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OECD: Governments should expand tertiary studies to boost jobs and tax revenues

Governments need to go for world-class quality in their education systems to ensure long-term economic growth, according to the latest edition of the OECD's annual Education at a Glance.

"In a global economy, it is no longer improvement by national standards alone. The best performing education systems internationally provide the benchmark for success," said OECD Secretary-General Angel Gurría launching the report in Paris. "With the worldwide recession continuing to weigh on employment levels, education is an essential investment for responding to the changes in technology and demographics that are re-shaping labour markets."

Recent experience demonstrates the value of investing in education. During the economic downturn, young people with low levels of education were hard hit, with unemployment rates for those that had not completed high school rising by almost five percentage points in OECD countries between 2008 and 2009. For people with tertiary degrees, by contrast, the increase in unemployment levels during the same period was below two percentage points.

With demand for tertiary courses rising, according to analysis in this year's edition of Education at a Glance, public resources invested in university education also pay off handsomely by bringing in additional tax revenues. On average across OECD countries, a man with a tertiary level of education will generate USD 119.000 more in income taxes and social contributions over his working life than someone with just an upper secondary level of education. Even after taking account of the cost to the public exchequer of financing degree courses, higher tax revenues and social contributions from people with university degrees make tertiary education a good long-term investment. Net of the cost of degree courses, the long-term gain to the public exchequer averages USD 86.000 in OECD countries, almost three times the amount of public investment per student

in tertiary education. Overall returns are even larger, as many benefits of education are not directly reflected in tax income.

Education at a Glance provides a rich, comparable and up-to-date array of indicators on the performance of education systems and their implications in policy discussions. The indicators look at who participates in education, what is spent on it, how education systems operate and what results are achieved.

Among other points, the 2010 edition of Education at a Glance reveals that:

- On average across OECD countries, 35% of 25-34 year-olds have completed tertiary education, compared with 20% of 55-64 year-olds. Korea, Canada and Japan are in the lead, along with the Russian Federation, which is a candidate for OECD membership, all with over 50% of 25-34 year olds with tertiary qualifications.
- Unemployment rates among people with a tertiary level of education have stayed at or below 4% on average across OECD countries during the recession. For people who failed to complete upper secondary education, by contrast, unemployment rates have repeatedly exceeded 9%.
- Employers spend nearly twice as much on average in OECD countries to employ an experienced person with tertiary education, compared with a person in the same 45-54 year-old age group who has not completed upper secondary school.
- Methods of financing tertiary education vary considerably between countries, with more than 60% of costs covered from private sources in Chile, Japan, Korea, the U.K. and the U.S., compared with less than 10% in Belgium, Denmark, Finland, Iceland and Norway.
- As more and more people look beyond their home countries' borders for university education, both academic and commercial benefits accrue from attracting foreign students. In 2008, the latest year for which complete figures are available, over 3.3 million tertiary students were enrolled outside their country of citizenship, an increase of 10.7% increase from 2007.

- New players are emerging in an increasingly competitive market for international education. The Russian Federation expanded its market share by two percentage points over the past decade and Australia, Korea and New Zealand each by one percentage point. Over the same period, the share of the U.S. dropped from 26% to 19%, and Germany, the United Kingdom and Belgium also lost ground.
- The largest numbers of international students are from China and India. China accounts for 17% of all international students enrolled in OECD countries (not including an additional 1% from Hong Kong, China), with 21.6% of international students from China going to the U.S. and 15.3% to Japan.
- Women in most countries and at most education levels still earn much less than men, potentially discouraging women from making full use of the skills they have learned and hampering economic growth. On average in OECD countries, a woman aged between 35 and 44 with upper secondary and post-secondary non-tertiary education can expect to earn 76% of male earnings. This ratio falls to 74% for those who have not completed an upper secondary education and to 71% for those who have completed a tertiary education.
- Adults with higher educational attainment are more likely to participate in formal and/or non-formal education than adults with lower attainment. On average for the OECD, individuals with tertiary education have an advantage in the involvement in educational activities – they are almost three times more likely to be involved in educational activities than those with low levels of education.
- Teachers are still paid less than other people with similar educational qualifications in most countries. Only in Spain does a lower secondary teacher with 15 years of experience earn more than the average for people with tertiary education. On average across OECD countries, a teacher at this level can expect to earn 79% of the average. In the Czech Republic, Hungary, Iceland, Israel, Italy and Slovenia, this ratio falls below 60%.

Quelle

→ http://www.oecd.org/document/52/0,3343,en_2649_37455_45925620_1_1_1_1,00.html

Download

Education at a Glance 2010: OECD Indicators

→ http://www.oecd.org/document/52/0,3343,en_2649_39263238_45897844_1_1_1_1,00.html

OECD-Volltext "Education at a Glance 2010" (engl.)

→ <http://www.oecd.org/dataoecd/45/39/45926093.pdf>

Weitere Informationen

OECD-Bericht bestätigt die Bildungs- und Ausbildungsziele von Europa 2020

→ http://ec.europa.eu/news/culture/100908_de.htm

OECD: Directorate for Education

→ http://www.oecd.org/department/0,3355,en_2649_33723_1_1_1_1,00.html

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus OECD

→ <http://www.kooperation-international.de/oecd>

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Launch of "Science Policy Information Network: SPIN"

The Science Policy Information Network (SPIN) was launched in Montevideo (Uruguay) on 17 August at the UNESCO MERCOSUR Forum on Science, Technology and Innovation Policies: Towards a New Social Contract for Science. SPIN is a revolutionary cluster of databases equipped with powerful graphical and analytical tools that has been devised by UNESCO's Regional Bureau for Science in Latin America and the Caribbean for decision-makers and specialists in science, technology and innovation everywhere to use.

UNESCO's regional office in Montevideo has developed a methodology for the standardization and systematization of data on science, technology and innova-

tion policies in the 33 countries of Latin America and the Caribbean, together with a sophisticated information system which includes:

- A detailed inventory – in Spanish and English – of the composition of each national system of science, technology and innovation in Latin America and the Caribbean, with a description of their institutional structure, details of their main programmes, priorities, performance, planning and strategies for international co-operation;
- A database encompassing all the relevant legal frameworks in each country;
- An inventory and detailed description of more than 750 different technical and financial science policy instruments implemented by the countries in the region, divided into nine categories by objective and strategic goal, into 11 categories by type of facility and into 18 categories by type of beneficiary;
- A database containing 170 descriptions of national and international bodies and other non-governmental organizations which provide technical and financial co-operation in science and technology. These institutions are classified by area and type of co-operation, geographical focus and type of beneficiary;
- A powerful georeferenced analytical software which includes more than 258 time series, some of them ranging from 1960 to the present, for different groups of indicators: economic, social, governance, ICTs, science, technology and innovation). The software also allows the user to make an analytical estimation of correlations between pairs of indicators, studies of the evolution of different indicators over time, as well as the approach adopted by a given region or country around the world, thereby enabling decision-makers and specialists to detect different patterns;
- A digital library specializing in science, technology and innovation with over 700 titles produced by UNESCO.
- A tool enabling the user to download a full country report that integrates all SPIN information in a single PDF file.

Quelle

→ http://www.unesco.org/science/psd/thm_innov/spin_platform.shtml

Weitere Informationen

SPIN Plattform

→ <http://www.unesco.org/uy/politicacientifica/instrumentos/apps/unesco/frontend/menu.php?usr=&acc=>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus UNESCO

→ <http://www.kooperation-international.de/oecf>

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InterAcademy Council Report empfiehlt grundlegende Reform der IPCC-Managementstruktur

Der vom UN-Weltklimarat (IPCC) verwendete Prozess zur Erstellung seiner periodischen Assessment-Reports war insgesamt erfolgreich, aber der IPCC benötigt sowohl eine grundlegende Reform seiner Managementstruktur und eine Festigung seiner Verfahren zur Handhabung von noch größeren und zunehmend komplexeren Klima-Assessments als auch intensivere öffentliche Überprüfungen, wie am besten auf die Klimaänderungen, mit denen sich die Welt auseinander setzt, reagiert werden soll, besagt ein neuer Report vom InterAcademy Council (IAC), eine in Amsterdam beheimatete Organisation der Wissenschaftsakademien.

Im Hinblick auf das IPCC-Management halten die IAC-Gutachter grundlegende Veränderungen für erforderlich. Zur Stärkung der Handlungsfähigkeit schlagen die Gutachter u.a. die Einrichtung eines Leitungsteams vor, das auch unabhängig von den einmal jährlich stattfindenden Plenarsitzungen für den Weltklimarat sprechen kann. Zudem votiert das Gutachtergremium für die Berufung eines geschäftsführenden Direktors, der das IPCC-Sekretariat leiten und sich für das Tagesgeschäft des IPCC-Sekretariats verantwortlich zeigen soll. Darüber hinaus

empfehlen die IAC-Gutachter, in den IPCC-Berichten statistische Unsicherheiten stärker zu thematisieren, die Öffentlichkeitsarbeit auf der Grundlage einer zu entwickelnden Kommunikationsstrategie zu optimieren sowie die Transparenz von IPCC-internen Prozessen und Verfahren zu erhöhen.

