

National law of Bio-resources in Korea

2014.2.21

**Dept. ABS Research Support
Korea Research Institute of Bioscience and
Biotechnology(KRIBB)**

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1. Korea Research Institute of Bioscience & Biotechnology

Location of KRIBB

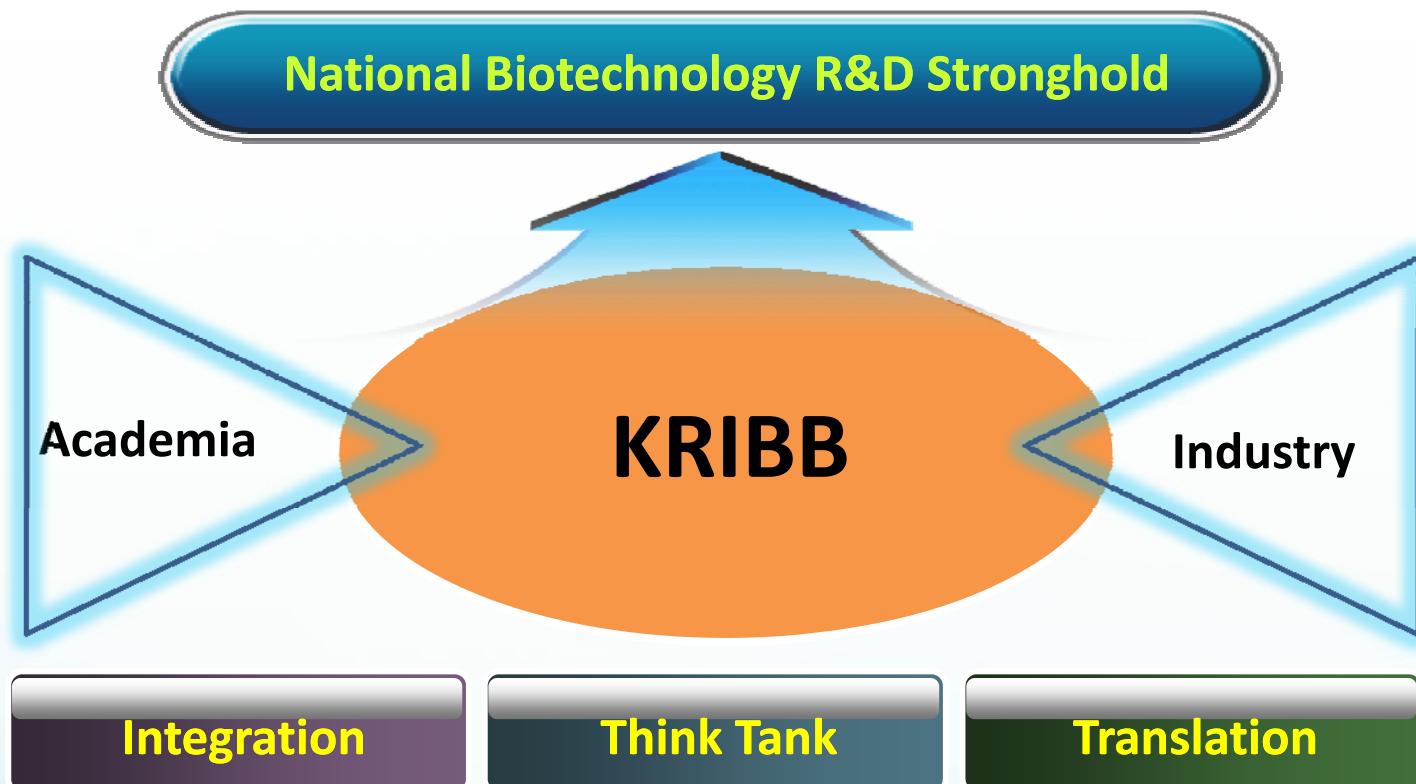
KRIBB is located at Daedeok Innopolis, Daejeon that Korean government has developed as a national science park from 1970s



Missions of KRIBB

►To carry out **R&D** activities and related to projects in the bioscience and biotechnology in joint effort with **other research institutes, academic and business**

►To disseminate the results of its scientific research and technological development



KRIBB at a Glance

History

- **1985. Feb : Founded as a Genetic Engineering Center**
- **1995. Mar : Changed its name to KRIBB**
- **2001. Jan : Became an independent legal entity**
- **2005. Sep : Established the Ochang Campus**
- **2006. Nov : Established the Jeonbuk Campus**

