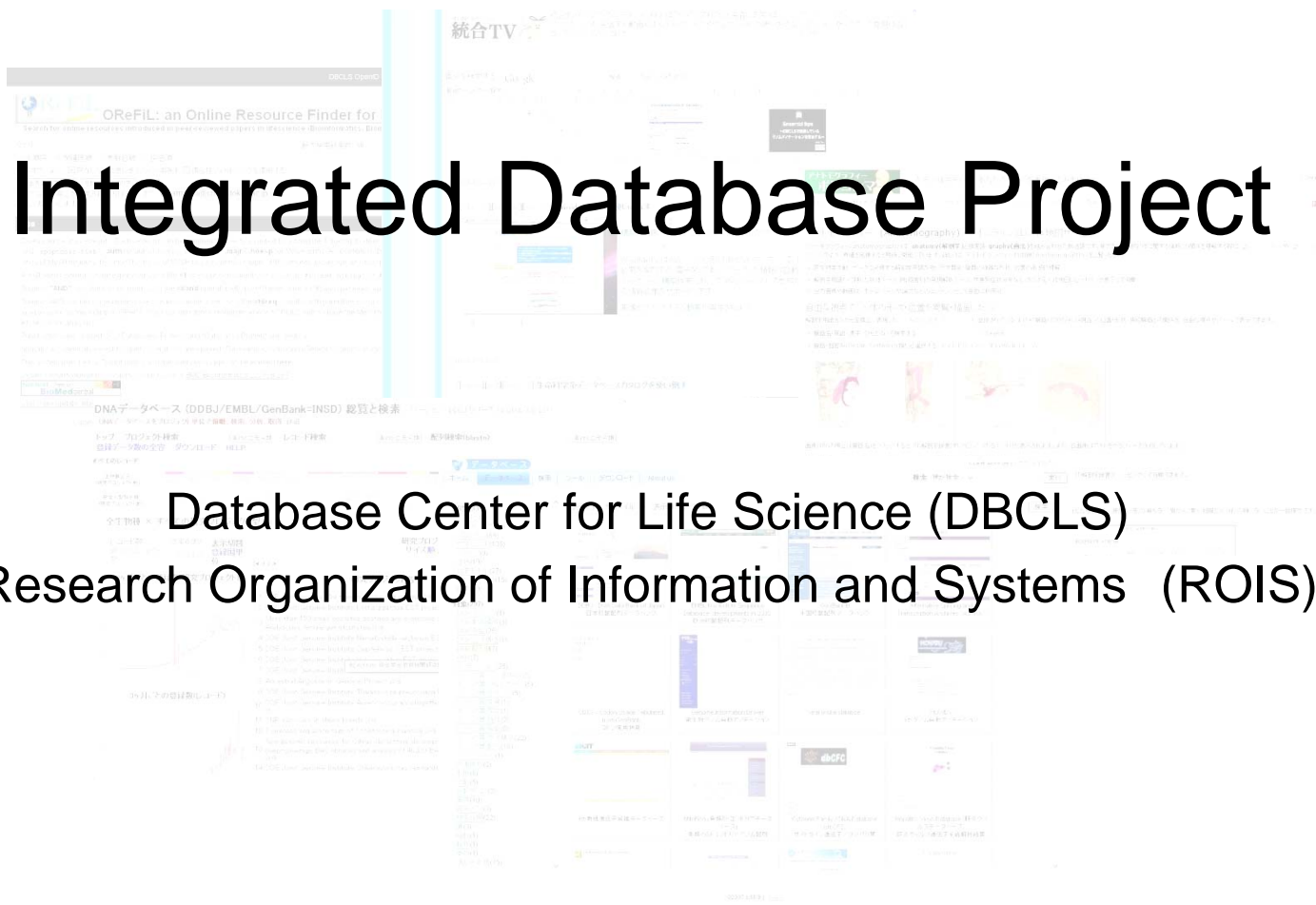


July, 2008



Integrated Database Project

Database Center for Life Science (DBCLS)

Research Organization of Information and Systems (ROIS)

What are the problems of Life Science Databases in Japan?

