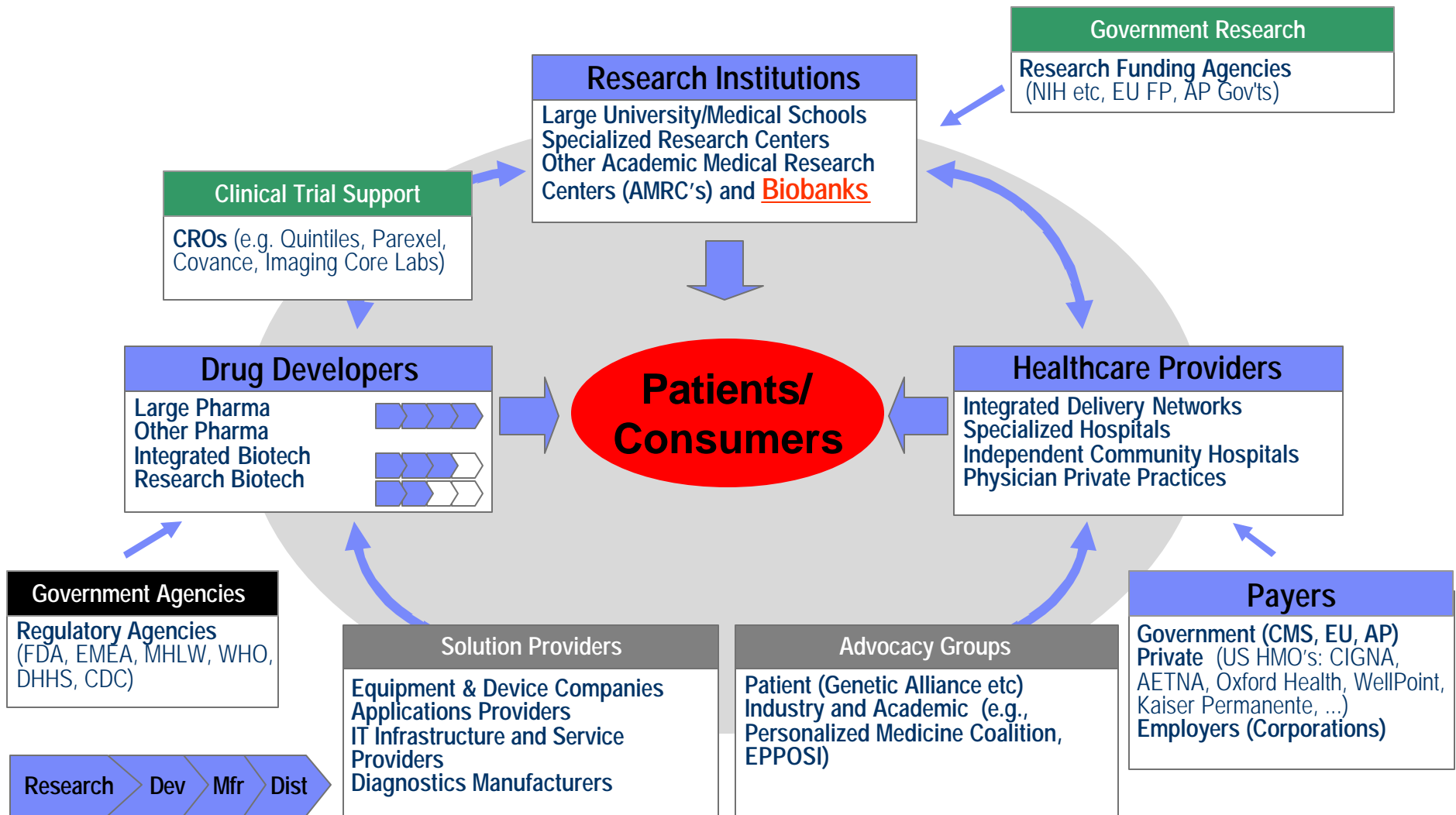