Personal

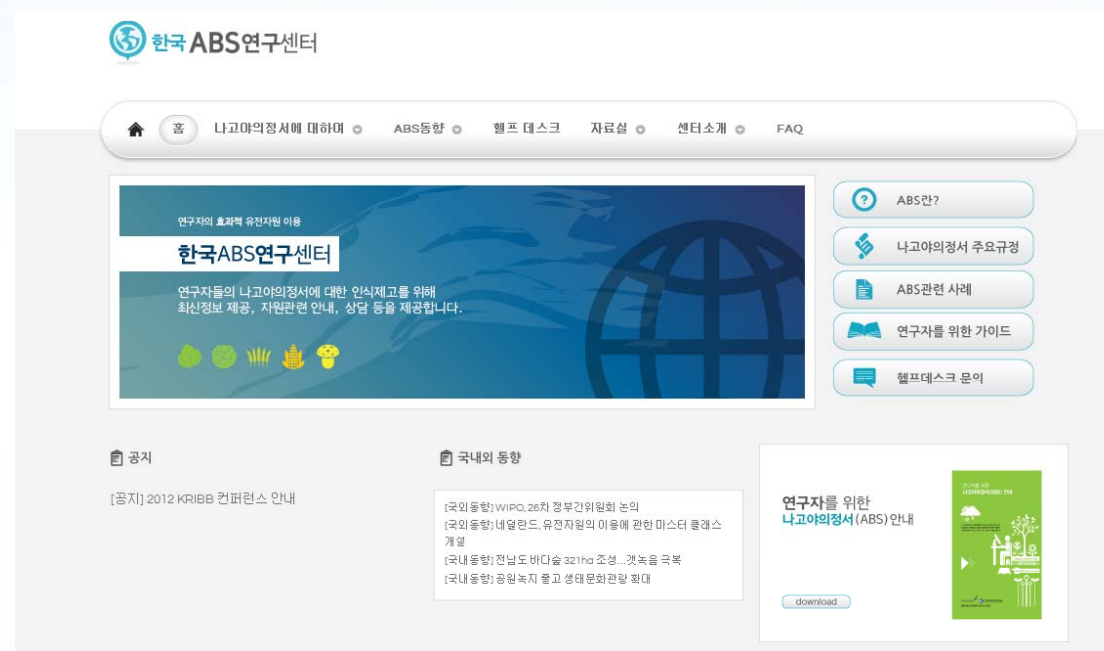
- **1,136 (as of June 2012)**
 - 330 full-time, 525 temporary and 281 students(M.S, Ph.D.)

Facility

- **HQ : 100,978 m²**
 - Human Gene Bank, Plant Extract Bank, KCTC(Biological RC)
- **Bio-Therapeutic RI(Ochang Campus) : 212,258 m²**
 - Nat'l Primate RC, Biomedical Mouse RC, Bio-Evaluation Center
- **Bio-Materials RI(Jeonbuk Campus) : 43,559 m²**
 - Applied Microbiology RC, Infection Control Material RC

Budget

- **\$126 Mil(2012)**
 - 47% from government directly, 48% from Project-based



- **Establishment:** 2013.3.1
- **Major missions**
 - Manage meetings for authorities and deposit organizations
 - Policy and strategy support of biological resources for Ministry of Science, Technology, ICT and Future Planning(MSIP)
 - Public awareness and capacity building of the Nagoya protocol



