**INNOVATION**

**Of ICT**

**In Developing Countries**

Repository (Version 2.0, May 2012)

ITU Telecommunication Standardization Bureau
Policy & Technology Watch Division

# Introduction

This repository contains information about activities on ICT innovation and is structured as follows:-

* ICT innovation activities or programmes at the level of international organizations including U.N organizations;
* Innovation work or research being done at the level of other institutions
* Research articles and papers in the field of ICT innovation and
* Some examples of upcoming innovations that could impact lives of people in developing countries

The initial version of the repository was prepared by the Policy & Technology Watch Division of ITU’s Telecommunication Standardization Bureau in July 2011.

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# International Organisations

# ICT4D

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | Information and communication technologies for international development (ICT4D) 2.0: The Next Phase of Applying ICT for International Development. |
| General Director | Dr Tim Unwin |
| Website | <http://www.ict4d.org.uk/> |
| Contact point | tim@ict4d.org.uk |

## Activities

|  |  |
| --- | --- |
| Summary of activities | “[Information and Communication Technologies for Development](http://en.wikipedia.org/wiki/Information_and_Communication_Technologies_for_Development) (ICT4D). ICT4D focuses on using digital technology to deliver specific development goals (most notably the [Millennium Development Goals](http://en.wikipedia.org/wiki/Millennium_Development_Goals)). ICTD looks much more broadly at use of ICTs in developing countries.Use of information and communication technologies for international development is moving to its next phase. This will require new technologies, new approaches to innovation, new intellectual integration, and, above all, a new view of the world's poor. The phase change from information and communication technologies for international development (ICT4D) 1.0 to ICT4D 2.0 presents opportunities for informatics professionals and offers new markets for ICT vendors. It also brings new challenges to our established methods of working and emphasizes the need for new expertise and new world views. The paper have shown that ICT4D 2.0 focuses on reframing the poor. Where ICT4D 1.0 marginalized them, allowing a supply-driven focus, ICT4D 2.0 centralizes them, creating a demand-driven focus. Where ICT4D 1.0 - fortified by the "bottom of the pyramid" concept - characterized the poor largely as passive consumers, ICT4D 2.0 sees them as active producers and innovators.” |
| Website full description  | <http://www.ict4d.org.uk/>  |

# SPIDER

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | Spider |
| Chairman | **Gunnar Landgren**  |
| Website | <http://www.spidercenter.org/>  |
| Contact point | info@spidercenter.org, daniel@spidercenter.org |

**Activities**

|  |  |
| --- | --- |
|  | Spider is a resource center for ICT for Development (ICT4D). Spider functions like a node in a network of actors from academia, public sector, private sector, and civil society. Networking and brokering of knowledge and expertise is combined with support to innovative ICT4D activities in partner countries. The aim of Spider is to support the use of ICT for development and poverty reduction. [Read more](http://www.spidercenter.org/about-spider) |
| Website full description  | <http://www.spidercenter.org/projects/project-support><http://www.spidercenter.org/news/ict4democracy-east-africa>  |

# IDRC

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | International Development Research Center |
| Chairman | Mr. **David M. Malone** |
| Website | <http://publicwebsite.idrc.ca/>  |
| Contact point | **Mailing address** PO Box 8500, Ottawa, ON, Canada K1G 3H9**Street address** 150 Kent Street, Ottawa, ON, Canada K1P 0B2 Phone: (+1) 613-236-6163 Email: info@idrc.ca |

## Activities

|  |  |
| --- | --- |
| Summary of activities | IDRC supports research in developing countries to promote growth and development. We work with researchers and innovators in those countries to find practical, long-term solutions to the social, economic, and environmental problems their societies face. Our goal is to bring choice and change to the people who need it most. A Canadian Crown corporation established in 1970, IDRC is guided by an international [Board of Governors](http://publicwebsite.idrc.ca/EN/AboutUs/Governance/Pages/BoardOfGovernors.aspx). |
| Website full description  | <http://publicwebsite.idrc.ca/EN/Pages/default.aspx> |

# OECD

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | Organisation for Economic Co-operation and Development |
| General Director | Mr. Angel Gurría |
| Website | <http://www.oecd.org>  |
| Contact point | OECD 2, rue André Pascal 75775, Paris Cedex 16, France Tel.: +33 1 45 24 82 00Fax: +33 1 45 24 85 00  |
| OECD Innovation Website | [http://www.oecd.org/topic/0,3699,en\_2649\_37417\_1\_1\_1\_1\_37417,00.html](http://www.oecd.org/topic/0%2C3699%2Cen_2649_37417_1_1_1_1_37417%2C00.html) |
| OECD Green Innovation Website | [http://www.oecd.org/topic/0,3699,en\_2649\_34499\_1\_1\_1\_1\_37425,00.html](http://www.oecd.org/topic/0%2C3699%2Cen_2649_34499_1_1_1_1_37425%2C00.html) |
| Green Growth and Energy | [http://www.oecd.org/document/38/0,3746,en\_2649\_37417\_48469158\_1\_1\_1\_37417,00.html](http://www.oecd.org/document/38/0%2C3746%2Cen_2649_37417_48469158_1_1_1_37417%2C00.html) |