Der IPCC wurde 1988 von der Weltorganisation für Meteorologie und dem Umweltprogramm der Vereinten Nationen (UNEP) gegründet, um durch periodische Assessments der Kenntnisse über physikalische Aspekte des Klimawandels, dessen globalen und regionalen Einwirkungen und über die Möglichkeiten für die Adaption und Abschwächung Informationen für politische Entscheidungen zu liefern. Vertreter aus 194 teilnehmenden Regierungen bilden das Gremium, das den Anwendungsbereich der Assessments bestimmt, die beaufsichtigende Dienststelle errichtet und die Auswertungen für die Entscheidungsträger genehmigt, die aus den umfangreichen Assessment-Reports, welche von tausenden Wissenschaftlern, die ehrenamtlich in drei Arbeitsgruppen tätig sind, erstellt wurden. Mit diesen Assessment-Reports gewann der IPCC große Anerkennung einschließlich eines Anteils am Friedensnobelpreis 2007. Inmitten einer zunehmend intensiven öffentlichen Debatte über die Wissenschaft des Klimawandels und den Kosten, diesen zu dämpfen, wurde der IPCC näher untersucht und dabei ergaben sich Meinungsverschiedenheiten über seine anerkannte Unparteilichkeit hinsichtlich der Klimapolitik und der Genauigkeit seiner Reports. Dies veranlasste den UN-Generalsekretär Ban Ki-moon und den IPCC-Vorsitzenden Rajendra K. Pachauri am 10. März dieses Jahres zur Herausgabe eines Briefes, in dem der IAC aufgefordert wird, den IPCC zu überprüfen und Vorschläge auszuarbeiten, wie die Prozesse und Verfahren gefestigt werden, mit denen zukünftige Assessments ausgearbeitet werden.

Ende 2009 war der IPCC durch das Auftreten von einigen Fehlern in den Berichten und den Vorwurf von Manipulationen in die Kritik geraten. Im Zusammenhang mit diesen Vorwürfen und als Reaktion auf die zunehmende öffentliche Kritik an der Arbeit des IPCC beauftragten im März dieses Jahres UN-Generalsekretär Ban Ki-moon und der Vorsitzende des IPCC, Dr. Rajendra Pachauri, die internationale Dachorganisation der Wissenschaftsakademien - InterAcademy Council (IAC) - mit der Erstellung eines Gutachtens. Hierbei sollten von einem unabhängigen Expertenkreis die Arbeitsweise der Wissenschaftler im Weltklimarat, die Managementstrukturen und seine Öffentlichkeitsarbeit überprüft werden.

Quellen

- <http://reviewipcc.interacademycouncil.net/ReportNewsReleaseGerman.html>
- <http://www.kooperation-international.de/countries/themes/nc/info/detail/data/49893/>

Download

Climate Change Assessments, Review of the Processes & Procedures of the IPCC: Executive Summary and Front Matter

- [http://reviewipcc.interacademycouncil.net/report/Executive Summary and Front Matter.pdf](http://reviewipcc.interacademycouncil.net/report/Executive%20Summary%20and%20Front%20Matter.pdf)

Climate Change Assessments, Review of the Processes & Procedures of the IPCC: Full Report

- [http://reviewipcc.interacademycouncil.net/report/Climate Change Assessments, Review of the Processes Procedures of the IPCC.pdf](http://reviewipcc.interacademycouncil.net/report/Climate%20Change%20Assessments,%20Review%20of%20the%20Processes%20Procedures%20of%20the%20IPCC.pdf)

Weitere Informationen

IPCC Intergovernmental Panel on Climate Change

- <http://www.kooperation-international.de/countries/themes/nc/info/detail/data/47261/>
- <http://www.kooperation-international.de/countries/themes/nc/info/detail/data/22821/>

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EU / Europa

New European Cluster Observatory website launches on 30 September

The European Cluster Observatory will launch a new website at the European Cluster Conference in Brussels, 30 September, a knowledge platform for clusters and cluster policy.

- The new Observatory website offers cluster stakeholders with a wide range of services.
- The Cluster Mapping tool gives access to an advanced data set on clusters and regions in Europe.
- In the Cluster Calendar, users can post information about events they want to promote to the cluster community.

- The Cluster Library is a European depository for all kinds of cluster-related documents, and users can contribute to the Library by adding their own documents.
- The Cluster Wiki presents information about regions, sectors, organisations and networks.
- The Classroom offers videos and other educational materials which give an introduction to clusters and cluster policy.

The Observatory is a user-driven toolbox to facilitate analysis and support fact-based policy and learning. All information is offered free of charge and no registration is required to access the information. Users who register can add information to the website.

Quelle

→ <http://www.clusterobservatory.eu/>

Download

Fact Sheet

→ http://www.clusterobservatory.eu/upload/Cluster_Observatory_factsheet.pdf

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus EU

→ <http://www.kooperation-international.de/eu>

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dabei Frankreich, Deutschland, Großbritannien, Irland, Tschechien, die Slowakei und Bulgarien.

Quelle

→ <http://www.euractiv.com/>

Weitere Informationen

Regierungen wollen innovativen KMU helfen (Volltext)

→ <http://www.euractiv.com/en/enterprise-jobs/governments-seek-help-innovative-smes-news-497086>

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Fokus EU

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The 19th Baltic Sea Parliamentary Conference, Mariehamn, Åland Island

The Baltic Sea Parliamentary Conference (BSPC) is an annual forum for political debate and opinion-building on current and topical issues of the Baltic Sea Region.

The 19th BSPC was convened in Mariehamn, Åland Islands, on 29-31 August 2010. The Conference was hosted by the Parliament of Åland Islands. Some 200 politicians, experts and officials took part in the Conference, which addressed issues such as cooperation in the Baltic Sea Region, impact of Climate Change on the Biodiversity in the Baltic Sea Region, and the Baltic Sea region as an Area of Peace and Security. The Conference was concluded by the unanimous adoption of a Resolution, which is a political tool for directing joint political standpoints and recommendations to the governments of the Baltic Sea Region, the CBSS and the European Union.

Regierungen wollen innovativen KMU helfen

EurActiv berichtet, dass die europäischen Regierungen ihre Anstrengungen verstärken, Innovation zu fördern, bevor die Forschungs- und Innovationsstrategie nächsten Monat veröffentlicht werden sollte. In einem ausführlichen Beitrag befasst sich das *EurActivs* Netzwerk mit der Art und Weise, wie KMU in ganz Europa Teil des Innovationsökosystems sein können. Im Fokus stehen

The Conference re-appointed Christina Gestrin as Chairman of the BSPC and Valentina Pivnenko as Vice-Chairman for the period 2010-2011.

The 20th BSPC will be convened in Helsinki, Finland, 28-30 August 2011. Invitations will be issued in early spring 2011.

Quelle

→ <http://www.bspc.net/page/show/234>

Weitere Informationen

Baltic Sea Parliamentary Conference (BSPC)

→ <http://www.bspc.net/>

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The Nordic Council of Ministers Energy & Transport programme is now open for applications in electric transportation

The first call for proposals under the Energy & Transport programme invites proposals for excellent projects in electric transportation. Initially NOK 12 million will be available for distribution among successful project proposals focused on electric transportation.

The Energy & Transport programme aims at strengthening the position of the Nordic region in the development, testing and use of electric transport solutions. This objective is directly aimed at contributing to the achievement of the Nordic

Prime ministers' vision of the Nordic region as "the Green Valley of Europe"- A global test ground for sustainable transport solutions.

The Nordic region has a history of successful cross-border co-operation in the energy sector. The well-functioning Nordic electricity market and a long-standing history of collaboration in energy research are prime examples. Knowledge, networks, communication channels and routines therefore already exist and will reduce the time spent, as well as increase the quality of work. This represents a major comparative advantage that this programme seeks to build on.

In preparation for this call, and in dialogue with the Nordic energy and transport sectors, the Energy & Transport programme has identified three thematic areas within electric transportation that should ideally be addressed in Nordic unity. These three thematic areas are: technical aspects, framework conditions and business development.

The thematic area "technical aspects" should contain projects designed to strengthen the Nordic region's role in technology development, and has a particular focus on infrastructure solutions. The thematic area "framework conditions" should contain projects that evaluate, strengthen and promote tax schemes, regulations and other incentives to promote electric transportation. Finally the thematic area "business development" should contain projects that look into how to develop a 21st century business model design for Nordic Electric Transportation.

This first call under the Energy & Transport programme is focused on electric transport solutions, but will be followed by further calls in other areas relating to sustainable transportation during the programme period. The time period of the programme is three years - that is, from the beginning of 2010 until the end of 2012.

Quelle

→ <http://www.norden.org/en/news-and-events/news/energy-and-transport-programme-now-open-for-applications>

Weitere Informationen

The Energy & transport programme

→ <http://www.nordicenergy.net/transport>

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Fostering cooperation with Latin American countries in the area of environmental research

In the context of the call for proposals FP7-ENV-2011, this new publication highlights opportunities and measures aiming to foster and support international cooperation in EU-funded environmental research. Particular emphasis is put on cooperation with Latin American countries. The first part of this document contains a comprehensive set of extracts from the main documents composing the Information Package for applicants. The second part briefly presents the 22 projects with Latin American participation which have so far been selected for funding under the Environment theme.