2. Korean laws for Bio resources

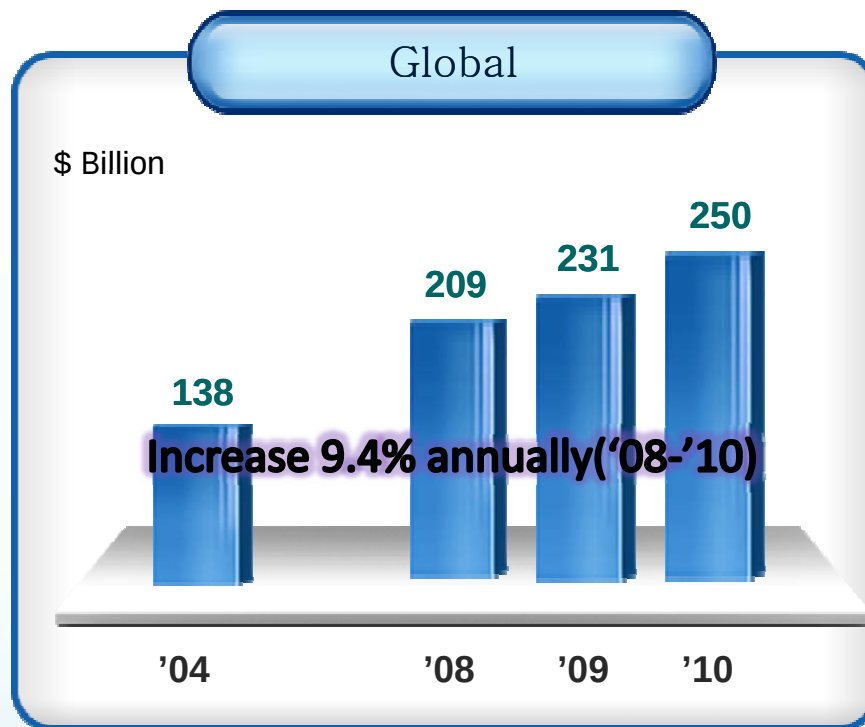
Bioeconomy era

The application of biotechnology to primary production, health and industry could result in an emerging “bioeconomy” where biotechnology contributes to a significant share of economic output.



Bio resources = the sources for national wealth

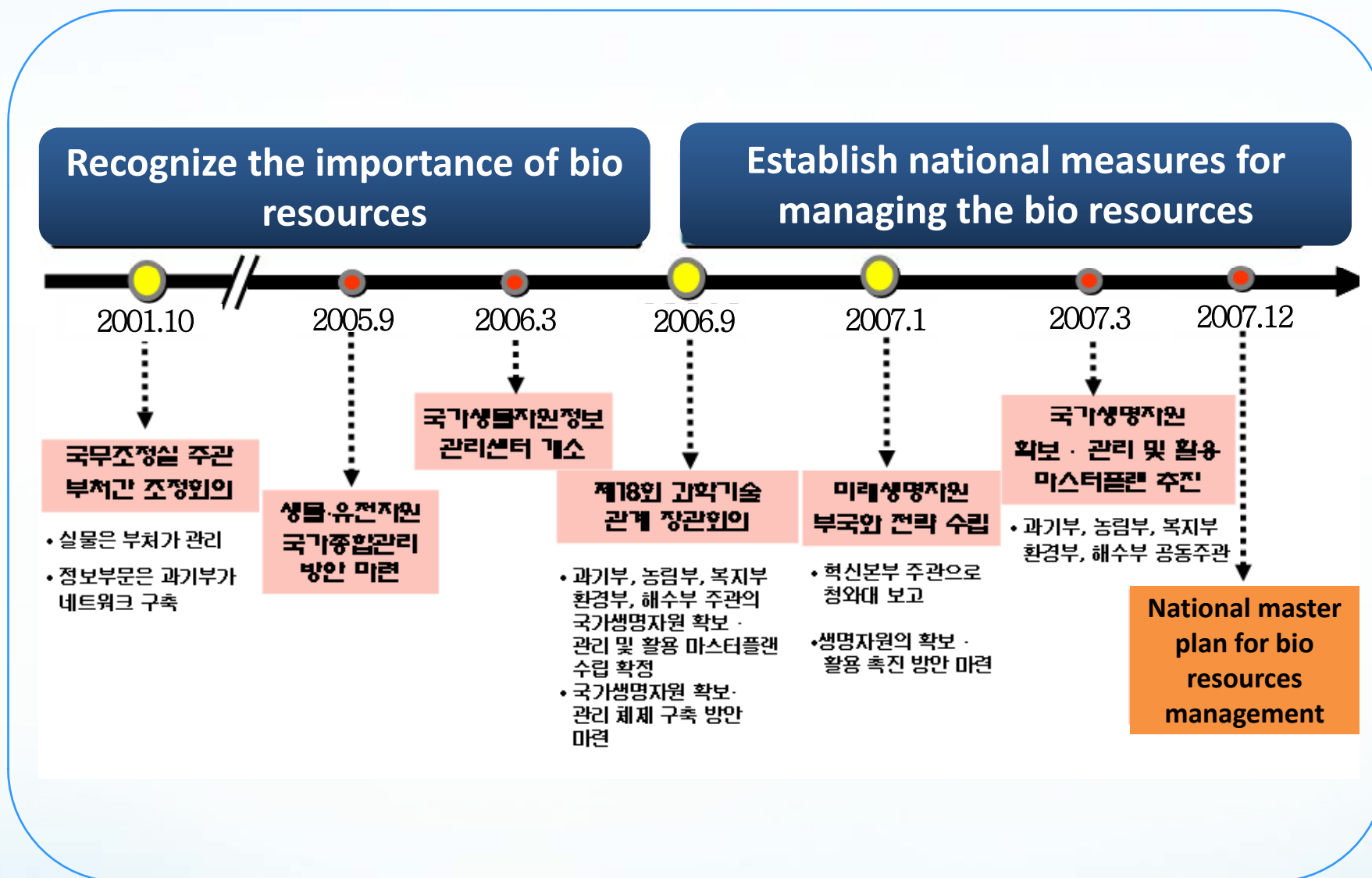
* an industry that makes use of biotechnology and other advanced life science methodologies in the creation or alteration of life forms or processes