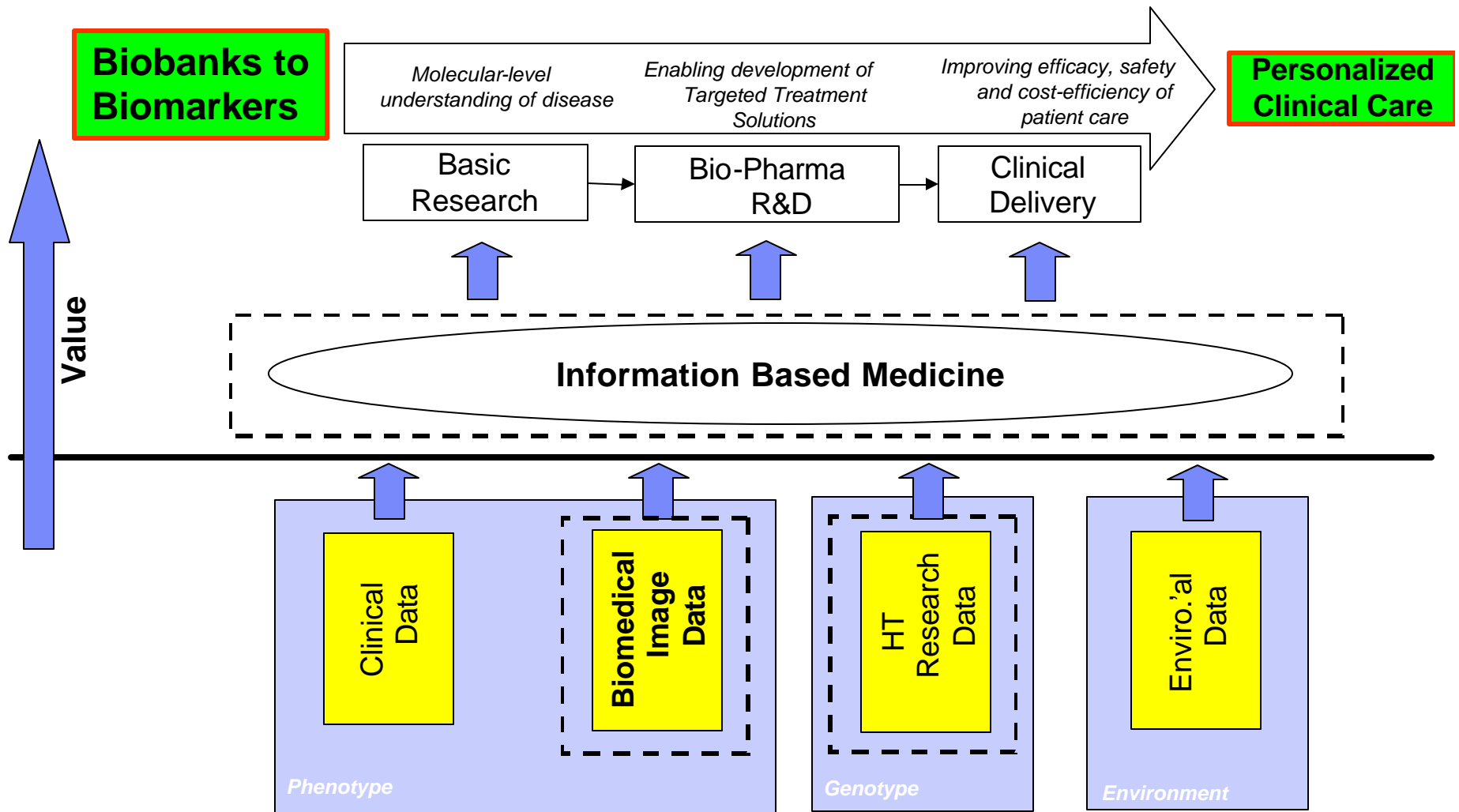


