests & content verification)

- **for Annual Checklist**

8. Download from individual databases for the Annual Checklist assembly

Species 2000

Dynamic Checklist connection,
Architecture # 1

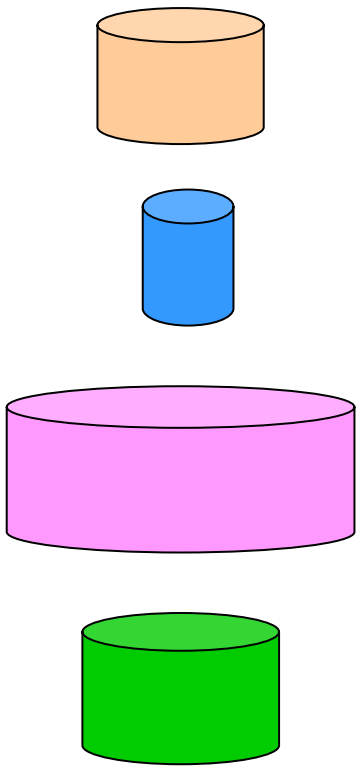


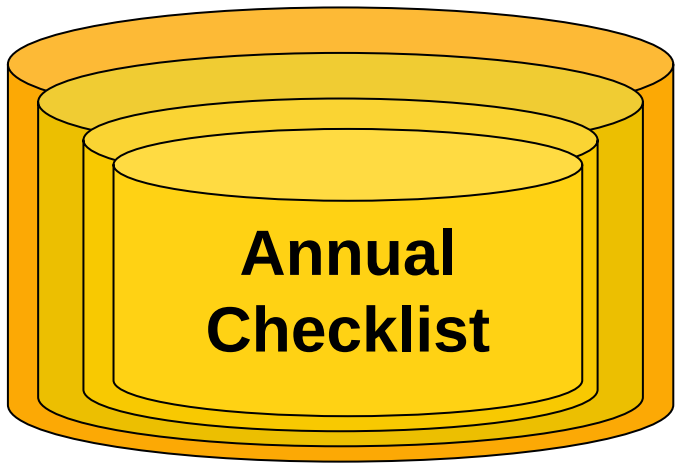
Species 2000

Annual Checklist assembly

(present procedure)

Luvie Paglinawan,
Philippines





Species 2000

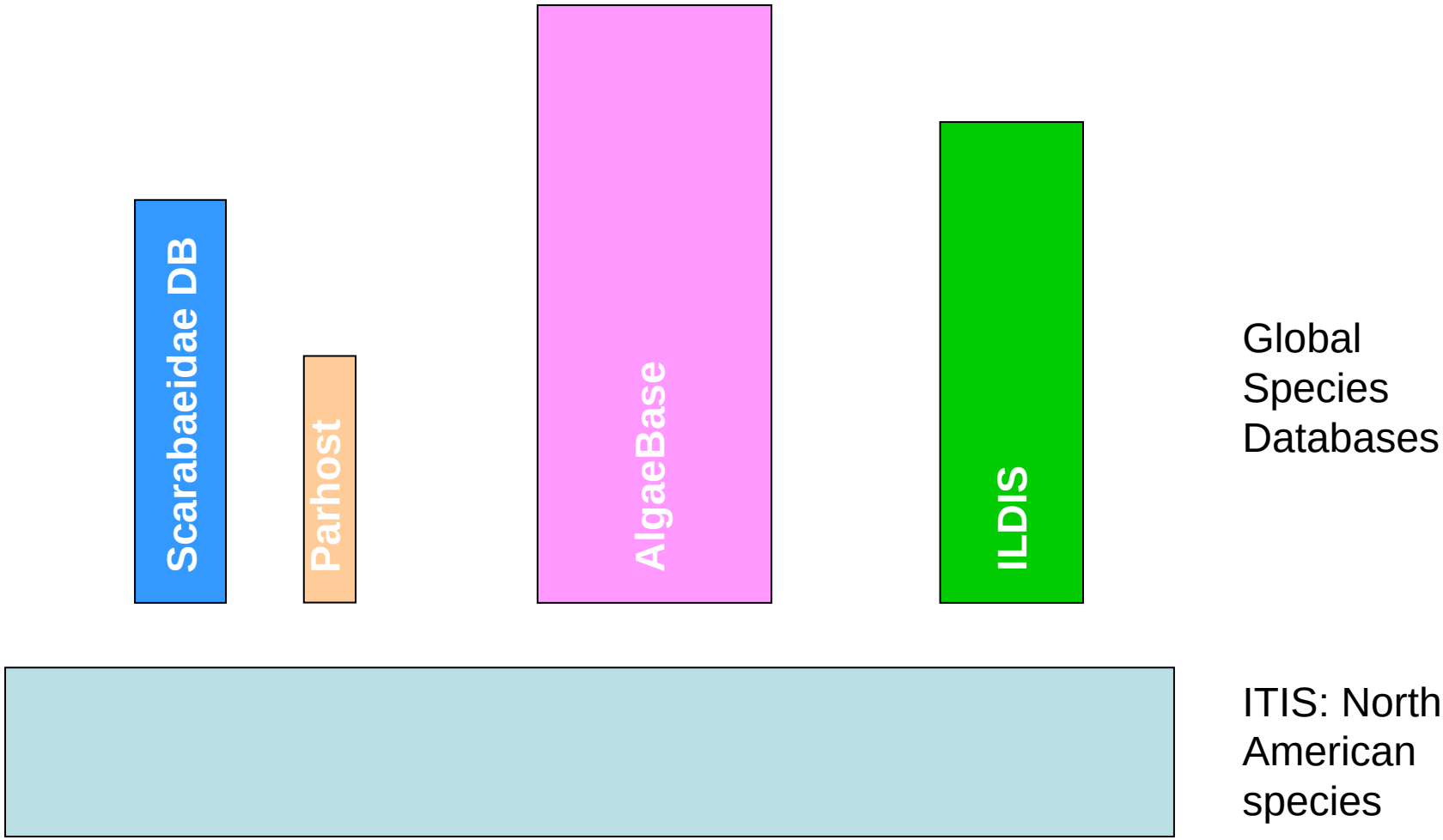
Annual Checklist assembly
(present procedure)