Quelle

→ http://ec.europa.eu/research/environment/index_en.cfm?pg=publications&tab=6

Download

European Commission/ European Research Area/ Environment: Fostering cooperation with Latin American countries in the area of environmental research

→ http://ec.europa.eu/research/environment/pdf/fostering_latin_america_cooperation_in_the_fp7_environment_theme.pdf

Weitere Informationen

Environment (including Climate Change) Calls: FP7-ENV-2011

→ http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=usersite.FP7DetailsCallPage&call_id=366

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus EU

→ <http://www.kooperation-international.de/eu>

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Projektaufrufe für die Bereiche Wissenschaft, Forschung und Technologie des "Programms Zukunftsinvestitionen"

Das französische Ministerium für Hochschulen und Forschung und die „Commissariat général à l’investissement“ haben in einer gemeinsamen Pressemitteilung vom 1. September 2010 verkündet, dass acht Ausschreibungen und zwei Aufrufe zur Interessenbekundung „appels à manifestation d’intérêt“ unter Einbindung der "Agence nationale de la recherche" (ANR) im Rahmen des Programms „Zukunftsinvestitionen“ bereits veröffentlicht wurden. Dieses Programm sieht ein Budget von 21,9 Milliarden € für Hochschulen und Forschung vor.

Die acht Projektaufrufe sind:

- Ausstattung mit Exzellenzeinrichtungen
- Gesellschaften zur Beschleunigung des Technologietransfers (SATT)
- Exzellenz-Labore
- Von Krankenhäusern und Universitäten gemeinsam geführte Institute (IHU)
- Ausformung von "cohortes" mittels großer Instrumente für epidemiologische Forschung
- Nationale Forschungsinfrastrukturen in den Bereichen Biologie und Gesundheit
- Vorindustrielle Demonstrationsanlagen im Bereich Biotechnologie
- Biotechnologien und die Bioressourcen.

Die zwei Aufrufe zu Interessenbekundungen betreffen:

- Institute für technologische Forschung (IRT)
- Thematische Exzellenz-Institute im Bereich karbonfreier Energien (EED).



Bis Ende Herbst 2010 werden folgende Ausschreibungen lanciert:

- Bioinformatik
- Nanobiotechnologien
- Exzellenzinitiativen
- Instituts-Carnots
- Konsortie themenspezifischer Verwertung von Patenten (CVT)
- Institute für technologische Forschung (IRT)
- Thematische Exzellenz-Institute im Bereich karbonfreier Energien (EED).

Quellen

- <http://www.enseignementsup-recherche.gouv.fr/cid53013/investissements-d-avenir-la-quasi-totalite-de-la-premiere-vague-d-appels-a-projets-publiee.html>
- <http://www.kooperation-international.de/frankreich/themes/nc/info/detail/data/50630/>

Download

Investissements d'avenir:

- <http://www.enseignementsup-recherche.gouv.fr/cid51892/investissements-avenir-mode-emploi.html>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Frankreich

- <http://www.kooperation-international.de/frankreich>

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Clusterportrait: Region Paris - Île de France

Mit dem Clusterportrait der Region Paris - Île de France baut *Kooperation international* das Informationsangebot über leistungsstarke internationale Cluster

weiter aus. Zusammen mit Brest, Lyon und Sophia Antipolis bildet das Clusterportal nun vier französische Standorte ab.

Die Region Paris ist mit einem Viertel der Produktionsbetriebe des Landes das bedeutendste Wirtschaftszentrum Frankreichs. Die Hauptstadtregion trägt 30 Prozent zum nationalen Bruttoinlandsprodukt bei und ist Unternehmenssitz von 27 Fortune-500-Unternehmen. Knapp 600.000 Studenten besuchen hier einige der angesehensten Hochschulen Europas.

Paris ist in vielen Industrie- und Technologiebereichen führend. Neun thematisch und regional ausgerichtete Netzwerke (Pôles de compétitivité) verbinden Akteure entlang der Wertschöpfungskette.

Das Clusterportrait Region Paris - Île de France liefert Informationen zu den wirtschaftlichen und akademischen Strukturen. Mit aktuellen Nachrichten und Terminen sowie Dokumenten zur weiterführenden Recherche bietet die Website des Clusterportals einen Einstieg für ein erfolgreiches Engagement in einer der wichtigsten Regionen Europas.

Quelle

- <http://www.kooperation-international.de/frankreich/themes/nc/info/detail/data/49855/>

Ausführliche Clusterinformationen bei Kooperation international

Cluster: Region Paris - Île de France

- <http://www.kooperation-international.de/frankreich/themes/international/clusterlist/region-paris-ile-de-france/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Frankreich

- <http://www.kooperation-international.de/frankreich>

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73 neue FuE-Projekte werden gefördert

Am 30. Juli 2010 wurden die Ergebnisse des 10. Projektaufrufs des FUI (interministerieller Einheitsfond) bekanntgegeben. Aus insgesamt 216 eingereichten Bewerbungen wurden 73 Projekte aus 52 französischen Pôles de compétitivité (PdC) ausgewählt, die der französische Staat mit 63 Millionen Euro unterstützt. Weitere 60 Millionen Euro kommen vom Europäischen Fonds für regionale Entwicklung (EFRE) und den Gebietskörperschaften hinzu.

In ihrer Pressemitteilung betonte die Regierung, dass „die Qualität der Projekte mit jedem neuen Projektaufruf immer besser wird“. Dies sei ein Zeichen für die zunehmend verbesserte Forschung innerhalb der PdC. Seit 2005 wurden 886 FuE-Projekte, in denen insgesamt 15.000 Forscher beschäftigt sind, mit 4,6 Milliarden Euro gefördert. 1,7 Milliarden Euro stammen aus öffentlichen Mitteln, wobei der Anteil der Regierung dabei 1,1 Milliarde Euro betrug.

Eine große Anzahl der ausgewählten Projekte beschäftigt sich mit dem Thema der nachhaltigen Entwicklung, zum Beispiel:

- Das Projekt Greenlion der PdC Plastipolis, Tenerrdis, Viameca und Elastopole im Bereich Energie. Ziel ist die Entwicklung eines neuen Herstellungsverfahrens für Lithium-Ion-Batterien. Mit der neuen Technik soll "die Leistung der Akkumulatoren verbessert und gleichzeitig ein umweltfreundliches Herstellungsverfahren für Elektroden angeboten werden".
- Das Projekt MOGANO-VI (MOteur GAZ Naturel eurO VI) des PdC LUTB zielt auf die Entwicklung von leistungsfähigen Gasantrieben für Schwervertransporter ab.
- Das Projekt Parex.it (PARement EXtérieur pour Isolation Thermique – Außenverkleidung zur Wärmedämmung) der PdC Tenerrdis, Axelera und Capenergie beschäftigt sich mit dem Thema Energieeffizienz von Gebäuden. Ziel ist die Entwicklung eines Außenwandputzes für die Wärmedämmung.
- Ziel des Projektes Depoltex des PdC Up-TEX ist die Entwicklung neuer Geotextilien zur Reinigung von Ablagerungen.

- Im Rahmen seines Projektes Sustains will der PdC Advancity ein Modell als Entscheidungshilfe für die Städteplanung und die Wahl von Energiesystemen entwickeln.

Der nächste Projektaufruf startet 2011.

Quelle

→ <http://www.kooperation-international.de/frankreich/themes/nc/info/detail/data/49655/>

Download

Liste der Projekte mit den jeweiligen Pôles de compétitivité

→ http://www.economie.gouv.fr/presse/communiqués/c300710projets_retenus.pdf

Weitere Informationen

"10ème appel du FUI : 73 nouveaux projets financés",
Pressemappe der Webseite innovation le journal - 02.08.2010

→ <http://www.innovationlejournal.fr/spip.php?article5885>

Ausführliche Clusterinformationen bei Kooperation international

Cluster: Grenoble / Lyon High Tech Cluster

→ <http://www.kooperation-international.de/frankreich/themes/international/clusterlist/grenoble-lyon-high-tech-cluster/>

Cluster: Pôle Mer Bretagne

→ <http://www.kooperation-international.de/frankreich/themes/international/clusterlist/pole-mer-bretagne/>

Cluster: Region Paris - Île de France

→ <http://www.kooperation-international.de/frankreich/themes/international/clusterlist/region-paris-ile-de-france/>

Cluster: Sophia Antipolis

→ <http://www.kooperation-international.de/frankreich/themes/international/clusterlist/sophia-antipolis/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

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Japan

Japan's Government Aims High in Budget Plan

According to *Science Insider* Tatsuo Kawabata, the education minister, unveiled the requested budget of Japan's Ministry of Education for the fiscal year that begins next April, saying that the "extremely severe financial situation" had restricted the ministry's hand. But it is still asking for an overall 4% increase in research spending to 22,3 billion €.

The biggest increases go toward fields identified as priorities by the ruling Democratic Party, of which Kawabata is a member in Japan's parliament. These areas are life sciences, including induced pluripotent stem cell related research and neuroscience; green technologies; and the development of human resources, which the ministry hopes to turn into more scholarships and increased support for young researchers. Other topics on the ministry's agenda are the completion of a next-generation supercomputer and a second Hayabusa asteroid sample retrieval mission. The budget will be finalized in December.

