



**Berichterstattung zur Forschungs-, Bildungs-,  
Technologie- und Innovationspolitik weltweit**

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## IPCC: Synthesis Report of the Fifth Assessment Report

The Synthesis Report (SYR) of the IPCC Fifth Assessment Report (AR5) provides an overview of the state of knowledge concerning the science of climate change, emphasizing new results since the publication of the IPCC Fourth Assessment Report in 2007 (AR4). The SYR synthesizes the main findings of the AR5 (IPCC) based on contributions from Working Group I (The Physical Science Basis), Working Group II (Impacts, Adaptation and Vulnerability), and Working Group III (Mitigation of Climate Change), plus two additional IPCC reports (Special Report on Renewable Energy and Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation).

The AR5 SYR is divided into four topics. Topic 1 (Observed changes and their causes) focuses on observational evidence for a changing climate, the impacts caused by this change and the human contributions to it. Topic 2 (Future climate changes, risks, and impacts) assesses projections of future climate change and the resultant projected impacts and risks. Topic 3 (Future Pathways for Adaptation, Mitigation and Sustainable Development) considers adaptation and mitigation as complementary strategies for reducing and managing the risks of climate change. Topic 4 (Adaptation and mitigation) describes individual adaptation and mitigation options and policy approaches. It also addresses integrated responses that link mitigation and adaptation with other societal objectives.

### Quelle

→ <http://www.ipcc.ch>

### Download

Climate Change 2014 – Synthesis Report

→ [http://www.ipcc.ch/pdf/assessment-report/ar5/syr/SYR\\_AR5\\_LONGERREPORT.pdf](http://www.ipcc.ch/pdf/assessment-report/ar5/syr/SYR_AR5_LONGERREPORT.pdf)

### Weitere Informationen

IPCC – Intergovernmental Panel on Climate Change

→ <http://www.ipcc.ch/organization/organization.shtml>

EU-Commission: Contribution of EU-funded Research to IPCC's 5th Assessment Report

→ [http://europa.eu/rapid/press-release\\_MEMO-14-608\\_en.htm](http://europa.eu/rapid/press-release_MEMO-14-608_en.htm)

Office of Science and Technology Policy: Statement by John p. Holdren in Approval of the IPCC's 5<sup>th</sup> Assessment Synthesis Report

→ [http://www.whitehouse.gov/blog/2014/11/02/statement-john-p-holdren-approval-ipccs-5th-assessment-synthesis-report?utm\\_ipccs-5th-assessment-synthesis-report?utm](http://www.whitehouse.gov/blog/2014/11/02/statement-john-p-holdren-approval-ipccs-5th-assessment-synthesis-report?utm_ipccs-5th-assessment-synthesis-report?utm)

Science: IPCC Reaches Finish Line, Releases Major Climate Change Synthesis Report

→ <http://news.sciencemag.org/climate/2014/11/ipcc-reaches-finish-line-releases-major-climate-change-synthesis-report>

### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Global

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

### Fachlicher Ansprechpartner für UN im Internationalen Büro

Dr. Thomas Reineke, Tel. 0228/3821-1448, [thomas.reineke@dlr.de](mailto:thomas.reineke@dlr.de)

### Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

### Schlagworte

Energie, Umwelt, Rahmenbedingungen



## China Headed to Overtake EU, US in Science and Technology Spending, OECD Says

Squeezed R&D budgets in the EU, Japan and US are reducing the weight of advanced economies in science and technology research, patent applications and scientific publications and leaving China on track to be the world's top R&D spender by around 2019, according to a new OECD report.

The OECD Science, Technology and Industry Outlook 2014 finds that with R&D spending by most OECD governments and businesses yet to recover from the economic crisis, the OECD's share in global R&D spending has slipped from 90 % to 70 % in a decade.

Annual growth in R&D spending across OECD countries was 1.6 % over 2008-12, half the rate of 2001-08 as public R&D budgets stagnated or shrank in many countries and business investment was subdued. China's R&D spending

meanwhile doubled from 2008 to 2012. Gross domestic expenditure on R&D (GERD) in 2012 was USD 257 billion in China, USD 397 billion in the United States, USD 282 billion for the EU28 and USD 134 billion in Japan.

The report warns that with public finances still tight in many countries, the ability of governments to compensate for lower business R&D with public funding, as they did during the worst of the economic downturn, has become more limited. Other key findings include:

- 2012 R&D spending surpassed USD 1.1 trillion in OECD countries and stood at USD 330 billion in the BRIICS (Brazil, Russia, India, Indonesia, China and South Africa).
- Korea became the world's most R&D intensive country in 2012, spending 4.36 % of GDP on R&D, overtaking Israel (3.93 %) and versus an OECD average of 2.40 %.
- The BRIICS produced around 12 % of the top-quality scientific publications in 2013, almost twice its share of a decade ago and compared to 28 % in the United States.
- China and Korea are now the main destinations of scientific authors from the United States and experienced a net "brain gain" over 1996-2011.
- European countries are diverging in R&D as some move closer to their R&D/GDP targets (Denmark, Germany) and others (Portugal, Spain) fall further behind.
- In most countries, 10 % to 20 % of business R&D is funded with public money, using various investment instruments and government targets.

#### Quelle

→ <http://www.oecd.org/newsroom/china-headed-to-overtake-eu-us-in-science-technology-spending.htm>

**Download (Vollzugang für Abonnenten der OECDiLibrary, Leseversion für Nichtabonnenten)**

OECD Science, Technology and Industry Outlook 2014

→ [http://www.oecd-ilibrary.org/science-and-technology/oecd-science-technology-and-industry-outlook-2014\\_sti\\_outlook-2014-en](http://www.oecd-ilibrary.org/science-and-technology/oecd-science-technology-and-industry-outlook-2014_sti_outlook-2014-en)

Deutsche Zusammenfassung

→ [http://www.oecd-ilibrary.org/content/summary/5445c374-de?isSummaryOf=/content/book/sti\\_outlook-2014-en](http://www.oecd-ilibrary.org/content/summary/5445c374-de?isSummaryOf=/content/book/sti_outlook-2014-en)

Highlights

→ <http://www.oecd.org/sti/sti-outlook-2014-highlights.pdf>

#### Weitere Informationen

OECD – Science and Technology

→ <http://www.oecd.org/science/>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus OECD

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

#### Fachliche Ansprechpartner für OECD im Internationalen Büro

Dr. Sonja Bugdahn (Forschung), Tel. 0228/3821-1474, [sonja.bugdahn@dlr.de](mailto:sonja.bugdahn@dlr.de)

Peter Klandt (Bildung), Tel. 0228/3821-1506, [peter.klandt@dlr.de](mailto:peter.klandt@dlr.de)

#### Fachlicher Ansprechpartner für Evaluation im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### Schlagworte

FuE-Budgets, Evaluation



## OECD: The Space Industry at a Glance 2014

Die Raumfahrt spielt für das Funktionieren moderner Gesellschaften eine immer wichtigere Rolle: Wettervorhersagen, Verkehrsüberwachung, globale Kommunikation oder auch Katastrophenmanagement – ohne Satelliten wären all diese Dinge undenkbar. Der neue Bericht enthält aktuelle Daten zu einer Vielzahl von Themen und gibt einen statistischen Überblick über die weitreichende wirtschaftliche Bedeutung der Raumfahrtindustrie und verwandter Sektoren. Der Band liefert Indikatoren und Statistiken auf Grundlage öffentlicher und privater Daten aus über vierzig Ländern mit Raumfahrtprogrammen.

#### Quelle

→ <http://www.oecd.org/berlin/publikationen/the-space-economy-at-a-glance-2014.htm>

### Download

The Space Economy at a Glance 2014

→ [http://www.oecd-ilibrary.org/economics/the-space-economy-at-a-glance-2014\\_9789264217294-en](http://www.oecd-ilibrary.org/economics/the-space-economy-at-a-glance-2014_9789264217294-en)

### Weitere Informationen

OECD

→ <http://www.oecd.org>

### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus OECD

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

### Fachliche Ansprechpartner für OECD im Internationalen Büro

Dr. Sonja Bugdahn (Forschung), Tel. 0228/3821-1474, [sonja.bugdahn@dlr.de](mailto:sonja.bugdahn@dlr.de)

Peter Klandt (Bildung), Tel. 0228/3821-1506, [peter.klandt@dlr.de](mailto:peter.klandt@dlr.de)

### Fachliche Ansprechpartnerin für Wirtschaft und Märkte im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

### Schlagworte

Raumfahrt, Wirtschaft und Märkte



## Improving the Quality and Quantity of Scientific Research in Africa

A new report from the World Bank and science publisher Elsevier looks at Africa's research performance over a decade, what it means for the continent's development and how it can benefit the growing number of young people who leave university each year looking for jobs. While African researchers produce only one percent of the world's research, the report "A Decade of Development in Sub Saharan African Science, Technology, Engineering and Mathematics Research" shows that the quality and quantity of that research is improving. Between 2003 and 2012, African researchers more than doubled their outputs, producing papers on subjects ranging from HIV, to cancer to climate change to ageing. A significant number of the peer-reviewed articles received international citations, a measure of the importance and quality of the research.