- Whereabouts and usage of each database are difficult to find out.
 - There are lots of similar DBs and it is not easy to find out which ones meet the needs.
- Reliable annotations for database entries are scarce.
 - Human resources to construct and maintain DBs are insufficient and underestimated.
- Products of national projects are not sufficiently open to the public.
 - Updating DBs is difficult after the project ends. (including DBs which are already publically available.)
- Separately developed databases are difficult to utilize.
 - Integration based on molecular data is difficult to utilize in medicine.
 - Some databases which are constructed in English are difficult to utilize and grasp the trends of the field.
- Japan does not have a national strategy for life science databases in spite of its indispensability.

What kind of commitments have MEXT made?

- Life Science Committee
 - A working group on the improvement of databases.
 - A report was released on May 17, 2006.
 - Analyzed problems and proposed solutions.
- Funds the Integrated Database Project
 - Preliminary project in 2006FY (240M¥).
 - Full project from 2007FY to 2010FY (4,900M¥ in total).
- Established Database Center for Life Science
 - DBCLS was established as part of ROIS (April, 2007).
 - Prof. Takagi was assigned as director of DBCLS.

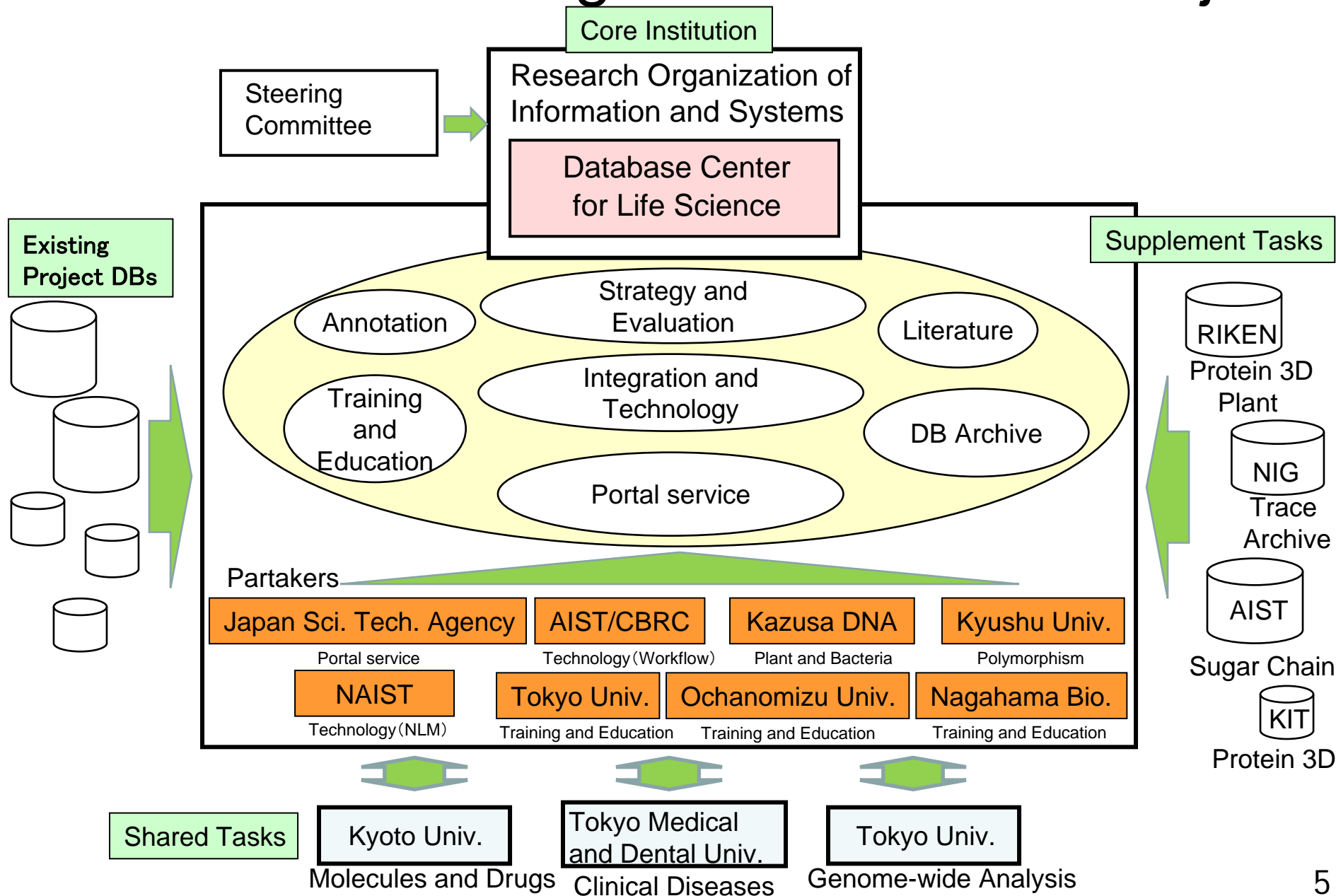
What are the missions of the project?