Quelle

→ <http://news.sciencemag.org/scienceinsider/2010/08/japans-government-aims-high.html>

Weitere Informationen

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

→ <http://www.mext.go.jp/english/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Japan

→ <http://www.kooperation-international.de/japan>

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Kanada

Canada's Economic Action Plan Invests in World-Leading Research

Researchers across Canada will benefit from new facilities and equipment, and universities will have more opportunities to develop and attract top scientists, thanks to a major Economic Action Plan investment by the Government of Canada. The announcement was made on August 26 by the Honourable Gary Goodyear, Minister of State (Science and Technology), and the Honourable Lawrence Cannon, Minister of Foreign Affairs, while touring labs at the University of Alberta and the Université du Québec en Outaouais, respectively.

The federal government will invest in the Canada Foundation for Innovation's Leading Edge Fund and New Initiatives Fund. The funding is supporting the renewal and expansion of research infrastructure across Canada that will support exceptional researchers and improve labs and facilities.

The government will invest \$200.5 million in the Leading Edge Fund and the New Initiatives Fund. Funding for this program will be drawn from a \$600-million investment for research excellence as part of Canada's Economic Action Plan. Through these investments, the Government of Canada is working to ensure that the world's best science

As part of Canada's Economic Action Plan, the government announced a \$600-million investment in Budget 2009 to grow Canada's knowledge economy. The government's investment in the Canada Foundation for Innovation (CFI) is strengthening research excellence, while continuing to improve Canada's long-term competitiveness and the quality of life of Canadians.

The Government of Canada's Science and Technology Strategy, announced by Prime Minister Harper in 2007, supports the Leading Edge Fund (LEF) and New Initiatives Fund (NIF). Supporting innovative and transformative infrastructure projects leads to scientific breakthroughs and produces social, economic, environmental and health benefits for Canadians. Open to all disciplines, the LEF and NIF strengthen and enhance Canada's capacity for leading-edge research and technology development.

and innovation opportunities — as well as the world's best researchers — are on Canadian soil.



Quelle

→ <http://www.ic.gc.ca/eic/site/ic1.nsf/eng/05797.html>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Kanada

→ <http://www.kooperation-international.de/kanada>

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developing data to support marketing efforts, and conducting growth performance trials.



Quelle

→ <http://www.nrc-cnrc.gc.ca/eng/news/nrc/2010/08/18/biosystems-irap.html>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Kanada

→ <http://www.kooperation-international.de/kanada>

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Government of Canada supports agricultural research

Canadian livestock could soon have access to a healthier alternative for antibiotics, thanks to an investment made in an Alberta business by the Government of Canada. The announcement was made by the Honourable Tony Clement, Minister of Industry, on August 18.

Canadian Bio-Systems Inc. will receive \$271,177 from the National Research Council of Canada's Industrial Research Assistance Program to gain a better understanding of the optimal level of supplementation of dietary nucleotides in swine, poultry, aquaculture, and dairy cattle diets. The project involves measuring basic health and immune indices,

The Industrial Research Assistance Program provides a range of both technical and business-oriented advisory services along with necessary financial support to qualified innovative Canadian small and medium-sized enterprises. The program is delivered by a field staff of 240 professionals in more than 100 communities across Canada. The National Research Council of Canada is committed to working with small and medium-sized enterprises while they realize their full potential, turning knowledge and innovation into strategic opportunities, jobs and prosperity for all Canadians.

Canada's Economic Action Plan provided new resources of \$200 million to the National Research Council of Canada Industrial Research Assistance Program over two years to support innovative Canadian firms.

USA

Vice President Biden Releases Report on Recovery Act Impact on Innovation

Vice President Joe Biden last month (24 August 2010) unveiled a new report, "The Recovery Act: Transforming the American Economy through Innovation," which finds that the Recovery Act's \$100 billion investment in innovation is not only transforming the economy and creating new jobs, but helping accelerate significant advances in science and technology that cut costs for consumers, save lives and help keep America competitive in the 21st century economy.

According to this new analysis, the U.S. is now on-track to achieve four major innovation breakthroughs thanks to Recovery Act investments:

- Cutting the cost of solar power in half by 2015, putting it on par with the cost of retail electricity from the grid
- Cutting the cost of batteries for electric vehicles by 70 percent between 2009 and 2015, putting the lifetime cost of an electric vehicle on-par with that of its non-electric counterpart

- Doubling U.S. renewable energy generation capacity and U.S. renewable manufacturing capacity by 2012, a breakthrough that would not be possible without the Recovery Act
- Bringing the cost of a personal human genome map to under \$1,000 in five years, allowing researchers to sequence 50 human genomes for the same cost as sequencing just one today.

Vice President Biden was joined at the event by Secretary of Energy Steven Chu and representatives from more than two dozen companies and research institutions that are leveraging Recovery Act investments to help make America a global leader in high-growth industries like electric vehicles and solar power. Recovery Act recipients like Cree, Inc.; Navistar and Pacific Biosciences are using Recovery dollars to make advances that will help put money-saving, energy-saving and, in some cases, even life-saving technology within reach for average Americans.

Overall, the Recovery Act is investing \$100 billion in science, technology and innovation projects across the country ranging from building a nationwide smart energy grid and health information technology infrastructure to growing the emerging electric vehicle industry, expanding broadband access and laying the groundwork for a nationwide high speed rail system.

Quelle

→ <http://www.whitehouse.gov/the-press-office/2010/08/24/vice-president-biden-releases-report-recovery-act-impact-innovation>

Download

The Recovery Act: Transforming the American Economy through Innovation (Full Report)

→ http://www.whitehouse.gov/sites/default/files/uploads/Recovery_Act_Innovation.pdf

Weitere Informationen

A Strategy for American Innovation: Driving Towards Sustainable Growth and Quality Jobs

→ <http://www.whitehouse.gov/administration/eop/nec/StrategyforAmericanInnovation/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus USA

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US team up for biodiversity research centre in Indonesia

The Indonesian Biodiversity Research Center, located at the island's Udayana University, was launched last month (10 August) and is now fully operational, Celly Catharina, a marine programme specialist with the US development agency USAID, in Jakarta, told SciDev.Net. It was established with \$800,000 from the United States, part of a \$136 million partnership focusing on science, environment, society and technology that was agreed by the two nations in June.

The project brings together three Indonesian universities and two in the United States: Old Dominion University, Virginia, and the University of California, Los Angeles (UCLA).

The center's education and research efforts will support the Coral Triangle Initiative, a six-nation agreement among Indonesia, Philippines, Malaysia, Papua New Guinea, East Timor and Solomon Islands focused on conservation and sustainable development of the marine resources of the Coral Triangle.

The goals of the center are to increase the capacity of Indonesians to understand the biodiversity of their own marine environment and to increase the capacity of U.S. scientists to conduct research in the most biodiverse marine envi-

Indonesia is one of the most biodiverse countries in the world with a vast treasure of land-based and marine life, much of it still undiscovered. The archipelago of more than 17,500 islands is estimated to hold around 12 per cent of the mammal species and 19 per cent of the birds on the planet. But the country's researchers published fewer than 50 biodiversity research studies between 1992 and 2003, the most recent period for which there is data, compared with 250 from the Caribbean region and 450 from the United Kingdom — which has far less biodiversity — according to data provided to SciDev.Net by USAID.

ronment in the world, said Paul Barber, UCLA associate professor of ecology and evolutionary biology, who will head the center, Courses will be taught at the center by U.S. faculty for both U.S. and Indonesian graduate students, who would spend a quarter in Bali.

Quellen

- <http://www.scidev.net/en/news/indonesia-us-team-up-for-biodiversity-research-centre.html>
- <http://www.today.ucla.edu/portal/ut/scientists-at-new-research-center-156978.aspx>

Weitere Informationen

- Udayana University
 → <http://www.unud.ac.id/eng/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

- Fokus USA
 → <http://www.kooperation-international.de/usa>

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Richter stoppt Obamas Förderung der Stammzellenforschung

Bionity.com berichtet, dass ein Gericht die von Präsident Barak Obama erweiterte staatliche Förderung der Stammzellenforschung mit menschlichen Embryonen vorläufig gestoppt hat. Zur Begründung hieß es, die Verfügung des Präsidenten vom März vergangenen Jahres verstoße gegen ein Gesetz, das der Kongress

Obama hatte kurz nach seiner Amtsübernahme eine Wende in der Forschungspolitik eingeleitet und von seinem Vorgänger George W. Bush 2001 verfügte Beschränkungen bei der staatlichen Förderung der Forschung mit embryonalen Stammzellen aufgehoben. Bush hatte die staatliche Unterstützung auf wenige bereits bestehende Stammzellenlinien beschränkt, die 2001 bereits existierten.

1996 verabschiedet hatte. Darin wird die staatliche Finanzierung von Stammzellenforschungsprojekten verboten, bei denen menschliche Embryonen erschaffen oder zerstört werden. Richter Royce Lamberth befand weiter, dass Kläger gegen Obamas Verfügung vor Gericht gute Chancen hätten. Ihnen würde aber irreparabler Schaden entstehen, wenn die von Obama erlaubte Praxis bis zu einer Gerichtsentscheidung fortgesetzt werde.