The Role of Biobanks should be viewed in the context of the Healthcare and Life Sciences Ecosystem with the Patient/Consumer in the Center



Clinical Patient Data must be integrated with Imaging, Genotypic, and Environmental Data to discover Biomarkers and to enable Biomarker based Pharma R&D and “Personalized Clinical Care”



Medical/Biological Research (Biobank) Projects are aimed at the Discovery of new Biomarkers



The Mayo Clinic: Transform the effectiveness and economics of health care, by focusing on new techniques to harness patient data to improve diagnoses; deep computing power to model diseases to find cures; and new devices to access information to transform how patients and physicians interact, leading to more personalized care. Latest Step: MCLSS



Karolinska Institutet: The KI Biobank is an asset for biomedical research within fields such as genetics, functional genomics, as well as genetic and molecular epidemiology. KI Biobank benefit combines significant tissue collections and large national databases with epidemiological information. The robust and scalable Biobank Information Management System (BIMS) can readily accommodate a growing number of new projects and diverse data sources.

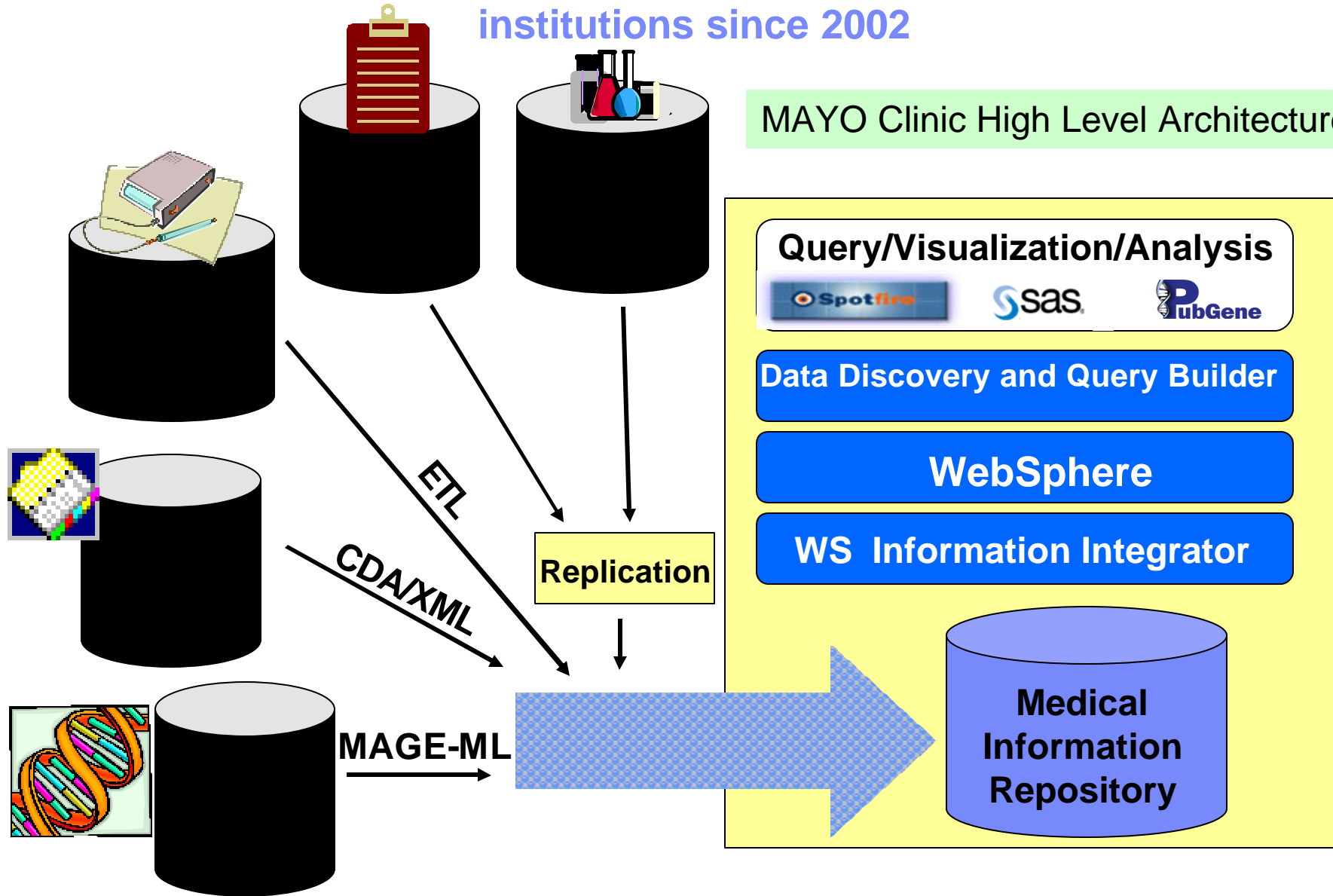


iCAPTURE/University of British Columbia: Determine the relationships between genomic, phenotypic, and environmental data in relation to heart, lung, and blood vessel disease. Focus on Imaging and Biomarker Discovery, including Tissue Rejection Biomarkers