Most research in Africa focuses on agriculture and the health sciences, as the continent is battling serious diseases like HIV/AIDS, malaria, and most recently the Ebola epidemic. But missing from the equation is research in the physical sciences and in the science, technology, engineering and math (STEM) based fields. STEM research makes up only 29% of Sub Saharan Africa's output, leaving a gap in many countries' ability to enhance sectors like energy, transport, light manufacturing and the extractive industries. Yet progress in these sectors could transform Africa's economies and help end poverty.

The problem for much of Sub Saharan Africa: a low quality of basic education in science and math, a higher education system skewed toward disciplines like the humanities and social sciences, and low levels of international funding that focus heavily on health and agricultural research. In addition to benefitting countries and the region as a whole, improving the quality of higher education in STEM fields would benefit millions of youth entering the job market each year in Africa. More than 50 percent of Africa's population is below the age of 25. Given this youth bulge, more young people need to acquire training and expertise to prepare them for jobs in fields like ICT and agricultural sciences.

Some countries have made headway, according to the report. In Uganda, the Millennium Science Initiative, a US\$33 million investment aimed at producing more and better qualified science and engineering graduates, helped increase the number of Ugandan researchers from 261 to 720 and the number of Master's students more than doubled.

### Quelle

→ <http://www.worldbank.org/en/region/afr/publication/improving-the-quality-and-quantity-of-scientific-research-in-africa>

### Download

Report: A Decade of Development in sub-Saharan African Science, Technology, Engineering and Mathematics Research

→ <http://documents.worldbank.org/curated/en/2014/09/20240847/decade-development-sub-saharan-african-science-technology-engineering-mathematics-research>

### Weitere Informationen

World Bank Institute

→ <http://wbi.worldbank.org/wbi/>

ELSEVIER

→ <http://www.elsevier.com/about/at-a-glance>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

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**Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Bildung, Rahmenbedingungen



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**Fachliche Ansprechpartnerin für Wirtschaft und Märkte im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Wirtschaft und Märkte



## FDI-Geberländer im Vergleich

Germany Trade & Invest (GTAI), die bundeseigene Agentur für Außenwirtschaftsförderung und Standortmarketing, hat heute die Studie „FDI-Geberländer im Vergleich“ veröffentlicht. Erstmals wurde weltweit untersucht, welche Gründe ausländische Unternehmen dazu bewegen, in Deutschland zu investieren. Für 23 Länder zeigt die Studie, inwiefern die jeweilige ausländische Volkswirtschaft international ausgerichtet ist, ob es dabei bestimmte Branchenschwerpunkte gibt und wo besondere Potenziale für Investitionen in Deutschland vorhanden sind. Hintergründe, Trends und Statistiken zu den untersuchten Ländern sind in der neuen Studie ausführlich dargestellt. Zu diesen gehören Australien, Brasilien, Dänemark, Frankreich, Indien, Israel, Italien, Japan, Kanada, Südkorea, Mexiko, Niederlande, Österreich, Polen, Russland, Schweden, Schweiz, Spanien, Taiwan, Türkei, USA, das Vereinigte Königreich und die Volksrepublik China.

**Quelle**

→ <http://www.gtai.de/GTAI/Navigation/DE/Meta/presse,did=1108862.html>

**Download**

Studie „FDI-Geberländer im Vergleich“

→ <http://www.gtai.de/GTAI/Navigation/DE/Invest/Business-location-germany/FDI/fdi-special-geberlaender.html>

**Weitere Informationen**

Germany Trade and Invest (GTAI)

→ <http://www.gtai.de/GTAI/Navigation/DE/trade.html>

## WIPO Pearl: A Free Multilingual Terminology Database

The World Intellectual Property Organization (WIPO) launched a new database providing free access to a wealth of multilingual scientific and technical terminology. Through its web-based interface, WIPO Pearl promotes accurate and consistent use of terms across different languages, and makes it easier to search and share scientific and technical knowledge. The database initially includes terms found in applications filed via WIPO's Patent Cooperation Treaty (PCT) and will eventually include collections from other areas of WIPO, such as trademarks, industrial designs, and terminology found in other treaties administered by WIPO.

The 90,000+ terms and 15,000 concepts in 10 languages have all been entered and validated by WIPO-PCT language experts and terminologists, who have experience working with technical documents in multiple languages. Regular additions to the data are planned.

### Key features

- Ten languages: Arabic, Chinese, English, French, German, Japanese, Korean, Portuguese, Russian and Spanish
- Classification of concepts by 29 subject fields
- Fully validated content with reliability scores
- “Concept maps” that give an innovative graphical display of related concepts by language and subject field



- Context provided for all terms
- Term labelling (e.g. “recommended”, “standardized” or “avoid”)
- Integrated with PATENTSCOPE and CLIR (Cross-Lingual Information Retrieval)
- Users can rate the quality of results

WIPO Pearl can be accessed from the Reference page, along with WIPO’s PATENTSCOPE technology database – which now contains nearly 40 million patent records – and WIPO’s other searchable data collections.

**Quelle**

→ [http://www.wipo.int/pressroom/en/articles/2014/article\\_0012.html](http://www.wipo.int/pressroom/en/articles/2014/article_0012.html)

**Weitere Informationen**

WIPO Pearl

→ <http://www.wipo.int/wipopearl/search/home.html>

World Intellectual Property Organization (WIPO)

→ <http://www.wipo.int/portal/en/>

SciDevNet: Multilingual Patent Database Created to Propel Innovation

→ <http://www.scidev.net/global/intellectual-property/news/multilingual-patent-database-created-to-propel-innovation.html>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Global

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

**Fachliche Ansprechpartnerin für Innovation im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Innovation



**EU / Europa**

**Ebola Response: EU Scales up aid With Planes, Material aid and Research Support**

The European Union and its Member States have now pledged more than €1 billion in response to the Ebola crisis in West Africa. This means the Union has already gone beyond the target set by the European Council on 24 October for €1 billion in assistance to stem the epidemic. The EU is boosting its investment in Ebola research, sending more material aid and providing new capacity for medical evacuations of international aid workers.

The European Commission, together with the European pharmaceutical industry, is launching a €280 million call for proposals under the Innovative Medicines Initiative (IMI) to boost research on Ebola. The funding will cover urgent actions addressing the current epidemic and put in place a long-term strategy to manage any future outbreaks. €140 million will come from Horizon 2020, the EU’s framework programme for research and innovation, and €140 million from the pharmaceutical companies that are members of the European Federation of Pharmaceutical Industries and Associations (EFPIA). This call is a substantial contribution to the EU’s strategy to fight Ebola and complements the recently announced €24.4 million of funding dedicated to speed up some of the most promising research to develop vaccines and treatments

The call for proposals will use a new fast-track procedure to get successful projects up and running early next year. The research will involve large-scale clinical trials of new vaccines in the Ebola-affected countries as well as the development of fast diagnostic tests and new approaches to manufacture and distribute vaccines.

The EU has also begun its biggest single operation of transporting material assistance to the affected countries. A Dutch ship is sailed from the Netherlands, loaded with ambulances, mobile hospitals, laboratories and other equipment. The cargo has been provided by nine Member States (AT, BE, CZ, FI, HU, NL,

RO, SK, UK) and UNICEF. The EU Civil Protection Mechanism is coordinating the operation.

Luxembourg has become the first EU Member State to commit aeroplanes for European medical evacuation operations of international humanitarian workers diagnosed with Ebola. The two planes are retrofitted for the purpose with co-funding by the European Commission which will also finance the bulk of the transport costs for evacuations under the EU Civil Protection Mechanism.