Quelle

- <http://www.bionity.com/news/d/121953/>

Weitere Informationen

- US judge puts temporary block on human embryonic stem cell research
 → http://blogs.nature.com/news/thegreatbeyond/2010/08/us_judge_puts_temporarily_block.html
- US Department of Justice will appeal stem cell injunction
 → http://blogs.nature.com/news/thegreatbeyond/2010/08/us_department_of_justice_will_1.html
- NIH stops its own human embryonic stem cell experiments
 → http://blogs.nature.com/news/thegreatbeyond/2010/08/nih_freezes_its_own_human_embry_1.html
- US government appeals stem cell ruling
 → http://blogs.nature.com/news/thegreatbeyond/2010/08/us_government_appeals_stem_cell.html
- Court appeal aims to shield existing stem cell grants
http://blogs.nature.com/news/thegreatbeyond/2010/09/us_asks_special_consideration_1.html
- Medical deans urge Congress to resume stem cell funding
http://blogs.nature.com/news/thegreatbeyond/2010/09/medical_deans_urge_congress_to_1.html
- Research group asks judge to stay stem cell injunction
 → http://blogs.nature.com/news/thegreatbeyond/2010/09/research_group_asks_judge_to_s_1.html
- Stem cell plaintiffs blast NIH chief, question total funding freeze
 → http://blogs.nature.com/news/thegreatbeyond/2010/09/stem_cell_plaintiffs_blast_nih.html
- No stay for stem cell injunction
 → http://blogs.nature.com/news/thegreatbeyond/2010/09/no_stay_for_stem_cell_injunction.html



Ausführliche Länder- und Themeninformationen bei Kooperation international

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Administration Bolstering Efforts on Innovation and Entrepreneurship

Fostering innovation and entrepreneurship is one of President Obama's top priorities. His national innovation strategy identifies three critical roles for government: investing in the building blocks of long-term economic growth, such as research and human capital; creating the right environment to encourage private sector investment; and harnessing innovation to address national priorities such as clean energy and a more efficient healthcare system. The Administration has now taken important steps to accomplish these goals.

First, the President unveiled his proposal (8 September 2010) to expand, simplify, and permanently extend the Research and Experimentation Tax Credit in order to help companies create good jobs in America today and increase productivity and growth in the future. The President's proposal would devote about \$100 billion to encourage private-sector R&D in the United States, and it would make that policy permanent so that businesses can count on it in the years ahead.

Second, on September 2nd Secretary of Commerce Gary Locke convened the first meeting of the National Advisory Council on Innovation and Entrepreneurship. This council of leading entrepreneurs, investors, and university presidents had a lively discussion on ways in which the public and private sectors could work together to meet some of the Nation's biggest challenges and reenergize the Nation's economic momentum. Members of the council proposed ideas for celebrating entrepreneurs and expanding access to capital for high-

growth firms. Chief of Staff Rahm Emanuel also addressed the group, a clear indication of how important this issue is to the Administration.

Third, the National Science Foundation (NSF) issued a solicitation for a new program called Accelerating Innovation Research (AIR). This program will support researchers that have made an important fundamental advance in science and engineering but who require additional funding to help commercialize their research. For example, a researcher might use the funding to build a prototype or scale-up a new manufacturing process. AIR will also support expanded collaborations between NSF-funded centers and the private sector. These collaborations will help commercialize university research, create jobs, and prepare students to become successful entrepreneurs.

Finally, the National Institute of Standards and Technology (NIST) provided a letter to OSTP on the use of e-commerce to promote the commercialization of federally-funded research. A number of companies, foundations, and non-profit organizations are interested in using online marketplaces and standardized agreements to accelerate the commercialization of research. NIST, the agency responsible for interpreting the "Bayh-Dole" legislation that governs technology transfer of federally-funded research, has concluded that the statute permits using "e-commerce or other creative approaches, especially where such mechanisms can facilitate reduction of transaction costs associated with licensing and promote the translation of federally funded technology."

Quelle

→ <http://www.whitehouse.gov/blog/2010/09/08/administration-bolstering-efforts-innovation-and-entrepreneurship>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus USA

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Australien

Australia faces foreign student shortfall

Geoff Brumfiel reports on *The Great Beyond*, that foreign students are turning away from Australia. According to new numbers from the nation's Department of Immigration and Citizenship, applications for student visas have dropped by 11.5% in the 2009-10 academic year. The drop mirrors a decline in the number of foreign students studying in Australia, which has fallen by roughly 16% to roughly 270,000 this year.

The National Tertiary Education Union, the country's main union for academic staff, says that tightened immigration rules and campus attacks on foreign students have led to the declines. If they continue, they will soon threaten university incomes, the group warns, Brumfiel added in his article.

Quelle

→ http://blogs.nature.com/news/thegreatbeyond/2010/09/australian_face_foreign_studen.html

Weitere Informationen

Department of Immigration and Citizenship

→ <http://www.immi.gov.au/>

National Tertiary Education Union

→ <http://www.nteu.org.au/>

Falling international student numbers threatens viability of universities

→ <http://www.nteu.org.au/blog/view/post/postId/7074>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Australien

→ <http://www.kooperation-international.de/australien>

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Brasilien

Brazil to Invest More Than \$100 Million to Combat Climate Change

The National Fund on Climate Change already has R\$ 200 million (\$ 113 million) for investment in mitigation and adaptation actions to the effects of climate change in Brazil in 2011. The announcement was made by the Secretary for Climate Change and Environmental Quality of the Ministry of the Environment, Branca Americana. Branca explained that the so-called "Climate Fund" will receive part of the oil exploitation profits. According to the Secretary, the steering committee of the Fund will be installed later this year.

The Climate Fund was created at the end of last year and is the world's first initiative to use oil resources to combat climate change. With a budget that could reach R\$ 1 billion per year, the money from the fund will be applied in research and actions for mitigation and adaptation to climate change, helping vulnerable regions such as the semi-arid and coastal regions in Brazil. The announcement was made in August at an international meeting on semi-arid regions held in Brazil's poor northeast region, where officials said climate change is expected to increase flooding and droughts.

Quelle

→ <http://www.mma.gov.br/ascom/ultimas/index.cfm?id=6085>

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Second International Conference on Climate, Sustainability and Development in Semi-arid Regions (ICID 2010)

→ <http://www.iisd.ca/yimb/climate/icid2010/>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Brasilien

→ <http://www.kooperation-international.de/brasilien>

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China

China to double science communicators by 2020

China will double its number of science communicators to four million by 2020, according to the Chinese Association for Science and Technology. The association will train and support professional communicators to work in rural areas and museums. It also hopes to boost the number of advanced professionals in science writing; research and development; and science industry management, as outlined in the plan, '2010–2020 China's Popular Science Talent Plan'. According to the association's press release, China believes there is a shortage of science communicators — or 'science popularisation professionals' — in the country, and especially in rural areas, where it plans to have 1.7 million.

The Chinese government officially announced the Medium and Long-term Talent Development Plan (2010–2020) in early June. Zhan Zhengmao, director of the China Institute of Science Communication, said: "Increasing the numbers of science popularisation professionals is one of the supporting measures of that plan". According to the association, the central government will invest 300 million yuan (around US\$44 million) this year to reward excellent science communication groups and individuals in rural areas, and special attention will be given to those facilitating low-carbon agriculture and modern agricultural knowledge.

Quelle

→ <http://www.scidev.net/en/news/china-to-double-science-communicators-by-2020-1.html>

Weitere Informationen

China plans to transform from labor-rich to talent-intensive

→ http://www.gov.cn/english/2010-06/06/content_1621832.htm

China Association for Science and Technology (CAST)

→ <http://english.cast.org.cn/>

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Fokus China

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Lebenswissenschaften in China haben noch Aufholbedarf

Eine neue Studie zum Stand der Lebenswissenschaften in China kommt zu dem Ergebnis, dass die Lebenswissenschaften entgegen manchen anderslautenden Einschätzungen gegenwärtig noch nicht zu den Stärken Chinas zählen. In dem Bericht werden die chinesischen wissenschaftlichen und technologischen Aktivitäten in den Lebenswissenschaften und ihre internationale Wettbewerbsfähigkeit unter Verwendung quantitativer Indikatoren wie FuE-Ausgaben, Publikations-, Patent- und Export-Import-Daten analysiert.

Weder bei wissenschaftlichen Publikationen noch bei Patenten weist China im Vergleich mit anderen Ländern in den Lebenswissenschaften Vorteile auf. Bei der Betrachtung wissenschaftlicher Publikationen zeigen die Felder organische Chemie und Traditionelle Chinesische Medizin ein im weltweiten Vergleich überdurchschnittliches Aktivitätsniveau, aber Biotechnologie oder Pharmazie schneiden leicht unterdurchschnittlich ab. Medizintechnik sowie insbesondere Medizin liegen deutlich unter dem Weltdurchschnitt. Zwar verbessert China seine internationale Position in den Lebenswissenschaften allmählich, aber die Publikationsleistungen bleiben bisher hinter der chinesischen Entwicklung in anderen Wissenschaftsfeldern zurück.

Die Studie „Frietsch, R. & Meng, Y. (2010): Indicator-based reporting on the Chinese innovation system 2010 – Life sciences in China“ wurde im Auftrag des Bundesministeriums für Bildung und Forschung (BMBF) vom Fraunhofer-Institut für System- und Innovationsforschung (FhG-ISI) durchgeführt und ist frei verfügbar (vgl. Download).