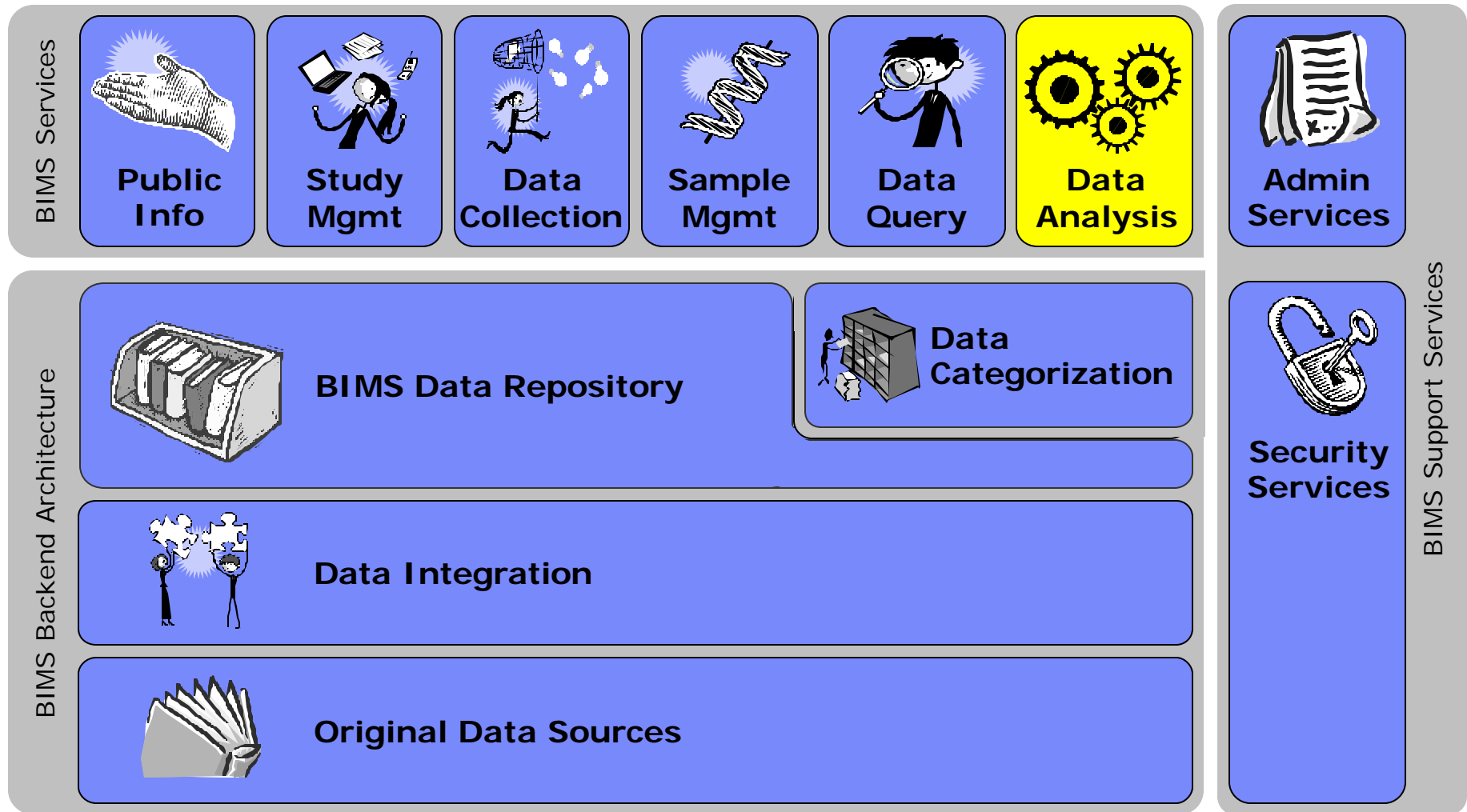
In addition: AMC (Amsterdam), Danubian Biobank (Regensburg), St. Justine (Montreal), NIH Lupus Project, **Taiwan Biobank ...**

In the Medical Research Space, IBM has been partnering with leading institutions since 2002

