Laboratório Virtual da Embrapa na Ásia
Labex Coreia

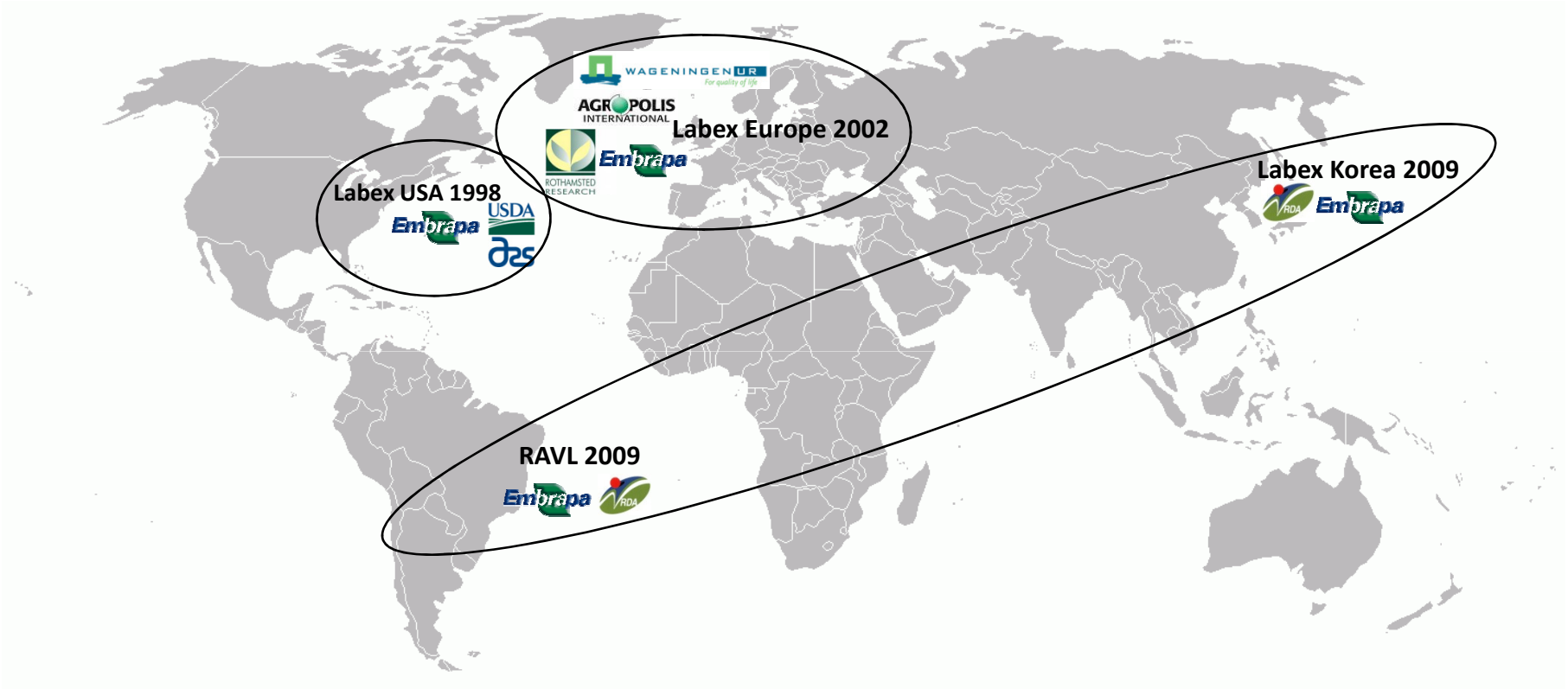
Maurício Antônio Lopes
Coordenador – Embrapa Labex Coreia
Rural Development Administration – RDA
Suwon - Republic of Korea

Labex Coreia

Assinatura do acordo Brasil-Coreia (11.2008)

Inauguração do Labex Coreia (12.2009)

Labex Coreia



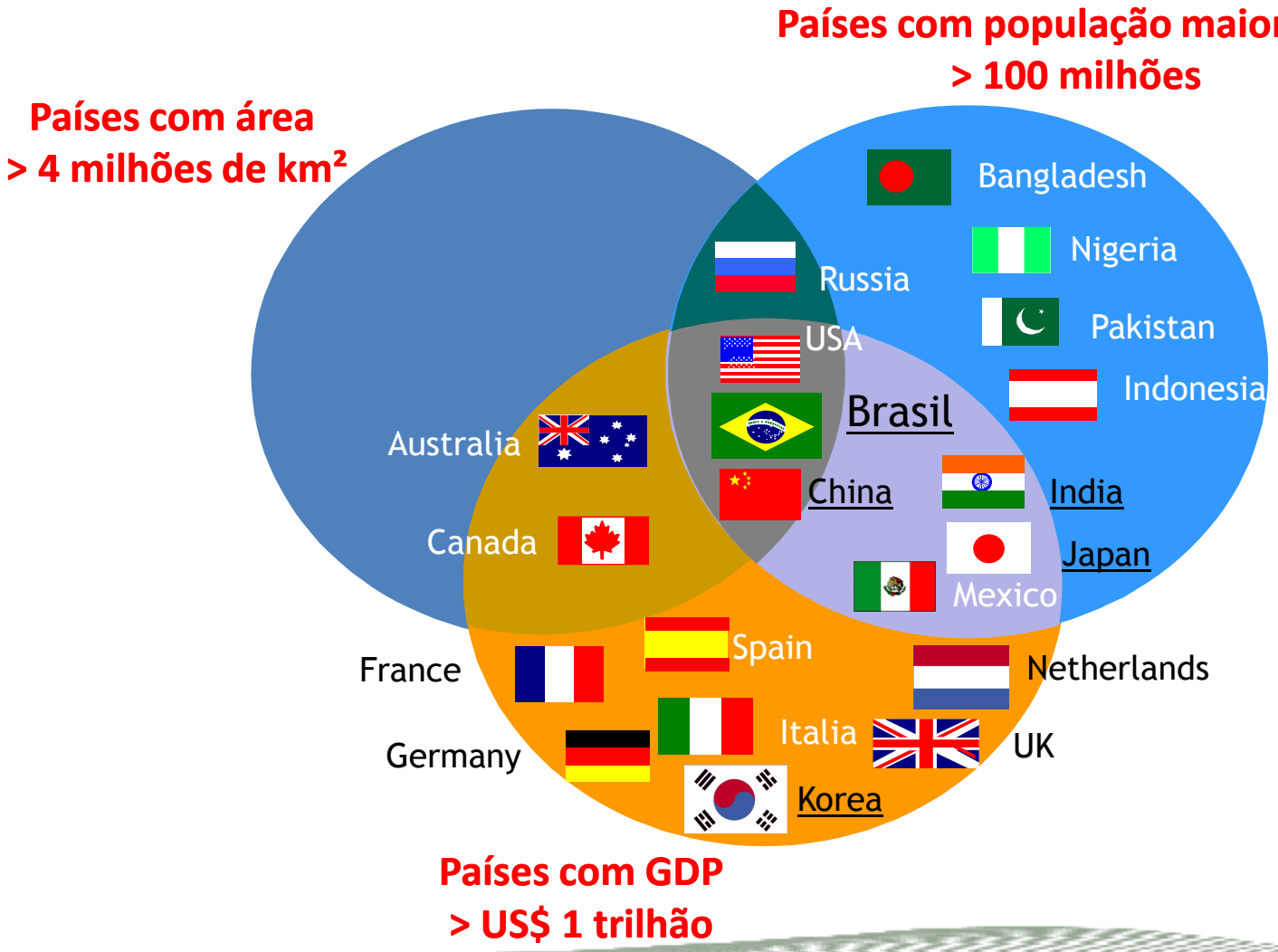
Rural Development Administration - RDA

Por que o Labex na Ásia?