Quelle

→ Internationales Büro des BMBF

Download

Frietsch, R. & Meng, Y. (2010): Indicator-based reporting on the Chinese innovation system 2010 – Life sciences in China

→ http://www.isi.fraunhofer.de/isi-de/p/download/diskpap_innosysteme_policyanalyse/discussionpaper_26_2010.pdf

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus China

→ <http://www.kooperation-international.de/china>

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Die regionale Dimension des chinesischen Innovationssystems

Eine neue Untersuchung zur regionalen Dimension von Wissenschaft und Innovation in China kommt zu dem Ergebnis, dass sich das chinesische Innovationssystem weiterhin in einer Übergangsphase befindet, sich die regionalen Ungleichgewichte aber trotz des großen Gesamtzuwachses nicht weiter vergrößern, sondern allmählich verringern. Dabei zeigt sich der Aufholtrend chinesischer Inlandsgebiete gegenüber den Küstenregionen deutlicher im Bereich staatlich kontrollierter Aktivitäten als im Bereich privater Unternehmensaktivitäten.

In der Studie wird die regionale Dimension von FuE-Aktivitäten in China in Hinblick auf finanziellen und personellen Einsatz bei FuE-Prozessen, wissenschaftliche Resultate, technologische Ergebnisse und Exportleistung in technologienahen Feldern analysiert. Die Studie untersucht, inwiefern die allgemeinen Trends der regional unausgewogenen sozio-ökonomischen Entwicklung diejenige von Wissenschaft und Innovation beeinflussen, wie sich die regionale Konzentration verschiedener FuE-Aktivitäten entwickelt, und ob das chinesische Innovationssystem insgesamt heterogener oder homogener wird.

High-Tech-Aktivitäten sind häufig nach wie vor an einigen Schlüsselstandorten konzentriert, aber Aktivitäten im Medium-Tech-Bereich sind regional sehr viel weiter verbreitet. Allerdings scheinen die Verbindungen zwischen wissenschaftlichen und technologischen Aktivitäten abseits der bekannten Zentren nach wie vor eher schwach zu sein.

Die Studie „Kroll, H. (2010): Indicator-based reporting on the Chinese innovation system 2010 – The regional dimension of science and innovation in China“ wurde im Auftrag des Bundesministeriums für Bildung und Forschung (BMBF) vom Fraunhofer-Institut für System- und Innovationsforschung (FhG-ISI) durchgeführt und ist frei verfügbar (vgl. Download).

Quelle

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Kroll, H. (2010): Indicator-based reporting on the Chinese innovation system 2010 – The regional dimension of science and innovation in China

→ http://www.isi.fraunhofer.de/isi-de/p/download/diskpap_innosysteme_policyanalyse/discussionpaper_25_2010.pdf

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Dänemark

Historically High Intake to Danish Universities

This year, more than 23,000 young people can start a university education. It means that Danish universities are taking in 13 per cent more students than last year. About 8,000 are rejected, but in percentage terms fewer are turned down than last year. Natural sciences show the largest increase.

"It is really gratifying to see that so many young people can start at the university after the summer holidays. We are much in need of highly educated people, and a large number of students being admitted to the universities is a prior condition for our ability to have a qualified workforce in future," says Science Minister Charlotte Sahl-Madsen.

Quelle

→ <http://en.vtu.dk/press/2010/historically-high-intake-to-danish-universities>

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Fokus Dänemark

→ <http://www.kooperation-international.de/daenemark>

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Finnland

Finland is ranked fourth in digital economy rankings

The Economist Intelligence Unit's annual rankings put Finland among the world's leading countries for using ICT for economic and social benefit.

Finland has been ranked fourth in the Economist Intelligence Unit's annual assessment of the ability of the world's 70 largest economies to absorb information and communications technology (ICT) and use it for economic and social benefit. Last year Finland was ranked in tenth place.

The digital economy rankings assess the quality of a country's ICT infrastructure and the ability of its consumers, businesses and governments to use ICT to their benefit. The rankings also provide companies that wish to invest or trade internationally with an overview of the world's most promising business locations from an ICT perspective.

Finland is singled out in the report for enshrining Internet access as a basic human right and for its high level of utilizing radio frequency identification (RFID), a wireless data identification and capturing technology. Finnish companies are among the world's earliest adopters of RFID technology, with a 8% utilisation rate compared to 3% in the EU27 countries. Finland also scored highly for its business and legal environment, consumer and business adoption, and social and cultural environment. Overall, Finland improved its ranking significantly from 10th.

Economist Intelligence Unit's examined more than 100 separate criteria within the wider categories of connectivity and technology infrastructure, business environment, social and cultural environment, legal environment, government policy and vision, and consumer and business adoption.

Quelle

→ <http://www.tekes.fi/en/community/News/482/News/1344?name=Finland+is+ranked+fourth+in+digital+economy+rankings>

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Finnish universities outline science and education policy

Universities Finland (Unifi), which represents all Finnish universities, has published its joint science and education policy strategies for the next Government. Finland will receive a new Government after the parliamentary elections in 2011.

The universities propose that Finland invest in basic research and allocate sufficient core funding to universities. It is not possible to achieve a high level of education and cutting-edge research without substantial investments. Systematic and coordinated support to research infrastructures is also one of the keys to Finland's success.

According to Unifi, higher education is also of fundamental importance to Finland's success. Finland is known worldwide for its education and scientific research. The vitality of Finnish universities will contribute directly to the success of Finnish society.

Quelle

→ <http://www.aka.fi/en-gb/A/Academy-of-Finland/Media-services/Newsletter/Academy-of-Finland-Newsletter-August-2010/#finnish>

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for specific research fields. For instance, a national strategy for health research would be well justified.

Quelle

→ <http://www.aka.fi/en-gb/A/Academy-of-Finland/Media-services/Newsletter/Academy-of-Finland-Newsletter-August-2010/#finnish>

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Academy of Finland steps up funding to tackle grand challenges facing the global community

The Board of the Academy of Finland wants to allocate more Academy funding to research fields that are vital to tackling the major challenges facing the global community. These 'Grand Challenges' that are incorporated in the building of the European Research Area (ERA) include climate change, environmental problems and ageing, among others.

According to the Academy Board, Finnish researchers can significantly contribute to tackling grand challenges, and they should therefore be provided with the best possible resources to conduct research in these fields. Finnish researchers must also more actively engage in European research collaboration in these fields. Later this autumn, the Academy will decide on those grand challenges and funding opportunities that will be given increased allocations.

The grand challenges that will receive a national focus should also be included in a national science strategy. The Academy Board recommends that such a strategy be drafted. The national science strategy should also include strategies

Innovation activity still more common in manufacturing than in service enterprises

Nearly one half of enterprises employing at least ten persons practised innovation activity related to product and process innovations in 2006 - 2008. The majority of these also introduced product or process innovations. During the time period in question, innovation activities were most often directed to research and development and purchases of machines and equipment. Enterprises reported innovation expenditure to the tune of around seven billion € in 2008. The data derive from a survey of Statistics Finland concerning innovation activity among enterprises.

Quelle

→ http://www.stat.fi/til/inn/index_en.html

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Fokus Finnland

→ <http://www.kooperation-international.de/finnland>

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Intel and Nokia Establish Joint Research Laboratory in Oulu

Intel and Nokia will establish a collaborative research laboratory in Oulu, Finland. The Intel and Nokia Joint Innovation Center, Oulu will be located in the Center for Internet Excellence (CIE) at the University of Oulu.

The initial framework brings about two dozen researchers sourced from the local research community to work at the co-laboratory for three years. The lab's research activities have started gradually during August. Initially, the lab will focus on creating new and compelling Internet user experiences that leverage the rapidly increasing processing and graphics power of mobile devices. The first such research project looks to use graphical 3D technology to create immersive mobile interfaces.

"The University of Oulu's focus on future telecommunications solutions as well as electronics and photonics made it the perfect location for the Intel and Nokia Joint Innovation Center," says Justin Rattner, Intel chief technology officer and director of Intel Labs.

The co-lab parties believe in the potential for 3D Internet to become the next major break-through in mobile user experience. The Oulu region hosts a strong 3D Internet development community, and technologies such as the open-source virtual reality platform realXtend have been created as a result of 3D Internet research in Oulu.

Center for Internet Excellence provides hosting and operational management for the Intel and Nokia Joint Innovation Center, Oulu with Intel and Nokia providing research and technology expertise and support. In addition to co-lab parties' financing, additional funding has been applied from Tekes, the Finnish Funding Agency for Technology and Innovation. Tekes has a long history in collaborating both with Nokia and University of Oulu and considers Intel's and Nokia's co-

research as an excellent example of exploitation and further development of the existing high-level knowledge pool.

Quelle

→ <http://www.tekes.fi/en/community/News/482/News/1344?name=Intel+and+Nokia+Establish+Joint+Research+Laboratory+in+Oulu>

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Indien

Clusterportraits: Hyderabad und Pune

Die Portraits zu den indischen Clustern Hyderabad und Pune erweitern ab sofort das Informationsangebot über leistungsstarke Cluster auf dem Clusterportal von *Kooperation international*. Mit dem Cluster Bangalore wird die indische Clusterlandschaft nun mit drei dynamischen Standorten abgebildet.