#### **Quellen**

- [http://europa.eu/rapid/press-release\\_IP-14-1462\\_en.htm](http://europa.eu/rapid/press-release_IP-14-1462_en.htm)
- <http://ec.europa.eu/research/index.cfm?pg=newsalert&year=2014&na=na-061114>

#### **Weitere Informationen**

Innovative Medicines Initiative (IMI)

- <http://www.imi.europa.eu>

Ebola coordination site

- [http://europa.eu/newsroom/highlights/special-coverage/ebola/index\\_en.htm](http://europa.eu/newsroom/highlights/special-coverage/ebola/index_en.htm)

Factsheet on EU response to Ebola

- [http://europa.eu/rapid/press-release\\_MEMO-14-599\\_en.htm](http://europa.eu/rapid/press-release_MEMO-14-599_en.htm)

#### **Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus EU

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

#### **Fachliche Ansprechpartner für EU im Internationalen Büro**

Henriette Krimphoff, Tel. 0228/3821-1798, [henriette.krimphoff@dlr.de](mailto:henriette.krimphoff@dlr.de)

Dr. Olaf Heilmayer, Tel. 0228/3821-1443, [olaf.heilmayer@dlr.de](mailto:olaf.heilmayer@dlr.de)

#### **Fachliche Ansprechpartnerin für Förderung im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### **Schlagworte**

Lebenswissenschaften, Förderung, Kooperation Wissenschaft- Wirtschaft



## European Regional Competitiveness Scoreboard

The European regional competitiveness scoreboard offers a powerful tool for analyzing a region's competitive position and its position in global economic networks using a visualization of actual regional data. It determines the

competitors of firms in regions, the position of these firms in interregional and international trade, and positions regions vis-à-vis their competitors. The purpose of this tool is to carefully analyze a region's economic position such that a regional economic development strategy can be built on a sound analysis of regional assets and technology. It thereby enables (regional) policy makers to use this information to develop an evidence-based scientific regional smart specialization strategy. The tool makes use of the newest data visualization technology to present all different aspects of interregional competitiveness.

It is the result of a collaboration between the S3 Platform of the Joint Research Centre's Institute of Prospective Technology Studies, a part of the European Commission's in-house science service, and the PBL Netherlands Environmental Assessment Agency. It aims to provide evidence-based scientific support to the European policy-making process.

#### **Quelle**

- <http://themasites.pbl.nl/eu-trade/>

#### **Weitere Informationen**

European Regional Competitiveness Scoreboard

- <http://themasites.pbl.nl/eu-trade/>

#### **Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus EU

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

#### **Fachliche Ansprechpartner für EU im Internationalen Büro**

Henriette Krimphoff, Tel. 0228/3821-1798, [henriette.krimphoff@dlr.de](mailto:henriette.krimphoff@dlr.de)

Dr. Olaf Heilmayer, Tel. 0228/3821-1443, [olaf.heilmayer@dlr.de](mailto:olaf.heilmayer@dlr.de)

#### **Fachlicher Ansprechpartner für Indikatorik im VDI Technologiezentrum**

Miguel Krux, Tel. 0211/6214-460, [krux@vdi.de](mailto:krux@vdi.de)

#### **Schlagworte**

Wirtschaft und Märkte, Indikatorik



## Frankreich: Strategien und Initiativen gegen Ebola

Die Allianz für Lebenswissenschaften und Gesundheit (Alliance nationale pour les sciences de la vie et de la santé, Aviesan) hat das Programm vorgestellt, mit dem die französische Forschung auf die Ebolakrise reagiert. Anlässlich des Ausbruchs der Infektionskrankheit hatten die Gesundheitsministerin Marisol Touraine und die Staatssekretärin für Hochschulen und Forschung Geneviève Fioraso Aviesan beauftragt, bei Infektionsepidemien die Koordination der entsprechenden französischen Forschungsprogramme zu übernehmen. Ein Infektionsschnelltest, der ähnlich einem Schwangerschaftstest funktioniert, wurde bereits entwickelt.

Die zur Bekämpfung von Ebola begonnenen Forschungsprojekte werden von Forschern des Nationalen Instituts für Gesundheit und medizinische Forschung (Institut national de la santé et de la recherche médicale, Inserm), des Kommissariats für Atomenergie und erneuerbare Energien (Commissariat à l'énergie atomique et aux énergies alternatives, CEA), des Institut Pasteur, des Instituts für Entwicklungsforschung (Institut de recherche pour le développement, IRD) und den Universitäten gemeinsam durchgeführt. Sie arbeiten in direkter Partnerschaft mit Teams in Guinea, der Elfenbeinküste und dem Senegal zusammen.

8 Forschungsprogramme werden von Aviesan koordiniert:

- Standardisierung der Diagnostiktests - Ergebnisse für November bis Mai 2014 erwartet
- Entwicklung eines Schnelltests – Bereits umgesetzt, die Forscher des CEA bereiten nun die Markteinführung vor
- Vorklinische Tests effizienter Behandlungen gegen Ebola – Tierversuche, um drei antivirale Wirkstoffe zu testen (Favipiravir, Lavimudine und Mischung aus monoklonalen und Patientenserum-Antikörpern).

- Umsetzung einer klinischen Phase 2-Versuchsreihe auf Guinea, diese soll im November beginnen – Anwendung von Favipiravir in Kombination mit der Standardbehandlung an Patienten, die am Beginn einer Ebolainfektion stehen.
- Identifikation von zugelassenen Medikamenten die gegen Ebola wirken könnten – 54 Moleküle, die in Fragen kommen könnten, wurden bereits identifiziert; Test in vitro und in vivo im Labor Inserm-Jean Mérieux in Lyon (höchste Sicherheitsstufe); Ergebnisse Oktober bis Dezember 2014 erwartet.
- Zusammenstellung einer Kohorte von Patienten, die Ebola überlebt haben, um genetische und immunologische Faktoren zu analysieren – 12monatige Nachbetreuung von genesenen Patienten in Guinea und der Demokratischen Republik Kongo.
- Analyse des sozio-anthropologischen Impacts der Krankheit: soziokultureller und historischer Hintergrund – Projektdauer 5 Jahre.
- Gerüchte, Diskussionen und Kontroversen: Digitale Perspektiven – vergleichende Auswertung der Informationsverbreitung durch die betroffenen afrikanischen Gesundheitsbehörden und die Gesundheitsbehörden in Kanada, USA und Frankreich; ab Januar 2014 bis Ende der Epidemie.

Ein bereits erfolgreiches Kooperationsbeispiel ist das mobile P4-Labor auf Guinea des Labors Inserm-Jean Mérieux. Im April 2014 wurde es im Rahmen des von Deutschland koordinierten europäischen Forschungsprojekts "EMP4" eingerichtet. 11 Spezialisten des European Mobile Laboratory Projects können dadurch vor Ort die Diagnose der Krankheit verbessern.

Aviesan greift für die Koordination auf das Netzwerk REACTing zurück. Es wurde 2009 anlässlich der Pandemie H1N1 ("Schweinegrippe") gegründet und besteht aus 15 Experten für Human- und Veterinärmedizin, von der Grundlagen- bis zur klinischen Forschung. REACTing zielt auf keine bestimmte Krankheit ab, sondern schaltet sich bei Bedarf ein. Das Netzwerk hat bei der Chikungunya-Epidemie auf den Antillen seine Effizienz bewiesen, innerhalb von sechs

Monaten wurden 11 Projekte gestartet, die gemeinsam von verschiedenen Forschungseinrichtungen aber auch der Generaldirektion für Gesundheit (Direction générale de la santé, DGS) sowie der Generaldirektion für Pflege (Direction générale de l'offre de soins, DGOS) finanziert wurden.

#### Quelle

→ <http://www.kooperation-international.de/detail/info/frankreich-strategien-und-initiativen-gegen-ebola.html>

#### Weitere Informationen

Aviesan: Ebola: le point sur la recherche en France

→ <http://www.aviesan.fr/aviesan/accueil/toute-l-actualite/ebola-le-point-sur-la-recherche-en-france>

CEA: Virus Ebola: validation technique d'un test de diagnostic en moins de quinze minutes sur le terrain

→ <http://www.cea.fr/le-cea/actualites/test-ebola-142807>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Frankreich

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

#### Fachliche Ansprechpartnerin für Frankreich im Internationalen Büro

Dr. Ulrike Kunze, Tel. 030/67055-7981, [ulrike.kunze@dlr.de](mailto:ulrike.kunze@dlr.de)

Ivika Laev, Tel. 0228/3821-1418, [ivika.laev@dlr.de](mailto:ivika.laev@dlr.de)

#### Fachlicher Ansprechpartner für Internationalisierung im VDI Technologiezentrum

Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de)

#### Schlagnote

Lebenswissenschaften, Internationalisierung



## Französisch-Japanische Kooperation im Bereich Materialwissenschaften

Die größte französische Forschungsorganisation CNRS (Centre national de la recherche scientifique), der französische Industriekonzern Saint-Gobain und das japanische Nationale Institut für Materialwissenschaften (National Institute for Materials Science, NIMS) haben in Tsukuba ein gemeinsames Forschungslabor (Unité mixte internationale, UMI) für Materialwissenschaften eröffnet. In dem

gemeinsamen „Laboratory for Innovative Key Materials and Structures“ (LINK) sollen neue Materialien für die Industriezweige von Saint-Gobain entwickelt werden, insbesondere in den Bereichen Keramik, Granulat, Pulver, Kristalle, Verglasung und Schleifmittel. Die Partner institutionalisieren damit ihre langjährige Zusammenarbeit. Das CNRS und Saint-Gobain haben bereits zwei gemeinsame Labore an Saint-Gobain-Standorten in Aubervilliers und Cavallion. Das CNRS, die Universität Rennes 1 und das NIMS kooperieren seit mehr als zehn Jahren. Und Saint-Gobain und NIMS-Forscher arbeiten seit fünf Jahren gemeinsam im Center of Excellence for Advanced Materials, das sich am NIMS befindet.