- Aims to be a national center.
 - Endeavors to integrate the databases distributed among the four ministries.
 - Has a function partly similar to the NLM and genome centers.
 - The steering committee will consist of various stakeholders.
- Provides service, but does not conduct research.
 - Contributes to promote Japanese life sciences.
 - Shares data among scientists and engineers.
 - Aims to be comprehensive, user-friendly and sustainable.
 - Will not undertake value-added research.

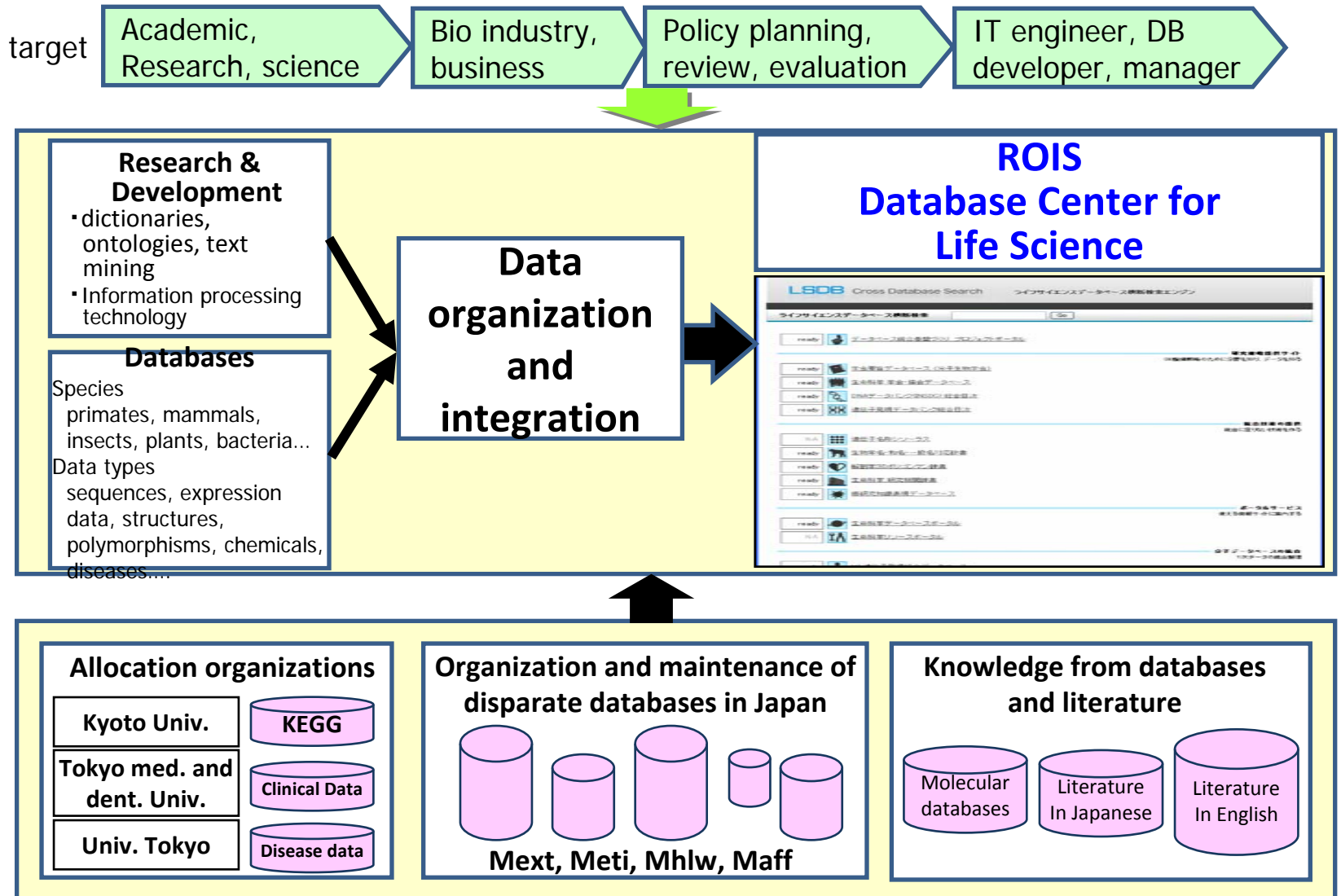
What is meant by “integration”?