Hyderabad ist mit fast 4,1 Millionen Einwohnern die sechstgrößte Stadt auf dem Subkontinent. Mit einem Bruttoinlandsprodukt (BIP) von geschätzten 60 Milliarden US-Dollar (2008) ist die "City of Pearls" eine der reichsten Städte Indiens. Cyberabad, wie die Stadt wegen ihrer hohen Dichte an IT-Unternehmen auch genannt wird, beherbergt etliche internationale Großkonzerne, insbesondere aus dem Bereich IT und Business Process Outsourcing (BPO). Microsoft betreibt sein größtes Entwicklungslabor außerhalb der USA in Hyderabad und auch Facebook, Google, IBM, Amazon, Electronic Arts, HP, Oracle und andere sind im Clustergebiet aktiv. Das bekannte indische IT-Unternehmen Mahindra Satyam hat seinen Hauptsitz in Hyderabad. Andere bekannte indische

Firmen wie Infosys, Tata Consultancy Services oder Wipro haben hier Zweigstellen.

Die Pharma- und Life-Sciences-Branche ist mit Firmen wie Dr. Reddy's, Aurobindo oder Matrix Laboratories noch eher national geprägt. Allerdings steigt auch die Zahl der internationalen Pharmaunternehmen wegen der attraktiven Standortbedingungen stetig.

Die westindische Stadt Pune ist weltweit einer der wichtigsten Standorte der Automobilindustrie. Fast alle großen Automobilkonzerne sind im Clustergebiet mit Produktionswerken vertreten. Im Industriepark Chakan, 30 Kilometer nördlich von Pune gelegen, produzieren u.a. VW, Mercedes-Benz, General Motors und Bajaj Auto. Die großen Kraffahrzeughersteller haben außerdem viele Zulieferer nach Pune angezogen, so dass die komplette Wertschöpfungskette abgedeckt ist. Diese hohe Dichte an Akteuren, die Kooperation über einen Interessen- und Forschungsverband sowie die exzellenten Bildungs- und Forschungseinrichtungen machen Pune zu einem herausragenden Standort der Automobilindustrie. Dies trifft auch auf den IT- und Outsourcing-Bereich zu. Großkonzerne wie IBM, Wipro oder Infosys haben sich gemeinsam mit etlichen KMU um das International Institute of Information Technology (I2IT) angesiedelt. Auch der Biotechnologiesektor gewinnt in Pune zunehmend an Stärke. Dank hervorragender Standortbedingungen entwickelt sich das Clustergebiet zu einer ernststen Konkurrenz für die führenden indischen Biotech-Hubs Bangalore und Hyderabad.

Quelle

→ <http://www.kooperation-international.de/indien/themes/nc/info/detail/data/49307/>

Ausführliche Clusterinformationen bei Kooperation international

Cluster Hyderabad

→ <http://www.kooperation-international.de/indien/themes/international/clusterlist/cluster-hyderabad/>

Cluster Pune

→ <http://www.kooperation-international.de/indien/themes/international/clusterlist/cluster-pune/>



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New report shows impact of UK/India research is growing

A new report produced by Evidence, a Thomson Reuters business, on behalf of Research Councils UK (RCUK) shows collaboration between UK and Indian researchers is growing and suggests that India will become increasingly important to the global research community.

The advantages of building strong research partnerships between the two countries are clear. Both countries are in a strong position to maximise opportunities arising from the sharing of expertise.

The report Bibliometric study of India's research output and international collaboration uses bibliometric indicators to measure the number of citations a research paper receives world-wide. The findings show that collaboration with the UK results in Indian research papers being more highly cited than Indian research in general.

RCUK opened an Office in India in 2008 with the aim of bringing about a step change in research partnerships between the two countries. It also makes it easier for the best researchers in the UK and India to develop high-quality and lasting partnerships that drive growth and prosperity.

Key findings of the report include:

- UK collaboration with India is strong compared to other nations and takes place in a diverse range of UK institutions across a variety of subject areas.

- The most highly cited India-UK collaborative research occurs across a range of subject areas including biological and medical sciences, business, social sciences, humanities, and is particularly strong in the physical sciences.
- The UK research base is in a position of strength, both in terms of volume of activity and the impact that UK research has.
- The strength of the UK research base could be leveraged to take advantage of opportunities for further collaboration.

The report analyses data up to 2008, and India's science funding has risen dramatically since then. In 2009 government spending on research and development rose by 17 per cent over 2008. "It follows that India's citation output has the potential to increase dramatically over the next decade," the report concludes.

Quellen

- <http://www.india.rcuk.ac.uk/news/260710.htm>
- <http://www.scidev.net/en/news/india-s-science-output-growing-fast-confirms-report.html>

Download

Bibliometric Study of India's Research Output and International Collaboration

- <http://www.india.rcuk.ac.uk/reslandscape/bibliometrics.htm>

Weitere Informationen

Research Councils UK Office in India

- <http://www.india.rcuk.ac.uk/default.htm>

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Fokus Indien

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Kolumbien

Colombia may fund science from tax on resources

Colombia is preparing a reform of its 1991 Constitution that, if approved by Congress, would boost its science funding and increase its investment in research in less developed regions of the country. Under the reform, ten per cent of the royalties from both government and private exploitation of oil, coal, gold, platinum and new minerals would be invested in research. This would mean an influx of at least US\$250 million a year — a huge amount for the country — according to Jaime Restrepo, recently appointed director of the Department of Science, Technology and Innovation (Colciencias), by the newly-elected president of Colombia, Juan M. Santos who took office last month.

Quelle

- <http://www.scidev.net/en/news/colombia-may-fund-science-from-tax-on-resources.html>

Weitere Informationen

Colciencias

- <http://www.colciencias.gov.co/>

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Fokus Kolumbien

- <http://www.kooperation-international.de/kolumbien>

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Norwegen

Energy research gets infusion of social science

The Research Council will be introducing a stronger social science component into research on environment-friendly energy. To this end, three new FME Centres for Social Science-related Energy Research (FME Samfunn) will now be established. The centres are a supplement to the eight FME centres established in 2009 in the areas of offshore wind power, CO2 management, solar energy, bioenergy, environment-friendly energy systems and energy-efficient buildings.

“The objective is to develop strong research groups in the field of social science-related energy research that can provide user groups in the ministries, directorates and trade and industry with fact-based knowledge about the impacts of energy-policy measures before decisions are taken to implement them,” says Tone Ibenholt, coordinator of the FME scheme at the Research Council. Thus, dissemination of research results will be an important task for the three new centres. The funding announcement for FME Samfunn centres is part of the Research Council’s efforts to follow-up the 2010 national budget, which signals a need to increase the focus on social science-related energy research.

The Research Council has identified several key areas that the FME Samfunn centres are to cover, including development of models and energy scenarios for analysis of energy markets, studies of the impacts of international climate and energy policy in Norway, energy use and analyses of instruments for achieving policy objectives in the energy sphere, and innovation and value creation in the areas of renewable energy, energy-efficient solutions and CCS.

The FME Samfunn centres will be selected primarily on the basis of their relevance to key user groups and the scientific merit of their research. The centres chosen for funding will be announced in February 2011. Each centre will receive an allocation of NOK 5-10 million per year for an initial five-year period. An evaluation will be conducted to determine whether funding is to be continued for an additional three years.



Quelle

→ http://www.forskningsradet.no/en/Newsarticle/Energy_research_gets_infusion_of_social_science/1253961272887?WT.mc_id=nyhetsbrev-ForskningsradetEngelsk

Weitere Informationen

Centres for Environment-friendly Energy research (FME)

→ <http://www.forskningsradet.no/servlet/Satellite?c=Page&cid=1222932140849&p=1222932140849&pagename=energiserter%2FHovedsidemal>

Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Norwegen

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Centres of Excellence scheme a success

The Norwegian Centres of Excellence (SFF) scheme has been successful and has yielded long-term positive effects, according to a recently published evaluation report. The Centres of Excellence scheme reaps particular praise for its enhancement of researcher recruitment, and has clearly led to more international collaboration. It has also helped to increase the level of national and interdisciplinary cooperation.

“One particularly positive aspect of the Centres of Excellence scheme is that it has had a lasting impact on the division of tasks between Norwegian universities,” says Anders Hanneborg, Executive Director of the Division for Science at the Research Council of Norway.

The Research Council of Norway has initiated a Centres of Excellence (CoE) scheme with the intention of bringing more Norwegian researchers and research groups up to a high international standard. The centres are affiliated with Norway’s top universities and premier independent research institutes.

The evaluation was carried out by the Norwegian Institute for Studies in Innovation, Research and Education (NIFU STEP), on commission from the Research Council of Norway.

Quelle

→ www.forskingsradet.no/en/Newsarticle/Centres_of_Excellence_scheme_a_success/1253961975369?WT.mc_id=nyhetsbrev-ForskingsradetEngelsk

Weitere Informationen

Norwegian Centres of Excellence

→ <http://www.forskingsradet.no/servlet/Satellite?c=Page&cid=1224067001813&p=1224067001813&pagename=sff%2FHovedsidemal>

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Research Council to review use of anonymous referees

In response to the implementation of the recently amended national Freedom of Information Act, the Research Council will review its practice of keeping the identities of referees who assess grant proposals confidential. A peer review process in which the identities of the referees remain anonymous is generally recognised as the best way to assess scientific work. The reasoning is that it ensures a higher quality of assessment because the referees can express themselves more freely. The practice of not disclosing the identities of the referees who assess articles and grant proposals is commonly employed by scientific journals, the EU system and most research-funding organisations throughout the world.

The Research Council considers it essential to obtain high-quality referee assessments to enable programme boards and committees to take good decisions

on a sound scientific basis. The promise of anonymity may also be an important factor in recruiting well-qualified referees. Many researchers today use a considerable amount of time on assessing grant proposals and drafts of articles.