#### Quelle

→ <http://www.kooperation-international.de/detail/info/franzoesisch-japanische-kooperation-im-bereich-materialwissenschaften.html>

#### Download

National Press Release: Saint-Gobain and the CNRS join forces in Japan

→ [http://www2.cnrs.fr/sites/en/fichier/cp\\_stgobain\\_v\\_eng\\_chartecnrs.pdf](http://www2.cnrs.fr/sites/en/fichier/cp_stgobain_v_eng_chartecnrs.pdf)

#### Weitere Informationen

Le Centre national de la recherche scientifique (CNRS)

→ <http://www.cnrs.fr/>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Frankreich

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

#### Fachliche Ansprechpartnerin für Frankreich im Internationalen Büro

Dr. Ulrike Kunze, Tel. 030/67055-7981, [ulrike.kunze@dlr.de](mailto:ulrike.kunze@dlr.de)

Ivika Laev, Tel. 0228/3821-1418, [ivika.laev@dlr.de](mailto:ivika.laev@dlr.de)

#### Fachliche Ansprechpartnerin für Kooperation Wissenschaft-Wirtschaft im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

LINK ergänzt folgende, bereits in Japan bestehende UMIs des CNRS: Laboratory for Integrated Micro Mechatronics Systems (LIMMS), Joint Robotics Laboratory (JRL) und das Japanese-French Laboratory for Informatics (JFLI). Saint-Gobain erhofft sich von dem neuen Labor eine Stärkung seiner vorgelagerten Forschung.

### Schlagworte

Schlüsseltechnologien, Kooperation Wissenschaft- Wirtschaft, Internationalisierung



## Frankreich investiert 20 Millionen Euro in Onlinekurse

Das französische Bildungsministerium fördert im Rahmen verschiedener Ausschreibungen die Entwicklung von Onlinekursen (Massive Open Online Courses, MOOCs). Die ersten 21 Projekte wurden nun frankreichweit ausgewählt. Sie erhalten in den kommenden Jahren 2,3 Millionen Euro Förderung für die Entwicklung digitaler Lehrangebote. Weitere Ausschreibungen sind mit insgesamt 17,7 Millionen Euro dotiert.

Vor einem Jahr rief das französische Bildungsministerium die Initiative "Digitale Universität Frankreich" (France Université Numérique, FUN) ins Leben und startete eine gleichnamige Internetplattform für Onlinekurse. Das kostenlose Angebot soll Studierende unterstützen aber auch einem breiten Publikum Wissen zugänglich machen und französische Lehrangebote international, vor allem in Ländern der Frankophonie, bekannt machen. 53 MOOCs wurden bisher von französischen Hochschulen (Universitäten und Grandes Écoles) entwickelt. 400.000 Personen nehmen an den Kursen teil, mehrheitlich Berufstätige (63 %). 2015 soll das Angebot laut den Plänen des Bildungsministeriums in den frankophonen Ländern weiter bekannt gemacht und MOOCs im Bereich Weiterbildung sowie innovativen pädagogischen Ansätzen (Stichwort "flipped classroom") entwickelt werden.

Die Ausschreibung "CréaMOOCs" wurde im Mai 2014 veröffentlicht. Es gab 33 Bewerbungen, von denen 21 nun gefördert werden. Geplant sind beispielsweise Produktionsstudios für MOOCs oder die Anschaffung von Equipment für die Aufzeichnung von Vorlesungen.

Insgesamt investiert Frankreich 20 Millionen Euro in FUN. Neben den 2,3 Millionen für die ausgewählten Projekte im Rahmen von "CréaMOOCs" ist eine Ausschreibung für Online-Weiterbildungskurse angekündigt (Budget 5,7

Millionen Euro). Im Rahmen des Investitionsprogramms "Zukunftsinvestitionen" (Investissements d'avenir) sind für exzellente pädagogische Konzepte mit Schwerpunkt auf Digitalisierung weitere 12 Millionen Euro Förderung ausgeschrieben (Initiatives d'excellence en formations innovantes numériques, IDEFI-N). Für die IDEFI-N können sich sowohl Hochschulstandorte als auch Unternehmen, die Bildungsbereich tätig sind, bewerben.

### Quelle

→ <http://www.kooperation-international.de/detail/info/frankreich-investiert-20-millionen-euro-in-onlinekurse.html>

### Weitere Informationen

EducPros.fr: Mooc et Idefi numériques: les nouveaux appels à projets du ministère

→ <http://www.letudiant.fr/educpros/actualite/plus-de-mooc-et-des-idefi-numeriques-les-nouveaux-appels-a-projets-du-ministere.html>

Enseignement supérieur et Recherche: Ouverture de la plateforme France Université Numérique MOOC

→ <http://www.enseignementsup-recherche.gouv.fr/cid74719/ouverture-de-la-plateforme-france-universite-numerique-mooc.html>

France Université Numérique (FUN)

→ <http://www.france-universite-numerique.fr>

### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Frankreich

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

### Fachliche Ansprechpartnerin für Frankreich im Internationalen Büro

Dr. Ulrike Kunze, Tel. 030/67055-7981, [ulrike.kunze@dlr.de](mailto:ulrike.kunze@dlr.de)

Ivika Laev, Tel. 0228/3821-1418, [ivika.laev@dlr.de](mailto:ivika.laev@dlr.de)

### Fachlicher Ansprechpartner für Hochschulen im VDI Technologiezentrum

Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de)

### Schlagworte

Bildung, Berufliche Bildung, Hochschulen



## Großbritannien

### New Innovation and Research Partnership between UK and Singapore

The Department for Business, Innovation and Skills (BIS) and the Singapore's National Research Foundation (NRF) welcome the new UK-Singapore Innovation and Research Partnership. This partnership, signed by the Prime Ministers of the UK and Singapore, was announced after President Tan's meeting with David Cameron on Wednesday 22 October 2014. It is a joint commitment to leverage both nations' investment in research and innovation to drive economic growth and societal impact.

The announcement comes as part of the state visit by Singapore's President Tony Tan Keng Yam to the UK. This historic visit, the first by a Singaporean head of state to the UK, has highlighted the many research and innovation links which already exist between the 2 countries.

President Tan visited Imperial College, which has a number of substantial collaboration with Singapore, including the Lee Kong Chian School of Medicine, a joint venture with Nanyang Technological University (NTU). President Tan was also awarded the King Charles II medal by the Royal Society in recognition of his role in the transformation of Singaporean research and education. A subsequent research and innovation forum saw UK companies highlight their successful collaborations with Singapore, including Rolls-Royce's corporate lab at NTU, partly funded by the National Research Foundation.

On Thursday 23 October 2014, Greg Clark, Minister for Universities, Science and Cities, and his Singaporean counterpart Dr Maliki discussed collaboration opportunities in Future Cities. This emerging field highlights the many opportunities for productive partnership, from aligning foresight activities to providing access to testbeds for innovative companies. They also witnessed the launch of a new collaboration between the University of Bristol and NTU to develop technologies for healthy aging.



#### Quelle

→ <https://www.gov.uk/government/news/new-innovation-and-research-partnership-between-uk-and-singapore-welcomed>

#### Weitere Informationen

Department for Business, Innovation and Skills (BIS)

→ <https://www.gov.uk/government/organisations/department-for-business-innovation-skills>

Singapore's National Research Foundation (NRF)

→ <http://www.nrf.gov.sg>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Großbritannien

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

Cluster Singapur

→ <http://www.kooperation-international.de/innovationsportal/clusterportal/cluster-singapur.html>

#### Fachliche Ansprechpartnerin für Großbritannien im Internationalen Büro

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

#### Fachlicher Ansprechpartner für Internationalisierung im VDI Technologiezentrum

Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de)

#### Schlagworte

Internationalisierung



### Pioneering new Facilities to Protect the UK From Viruses

The new £135 million National Virology Centre will help the UK prevent virus diseases of livestock and ones spread from animals to people. Opened by Business Secretary Vince Cable and funded by the Biotechnology and Biological Sciences Research Council the laboratory uses new, world-leading bio-containment technologies developed specifically for The Pirbright Institute to enable scientists to study diseases such as bluetongue, foot-and-mouth disease, avian influenza and African swine fever. The new facilities will help to predict and prevent outbreaks and develop vaccines and diagnostics in order to protect the UK from devastating diseases that can affect animals and humans and cost millions to the UK economy.