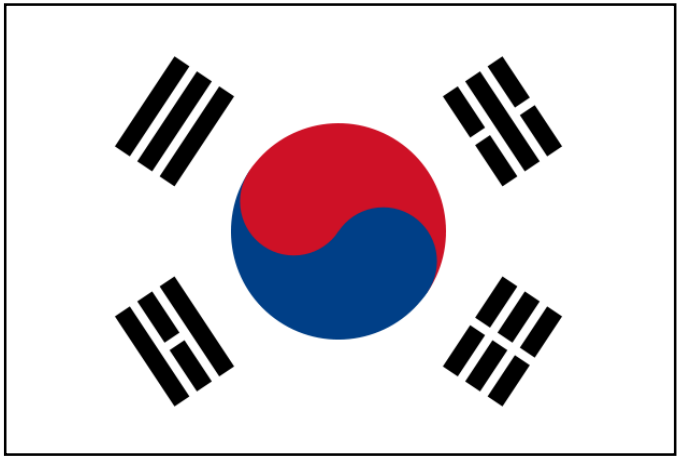
The Economist - Nov. 14-20, 2009

The Economist - Aug. 17, 2009

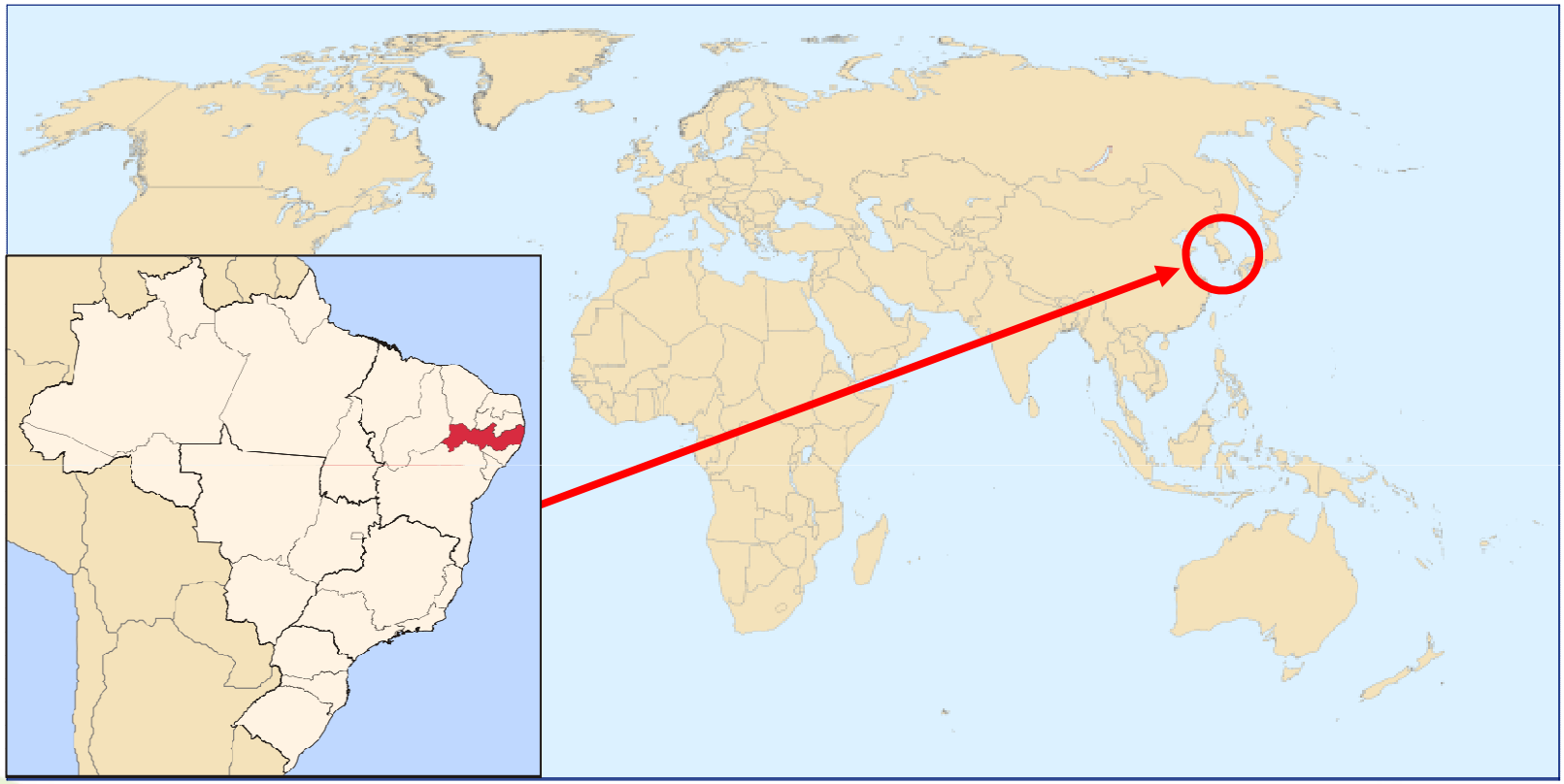
Por que o Labex na Ásia?



Por que o Labex na Coreia?



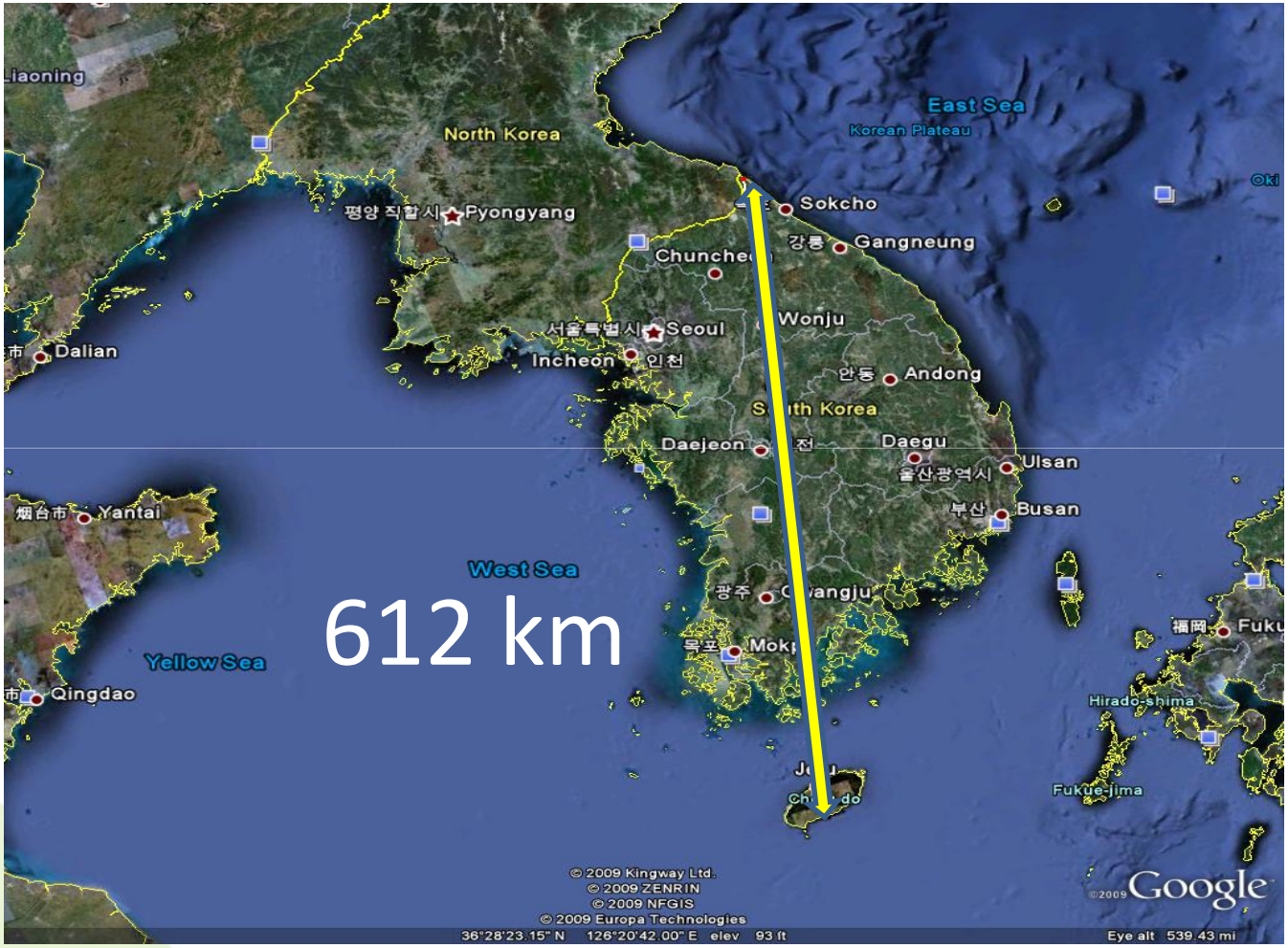
Por que o Labex na Coreia?



Distância: 21,000 km

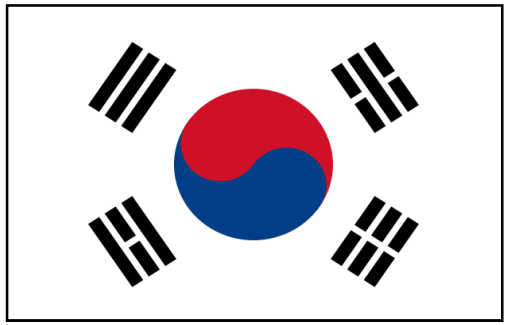
Brasil : 8,514,877 km² (5th)	Coreia : 99,646 km² (108th)
Pop : 194,227.984 (5th)	Pop : 49,024,737 (25th)

Por que o Labex na Coreia?



Por que o Labex na Coreia?