Source: Datamonitor('11)



Source: Ministry of Trade, Industry & Energy ('13.4)



The goal of Master plan

Secure bio resources

- 국가 생명자원 발굴/모니터링
- 해외 생물자원 확보를 위한 국제협력 강화
- 연구성과물제도 활성화



Maintain & manage

- 장비/시설 인프라 확충
- 자원/정보 표준화 관리
- 자원/정보 관리 네트워크 구축



Utilization

- 생명자원 가치 고도화
- 생명자원의 선순환 체계 강화
- 생명자원 맞춤형 서비스로 활용 증대

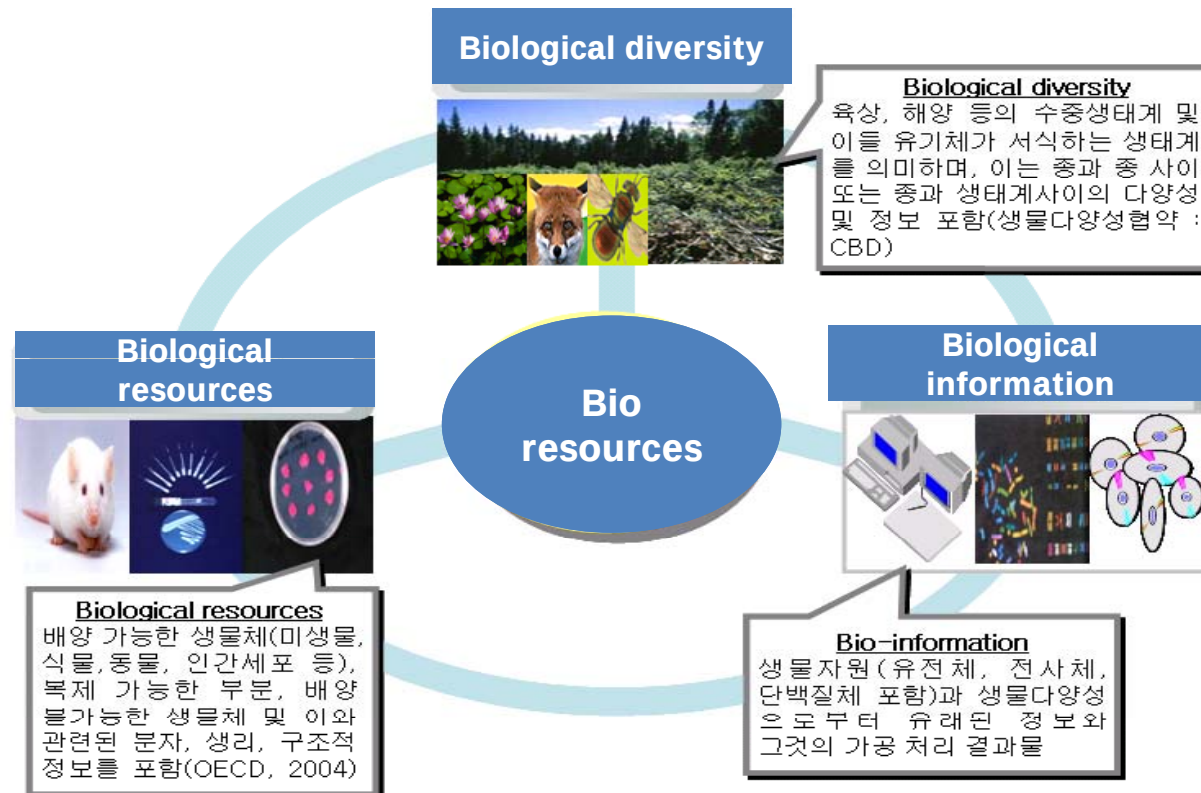


Advanced supporting system

- 국가 종합 관리 시스템 구축
- 생명자원 전문인력 양성
- 생명자원의 홍보 및 인식제고



- Biological organism including biological resources, biological diversity, biological information which is fundamental sources of biotechnology





Ministry of Science, ICT and
Future Planning

Act on bio research resources (2009.11)

- Master plan for management of bio research resources ('11~'20)
- Establish national biological information center(Korean Bioinformation Center)
- Establish management system for bio research resources



Ministry of Agriculture,
Food and Rural Affairs

Act on agriculture and fishery bio resources (2012.7)