**Quelle**

→ <http://www.gov.uk/government/news/pioneering-new-facilities-to-protect-the-uk-from-viruses>

**Weitere Informationen**

Biotechnology and Biological Sciences Research Council (BBSRC)

→ <http://www.bbsrc.ac.uk/home/home.aspx>

BBSRC strategically funded institutes

→ <http://www.bbsrc.ac.uk/institutes>

The Pirbright Institut

→ <http://www.pirbright.ac.uk/Default.aspx>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Großbritannien

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

**Fachliche Ansprechpartnerin für Großbritannien im Internationalen Büro**

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

**Fachlicher Ansprechpartner für FuE-Infrastruktur im VDI Technologiezentrum**

Dr. Raimund Glitz, Tel. 0211/6214-546, [glitz@vdi.de](mailto:glitz@vdi.de)

**Schlagworte**

Lebenswissenschaften, FuE-Infrastruktur



## Hauser Report Calls for Long-Term Expansion of Catapult Network in the UK

The second Hauser report, published at Innovate 2014, calls for a long-term expansion of the Catapult network – creating 30 centres by 2030. There are currently 7 centres in the Catapult network around the UK.

In his original 2010 report leading technology entrepreneur Hermann Hauser recommended the creation of a network of technology and innovation centres around the UK. Four years later his second report sets out recommendations to ministers on the future scope, shape and ambition of the Catapult network, including:

- sustained investment in existing Catapults and long-term expansion of the network - with one or two new centres created each year.
- maintaining the current ‘third/third/third’ funding model:
  - core public funding for long-term investment in infrastructure and applied R&D projects into key sector challenges
  - business-funded R&D contracts, won competitively
  - collaborative applied R&D projects, funded jointly by the public and private sectors, also won competitively.
- more effective engagement with small businesses
- a more coherent model for working with universities

There are currently 7 Catapult centres across the country with a further 2 due to open in 2015. Each is focused on a specific area of technology and expertise with great global potential for UK businesses. They bring together sector experts and cutting-edge facilities to help business develop new products and services.

The cost of expanding the existing network is consistent with recent calls, such as by the Confederation of British Industry, to double the UK’s innovation spend to bring Innovate UK’s budget closer to £1 billion per annum by 2020.

**Quelle**

→ <https://www.gov.uk/government/news/hauser-report-calls-for-long-term-expansion-of-catapult-network>

**Download**

Review of the Catapult network: recommendations on the future shape, scope and ambition of the programme (full 2014 report)

→ [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/368416/bis-14-1085-review-of-the-catapult-network.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/368416/bis-14-1085-review-of-the-catapult-network.pdf)

The Current and Future Role of Technology and Innovation Centres in the UK (original 2010 report)

→ <http://webarchive.nationalarchives.gov.uk>

**Weitere Informationen**

Catapult Network

→ <https://www.catapult.org.uk>



**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Großbritannien

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

**Fachliche Ansprechpartnerin für Großbritannien im Internationalen Büro**

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

**Fachliche Ansprechpartnerin für Innovation im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Innovation, Cluster



## Innovation Vouchers for all Smaller Businesses in the UK

Innovation vouchers are now open to all kinds of smaller businesses. SMEs or start-ups can claim up to £5,000 towards the cost of expert advice. The funding encourages to seek out fresh knowledge that can help the business to grow and develop. That could include advice on an innovative idea, learning more about using design within the business or how one should make the most of intellectual property. The first round of applications for Innovation vouchers under the new rules opens on 10 November.

Accutronics used an Innovation voucher to pay for a consultant to draw up concepts for a new robust battery casing for defence and security markets. Five years on, the company is a thriving, fast-growing business exporting custom-made rechargeable batteries to 30 countries.

Managing director Rob Phillips said: "Every little helps when you are a small business with a hard pressed engineering team. It enabled fresh ideas to come in from outside without distracting us from the core money-making business."

Up to now Innovation vouchers had been available only to those working in specific technology areas. Now each SME can apply which just meets these simple tests:

- you need specialist help to meet a business challenge
- it's the first time you have worked with the knowledge supplier



**Quelle**

→ <https://www.gov.uk/government/news/innovation-vouchers-for-all>

**Weitere Informationen**

Innovation vouchers

→ <https://vouchers.innovateuk.org>

Innovate UK - Technology Strategy Board

→ <http://www.innovateuk.org>

Accutronics

→ <http://www.accutronics.co.uk>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Großbritannien

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

**Fachliche Ansprechpartnerin für Großbritannien im Internationalen Büro**

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

**Fachliche Ansprechpartnerin für Innovation im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Förderung, Innovation, KMU



## £50 Million to Support World-Changing Technologies in the UK

The Business Secretary, the Rt Hon Dr Vince Cable MP, has launched Innovate UK's £50 million investment in nurturing the latest, potentially game-changing technologies. The 4-year Emerging technologies and industries strategy will help UK business and academia to transform ideas into reality in seven areas:

- synthetic biology
- energy-efficient computing
- energy harvesting
- non-animal technologies
- emerging imaging technologies



- graphene
- quantum technologies

They could all offer world-changing solutions to major global challenges. These might be new drugs, autonomous sensors and ‘hyper-spectral’ cameras for advanced detection systems. The strategy also highlights how Innovate UK will be identifying and supporting as-yet unknown technologies as they emerge from UK universities. This plan represents a doubling of Innovate UK investment in emerging technologies over the next four years. All these areas can already boast a world-class research base and/or world class industrial potential within the UK. Innovate UK’s ambition is to see the UK lead the world in one or more new growth sectors from an emerging technology area. That would mean a sector generating £1 billion in turnover a year.

#### Quelle

→ <https://www.gov.uk/government/news/50-million-to-support-world-changing-technologies>

#### Download

Emerging technologies and industries strategy 2014 to 2018

→ [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/370017/Emerging\\_technologies\\_-\\_strategy\\_2014-2018.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/370017/Emerging_technologies_-_strategy_2014-2018.pdf)

#### Weitere Informationen

Innovate UK - Technology Strategy Board

→ <http://www.innovateuk.org>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus Großbritannien

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

#### Fachliche Ansprechpartnerin für Großbritannien im Internationalen Büro

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

#### Fachliche Ansprechpartnerin für Innovation im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### Schlagworte

Schlüsseltechnologien, Förderung, Innovation



## Italien

### MIUR and Tuscany Region Allocated €51 Million to Research and Development

€51 million is the budget allocated through the Call for funding fundamental and industrial research and experimental development launched by the Ministry of Education, University and Research (MIUR) and Tuscany Region to promote research and innovation in Tuscany by enterprises and research institutes.

The call aims at encouraging cooperation between enterprises and research system in Tuscany, through projects that can meet innovation and competitiveness needs, promote exchange of knowledge and skills, favour employment and territorial productive system growth.

Of the overall budget allocated in the call, €30 million are from MIUR Research Facilitation Fund (FAR) for research activities carried out by companies operating in the regional territory. Of these, €15 million will be allocated as soft loans, the remaining part as non-repayable contribution.

The remaining €21 million have been allocated by Tuscany Region under the Regional Implementation Programme for Underutilized Areas Fund (PAR FAS).

This call is included in the Plan Agreement signed by MIUR and Tuscany Region in May 2013, for the development of new technologies in the energy sector, in particular in the fields of energy saving and renewable sources, as well as for the development of an integrated energy platform for optoelectronics, photonics, telecommunications and other enabling technologies.