ITIS: North American species

Species 2000

Annual Checklist assembly

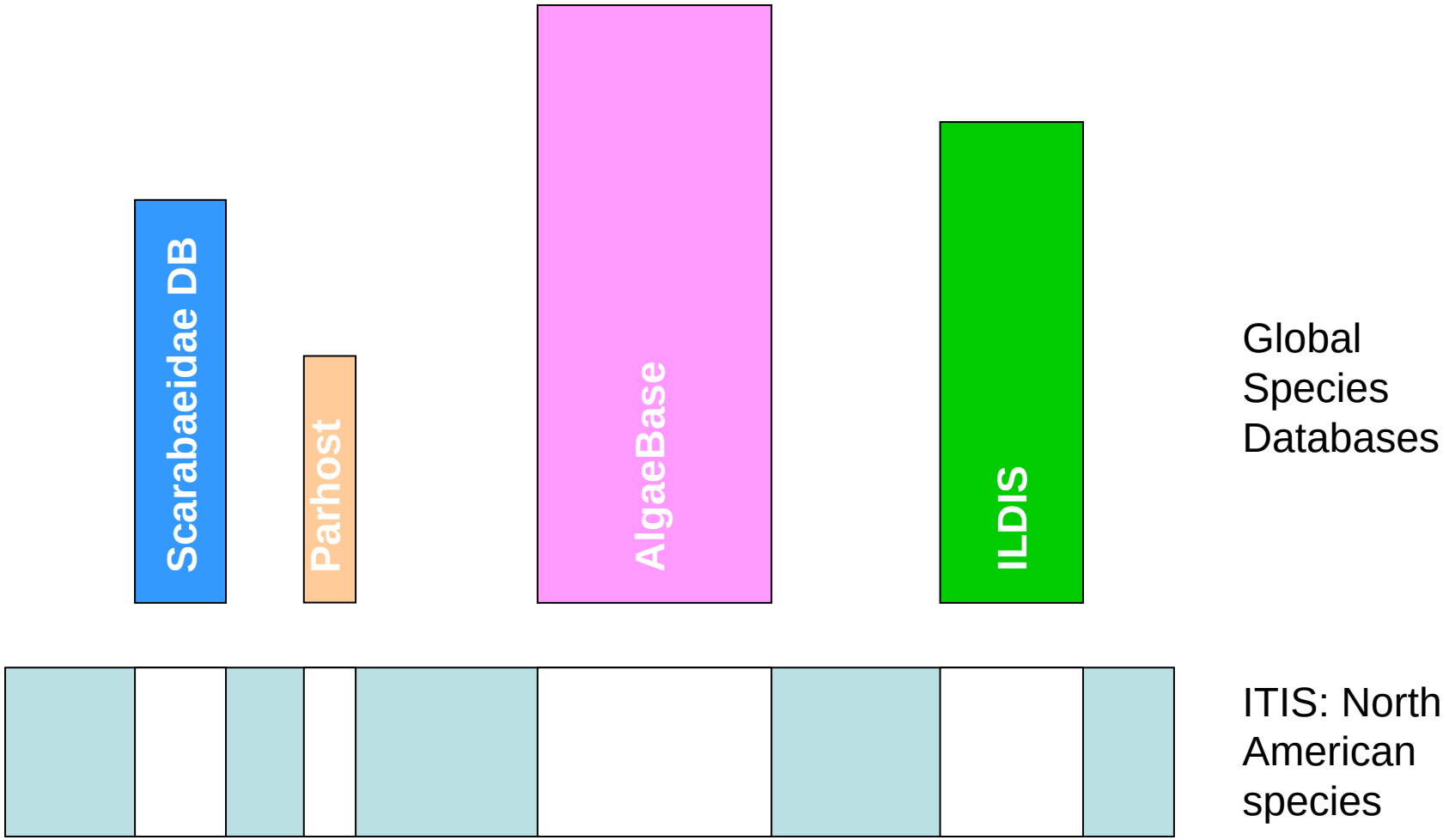
(present procedure)