- Master plan for agricultural genetic resources ('09~'18)
- Establish management system for agricultural bio-resources



해양수산부
MINISTRY OF OCEANS AND FISHERIES

Act on marine bio-resources (2012.7)

- Master plan for marine bio-resources('14~)
- Establish management for marine bio-resources

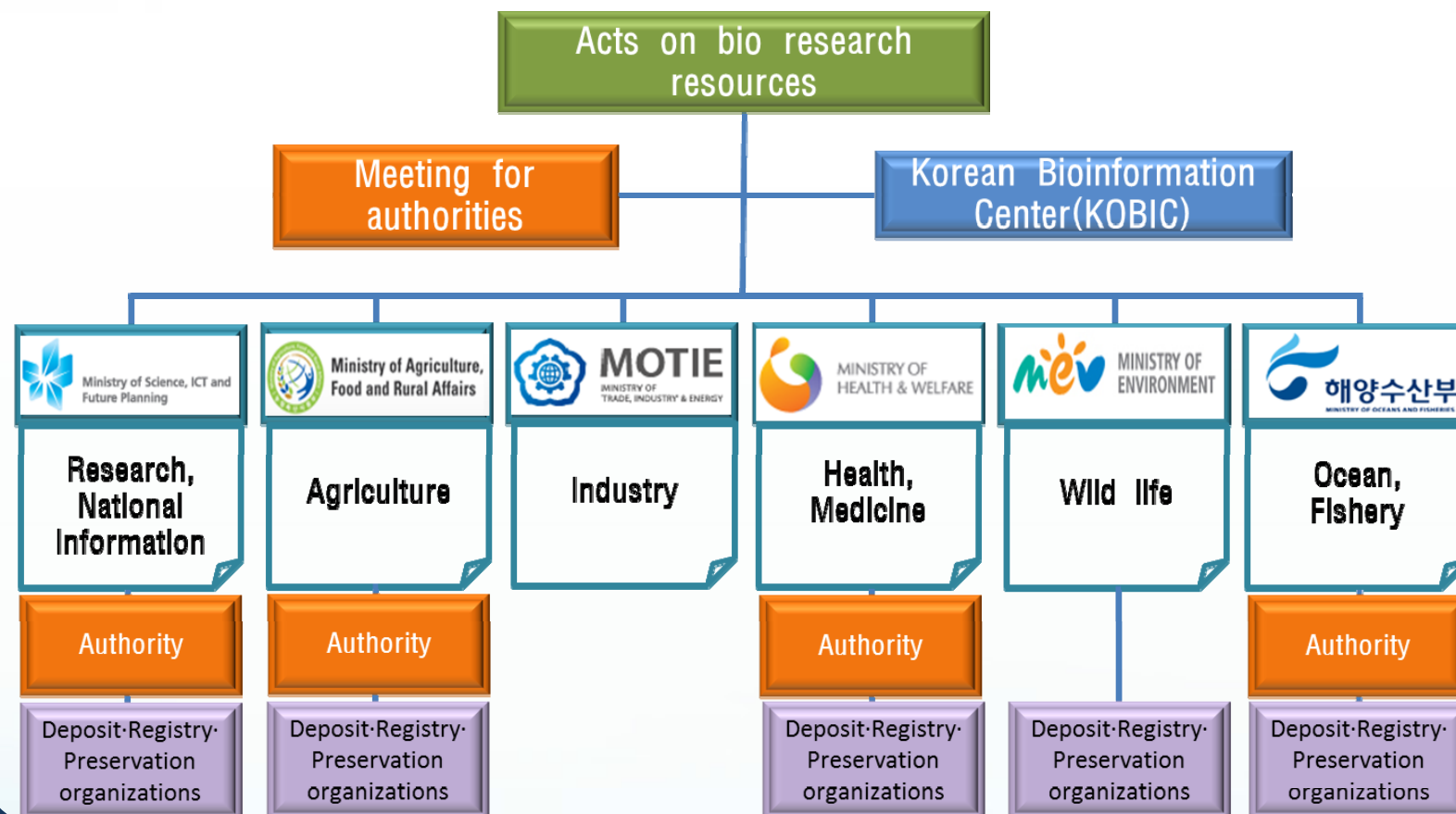


MINISTRY OF
ENVIRONMENT

Act on biodiversity (2013.2)

- National Strategy for biodiversity('14~)
- Establish national biodiversity information system

Act on bio research resources(2009.11)