Nenhum país conseguiu reproduzir em espaço de tempo tão curto os avanços econômicos e sociais alcançados pela Coreia desde os anos 60;



A Coréia é referência em inovação tecnológica, interação público-privada e competitividade industrial;

A Coreia é a quarta economia da Ásia e número 11 no ranking dos maiores países exportadores;

A Coréia está se tornando líder mundial no desenvolvimento da “economia verde” ou “green growth”;

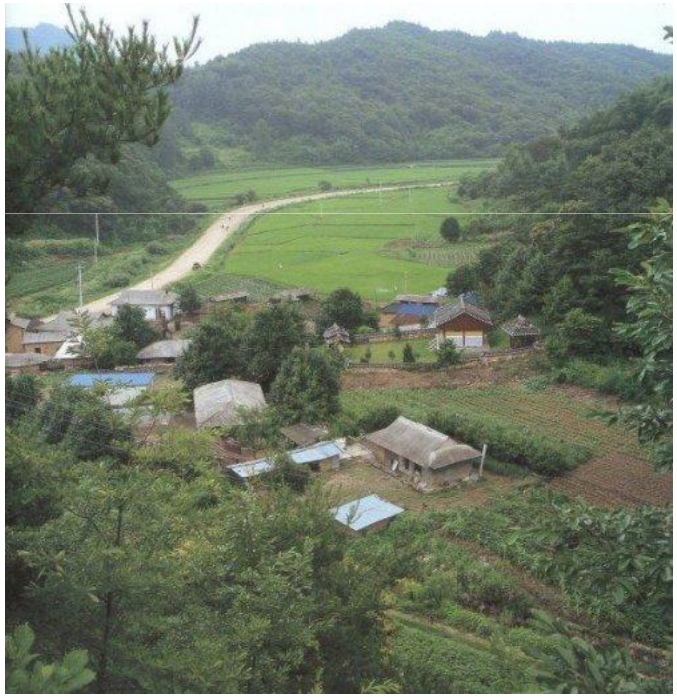
País importante parceiro comercial do Brasil;

País que realiza grande esforço de internacionalização.

Agricultura na Coreia

País montanhoso com apenas 17% de terras aráveis
Predominam pequenas propriedades (~ 3.7 acres)

- **Anos 60:** Grande parte da população abaixo da linha da pobreza.
- **Anos 70:** "Revolução verde" - autossuficiência na produção de arroz.
- **Anos 80:** "Revolução branca" - diversificação da dieta.
- **Século XXI:** "Economia verde" e "green growth".



Por que o Labex na Coreia?

Por que o Labex na Coreia?

Por que o Labex na Coreia?

Por que o Labex na Coreia?

Uma das melhores infraestruturas de inovação na Ásia

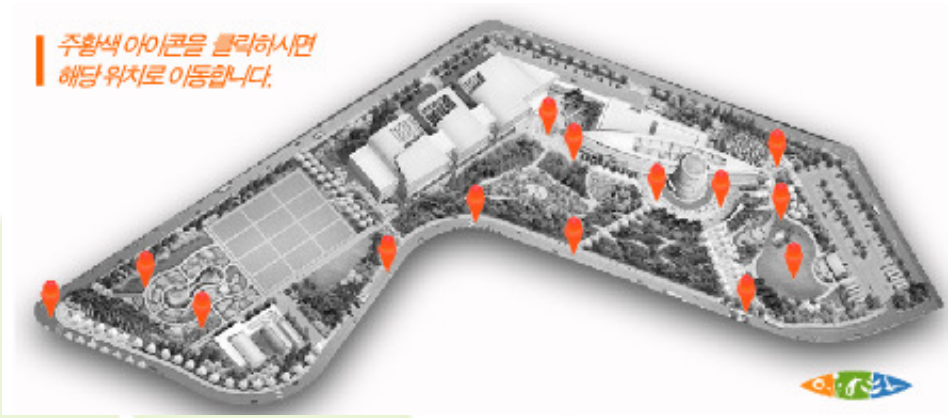
O “National Agrobiodiversity Center” da RDA , é uma estrutura de US$ 26 milhões com capacidade de conservação de cerca de 500,000 acessos de germoplasma.

O centro tem área construída de 11,082 m^2 incluindo 1,211 m^2 e estrutura robotizada para conservação de médio e longo prazos além de 8,296 m^2 de laboratórios e 1,575 m^2 de casas de vegetação.

http://www.genebank.go.kr/eng/about/vault.jsp

Por que o Labex na Coreia?

Uma das melhores infraestruturas de inovação na Ásia

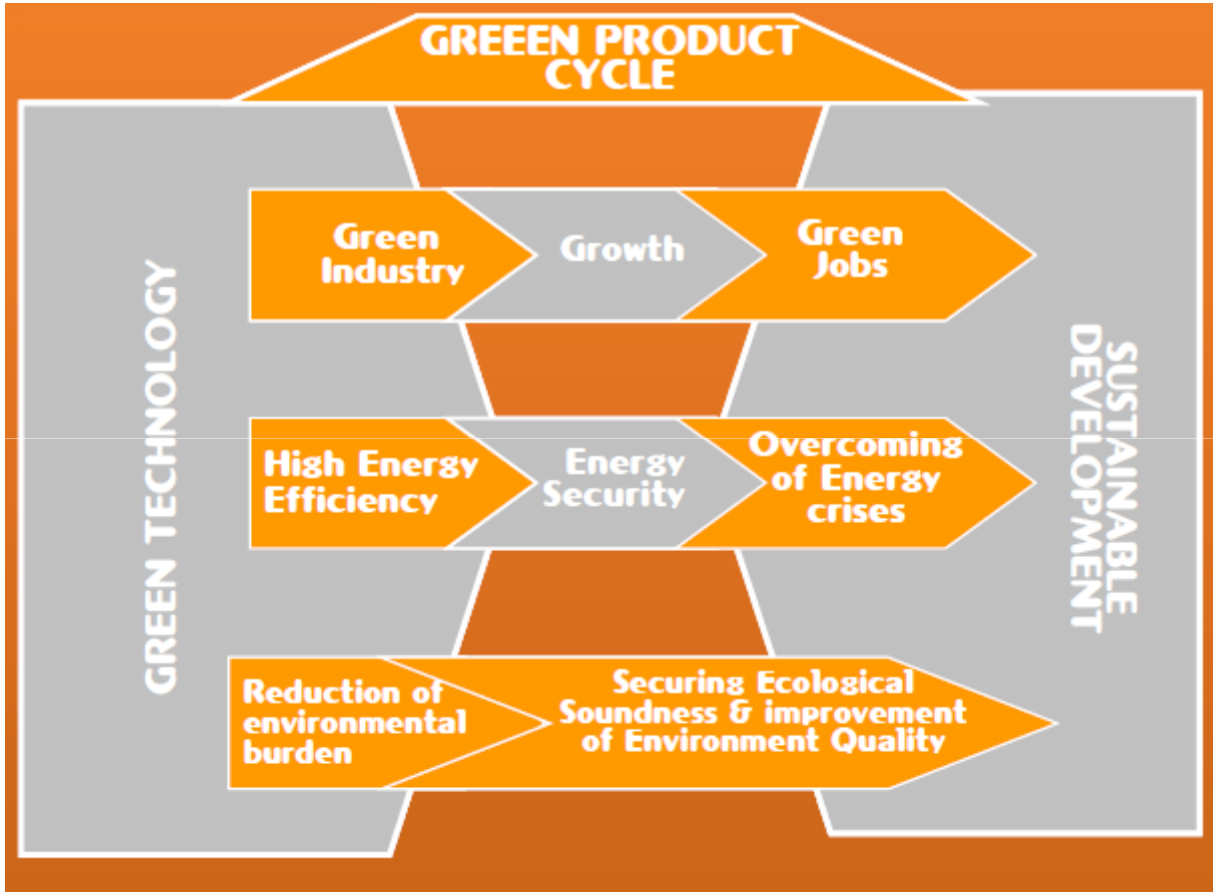


Por que o Labex na Coreia?