Species 2000

Annual Checklist assembly

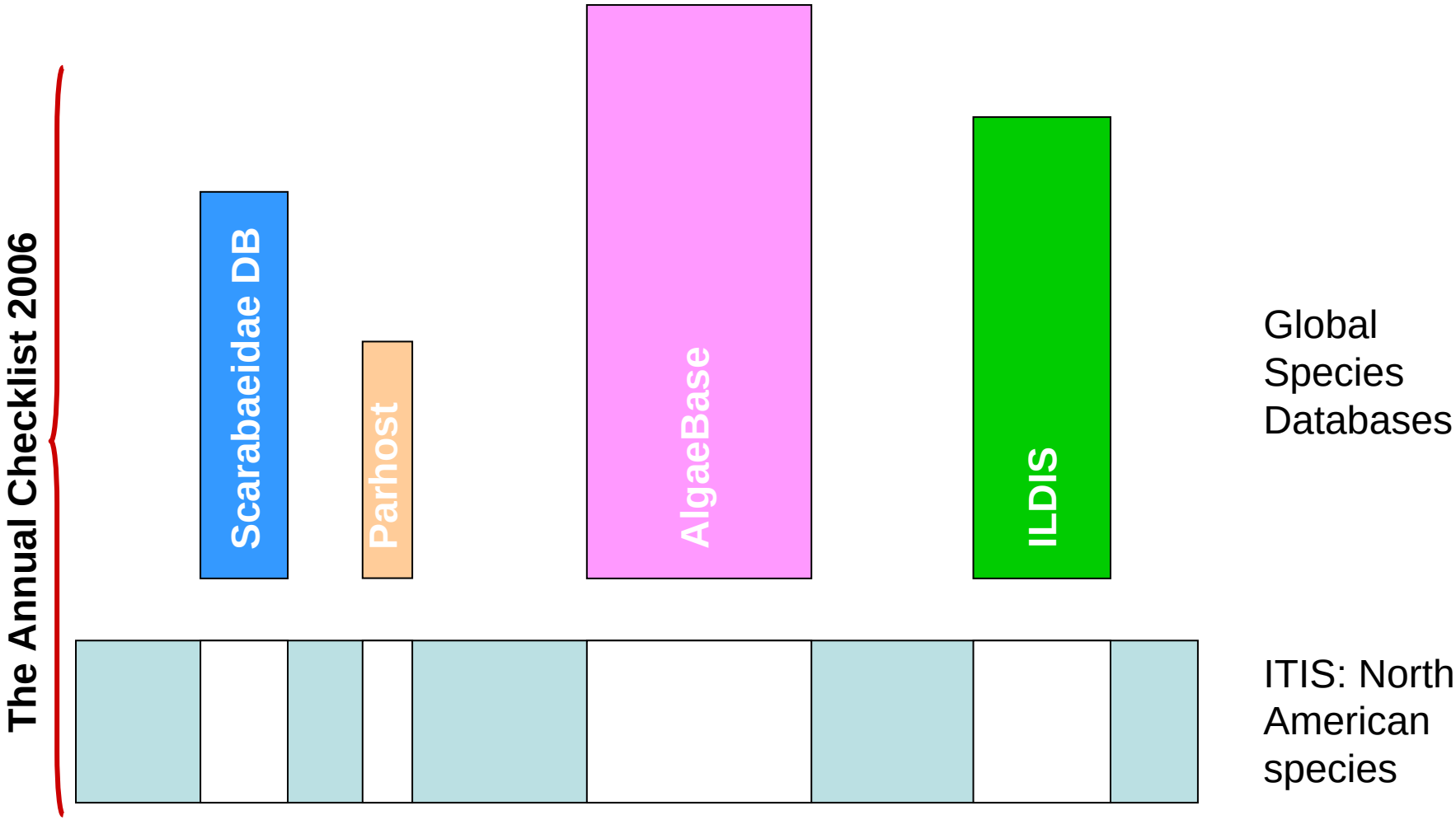
(present procedure)