The referees used by the Research Council to assess grant proposals are leading researchers in their fields and very often come from outside Norway. Referees may be asked to submit individual assessments or may be convened as a group to prepare a joint panel assessment.

Research Council guidelines state that the names of the referees are not to be made known to the applicants prior to or during the assessment process. According to current practice, a complete list of the names of the referees used for a specific call for proposals is published only after the decision on grant allocations has been taken. No information regarding which referees have assessed the individual proposals is provided.

However, in light of the recent amendment of the Freedom of Information Act the practice of anonymous referees must now be reassessed. It must be determined whether this practice is still permissible under the new provisions of the act, and if so, on what grounds it may be exercised. The issue will initially be assessed purely in terms of the legal considerations.

Quelle

→ http://www.forskingsradet.no/en/Newsarticle/Research_Council_to_review_use_of_anonymous_referees/1253961511808

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Österreich

Starke Stimmen für die Forschung: vier Nominierungen für den Forschungsrat

Wissenschafts- und Forschungsministerin Dr. Beatrix Karl hat am 7. September 2010 in einem Pressegespräch über "ihre" vier Kandidat/innen für den Rat für Forschung und Technologieentwicklung (RFTE, kurz Forschungsrat) informiert. Die vier Seitens des BMWF nominierten Kandidatinnen und Kandidaten seien "vier starke Stimmen für die Forschung", ist Karl überzeugt: Univ. Prof. Dr. Renee Schroeder (Max Perutz Labs, Universität Wien), Univ. Prof. Dr. Marianne Hilf (Universität St. Gallen), Univ. Prof. Dr. Markus Hengstschläger (Meduni Wien) und Rektor Prof. Dr. Peter Skalicky (TU Wien).

Bei den Nominierungen sei es ihr vor allem darum gegangen, vier Persönlichkeiten auszuwählen, "die dem Namen Forschungsrat absolut gerecht werden, die selbst den Forschungsbetrieb von innen kennen und mit den Bedürfnissen der Forscherinnen und Forscher vertraut sind". Ferner war der Ministerin wichtig, vier Wissenschaftlerinnen und Wissenschaftler für diese Aufgabe zu gewinnen, die sowohl die nationale als auch internationale Dimension abbilden. Ein weiteres Kriterium war ein Frauenanteil von zumindest 50 Prozent sowie ein "Mix aus renommierten, erfahrenen Wissenschaftlern und frischem Wind, also auch neuen Gesichtern".

Quelle

→ http://bmf.gv.at/startseite/mini_menu/presse_und_news/news_details/cHash/69d5a9e7691a20b818c543ffc42242d1/article/vier-starke-stimmen-fuer-die-forschung-beatrix-karl-praesentiert-ihre-vier-nominierungen-fuer-de/

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Sommerschule Alpbach 2010: Neue Vorschläge für Weltraummissionen gegen Klimawandel

57 junge Leute aus 17 Mitgliedsstaaten der Europäischen Weltraumorganisation ESA, darunter 10 von der Österreichischen Forschungsförderungsgesellschaft (FFG) geförderte Studierende aus Graz, Innsbruck und Wien, entwickelten vom 27. Juli bis 5. August während der Sommerschule Alpbach 2010 neue Weltraummissionen zum besseren Verständnis des Klimawandels.

Vier Teams von Studierenden erarbeiteten unter Leitung von Tutoren konkrete Vorschläge für neuartige Satellitenmissionen: Team Rot wollte einen aktiven Polarbahn-Satelliten Laserpulse aussenden und von 15 auf gegenläufigem Orbit kreisenden Satelliten reflektieren lassen, um mittels Pulsveränderungen den Wasserdampfgehalt der unteren Stratosphäre zu bestimmen. Team Orange konzentrierte sich bei seinem Projekt auf die Beobachtung von Flugzeugkondensstreifen und den sich daraus bildenden Zirruswolken. Team Grün beabsichtigte, sechs Satelliten einzusetzen, um den Anteil des bei Wald- und Buschbränden produzierten Kohlendioxids durch Infrarot-Messungen zu ermitteln; und Team Blau schließlich schlug zum besseren Verständnis des regionalen und globalen Wasserkreislaufs vor, einen mit doppelt polarisierten Zweifrequenzradar ausgerüsteten Satelliten Niederschläge beobachten zu lassen.

Die Sommerschule Alpbach wird von der FFG gemeinsam mit der European Space Agency (ESA) und den nationalen Raumfahrtorganisationen ihrer 17 Mitgliedsstaaten organisiert. Finanziell unterstützt wird die Sommerschule von Austrospace, der Vereinigung der heimischen Raumfahrtindustrie. Ein traditioneller Partner ist das International Space Science Institute (ISSI).

Quelle

→ <http://www.ffg.at/content.php?cid=29&sid=466>

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Bericht Sommerschule Alpbach 2010

→ <http://www.ffg.at/getdownload.php?id=4867>

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Republik Korea (Südkorea)

International Student Service Center established

The Ministry of Education, Science and Technology (MEST) established the International Student Service Center at the National Institute for International Education for foreign students studying in Korea. The opening ceremony was held on April 6, 2010 joined by the officers from the foreign missions and foreign students in Korea. The purpose of the opening of the International Student Service Center is to provide consultation services for 75,000 foreign students in Korea so that they can address their problems or difficulties and feel at home while they stay in Korea.

The consultation service will deal with all sorts of issues related to studying environment in Korea for foreign students, including the Korean education system for foreign students, scholarship programs, applications for colleges and departments, entrance exam and living environment (such as dormitory, employment, etc.) and so on. In addition, MEST opened a new menu, "Consultation for Studying Abroad," at the website for foreign students to provide online counseling service for foreign students.

Quelle

→ <http://www.swissinnovation.org>

Weitere Informationen

"Consultation for Studying Abroad," at "Studying in Korea"

→ <http://www.studyinkorea.go.kr>

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Fokus Südkorea

→ <http://www.kooperation-international.de/index.php?country=119&topic=0>



Schweden

Need for renewal in Swedish Social Science Research on Sustainability

Swedish social science research within the area of sustainable development has much to offer international research and society. External funding within the area has increased fourfold over the last ten years, but to realise the full potential of the research new ideas, courageous initiatives and commitments are required from all of the stakeholders. These were the views of the international panel that evaluated Swedish social science research on sustainable development over the period 1998-2008.

The panel observed an increase in funding and in the number of doctoral students, which is positive, and also saw a trend towards more interdisciplinary research. The panel also noted a rapid growth in social science research on climate, ecosystem management, environmental economics and general environmental policy tools.

At the same time the panel also identified several tensions within the research area that can threaten the area's potential. Natural science perspectives can make the identification of important social and economic research issues more difficult. Conservative funding forms and short-term demands for immediately applicable results provide increasingly diminishing avenues for new research concepts. University career structures and a lack of dialogue between researchers and users may also threaten development. The panel recommends distinct commitments by all stakeholders and believes that new concepts and courageous commitments must be given more emphasis.

The evaluation was commissioned by the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning The Swedish Energy Agency, the Swedish Environmental Protection Agency, Riksbankens Jubileumsfond and the Swedish Research Council The panel that performed an independent evaluation of the research area comprised renowned researchers and representatives of users of the research from India, the USA and Europe, led by Professor Karen O'Brien from the University of Oslo.

Quelle

→ http://www.formas.se/formas_templates/Page___6105.aspx

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Mobilising Swedish Social Science Research on Sustainability

→ http://www.formas.se/formas_shop/ItemView___6119.aspx?epslanguage=EN

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Südafrika

Southern Africa failing to innovate, says study

Countries in southern Africa are producing so few scientific publications and patents that the region's social and economic progress is threatened, and it could fail to meet its Millennium Development Goals, says a new study ("A scientometric assessment of the Southern Africa Development Community: science in the tip of Africa").

The South African Development Community (SADC), comprising 15 countries, produced only around 0.7 per cent of the world's share of scientific publications between 2004 and 2008. In comparison, India produced 2.9 per cent and Latin

American countries 4.1 per cent of the world's output in the same period. About 79 per cent of SADC's publications came from South Africa but the country spent less than 1 per cent of its GDP on research and development compared with 3–4 per cent by more developed countries. The next most productive country, although 14 times less productive than South Africa, was Tanzania, but Mozambique and the Seychelles showed the highest growth at almost 80 per cent, while output from the Democratic Republic of Congo and Zimbabwe has declined since 1998.

"There is still a view in South Africa, and other African countries, that research is a luxury that only the West can afford," Anastassios Pouris, author of the study and director of the Institute for Technological Innovation at the University of Pretoria, South Africa, told SciDev.Net. "One only has to look at countries like China or Singapore to know this is not the case."

A focus on traditional disciplines in southern Africa — agriculture and animal and plant sciences — also hampers innovation, which is more likely in fields such as engineering and molecular biology, reports the study, published in the August issue of Scientometrics ("A scientometric assessment of the Southern Africa Development Community: science in the tip of Africa").

Quelle

→ <http://www.scidev.net/en/news/southern-africa-failing-to-innovate-says-study-1.html>

Download

A scientometric assessment of the Southern Africa Development Community: science in the tip of Africa (Journal Abstract)

→ <http://www.springerlink.com/content/w3gu8t04t6178518/>

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Fokus Südafrika

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