Uma das melhores infraestruturas de inovação na Ásia

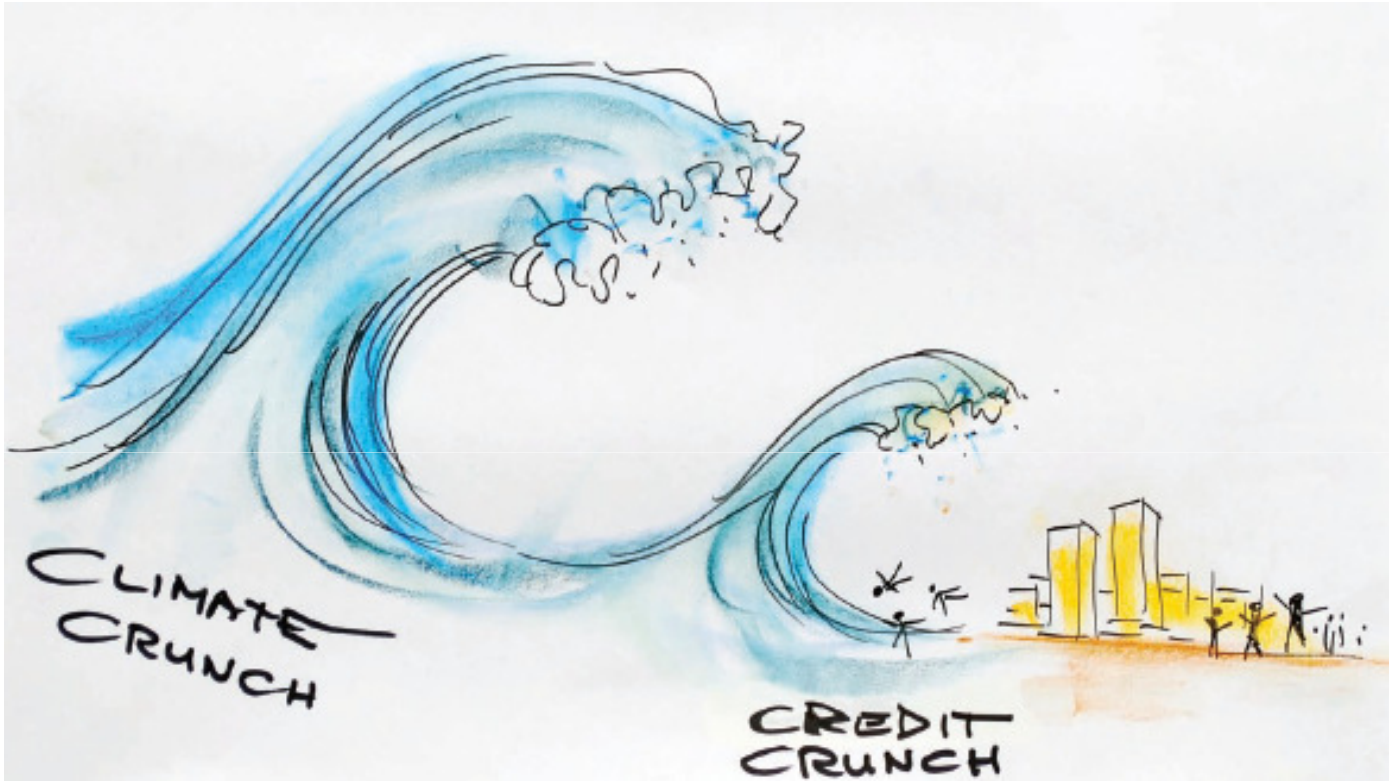
Por que o Labex na Ásia?

“Economia Verde” na Ásia



Source: Alzahrani, 2010

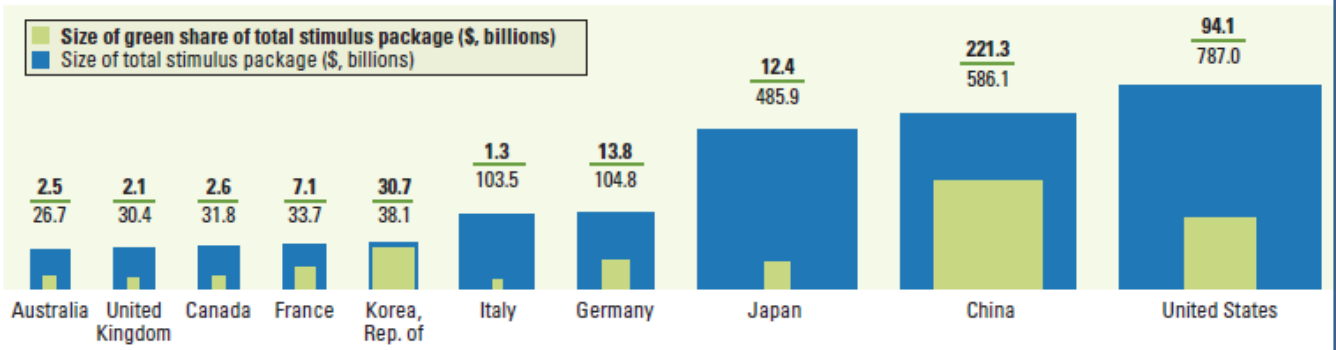
“Economia Verde” na Ásia



Source: Foresight for Smart Globalization: Accelerating & Enhancing Pro-Poor Development Opportunities
The Rockefeller Foundation – October 2009

“Economia Verde” na Ásia

Figure 1.4 Global green stimulus spending is rising



Source: Robins, Clover, and Singh 2009.

Country	Stimulus U$bn	Stimulus as % of GDP/GNI	Green Fund U$bn	% of Green stimulus	Green stimulus as % of GDP
Australia	26.7	2.49	2.5	9%	0.2
China	586.1	13.88	221.3	38%	5.2
Japan	485.9	10.03	12.4	3%	0.3
Korea, Rep	38.1	4.44	30.7	81%	3.6
France	33.7	1.12	7.1	21%	0.2
Germany	104.8	2.74	13.8	13%	0.4
UK	30.4	1.09	2.1	7%	0.1
US ARRA	787	5.27	94.1	12%	0.6
US EESA	185	1.29	18.2	10%	0.1
Canada	31.8	2.03	2.6	8%	0.2

source: HSCB 2009, CIA factbook

“Economia Verde” na Ásia

http://www.moleg.go.kr/english/korLawEng

Inovação é o Motor da "Economia Verde" na Ásia

Inovação é o Motor da “Economia Verde” na Ásia

Innovation through enhanced research, development, deployment and demonstration of new technologies.

http://www.krict.re.kr/english/index.php

Inovação é o Motor da “Economia Verde” na Ásia

Innovation through enhanced research, development, deployment and demonstration of new technologies.

http://www.kier.re.kr/open_content/eng/main_page.jsp

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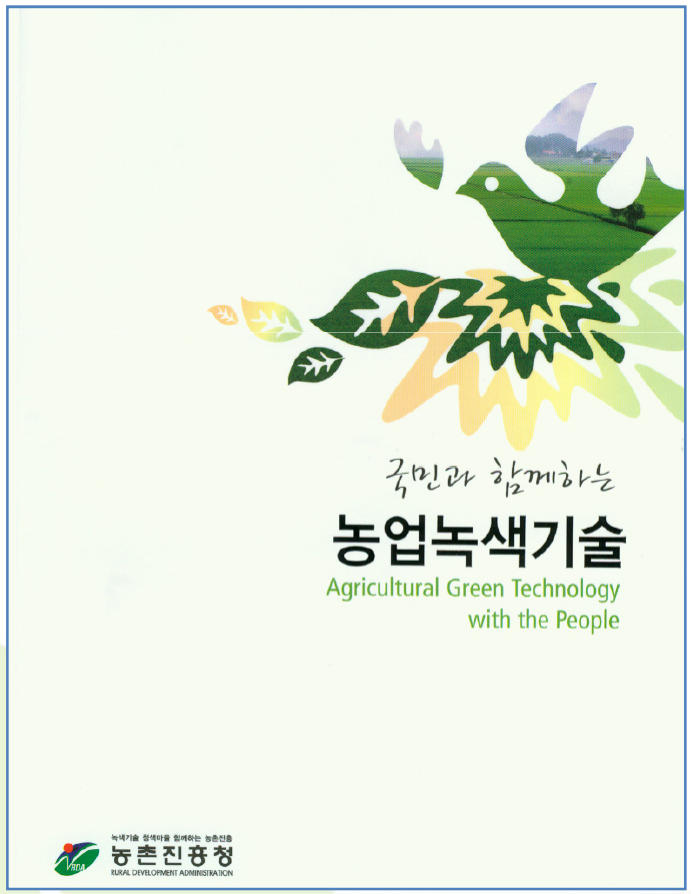
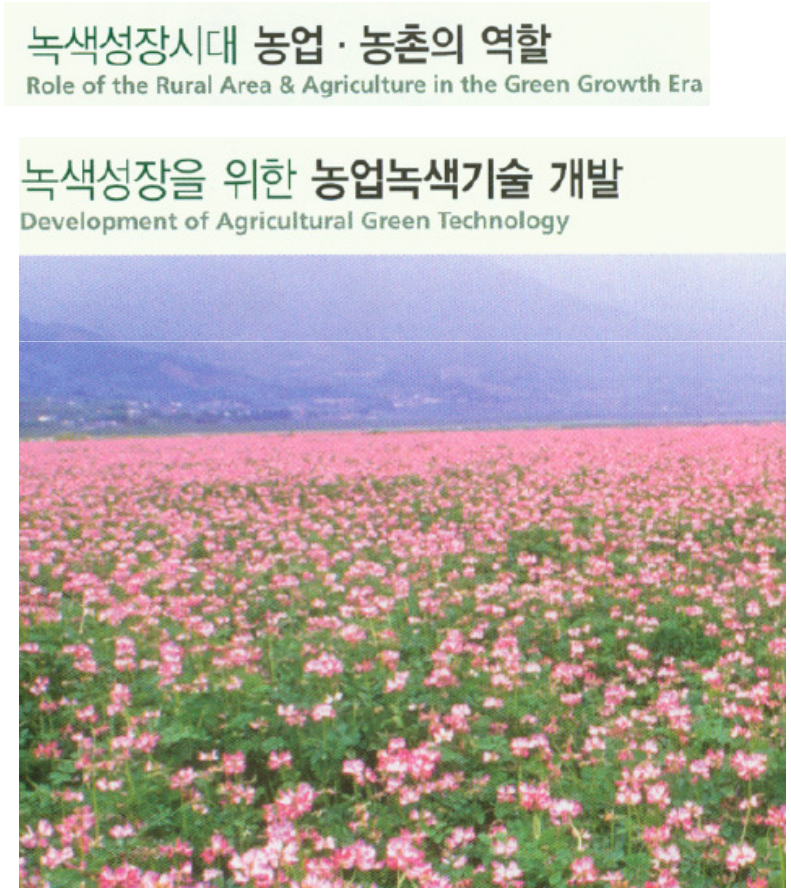




Inovação é o Motor da “Economia Verde” na Ásia

http://www.gcc-kolac.com/index.asp

Inovação é o Motor da “Economia Verde” na Ásia

Inovação é o Motor da "Economia Verde" na Ásia

Green City – Incheon Free Economic Zone.