Species 2000

Annual Checklist assembly

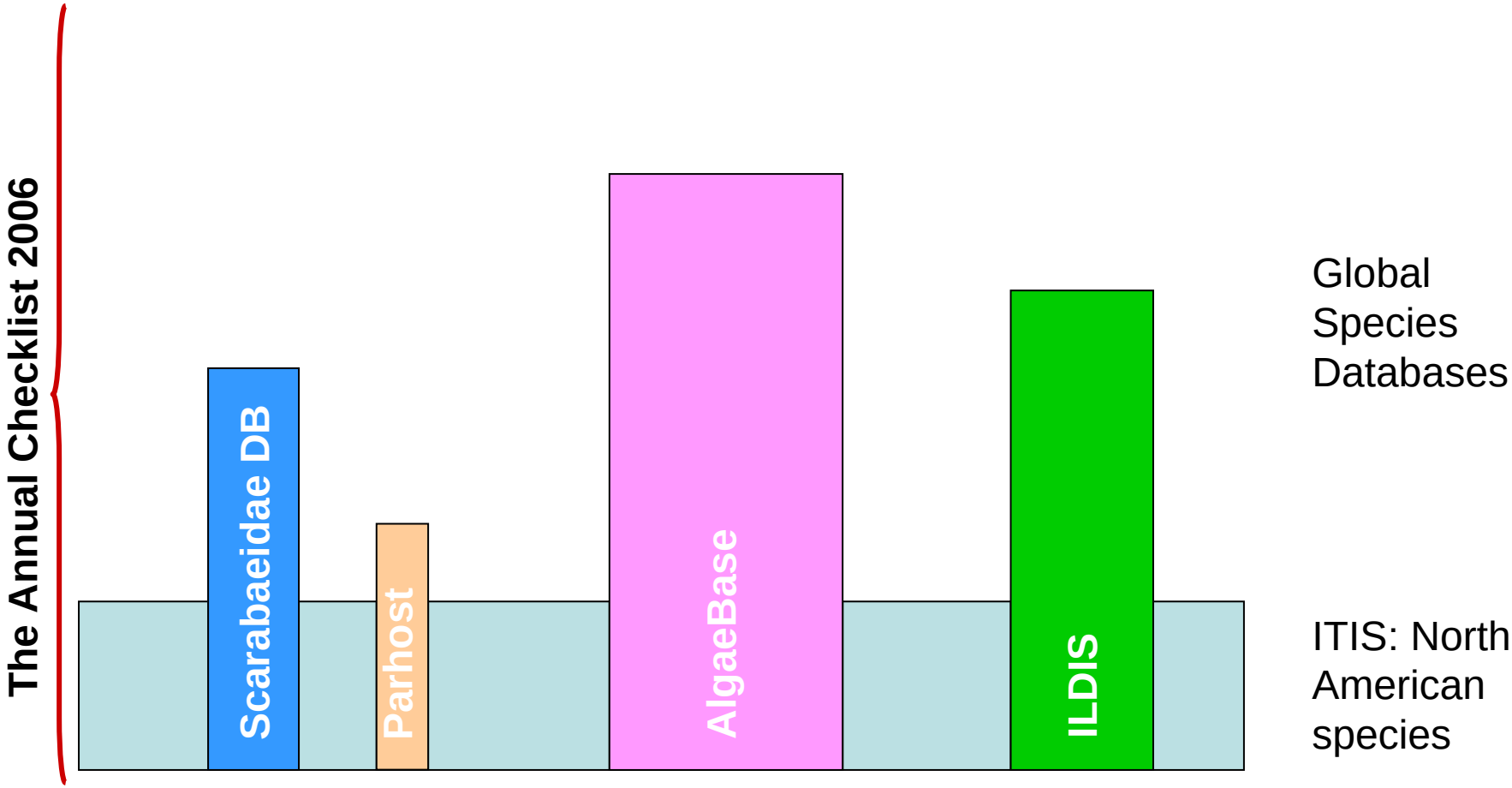
(present procedure)