#### Quelle

→ <https://www.researchitaly.it/en/understanding/press-media/news/miur-and-tuscany-region-allocated-51-million-to-research-and-development/>

#### Weitere Informationen

Ministry of Education, University and Research (MIUR)

→ <http://www.istruzione.it/>





### **Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Italien

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

#### **Fachliche Ansprechpartnerin für Italien im Internationalen Büro**

Dr. Ursula Henze-Schulte, Tel. 0228/3821-1808, [ursula.henze-schulte@dlr.de](mailto:ursula.henze-schulte@dlr.de)

#### **Fachliche Ansprechpartnerin für Förderung im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### **Schlagworte**

Schlüsseltechnologien, Energie, Förderung



### **Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus USA

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

#### **Fachliche Ansprechpartnerin für USA im Internationalen Büro**

Dr. Barbara Hellebrandt, Tel. 0228/3821-1433, [barbara.hellebrandt@dlr.de](mailto:barbara.hellebrandt@dlr.de)

#### **Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### **Schlagworte**

Schlüsseltechnologien, Energie, Umwelt, Lebenswissenschaften, Bildung, Rahmenbedingungen



## USA

### After U.S. Election 2014

*ScienceInsider* hat sich in neun Beiträgen unter dem Schlagwort „After Election 2014“ mit den Auswirkungen der Zwischenwahlen auf die Ausgestaltung der künftigen Forschungspolitik beschäftigt. Folgende Themen wurden beleuchtet:

- Biomedical Funding
- Advanced Manufacturing
- STEM Education
- Fusion Research
- Competes Reauthorization
- Stream and Wetland Protection
- R&D Tax Credit
- Easing Research Regulation
- 21st Century Cures

#### **Quelle und Direktlinks zu den einzelnen Artikeln**

→ <http://news.sciencemag.org/tags/election-2014>

### U.S. Manufacturing Committee Pushes for Increased Coordination, Investment

The federal government should invest in strategic technologies and multi-agency initiatives to increase U.S. advanced manufacturing capabilities, according to a new report from the President's Council of Advisors in Science and Technology. The Advanced Manufacturing Partnership (AMP) Steering Committee "2.0" is a cross-sector, national effort to secure US leadership in emerging technologies that create high-quality manufacturing jobs and enhance the nation's competitiveness. The committee released its second and final AMP report, "Accelerating U.S. Advanced Manufacturing", last month as part of the White House's rollout of new actions and initiatives intended to strengthen U.S. manufacturing. The committee's recommendations focus on enabling innovation, securing the talent pipeline, and improving the nation's business climate.

AMP is a working group of the President's Council of Advisors in Science and Technology (PCAST), an appointed advisory team of the nation's leading scientists and engineers. In AMP's inaugural 2012 report, "Report to the President on Capturing Domestic Competitive Advantage in Advanced Manufacturing", the group calls for improvement of the business climate for manufacturing investment through tax and regulatory policies, sustained U.S. investments in science, technology, innovation, the upgrade of workforce

training programs, and the establishment of a National Network of Manufacturing Innovation Institutes (NMMIs), public-private partnerships to build shared high-tech facilities to advance U.S. leadership in emerging technologies.

Re-chartered as AMP2.0 in 2013 to build upon the group's initial findings, the new report not only reflects on the significant actions taken by the Advanced Manufacturing Partnership and its members to build on the group's initial recommendations, but also includes additional high-priority recommendations across three pillars: enabling innovation; securing the talent pipeline; and, improving the business climate.

- Enabling innovation recommendations are high-level in nature, such as the establishment of a national strategy across emerging manufacturing industries, the creation of an Advanced Manufacturing Advisory Consortium to provide private-sector input on advanced manufacturing R&D priorities, and the creation of a governance structure for the NNMI centers. The report also recommends the creation of manufacturing centers of excellence (MCEs) to advance earlier-stage technologies and manufacturing technology test-beds (MTTs) to support manufacturing innovation and benefit small and medium enterprises, feeding into the NNMI network.
- To secure the talent pipeline, the report recommends launching a campaign to shift the misconceptions the public holds about manufacturing, providing additional funds for the implementation of a system of nationally recognized, portable, and stackable skill certifications, making the development of online training and accreditation programs eligible to receive federal support, and curating the documents and toolkits created by AMP2.0 to ensure the accessibility of workforce development best practices.
- Improving the business climate recommendations include leveraging and coordinating federal, state, industry group and private intermediary organization to improve information flow regarding technologies, markets and supply chains to small and medium-sized manufacturers, and reduce the risk associated with scale-up of advanced manufacturing

by improving information flow between strategic partners, access to capital through a public-private scale-up investment fund, and the use of tax incentives to promote investment.

AMP2.0 also offers strategic suggestions in three prioritized manufacturing technology areas: advanced sensing, control and platforms for manufacturing; visualization, informatics and digital manufacturing; and, advanced materials manufacturing. The report also includes top-level recommendations for R&D infrastructure to support the innovation pipeline, NNMI incorporation, public-private technology standards, and additional strategies for these emerging industries.

Ultimately, the AMP2.0 Steering Committee notes that in addition to the three critical pillars of enabling innovation, securing the talent pipeline, and improving the business pipeline, further development of tax policies designed to encourage long-term establishment of capital-intensive and space-intensive manufacturing operations is needed, and that regulatory, tax, and other policy issues may hinder technology innovation. PCAST recommends that within the next sixty days, the Executive Office of the President develop and release a plan for implementing the report's recommendations.

#### **Quelle**

→ <http://ssti.org/blog/manufacturing-committee-pushes-increased-coordination-investment>

#### **Download**

Report to the President Accelerating U.S. Advanced Manufacturing (AMP 2.0)

→ [http://www.whitehouse.gov/sites/default/files/microsites/ostp/PCAST/amp20\\_report\\_final.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/PCAST/amp20_report_final.pdf)

Report to the President on Capturing Domestic Competitive Advantage in Advanced Manufacturing (AMP's inaugural 2012 report)

→ [http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast\\_amp\\_steering\\_committee\\_report\\_final\\_july\\_17\\_2012.pdf](http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast_amp_steering_committee_report_final_july_17_2012.pdf)

#### **Weitere Informationen**

Fact Sheet: President Obama Announces New Actions to Further Strengthen U.S. Manufacturing

→ <http://www.whitehouse.gov/the-press-office/2014/10/27/fact-sheet-president-obama-announces-new-actions-further-strengthen-us-m>

President's Council of Advisors on Science and Technology  
 → <http://www.whitehouse.gov/administration/eop/ostp/pcast>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**



Fokus USA

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

**Fachliche Ansprechpartnerin für USA im Internationalen Büro**

Dr. Barbara Hellebrandt, Tel. 0228/3821-1433, [barbara.hellebrandt@dlr.de](mailto:barbara.hellebrandt@dlr.de)

**Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Schlüsseltechnologien, Rahmenbedingungen



## New Lab-Corps Program Accelerates U.S. Energy Technologies to Market

The Department of Energy national laboratories are American science and engineering powerhouses. These national treasures are generating innovative solutions to the world's toughest energy challenges. However, promising solutions discovered at the laboratory bench can't effectively address energy challenges unless and until they are successfully transferred to the marketplace as commercial products and services.

To help increase the rate at which national laboratory discoveries successfully transition into the private sector, the Energy Department launched Lab-Corps, a new \$2.3 million program that will train top lab researchers across the nation how to move high-impact national laboratory-invented technologies into the market. This pilot program supports the Obama Administration's larger "Lab-to-Market" efforts, which focus on increasing the commercial impact of Federally-funded research and development and generating a greater return on taxpayer investment.

Lab-Corps, which is modeled on the National Science Foundation's successful Innovation Corps (I-Corps) program, is a specialized technology accelerator and commercialization training curriculum for researchers in the U.S. national

laboratories who have developed potentially marketable technology breakthroughs. Lab-Corps will initially focus on clean energy technologies. Through Lab-Corps, select labs will support entrepreneurial teams to identify and pursue market applications for new clean energy technologies through direct engagement with industry, entrepreneurs, and investors.

In addition to accelerating successful technology transfer, Lab-Corps will support a commercialization training model that expands upon the popular Lean LaunchPad entrepreneurship curriculum. The Lab-Corps curriculum will be tailored to the unique features of the national laboratories in order to maximize commercial impact and enable lab technologists to pursue a variety of commercialization pathways that extend beyond startup development to include industry agreements, technology licensing, and other partnerships with the private sector.

Six national laboratories have been selected to participate in the Lab-Corps pilot program. Over the next year, five labs – Argonne National Laboratory, Idaho National Laboratory, Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, and Pacific Northwest National Laboratory – will assemble, train, and support entrepreneurial teams to identify private sector opportunities for commercializing promising sustainable transportation, renewable power, and energy efficiency lab technologies.

A sixth – the National Renewable Energy Laboratory in Golden, Colorado – will leverage its deep expertise in technology commercialization and clean energy sectors to develop, deliver, and manage the Lab-Corps training program across the laboratory sites, with help from Brookhaven National Laboratory, Los Alamos National Laboratory, and Sandia National Laboratory.