Foster and Partners, together with PHA and Mobility in Chain, has won an international competition to design the masterplan for the expansion of the Incheon Free Economic Zone, an extensive mixed-use scheme encompassing the islands of KangHwa and OnJin-gun, to the north west of Seoul. Conceived as a self-sufficient, sustainable development, the 300 square-kilometre masterplan will extend organically from a central transportation spine, creating a centre for green industry and serving a population that is expected to grow from 35,000 to 320,000 residents and commuters.

The scheme integrates a range of low to high-density mixed-use areas, connected by a Light Rapid Transit system and construction will be phased over 10 to 15 years. The area spans three main sites within the free trade zone – the north of KangHwa will be a centre of inter-Korean economic cooperation, taking advantage of its strategic location close to Incheon airport and North Korea, while the south of the island will be mixed-use, combining green technology industry with community, cultural and residential buildings.

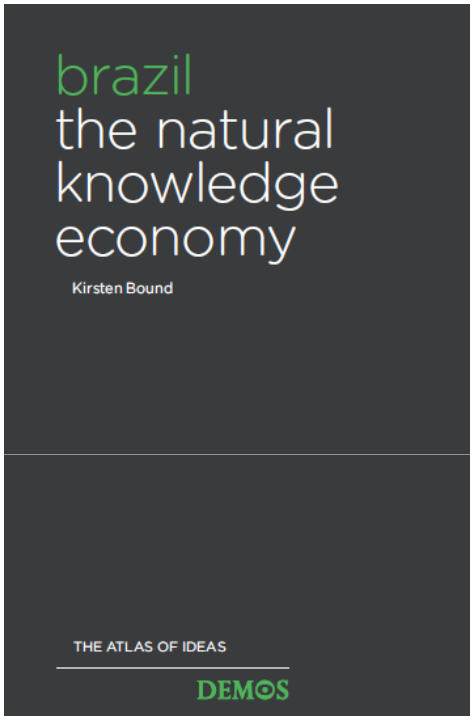
http://www.azobuild.com/news.asp?newsID=6895

http://urbanneighbourhood.com/wp-content/uploads/2010/03/Incheon-University-Songdo.jpg

O Brasil na Economia Verde...

The Economist - Nov. 14-20, 2009

"A country with the world's largest freshwater supplies, the largest tropical forests, fertile land that in some places allows up to three harvests a year, and huge mineral and hydrocarbon wealth."



The Atlas of Ideas – Demos Institute, 2008

"It is helpful to think of Brazil as a 'natural knowledge-economy'… its innovation system is in large part built upon its natural and environmental resources, endowments and assets."

São Paulo, domingo, 28 de fevereiro de 2010 FOLHA DE S.PAULO dinheiro

Texto Anterior | Próximo Texto | Índice

Brasil fica para trás na corrida pela nova economia "verde"

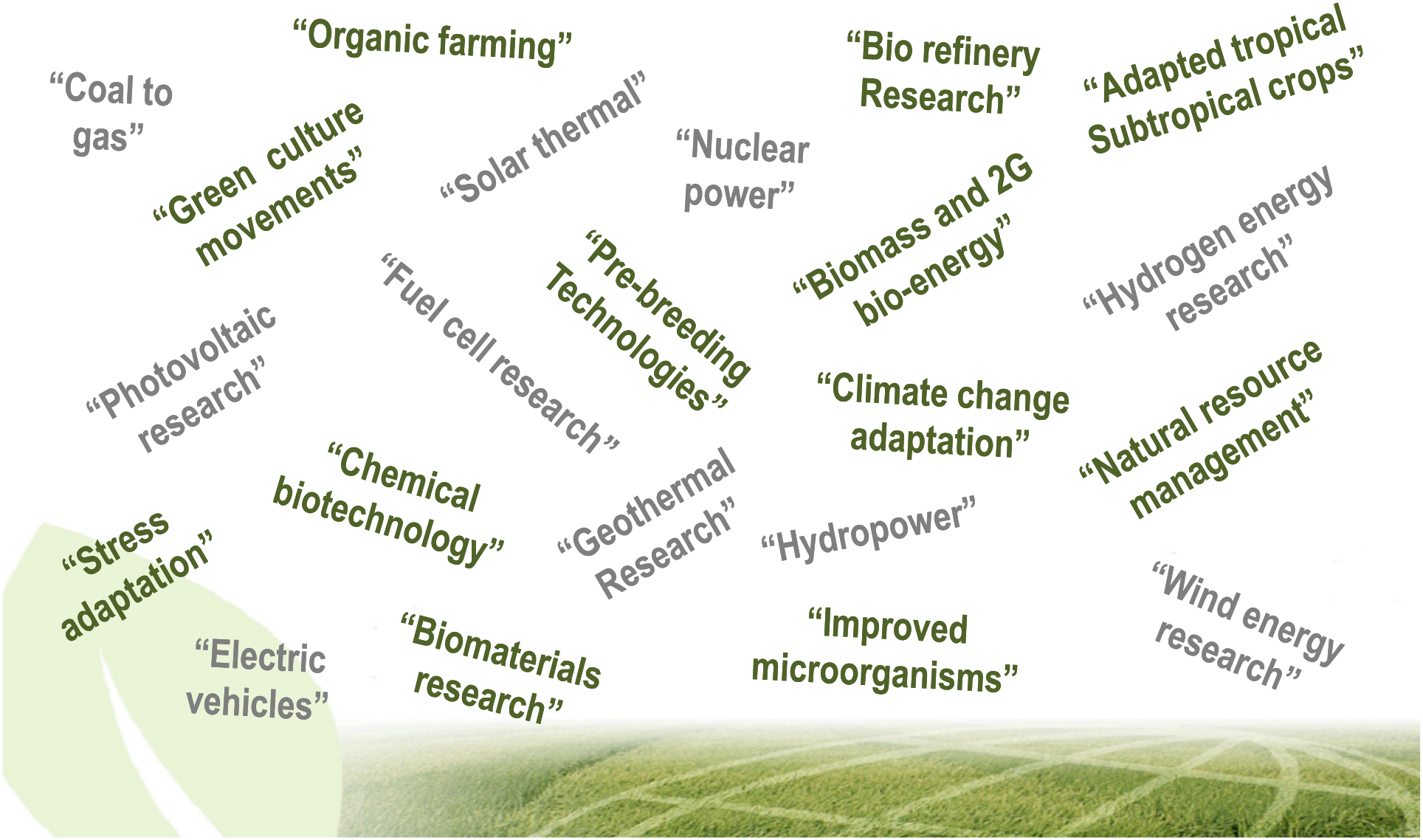
Enquanto EUA e China investem bilhões em tecnologia, país se acomoda com matriz limpa, dizem analistas

Em 2009, grandes economias gastaram em média 16,4% dos pacotes de estímulo com investimentos "verdes"; no Brasil, fatia foi de 5%

NATÁLIA PAIVA
DA REDAÇÃO

Na corrida global por desenvolvimento científico e ampliação de investimentos ligados à economia de baixo carbono, o Brasil começa a ficar para trás.
Enquanto potências como EUA e China investem centenas de bilhões de dólares na área, vista como a nova fronteira do desenvolvimento mundial, o Brasil nem sequer tem um

O Labex e a Economia Verde na Ásia



O Brasil e a Economia Verde na Ásia

Contribuições do Labex...

O Labex e a Economia Verde na Ásia

- Estudos e Análises -

Parceria

Labex Coreia
Embaixada do Brasil em Seul

Green Convergence Center
Korea and Latin America and the Caribbean

O Labex e a Economia Verde na Ásia

- Artigos de Divulgação -

Inovação é o Motor da Economia Verde Sul-Coreana

Mauricio Antônio Lopes[1] e Daniel Fink[2]

[1] Coordenador do programa Embrapa Labex Coreia, Suwon, República da Coreia
[2] Assessor de Ciência e Tecnologia da Embaixada do Brasil em Seul, República da Coreia

No último dia 16 de fevereiro, o Sr. Jung-Sik Koh, gestor do órgão de proteção da propriedade intelectual na Coreia do Sul (Korean Intelectual Property Office – KIPO) anunciou oficalmente quais foram as companhias e os pesquisadores com o maior número de patentes registradas no país.