Web services



Education



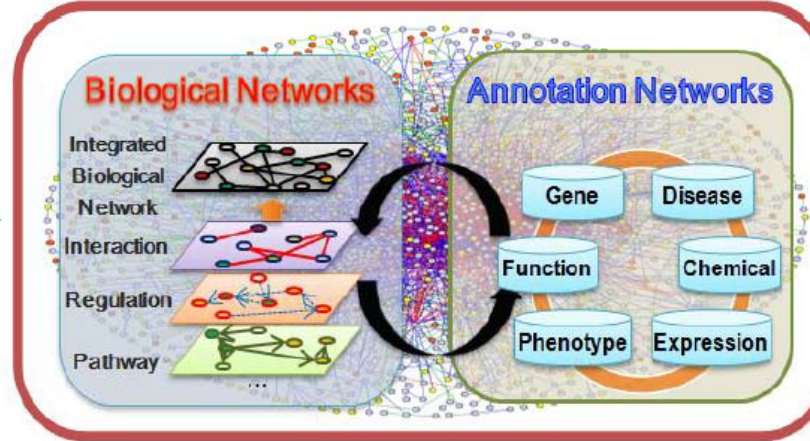
Statistics report



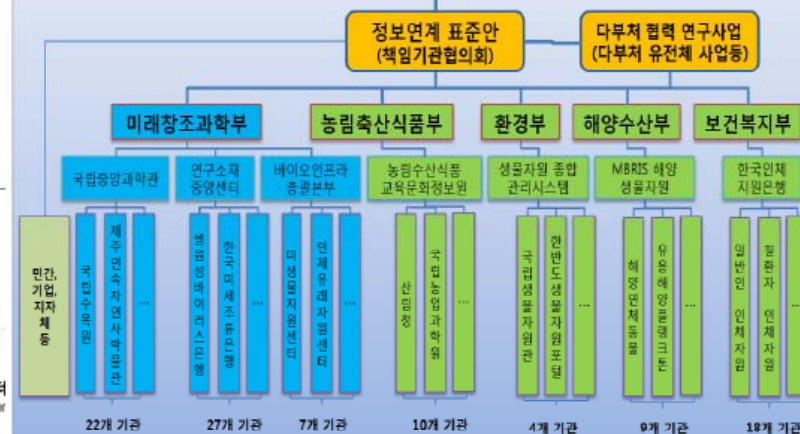
Planning bioresource law execution



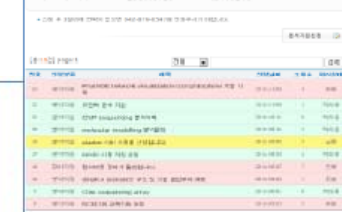
R&D : Bioresources and Analysis systems



Korean Bio-resource Information System, KOBIS



Support/collaboration



Networks(domestic/international)



Collecting international
bio-resource information



Service to NTIS link



[Link to NTIS](#)



전체

검색

로그인 회원가입 정부 kobic

고급검색

색인검색

분류체계검색

검색도움말

소개

자료목록

데이터등록

데이터분석

통계

자료실

전체메뉴보기

구분

동물

관찰

관찰

기관

종자

체액

핵산서열정보

구조정보

표본

조직

세포주

DNA/RNA/Protein 유래물

발현정보

기타

개체

배아

균주

추출물

단백질서열정보

Total

4,443종/288,820건

0종/0건

3,872종/142,615건

2종/8,074건

12,845종/870,568건

83종/441건

15,742종/1,499,986건

125종/67,124건

270종/10,824건

873종/611,698건

30종/252,989건

4,496종/465,112건

685종/9,679건

12종/243건

5,939종/39,638건

9,477종/18,944건

6,760종/890,789건

39,068종/5,177,544건

주요뉴스

간암 원인 유전자 HDAC2 조절 기전 규...

맛있는 냄새를 맡으면 먹고 싶은 생각이...

질병을 일으키는 돌연변이 찾는 방법, C...

세균들이 면역반응을 회피하는데 관여하는 Pr...

PCSK9 이외에 sortilin도 억제하면 저밀도 콜...

공지사항

데이터 분석도구 - KOBIC Bioinformatic...

데이터 분석도구 - Phred

뉴스레터 7호 발간

KOBIC-BRIC 협력을 통한 시너지 창출...

뉴스레터 6호 발간

연계정보

전체

미생물

식물

동물

인체유래물

책임기관협의회

시행계획

통계자료집

주제별 생물종

말종위기야생동식물 1급



여울마자

Microphysogobio rapidus



납방동시리

Odontobutis obscura



저어새

Platalea minor

분석도구

생명연구자원 관련 데이터 분석 도구를 제공합니다.