If successful, the Lab-Corps pilot could be extended to other national laboratories, helping commercialize even more valuable discoveries across different sectors. Similarly, a recent collaboration between the National Institutes of Health and the National Science Foundation is bringing this entrepreneurship training model to teams of biomedical researchers.

**Quelle**

→ [http://www.whitehouse.gov/blog/2014/10/29/empowering-entrepreneurial-labs-new-lab-corps-program-accelerates-energy-technologie?utm\\_source=feedburner&utm](http://www.whitehouse.gov/blog/2014/10/29/empowering-entrepreneurial-labs-new-lab-corps-program-accelerates-energy-technologie?utm_source=feedburner&utm)

**Weitere Informationen**

Department of Energy national laboratories

→ <http://energy.gov/maps/doe-national-laboratories>

NSF Innovation Corps (I-Corps) program

→ [http://www.nsf.gov/news/special\\_reports/i-corps/](http://www.nsf.gov/news/special_reports/i-corps/)

Office of Science and Technology Policy: From Lab to Market: Accelerating Research Breakthroughs and Economic Growth

→ <http://www.whitehouse.gov/blog/2014/03/14/lab-market-accelerating-research-breakthroughs-and-economic-growth2>

From Lab Bench to Bedside: Accelerating the Commercialization of Biomedical Innovations

→ <http://www.whitehouse.gov/blog/2014/06/19/lab-bench-bedside-accelerating-commercialization-biomedical-innovations>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus USA

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

**Fachliche Ansprechpartnerin für USA im Internationalen Büro**

Dr. Barbara Hellebrandt, Tel. 0228/3821-1433, [barbara.hellebrandt@dlr.de](mailto:barbara.hellebrandt@dlr.de)

**Fachliche Ansprechpartnerin für Innovation im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Energie, Berufliche Bildung, Innovation



## New and Updated Resource on STEM Education and Workforce in the U.S.

The National Science Board (NSB) released an interactive, online resource featuring new and updated data and graphics about education and workforce in science, technology, engineering and mathematics (STEM) in the U.S. and providing facts on topics such as student proficiency, college degrees in STEM fields, and jobs in science-related occupations.

The resource features 60 central questions, organized by education level and the workforce, with multiple data points, graphs and maps providing the answers to each question. Users can view the latest data, consider trends, easily download both data and graphics and share these data through email and social media. Links to additional analysis are provided for each topic.

**Quelle**

→ [http://www.nsf.gov/nsb/news/news\\_summ.jsp?cntn\\_id=133138&org=NSB&from=news](http://www.nsf.gov/nsb/news/news_summ.jsp?cntn_id=133138&org=NSB&from=news)

**Weitere Informationen**

STEM Education Data

→ <http://www.nsf.gov/nsb/sei/edTool/explore.html>

NSB – Science and Engineering Indicators 2014

→ <http://www.nsf.gov/statistics/seind14/>

National Science Board (NSB)

→ <http://www.nsf.gov/nsb/about/>

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Fokus USA

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

**Fachliche Ansprechpartnerin für USA im Internationalen Büro**

Dr. Barbara Hellebrandt, Tel. 0228/3821-1433, [barbara.hellebrandt@dlr.de](mailto:barbara.hellebrandt@dlr.de)

**Fachlicher Ansprechpartner für Indikatorik im VDI Technologiezentrum**

Miguel Krux, Tel. 0211/6214-460, [krux@vdi.de](mailto:krux@vdi.de)

**Schlagworte**

Bildung, Indikatorik



## China

### Fundamental Overhaul of China's Competitive Funding

David Cyranoski reports on *Nature News Blog*, that “on 20 October the Chinese government announced the passage of a reform plan that will fundamentally reshape research in the country. By 2017, the main competitive government funding initiatives will be eliminated. [...] The new plan [...] will reorganize

competitive funding into five new channels: the National Natural Science Foundation (which currently distributes many of the small-scale competitive grants); national science and technology major projects; key national research and development programmes; a special fund to guide technological innovation; and special projects for developing human resources and infrastructure. According to Cyranoski, the five funding channels “will be managed under a new science and technology agency that will unify planning and assessment of scientific projects.”

#### Quelle

→ <http://blogs.nature.com/news/2014/10/fundamental-overhaul-of-chinas-competitive-funding.html>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus China

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

#### Fachlicher Ansprechpartner für China im Internationalen Büro

Dominik Ruttke, Tel. 0228/3821-1408, [dominik.ruttke@dlr.de](mailto:dominik.ruttke@dlr.de)

#### Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

#### Schlagworte

Förderung, Rahmenbedingungen



## China's top Universities to get More Autonomy

According to *World University News* referring to *The Global Times* “China's top education authorities have approved new regulations for nine top universities, which seek to increase their autonomy, while observers have expressed concern about their effectiveness. The nine universities include the country's top two universities, Peking University and Tsinghua University, the Ministry of Education announced on its website, adding that the newly established regulations will help the systematic reform of higher education and aid academic development. Since 2013, a total of 32 universities have already seen their new regulations, which were drafted by the universities themselves, approved by the

authorities. All other Chinese universities are scheduled to establish their own regulations by the end of next year, according to the ministry.”

#### Quellen

→ <http://www.universityworldnews.com/article.php?story=20141017114724313>

→ <http://www.globaltimes.cn/content/885482.shtml>

#### Ausführliche Länder- und Themeninformationen bei Kooperation international

Fokus China

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

#### Fachlicher Ansprechpartner für China im Internationalen Büro

Dominik Ruttke, Tel. 0228/3821-1408, [dominik.ruttke@dlr.de](mailto:dominik.ruttke@dlr.de)

#### Fachlicher Ansprechpartner für Hochschulen im VDI Technologiezentrum

Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de)

#### Schlagworte

Hochschulen



## Norwegen

### Norwegische Regierung erhöht Forschungsbudget um NOK 2,1 Milliarden

Die Regierung in Norwegen beabsichtigt für 2015 eine Steigerung ihres Forschungsbudgets um NOK 2,1 Milliarden (rd. EUR 251 Millionen). Der Norwegische Forschungsrat soll im kommenden Jahr rund NOK 460 Millionen (rd. EUR 55 Millionen) mehr erhalten. Der größte Teil der Mittel wird in das europäische Rahmenprogramm für Forschung und Innovation "Horizont 2020" fließen.

Der Norwegische Forschungsrat beleuchtet in der Mitteilung „Impacts of the national budget for applicants“ ausführlich wie sich der Budgetvorschlag auf seine Förderung auswirken wird:

- Stärkere Beteiligung norwegischer Forscher an Horizont 2020,
- Ausbau der Forschungsinfrastruktur,

- nahezu unveränderte Förderung für die bisherigen thematischen Initiativen (Klima, Umwelt, Gesundheit, ressourcenbasierte Industrie)
- Aufwertung des FRIPRO Förderprogramms für unabhängige Projekte,
- Verdoppelung des Volumens für das SkatteFUNN Programm zur steuerlichen FuE-Förderung,
- Erhöhung der Mittel für das BIA-Programm zur Förderung Nutzer getriebener forschungsbasierte Innovationen,
- Stärkung des marktnahen Forschung, z.B. über das FORNY2020 Programm,
- Auslaufen des „Public Sector Ph.D.“ Programms,
- Reduktion der Mittel für Forschung im Transportbereich.



Public Sector Ph.D. scheme (OFFPHD)

→ <http://www.forskningsradet.no/en/Funding/OFFPHD/1253996392808>

Transport 2025 Programme

→ <http://www.forskningsradet.no/en/Funding/TRANSPORT/1254001279214>

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Norwegen

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

**Fachlicher Ansprechpartner für Norwegen im Internationalen Büro**

Ralf Hanatschek, Tel. 0228/3821-1482, [ralf.hanatschek@dlr.de](mailto:ralf.hanatschek@dlr.de)

**Fachlicher Ansprechpartner für FuE-Budgets im VDI Technologiezentrum**

Miguel Krux, Tel. 0211/6214-460, [krux@vdi.de](mailto:krux@vdi.de)

**Schlagworte**

FuE-Budgets, Förderung



#### Quelle

→ <http://www.kooperation-international.de/detail/info/impacts-of-the-national-budget-for-applicants.html>

#### Weitere Informationen

Impacts of the national budget for applicants

→ [http://www.forskningsradet.no/en/Newsarticle/Impacts\\_of\\_the\\_national\\_budget\\_for\\_applicants/1254001297454/p1177315753918](http://www.forskningsradet.no/en/Newsarticle/Impacts_of_the_national_budget_for_applicants/1254001297454/p1177315753918)

Research Council of Norway

→ [http://www.forskningsradet.no/en/Home\\_page/1177315753906](http://www.forskningsradet.no/en/Home_page/1177315753906)