Species 2000

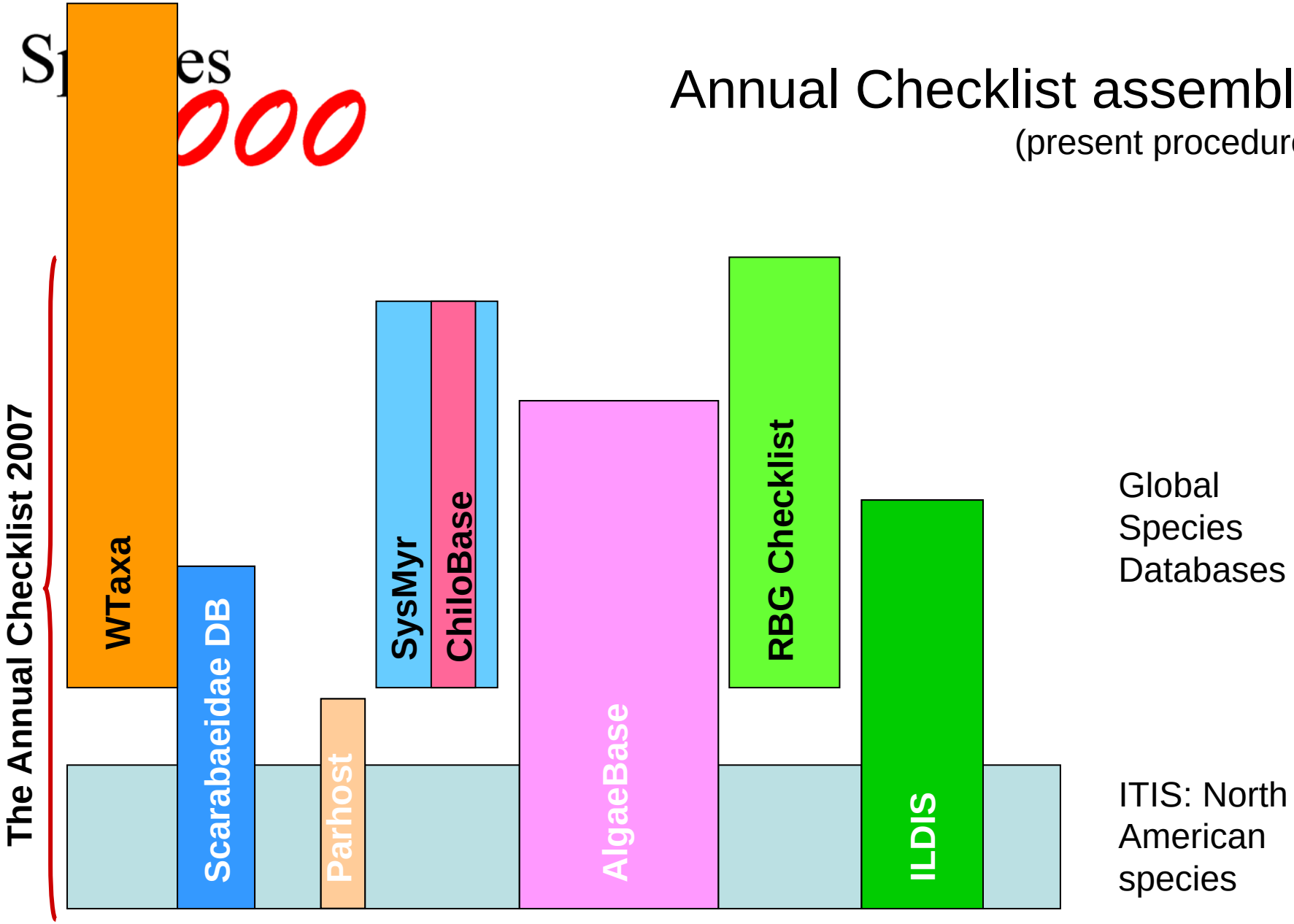
Annual Checklist assembly

(present procedure)