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■ Large-scale categories

	microbes	plants	animals	Human extracts	Etc.	unclassified	total
species		6,669	16,988	6,851	1	4,413	-
samples		87,415	1,780,271	1,132,046	62,582	54,480	209,309

■ Mid.-scale categories

	Obs.	samples	objects	tissues	embryo	seeds	Cell lines	strains	serums	D/R/P extracts	Extra.	etc
species	4,443	15,770	177	122	13	3,870	265	5,745	2	78	9,107	4,506
samples	288,820	1,499,612	9,222	62,978	244	139,508	1,063	37,209	3,144	591,823	17,403	465,768

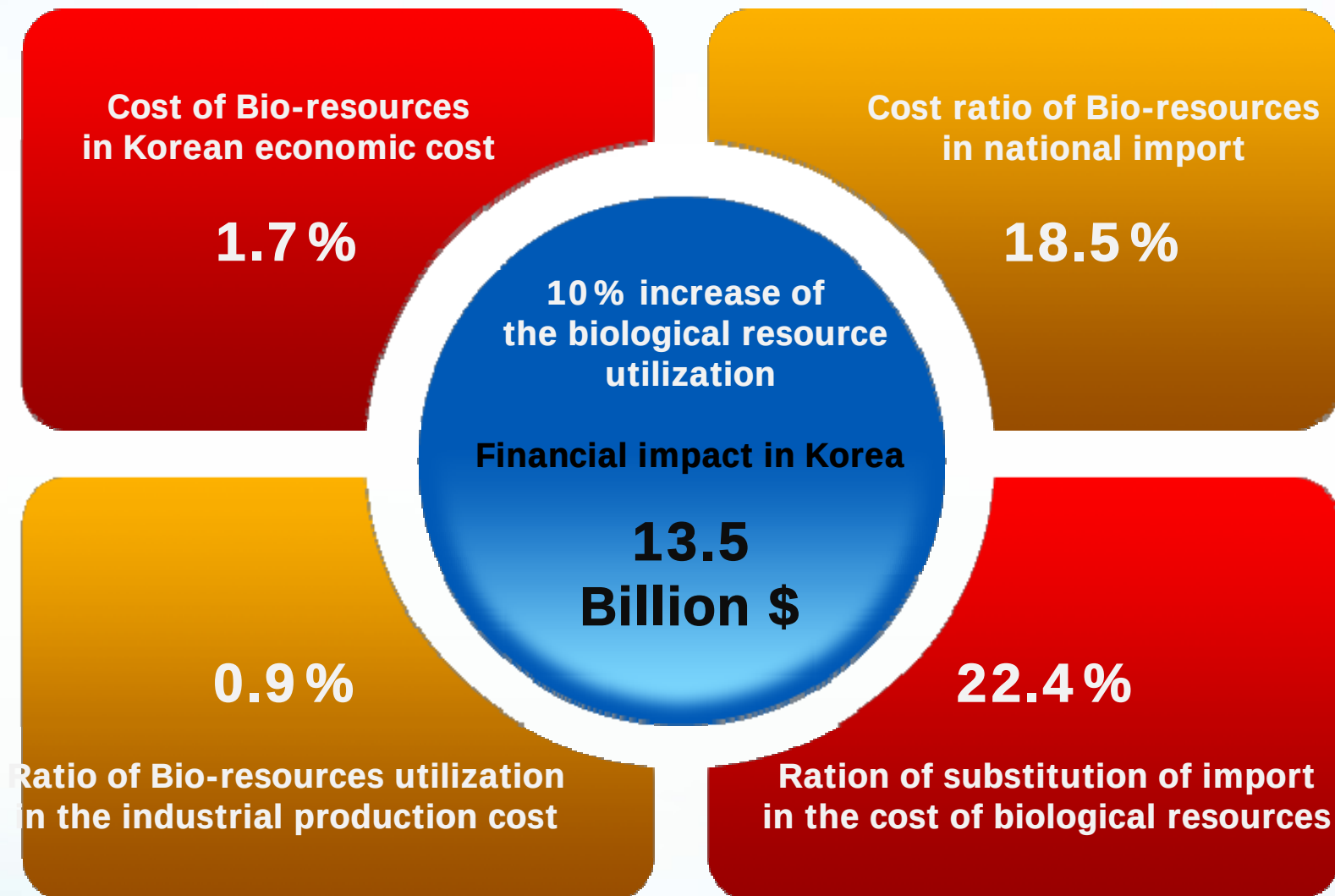
■ Year summary

	2010		2011		2012		2013	
	Spec.	Samp.	Spec.	Samp.	Spec.	Samp.	Spec.	Samp.
plants	3,429	206,353	3,809	587,210	335	15,490	15,300	971,218
animals	4,165	532,783	3,015	79,174	247	281,535	3,631	238,554
Hum. Ext.	1	4,351	1	574	1	749	1	56,908
Etc.	258	29,652	3,717	13,812	481	11,016	0	0
total		31,988	-	127,662	-	3,861	-	45,798