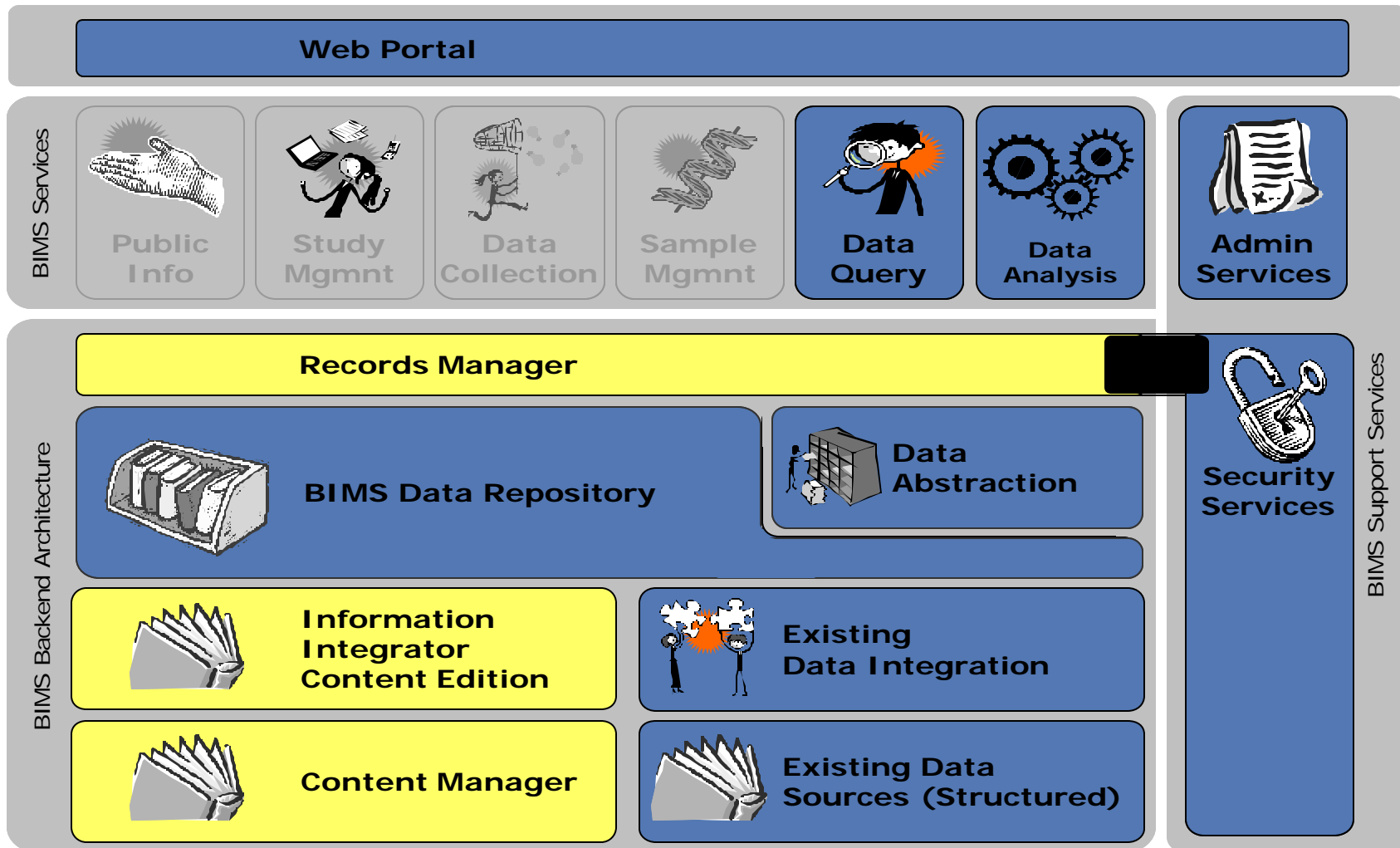
MAYO Clinic High Level Architecture



In Partnership with IBM, KI Biobank developed the BIMS Architecture



... recently enhanced to include Image Data Management (to address Stockholm Brain Institute IT requirements)



IBM Healthcare and Life Sciences Biobank Summits

IBM HEALTHCARE & LIFE SCIENCES IS PROUD TO SPONSOR



2004 WORLDWIDE BiobankSummit II

COLLABORATING FOR CURES

- Nice, France: March 2004
 - - **40 attendees**
 - - **30+ institutions**
- Tarrytown, NY: November 2004
 - - **100+ attendees**
 - - **90+ institutions**