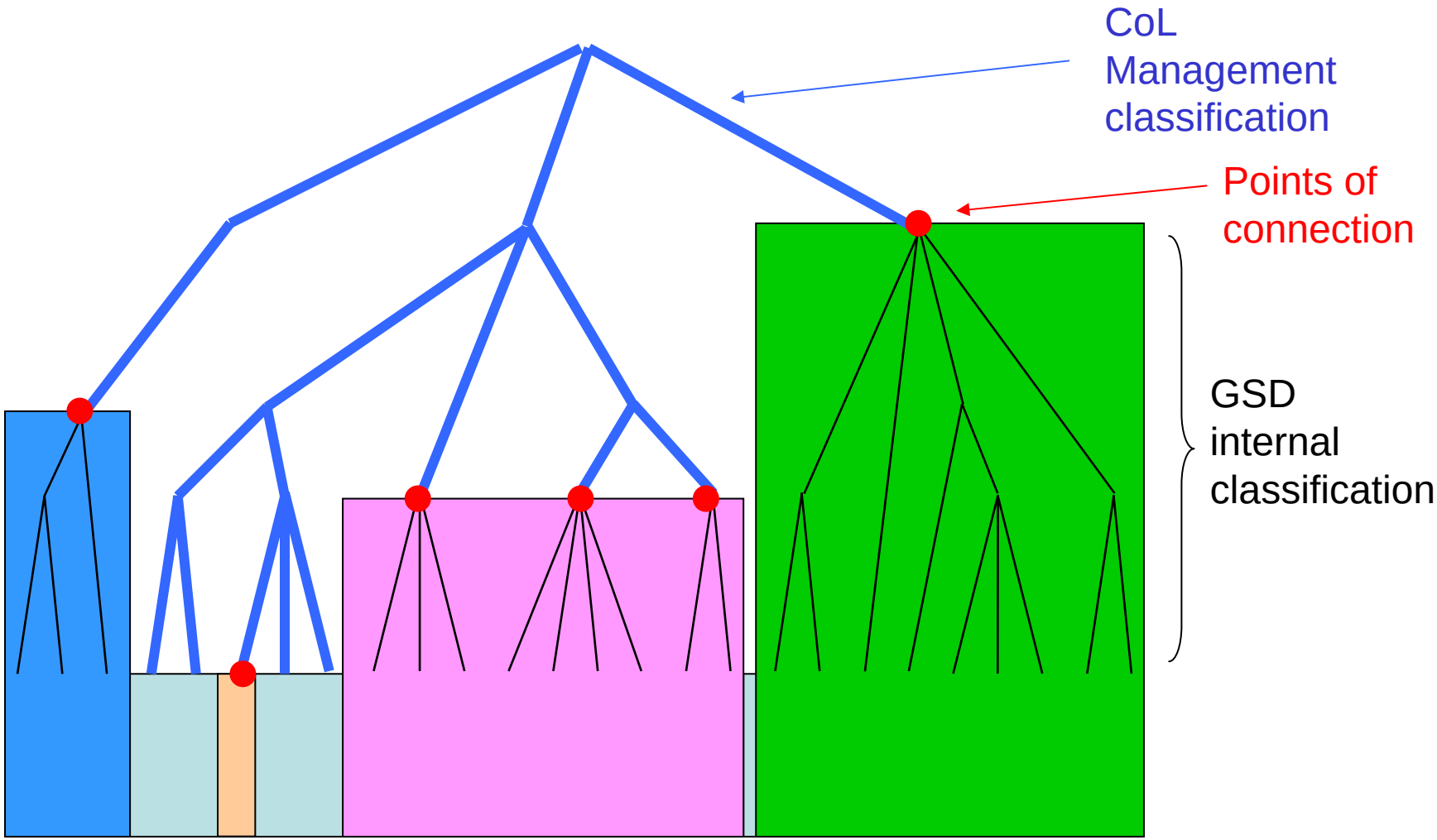
Annual Checklist assembly

(present procedure)