Horizon 2020 – EU Framework Programme for Research and Innovation

→ <http://ec.europa.eu/programmes/horizon2020/>

Independent project (FRIPRO)

→ [http://www.forskningsradet.no/prognett-fripro/Home\\_page/1226994096426](http://www.forskningsradet.no/prognett-fripro/Home_page/1226994096426)

SkatteFUNN Tax Incentive Scheme

→ [http://www.forskningsradet.no/prognett-skattefunn/About\\_SkatteFUNN/1247149010684?lang=en](http://www.forskningsradet.no/prognett-skattefunn/About_SkatteFUNN/1247149010684?lang=en)

Research Council has launched a new Programme for User-Driven Research

→ [http://www.forskningsradet.no/prognett-bia/Programme\\_description/1226993636103](http://www.forskningsradet.no/prognett-bia/Programme_description/1226993636103)

FORNY2020 Programme

→ [http://www.forskningsradet.no/prognett-FORNY2020/Programme\\_description/1253963921859](http://www.forskningsradet.no/prognett-FORNY2020/Programme_description/1253963921859)

## Research Council of Norway: New Main Strategy Circulated for Review

The Executive Board of the Research Council of Norway is drawing up a new main strategy for the Research Council. All interested parties are invited to submit their input.

The document sets out the overall guiding principles for the Research Council's activities in the period from 2015 to 2020, and will replace the current strategy "In the Vanguard of Research".

The draft of the strategy takes its point of departure in two fundamental societal challenges:

Norwegian society must become more innovative in both the private and the public sectors, and it must become more sustainable in all areas. Meeting these challenges will require dynamic, innovative research groups that can compete

"Dialogue with the research community, trade and industry, and society at large is an important part of the strategy process," says Arvid Hallén, Director General of the Research Council. "We are therefore circulating the strategy widely for review, including here on our webpages," adds Ingvild Myhre, chair of the Executive Board.

and develop to a greater degree within an international framework. In light of this, six objectives have been established for the strategy period. The Research Council will seek to:

- increase investment in pioneering research and innovation;
- strengthen research that promotes sustainable solutions within trade and industry and society at large;
- strengthen initiatives that promote more research-oriented, innovative trade and industry;
- ensure that the public sector applies research in its modernisation efforts;
- facilitate increased international cooperation and participation in EU-funded research;
- play a strategic role by promoting greater integration and renewal in the research system.

The strategy identifies key action points in all six areas. Some of these involve strengthening and further developing current activities while others entail new activities. The action points will also contribute to the follow-up of the Government's long-term plan for research and higher education, which was presented on 8 October 2014.

The Research Council's main strategy ties together the Council's various thematic policy documents. These strategies elaborate on and specify the Research Council's objectives in especially important areas. Please refer to these documents for further details regarding the strategy areas mentioned in the main strategy.

The main strategy will be refined on the basis of the input. The document is planned to be finalised in early 2015.

**Quelle**

→ [http://www.forskningsradet.no/en/Newsarticle/The\\_Research\\_Councils\\_new\\_main\\_strategy\\_circulated\\_for\\_review/1254001010440/p1177315753918](http://www.forskningsradet.no/en/Newsarticle/The_Research_Councils_new_main_strategy_circulated_for_review/1254001010440/p1177315753918)

**Download**

Forskning for innovasjon og bærekraft (Norwegisch)

→ <http://www.forskningsradet.no/servlet/Satellite?blobcol=urldata&blobheader=application%2Fpdf&blobheadername1=Content-Disposition%3A&blobheadervalue1=+attachment%3B+filename%3D%22Nyhovedstrategih%C3%B8ringsversjonen.pdf%22&blobkey=id&blobtable=MungoBlobs&blobwhere=1274505521440&ssbinary=true>

**Weitere Informationen**

The Research Council of Norway

→ [http://www.forskningsradet.no/en/Home\\_page/1177315753906](http://www.forskningsradet.no/en/Home_page/1177315753906)

Council's various thematic policy Documents (Norwegisch)

→ [http://www.forskningsradet.no/no/Nyheter/Ny\\_hovedstrategi\\_pa\\_apen\\_horing/125400757621/p1174467583739](http://www.forskningsradet.no/no/Nyheter/Ny_hovedstrategi_pa_apen_horing/125400757621/p1174467583739)

**Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Norwegen

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

**Fachlicher Ansprechpartner für Norwegen im Internationalen Büro**

Ralf Hanatschek, Tel. 0228/3821-1482, [ralf.hanatschek@dir.de](mailto:ralf.hanatschek@dir.de)

**Fachliche Ansprechpartnerin für Rahmenbedingungen im VDI Technologiezentrum**

Dr. Silke Stahl-Rolf, Tel. 0211/6214-632, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de)

**Schlagworte**

Rahmenbedingungen



**Türkei**

**Report: We Will Stop Here and Go No Further – Syrian University Students and Scholars in Turkey**

The crisis in Syria continues to have a devastating impact on professors, university students, and the education sector, not only in Syria but also in the neighboring countries that are hosting so many displaced Syrians. In this report, the Institute of International Education (IIE) and its Syria Consortium for Higher Education in Crisis look at the conditions and educational needs of Syrian



university students and scholars in Turkey. "We Will Stop Here and Go No Further: Syrian University Students & Scholars in Turkey" is based on first-hand research and interviews conducted in Turkey in June and July 2014 through a joint effort by IIE and the University of California, Davis.

The report's title refers to two possibilities. On the one hand, the authors conclude that a large number of Syrian young people will remain in Turkey even after the war in Syria concludes, as "Turkey's size and supportive policies hold the potential to afford Syrians with educational and professional opportunities an environment to rebuild their lives." Yet at the same time, "the challenges of displacement risk marginalizing these young people, leaving their human potential unfulfilled. If successive age-cadres of Syrians are unable to continue their education, Syria will lose its future doctors, teachers, engineers, and university professionals."

The report concludes that as few as 1–2 percent of Syrian university-age students in Turkey were successfully enrolled at Turkish universities last year, including less than 1 percent of young women. These enrollment rates, however, increased by more than 300 percent between 2012–13 and 2013–14.

#### **Quelle**

→ <http://www.iie.org/Research-and-Publications/Publications-and-Reports/IIE-Bookstore/We-Will-Stop-Here-And-Go-No-Further-Syrian-University-Students-And-Scholars-In-Turkey>

#### **Download**

Report "We Will Stop Here and Go No Further – Syrian University Students and Scholars in Turkey"

→ <http://www.iie.org/~media/Files/Corporate/Publications/We-Will-Stop-Here-And-Go-No-Further-Syrian-University-Students-And-Scholars-In-Turkey-002.ashx>

#### **Weitere Informationen**

Institute of International Education

→ <http://www.iie.org/>

IIE Syria Consortium for Higher Education in Crisis

→ <http://www.iie.org/Programs/Syria-Scholarships>

#### **Ausführliche Länder- und Themeninformationen bei Kooperation international**

Fokus Türkei

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

#### **Fachlicher Ansprechpartner für die Türkei im Internationalen Büro**

Dr. Oliver Dilly, Tel. 0228/3821-1470, [oliver.dilly@dlr.de](mailto:oliver.dilly@dlr.de)

#### **Fachlicher Ansprechpartner für Hochschulen im VDI Technologiezentrum**

Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de)

#### **Schlagworte**

Bildung, Hochschulen



## Impressum

### Herausgeber



Deutsches Zentrum für Luft- und Raumfahrt e.V.  
Projekträger im DLR  
Internationales Büro  
Heinrich-Konen-Str. 1  
53227 Bonn



VDI Technologiezentrum GmbH  
Innovationspolitik – Innovationsstrategien,  
Internationalisierung  
VDI-Platz 1  
40468 Düsseldorf

### Beauftragt vom



Bundesministerium für Bildung und Forschung  
Referat 211  
53170 Bonn

### Redaktion

- Dr. Silke Stahl-Rolf, Tel. 0211/6214-546, [stahl-rolf@vdi.de](mailto:stahl-rolf@vdi.de) (Themen- und Clustermonitoring)
- Jana Wolfram, Tel. 0228/3821-1113, [jana.wolfram@dlr.de](mailto:jana.wolfram@dlr.de) (Länderkoordination)
- Dr. Andreas Ratajczak, Tel. 0211/6214-494, [ratajczak@vdi.de](mailto:ratajczak@vdi.de) (Gesamtredaktion)
- Miguel Krux, Tel. 0211/6214-640, [krux@vdi.de](mailto:krux@vdi.de) (Gesamtredaktion)



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

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