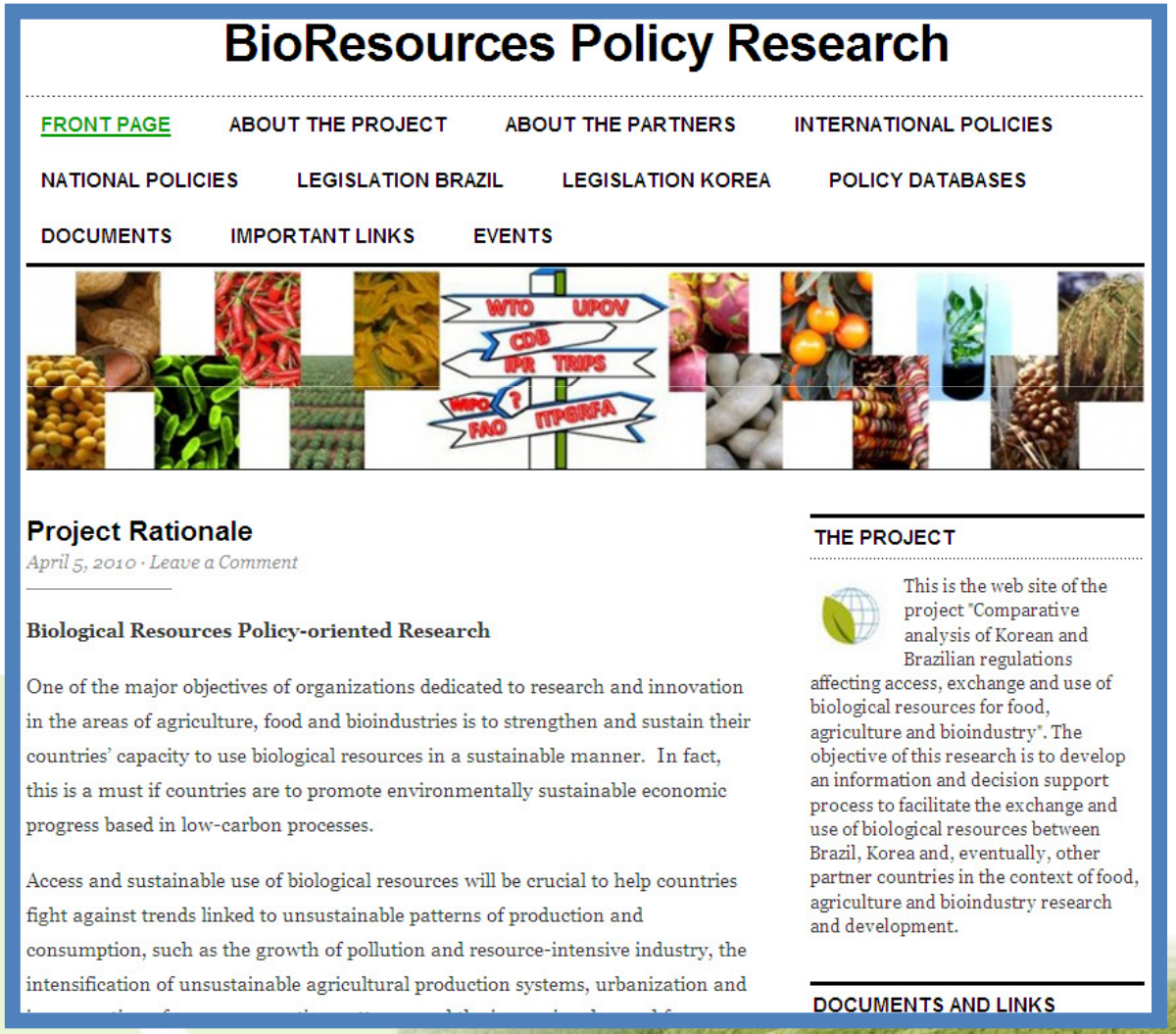
Esta é uma prática comum na Coreia do Sul, e o Sr. Koh a justificou dizendo que "sem reconhecimento e recompensas não há inovação". E, em consonância com o espírito vigente no país, ele terminou a nota afirmando que "para manter a competitividade nos mercados globais, é preciso reconhecer e incentivar os inventores com fama e riqueza".

Menos de um mês depois, em 11 de março de 2010, o Gabinete do Primeiro Ministro Coreano anunciou uma agressiva estratégia para reforçar a gestão dos ativos nacionais de propriedade intelectual, criando o "Conselho de Coordenação da Política de Propriedade Intelectual".

Esse foro será um mecanismo estatal de atuação transversal, com a responsabilidade de promover alinhamento e colaboração interministerial no gerenciamento e proteção de propriedade intelectual estratégica para o país.

O Labex e a Economia Verde na Ásia

- Projeto de Pesquisa -



http://bioresourcespolicy.wordpress.com/

Projeto

Comparative analysis of Korean and Brazilian regulations affecting access, exchange and use of biological resources for food, agriculture and bioindustry.

Parceria

Labex Coreia

KAIST – Korea Advanced Institute of Science and Technology (School of Innovation and Technology Management)

FAO-GIPB, Roma

Embrapa Informática na Agropecuária

O Labex e a Economia Verde na Ásia

- Intercâmbio de Recursos Biológicos -

A Germplasm Exchange Program Between Embrapa and RDA

Introduction

Embrapa and RDA have signed a Memorandum of Understanding (MoU) in November 2008 specifically to implement the Embrapa Virtual Laboratory Abroad (Labex Korea) at RDA, Republic of Korea, and the RDA Abroad Virtual Laboratory (RAVL) at Embrapa, Brazil. The first area to be implemented by Labex Korea was genetic resources. A TCP was approved by the two organizations in September 2009 and the Virtual Laboratory of Embrapa in Korea was inaugurated in December 2009.

New conformations, changes and advances in the process of technological innovation justify the renewed interest in genetic resources research and support the choice of this R&D area in the implementation process of Labex Korea. The emerging bioeconomy, the expected risks and challenges associated with global climate change and the increasing pressures for development of sustainable agricultural production systems point to the need to streamline the process of enrichment, conservation, characterization, value addition and use of plant, animal and microbial genetic resources.

RDA – Rural Development Administration

KRIBB - Korea Research institute of Bioscience and Biotechnology

O Labex e a Economia Verde na Ásia

- Videoconferências Brasil-Coreia -

Promovendo Cooperação Brasil-Coreia do Sul em Pesquisa Avançada de Biomassa e Bioenergia

Mauricio Antonio Lopes[1] e Daniel Fink[2]

Introdução

A Coreia do Sul vem desenvolvendo um conjunto de ações planejadas e coordenadas para dinamizar o ciclo virtuoso de criação, proteção e utilização de ativos intelectuais e o re-investimento em inovação, que tem marcado a sua indústria nas últimas décadas. Mais recentemente o país tem colocado o seu aparato de inovação, bem como a capacidade de indução e coordenação do Estado, a serviço de uma nova agenda mobilizadora, denominada "green growth", ou crescimento verde. Esse desafio permeia essencialmente todos os setores críticos do país, e prevê a implementação de uma agressiva estratégia de desenvolvimento baseada em baixo carbono, com impactos previstos em todos os setores industriais dependentes de combustíveis fósseis.

Labex Coreia

Embaixada do Brasil em Seul

MCT – Divisão de Cooperação Internacional

KRICT

KIER

O Labex e a Economia Verde na Ásia

- Pesquisa em Bioenergia -

DRAFT PROPOSAL

EMBRAPA-RDA RESEARCH PLATFORM FOR FIRST AND SECOND GENERATION BIOFUEL PRODUCTION FROM SWEET SORGHUM FEEDSTOCK

General Concept

Biofuels promote a series of environmental gains (carbon sequestration, lower level of emissions), are renewable (short production cycle, with entire process controlled by man) and generate positive socio-economic impacts, such as generation of new jobs, better income distribution, increase of exports and trade to fulfill the growing global energy demand.

A common view of the international trend in the development of biofuels shared by many indicates that the first generation biofuels (ethanol from sucrose or starch; biodiesel produced by transesterification of oils and fats with methanol or ethanol) currently available will be followed by the so-called second generation biofuels, that include diesel produced from synthesis gas by thermo chemical processes and ethanol from lignocellulose by chemical and enzymatic processes. Next, integrated biorefineries will be built to produce energy, biofuels and a wide range of chemical and biochemical products from biomass.

Labex Coreia

RDA – Agroenergia

Embrapa Agroenergia

Embrapa Milho e Sorgo

O Labex e a Economia Verde na Ásia

- Cultivo da macieira frente às mudanças climáticas -

O Labex e a Economia Verde na Ásia

BGI-China – Pesquisa Genômica

Labex na Ásia

Principais desafios...