Species 2000

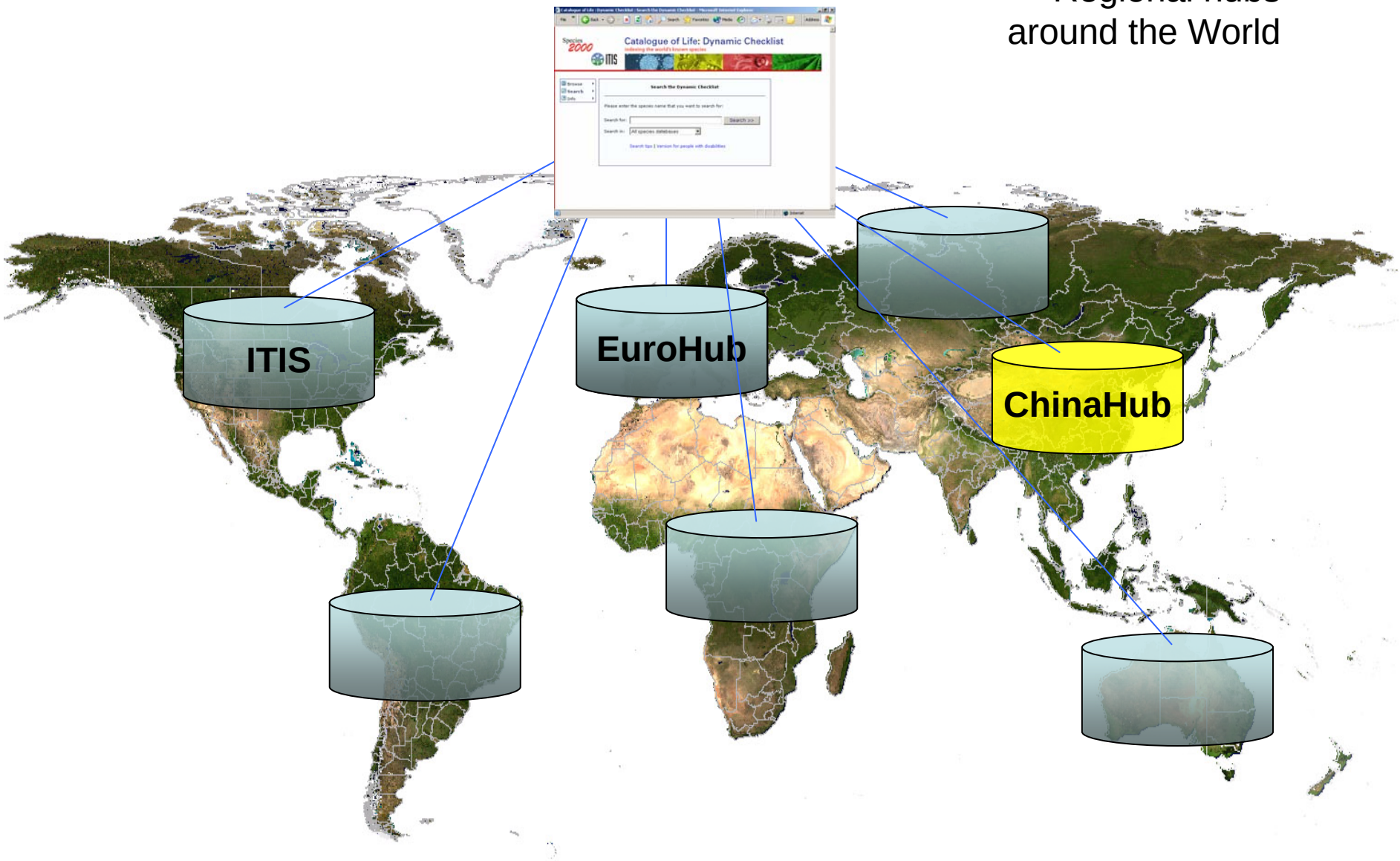
Catalogue of Life classification



Species 2000

Species 2000: Architecture # 2

Regional hubs
around the World



Species 2000

Thank you!

y.roskov@reading.ac.uk

School of Biological Sciences
Plant Sciences Building
The University of Reading
Reading RG6 6AS,
United Kingdom