- Address institutional and technical issues.
 - Including copyright and ethical issues.
- Take a multidisciplinary and comprehensive approach.
 - An optimal environment is different for each expertise.
- Integration is a means to an end.
 - Physical integration is not practical.
 - Each research phase has its optimal form of integration.
- Contribute to the efficiency and quality of research
 - Allow rapid access to necessary data.
 - Share data with the public so that data mining is possible.
 - Provide texts, diagrams, patents as well as experimental data.

Framework of Integrated Database Project



Overview of Integrated Database Project





ポータル

[生命科学系データベース カタログ](#)

[生命科学 学協会 カタログ](#)

[ゲノム・ポストゲノム主要プロジェクト一
覧](#)



DB検索

[生命科学データベース横断検索](#)

[DNAデータベース総覧と検索
\(DDBJ/EMBL/GenBank\)](#)



文献検索

[蛋白質核酸酵素 全文検索](#)

[文科省「ゲノム」研究報告書 全文検索](#)

[OReFiL \(オンラインリソースファイン
ダー\)](#)

[学会要旨統合検索](#)



統合ツール

[アナトモグラフィー \(解剖整理棚\)](#)

[Wired-Marker \(参照情報共有ツール\)](#)



リソース

[辞書](#)

[生物アイコン](#)



教材・人材育成

[統合TV \(DBやツールの動画教材\)](#)

[MotDB \(教育・人材育成のサイト\)](#)



統合DB事業

[国内データベースの統合 \(受入れ\) 事
業](#)

[DB受入れテンプレート](#)

[共通基盤技術開発](#)

[文科省 統合データベース整備事業サイ
ト](#)

[H18年度成果公開サイト](#)

[情報公開 \(委員会などの記録\)](#)



参画分担機関・補完課題の 成果

[かずさアノテーション \(かずさDNA研
究所\)](#)

[ゲノムネット医薬品データベース \(京大
/GenomeNet\)](#)

[統合医科学データベース \(東京医科歯科大
グループ\)](#)

[WingPro \(JSTのDBポータル\)](#)

[Webリソースポータルサイト \(JSTの
サイト\)](#)

LSDB ブログ

[+](#) [分子生物学会春期シンポジウ
ムでポスター発表をします](#)
2008-05-23 (Fri) 07:09:04

[+](#) [略字のAllie\(アリー\)](#)
2008-05-23 (Fri)
00:32:23

[+](#) [2008-05-22 \(Thu\)](#)
22:49:22

ニュース

[+](#) [大学発ベンチャーに資金と規
制の壁](#)

[+](#) [鳥インフルカモが運んだ？
思わぬ春の感染経路特定でき
ず](#)

[+](#) [高感度の質量分析装置試作機
を開発 今秋から実証実験](#)

バナーリンク

使い倒し系チャンネル

統合TV

OReFiL
Online Resource Finder for Lifesciences

統合ぐらし

アナトモグラフィー

Examples of DBCLS Services

(Most Services are provided only in Japanese at the moment.)

Life Science Database Catalogue

Retrieves more than 400 DBs, most of which have been developed in Japan.

Cross Search of Life Science Databases

Cross searches Life Science DBs and literatures including patents.

DNA Databank Summary Organized by Projects

Retrieves resources from the enormous DNA databank at high-speed. Data are downloadable on a project by basis.

Full-text search of Japanese Literature

Retrieves Japanese review articles, conference proceedings and so forth.

Togo TV

Provides movie tutorials on how to use certain DBs and tools. The movies are available via Podcast

Allie (Search Service about abbreviation/Long Form)

Retrieves abbreviations and their long forms which appear in the literature.

BodyParts3D/Anatomography

Links anatomical terms to their 3D coordinates. A 3D drawing tool is also available.

Wired-Marker

A Firefox plug-in which marks and records texts of browsed pages.