Os Desafios para o Labex na Ásia

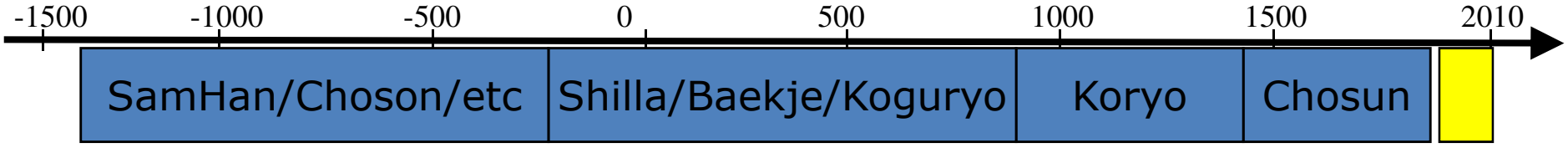
Distância: 21,000 km

Os Desafios para o Labex na Ásia

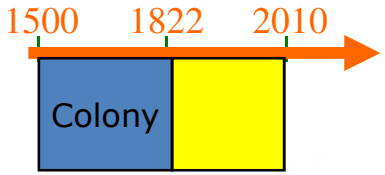
Diferenças Culturais Marcantes

Coreia (5000 Anos)

www.korean-arts.com/timeline



Brasil (500+ Anos)



Os Desafios para o Labex na Ásia

“Comunicação Científica”

http://www.fapeam.am.gov.br/arquivos/imagens/noticias/20090812151445comunication.jpg

http://labexkorea.wordpress.com/

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Brazil-Asia Cooperation in Agricultural Research

Labex Korea

Resource for Collaboration: Mendeley Research Networks

May 28, 2010 · 1 Comment

Mendeley is a free social Web application designed for managing and sharing research papers, discovering research data and collaborating online. It has many associated functions to connect researchers with common interests, opening new avenues for interaction, knowledge sharing and discovery. Research articles can be fed to Mendeley, that has an intuitive, easy to use interface. It automatically extracts data, keywords, cited references, etc, creating a searchable database that is easily accessed and shared.

The main possibilities offered by Mendeley are:

EMBRAPA LABEX

The concept of Virtual Laboratory – or Labex, was created by the Brazilian Agricultural Research Organization, Embrapa, as means of increasing its scientific and technological ties with advanced research organizations around the world. Instead of building its own platform abroad, Embrapa uses the concept of virtual lab, or lab without walls, to negotiate access to its partner organizations' existing facilities. The concept, which has been tested and validated in the United States and in Europe, is now being extended to Asia, in partnership with the Rural Development Administration – RDA, of South Korea. More here.

PARTNER IN KOREA

Labex Korea is hosted by Rural Development Administration

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Brazil-Asia Cooperation in Agricultural Research

Labex Korea

About

The Labex program is unique in several important aspects. From its inception it has been designed as a two-way collaboration, with both countries benefitting from the cooperation. Labex-USA was the first to be established by Embrapa, in 1998, with the US Department of Agriculture's (USDA) Agricultural Research Service (ARS). The second Labex opened in 2002 at Agropolis International in Montpellier, France and later expanded to Netherlands and UK, becoming Labex Europe. After more than a decade, the Labex Program has produced impressive outputs. The scientists of Labex have helped develop several new collaborative projects with American, French and other European labs. The networking, visibility and attractiveness of Labex have also allowed exchange of many Brazilian and foreign scientists, with substantial increase in the dynamics of exchange, short and long term training and interactions between Brazilian and partner countries teams and labs. The participation of Embrapa and its partner organizations in international programs has been strengthened through the Labex Program, as has the production of publications and organization of international events and meetings.

How it works

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Concluído | Internet | 145%

Labex Korea

Brazil-Asia Cooperation in Agricultural Research

ENTRIES CATEGORIZED AS 'AGRICULTURAL RESEARCH IN BRAZIL'

How Embrapa Manages its Research and Development Programs – I

May 22, 2010 · Leave a Comment

Embrapa has always invested a great deal of effort in foresight, strategic planning and improvement of institutional processes. During its 37 years of existence, the leading Brazilian agricultural research organization experienced four different models of research and development management in response to changing realities and emergence of new trends and innovation methods.

The implementation of its current model, called Embrapa Management System (SEG) was an important move towards stronger networking to tackle new

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Concluído Internet 145%

Labex Korea

Brazil-Asia Cooperation in Agricultural Research

← Quotes Inspiring Cooperation

Quotes Inspiring Cooperation →

Genetic Resources Management at the Brazilian Agricultural Research Organization

May 8, 2010 · Leave a Comment

Source: Embrapa Genetic Resources and Biotechnology

Since the beginning of the 1970s, there has been a growing concern in Brazil with the need to preserve genetic resources essential for food and agriculture. At that time, FAO stimulated the establishment of a world-wide network of Centers for Conservation of Genetic Resources.

In 1974 the Brazilian Government created, within the Brazilian Agricultural Research Corporation – Embrapa, a research

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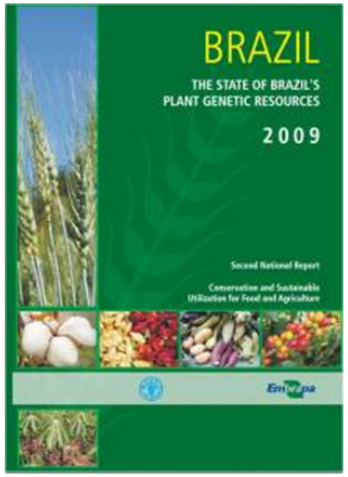
Brazil-Asia Cooperation in Agricultural Research

← Quotes Inspiring Cooperation
Embrapa and BASF Develop the First GM Crop in Brazil →

Plant Genetic Resources for Food and Agriculture in Brazil

February 5, 2010 · Leave a Comment



The Food and Agriculture Organization of the United Nations (FAO), through the Commission on Genetic Resources for Food and Agriculture (CGRFA), carries out periodic assessments and produces reports describing the current status of conservation and use of plant genetic resources for food and agriculture (PGRFA) throughout the world. These Reports provide a comprehensive overview on the status and trends of conservation and use of plant genetic resources, with objective information and analyses on priorities, gaps and needs at the national,

EMBRAPA LABEX

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Brazil-Asia Cooperation in Agricultural Research

← Geneflow: a magazine about agricultural biodiversity

Quotes Inspiring Cooperation →

The Brazilian Agricultural Research for Development System

February 20, 2010 · Leave a Comment

If you click the image on the left you will be able to access the document titled "*The Brazilian Agricultural Research for Development System*", which is a country brief prepared for the *International Workshop on Fast Growing Economies' Role in Global Agricultural Research for Development (ARD),* that took place in Beijing, China, on 8-10 February 2010. Embrapa was represented in the meeting by the Coordinators of Labex Korea and Labex Europe. The Brazilian presentation at the Workshop

EMBRAPA LABEX

The concept of Virtual Laboratory – or Labex, was created by the Brazilian Agricultural Research Organization, Embrapa, as means of increasing its scientific and technological ties with advanced research organizations around the world. Instead of building its own platform abroad, Embrapa uses the concept of virtual lab, or lab without walls, to negotiate access to its partner organizations' existing facilities. The concept, which has been tested and validated in the United States and in Europe, is now being extended to Asia, in partnership with the Rural Development Administration – RDA, of South Korea. More here.

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International Conference on Food and Agriculture Applications of Nanotechnologies

March 24, 2010 · Leave a Comment

The International Conference on Food and Agriculture Applications of Nanotechnologies will be held in São Pedro, SP, Brazil from June 20 to 25, 2010. New and emerging applications of nanotechnologies in food and agriculture and issues related to their use will be the focus of this Conference.

In addition to exploring

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Embrapa Inaugurates a New Unit Dedicated to Strategic Studies and Training

May 9, 2010 · Leave a Comment

Photo by Leonardo Carvalho

On May 10, 2010 President Luiz Inacio Lula da Silva will inaugurate a new Embrapa Unit, as part of the agenda of the Brazil-Africa dialogue on food security, hunger and rural development, which occurs in Brasilia. The event, organized by the Brazilian Ministry of Foreign Affairs, will be attended by more than 70 delegations from African countries.