3. Nagoya protocol in Korea



Financial impact of the NP



National measures after the adoption of NP

- **Signature:** 2011.9.20
- Cooperative action plan among relevant government authorities(2011.11.8)
 - Survey and discovery of genetic resources in Korea
 - Survey and discovery of traditional knowledge in Korea
 - Survey of current stat in export of biological resources originated in Korea(~2020)
 - Establishment of total management system on the national biological resources
 - Revision of national legislation system
 - Cooperation among relevant government authorities

Act on the conservation and use of biodiversity

- Enacted newly after the adoption of the Nagoya protocol
- **Introduce ABS measures**
- Framework for action plan
- Provisions included: establishment of national biodiversity strategy, list of biological species, notification and authorization on acquisition and export of biological resources, facilitation of benefit sharing and protection of traditional knowledge

Act on bio research resources

- **Introduce ABS measures through revision of exiting law**
- Regulation of management, consent on access, export authorization on bio resources
- Provisions included: Designate ABS related organizations, notification and authorization on acquisition and export of bio research resources, declaratory articles of ABS

ABS Helpdesk for scientist



홈 나고야의정서에 대하여 ABS동향 헬프 데스크 자료실 센터소개 FAQ

연구자의 효과적 유전자원 이용

한국ABS연구센터

연구자들의 나고야의정서에 대한 인식제고를 위해
최신정보 제공, 자원관련 안내, 상담 등을 제공합니다.



ABS란?



나고야의정서 주요규정



ABS관련 사례



연구자를 위한 가이드



헬프데스크 문의

공지

[공지] 2012 KRIBB 컨퍼런스 안내

국내외 동향

[국외동향] WIPO, 26차 정부간위원회 논의
[국외동향] 네덜란드, 유전자원의 이용에 관한 마스터 클래스
개설
[국내동향] 전남도 바다숲 321ha 조성...갯녹음 극복
[국내동향] 공원녹지 줄고 생태문화관광 확대

연구자를 위한
나고야의정서 (ABS) 안내

download



ABS Helpdesk for industry

POPUP ZONE

01 / 02

ABS 산업지원센터 개편 안내

사이트가 새롭게 개편됨을
알려드립니다.

[자세히보기 >](#)



바이오산업과
나고야의정서

기업이 알아야 할
ABS 가이드

유전자원의
이용이란?

ABS분쟁사례

INDUSTRY & ABS

산업지원 ABS정보 원스탑 서비스

유전자원의 효율적 이용,
바이오산업의 발전을 견인합니다.



[자주묻는질문 >](#)

[뉴스레터 보기/신청 >](#)

[온라인 설문조사 >](#)

ABS 헬프데스크

유전자원의 접근과 이익공유에
관련된 의문 또는 건의 사항을
올리시는 공간입니다.

GO



ABS 정보DB

세계 각국의 ABS정책, 동향과
다양한 정보를 보실 수 있습니다

GO



ABS산업지원센터 간행물

바이오산업과 나고야 의정서
발행일 : 2011년 11월



해외동향



- [WIPO] 26차 정부간위원회 논의 [02.11]
- [네덜란드] 유전자원의 이용에 관한 .. [02.10]
- [EU] 환경 보전 정책 국제 컨퍼런스 개최 [02.10]
- [영국] 나고야의정서와 식물공학 [02.03]
- [베트남] 자연자원-환경부, 양자 및.. [01.27]

국내동향



- 2014년 화장품 핵심 키워드는 '상.. [02.04]
- 신약조합, '유전자원 접근 및 이익 .. [02.03]
- 유전자원법 입법 예고 28일 종료... [01.29]
- [기타 (산업동향)] 나고야의정서, .. [01.30]
- [기타(산업동향)] 약용작물을 살리자.. [01.30]

공지사항



- [업데이트] 기업이 알아야 할 ABS.. [12.17]
- [신청 안내] ABS 뉴스레터 [05.22]
- 전기 설비 교체로 인한 시스템 일시정.. [03.12]
- 2012 ABS 기업세미나 요약 정리 [12.26]
- ABS산업지원센터 개편으로 인한 일부.. [01.25]

Thank you

ขอบคุณ คุณก็เช่นกัน



한국생명공학연구원
Korea Research Institute of Bioscience and Biotechnology