2005 WW Biobank Summits III and IV: Strategies to Address Next Generation Challenges for Biobanking



24-26 May 2005

The Nobel Forum
Karolinska Institutet

Stockholm, Sweden

8-9 November 2005

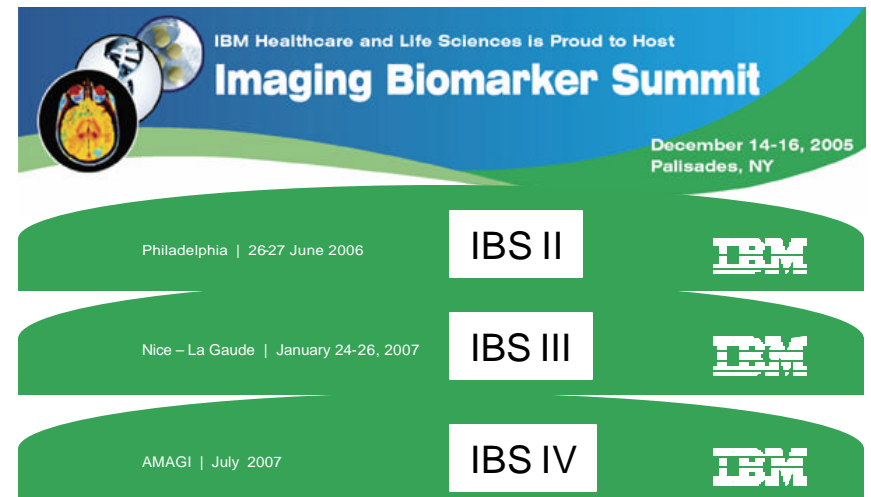
“Quest for a Cure”
Cooperation with NCI

Washington, DC


Web Resource: <http://www.biobankcentral.org/public/index.php>


By bringing together the various Stakeholders, IBM is hoping that the Imaging Biomarker Summits will accelerate the Transformation of Healthcare and Life Sciences


- The Imaging Biomarker Summits provide a Forum for the exchange of ideas and best practices related to Biomarker enabled Pharma R&D, with special emphasis on the impact of Imaging technologies. They are attended by representatives from Pharma, Biotech, Government & Academic Medical Research Centers, FDA, Medical Device Manufacturers and other IBM Partners.
- The Imaging Biomarker Summit feature presentations, facilitated Workshops, and Panel Discussions led by established academic and industry leaders
- Presentations at IBS I were given by
 - Peter Corr, Pfizer R&D
 - Carol Kovac, IBM HC & LS
 - Gerd Schmitz, Danubian Biobank
 - George Mills, FDA
 - Larry Schwartz, MSK Cancer Center
- Presentations at IBS II were given by
 - Andrew von Eschenbach, FDA
 - Pfizer, Genentech, Merck & FNIH
 - NCI, UCLA, JHU, Wash U, U MD
 - GE HC, Siemens, Philips
 - IBM, VirtualScopics, Kitware
- Discussions of Imaging Biomarkers in Oncology, Neurosciences, and Cardiovascular disease
- Workshops, Panel Discussions
 - Imaging Biomarker Research / Discovery
 - Imaging Biomarkers in Pharma R&D
 - IT Standards and Architectures
- IBS Events 2007: IBS III (Nice) Jan 24-26, IBS IV (Japan) July 14-16



IBM Healthcare and Life Sciences is Proud to Host
Imaging Biomarker Summit
December 14-16, 2005
Palisades, NY

Philadelphia | 26-27 June 2006
IBS II


Nice – La Gaude | January 24-26, 2007
IBS III


AMAGI | July 2007
IBS IV


Participating Organizations

Pfizer, Merck, Novartis, J&J, AZ, Amgen, Roche, BMS, B-I, GSK, Roche/Chugai, Genentech, Wyeth, Astellas, Takeda, Eisai, PhRMA, FDA, GE, Siemens, Philips, NCI, NIH, NIST, FNIH, KI, Yale, MSK, Scripps, UCLA, JHU, Wash U, U MD, U Texas, Danubian Biobank, iCapture, Taiwan NCTU, NIRS, Tokyo Univ ...