Embrapa Strategic Studies and Training will be a Unit dedicated to promote and

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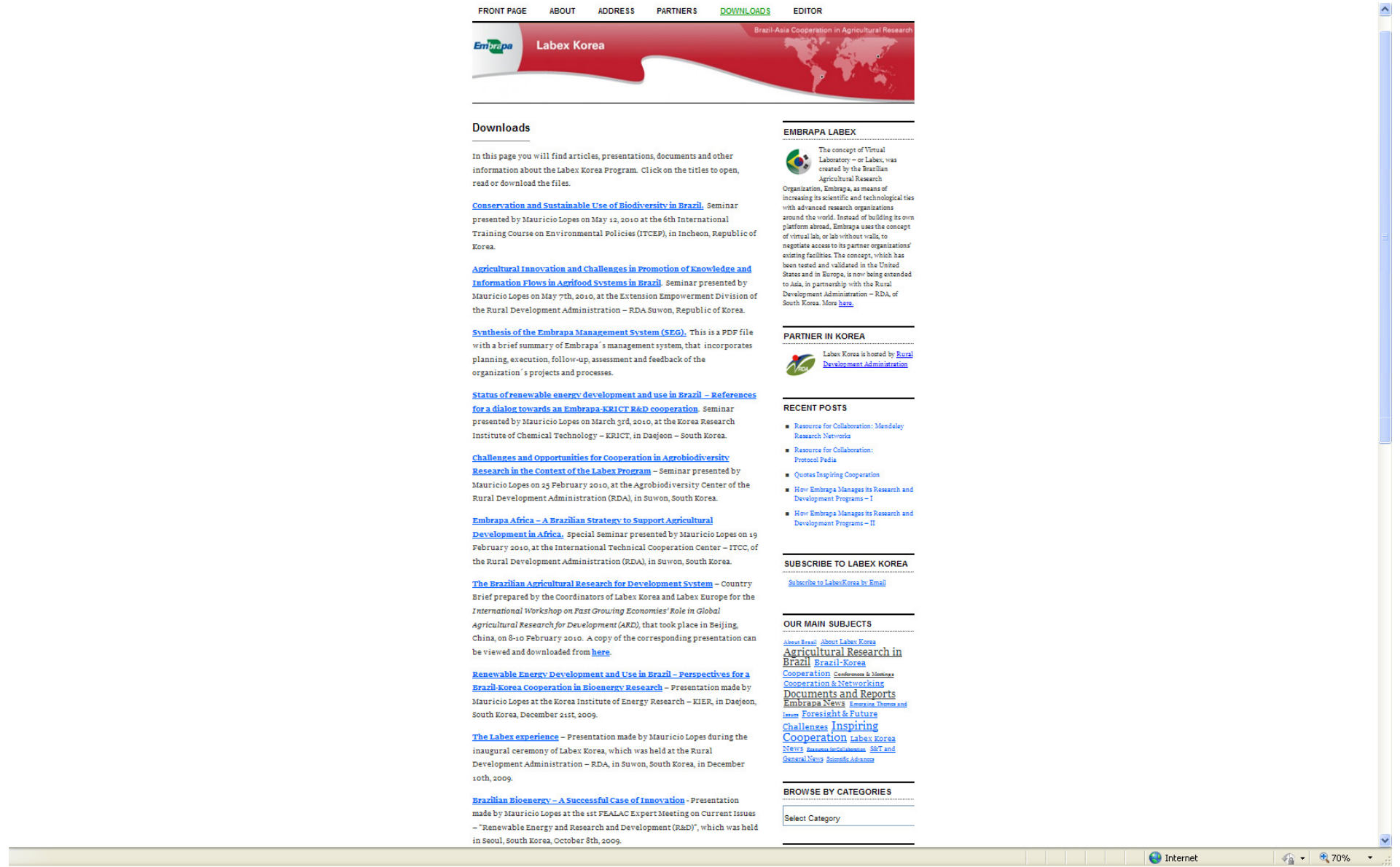

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In this page you will find articles, presentations, documents and other information about the Labex Korea Program. Click on the titles to open, read or download the files.

Conservation and Sustainable Use of Biodiversity in Brazil. Seminar presented by Mauricio Lopes on May 12, 2010 at the 6th International Training Course on Environmental Policies (ITCEP), in Incheon, Republic of Korea.

Agricultural Innovation and Challenges in Promotion of Knowledge and Information Flows in Agrifood Systems in Brazil. Seminar presented by Mauricio Lopes on May 7th, 2010, at the Extension Empowerment Division of the Rural Development Administration – RDA Suwon, Republic of Korea.

Synthesis of the Embrapa Management System (SEG). This is a PDF file with a brief summary of Embrapa´s management system, that incorporates planning, execution, follow-up, assessment and feedback of the organization´s projects and processes.

Status of renewable energy development and use in Brazil – References for a dialog towards an Embrapa-KRICT R&D cooperation. Seminar presented by Mauricio Lopes on March 3rd, 2010, at the Korea Research Institute of Chemical Technology – KRICT, in Daejeon – South Korea.

Challenges and Opportunities for Cooperation in Agrobiodiversity Research in the Context of the Labex Program – Seminar presented by Mauricio Lopes on 25 February 2010, at the Agrobiodiversity Center of the Rural Development Administration (RDA), in Suwon, South Korea.

Embrapa Africa – A Brazilian Strategy to Support Agricultural Development in Africa. Special Seminar presented by Mauricio Lopes on 19 February 2010, at the International Technical Cooperation Center – ITCC, of the Rural Development Administration (RDA), in Suwon, South Korea.

The Brazilian Agricultural Research for Development System – Country Brief prepared by the Coordinators of Labex Korea and Labex Europe for the *International Workshop on Fast Growing Economies' Role in Global Agricultural Research for Development (ARD)*, that took place in Beijing, China, on 8-10 February 2010. A copy of the corresponding presentation can be viewed and downloaded from **here**.

Renewable Energy Development and Use in Brazil – Perspectives for a Brazil-Korea Cooperation in Bioenergy Research – Presentation made by Mauricio Lopes at the Korea Institute of Energy Research – KIER, in Daejeon, South Korea, December 21st, 2009.

The Labex experience – Presentation made by Mauricio Lopes during the inaugural ceremony of Labex Korea, which was held at the Rural Development Administration – RDA, in Suwon, South Korea, in December 10th, 2009.

Brazilian Bioenergy – A Successful Case of Innovation - Presentation made by Mauricio Lopes at the 1st FEALAC Expert Meeting on Current Issues – "Renewable Energy and Research and Development (R&D)", which was held in Seoul, South Korea, October 8th, 2009.

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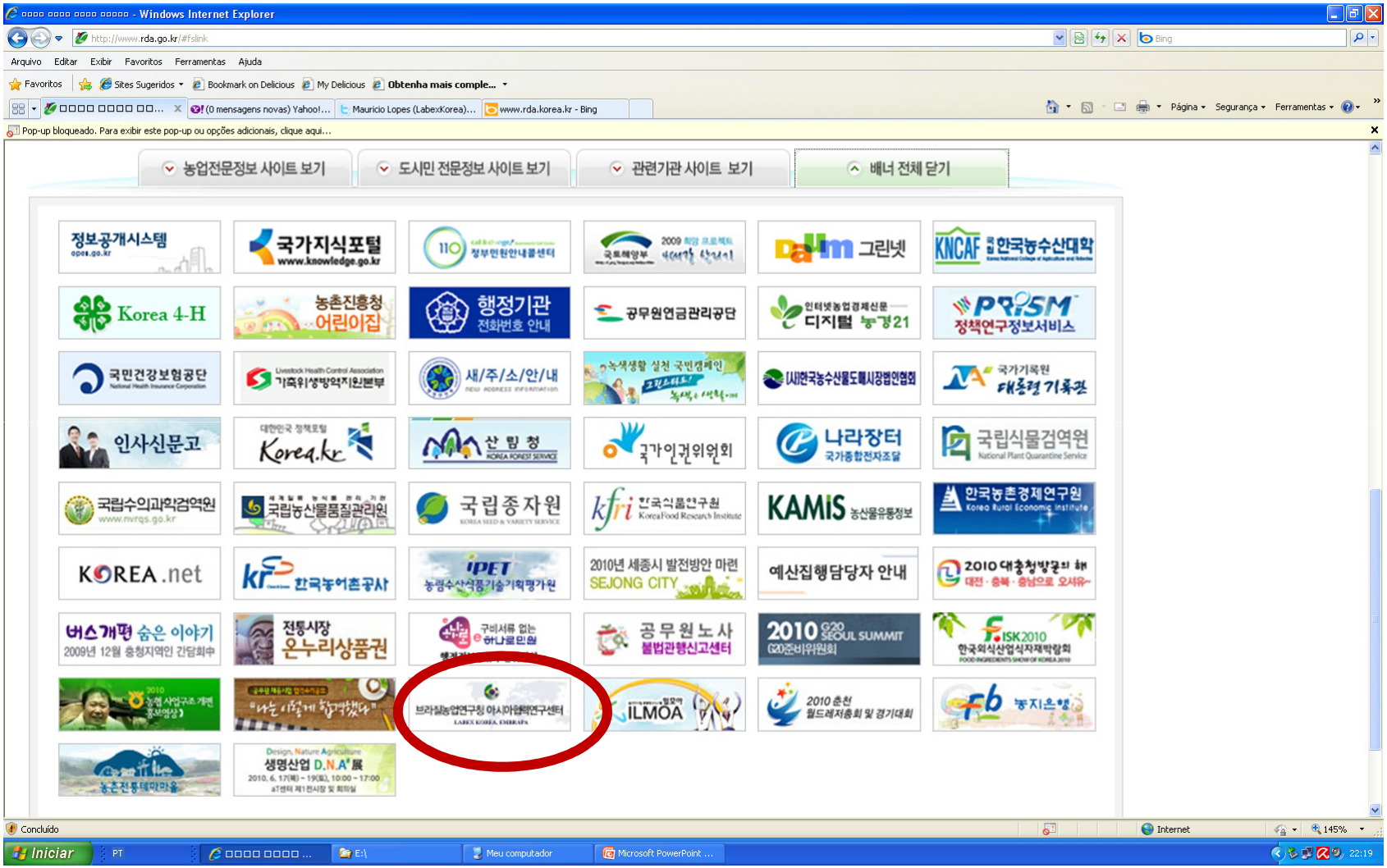
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