**Documents**

|  |  |
| --- | --- |
| How can IT enable economic growth in developing countries? |  In this paper we review theories on the economic significance of IT, telecommunications, and information processing, and discuss the nature of economic effects that should be expected from the diffusion of IT and telecommunications and the increased emphasis on information activities. Economic and social theory converge to the suggestion that IT innovation and intensification of information activities do not lead deterministically to economic growth. Rather, organisations are faced with pressure to work out changes to the ways they do business or deliver their services, and policy makers must plan for a macro-economic environment that facilitates economic and social changes to the benefit of the country. A crucial question which emerges in this context is whether, under the current trends of globalisation, technical and organisational innovation implies homogenisation or diversity.  |
| Website full description: | <http://eprints.lse.ac.uk/2581/1/HowcanITenable.pdf> |
| Eco-Innovation in Industry: Enabling Green Growth | [http://www.oecd.org/document/34/0,3746,en\_2649\_34499\_44416162\_1\_1\_1\_1,00.html](http://www.oecd.org/document/34/0%2C3746%2Cen_2649_34499_44416162_1_1_1_1%2C00.html) Eco-innovation will be a key driver of industry efforts to tackle climate change and realise “green growth” in the post-Kyoto era |

# UNESCO

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | United Nations Educational, Scientific and Cultural Organization |
| General Director | Madame Director-General Irina Bokova |
| Website | <http://www.unesco.org/>  |
| Contact point | Offices are located in two places 7, place de Fontenoy 75352 Paris 07 SP France 1, rue Miollis 75732 Paris Cedex 15 France General phone:+33 (0)1 45 68 10 00 |

## Activities

|  |  |
| --- | --- |
| Summary of activities | For fifty years, countries have measured their inventive and innovative efforts using precise methodological rules. The OECD has developed influential manuals to this end. However, the manuals’ recommendations are concerned mainly, if not entirely, with the supply side of invention and innovation. For example, the Frascati manual concentrates on the organizations performing research and development (R&D). The Oslo manual focuses on the innovating firm, with a residual concern for end-users. Diffusion is measured from the perspective of the innovating firm (process innovation), with no statistics from users other than firms, whether they be customers, organizations, or whole countries |
| Website full description  | <http://www.csiic.ca/PDF/UNESCO_UserView.pdf>  |

## Documents

|  |  |
| --- | --- |
| Profiles and experiences in ICT innovation for poverty reduction | <http://www.unesco.org/new/fr/communication-and-information/resources/publications-and-communication-materials/publications/full-list/profiles-and-experiences-in-ict-innovation-for-poverty-reduction/>  |
| Unesco Institute for Statistics | Measuring Innovation In Developing Countries<http://www.uis.unesco.org/sciencetechnology/pages/innovation-statistics.aspx> extremely difficult to measure given its constantly changing nature and environment |
| Profiles and experiences in ICT innovation for poverty reduction | <http://unesdoc.unesco.org/images/0013/001381/138197e.pdf>Very interesting paper and examples |

# UNDP

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | United Nations Development Programme |
| General Director | Helen Clark |
| Website | <http://www.undp.org>  |
| Contact point | One United Nations Plaza New York, NY 10017 USA Tel: +1 (212) 906-5000 Staff directory assistance, Tel: +1 (212) 963-1234 |

**Activities**

|  |  |
| --- | --- |
| Summary of activities | UNDP is the United Nations' global development network, an organization advocating for change and connecting countries to knowledge, experience and resources to help people build a better life |
| Website full description  | <http://www.undp.org> |

## Documents

|  |  |
| --- | --- |
| ICT for development (ICT4D) Understanding ICT4D Thematics in Malaysia: A Sourcebook | <http://www.undp.org.my/uploads/ict4d.pdf> |

# UNICEF

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | United Nations International Children's Emergency Fund  |
| Chairman | Mr. Anthony Lake, UNICEF Executive Director. |
| Website | <http://unicefinnovation.org/> |
| Contact point | <http://unicefinnovation.org/contact.php>  |

## Activities

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| --- | --- |
| Summary of activities | UNICEF innovation team is defining many new innovation topics including New Directions in Development; Combining low-tech hardware with sophisticated open-source software, we explore novel ways to both empower young people and improve UNICEF's operations. We collaborate with others to make this happen. [Mobile & SMS](http://unicefinnovation.org/mobile-and-sms.php) **RapidSMS**: Collecting data, coordinating logistics, enhancing communication.[Rugged Computing](http://unicefinnovation.org/rugged-computing.php) **The Bee**: Data and communication anywhere, providing connectivity.[Social Networking](http://unicefinnovation.org/social-networking.php) **YouthNet**: forming connections, working together, creating opportunities.[Wiki](http://unicefinnovation.org/wiki.php) **Uniwiki**: Simplifying collaboration, sharing information, designed for children. |
| Website full description  | <http://unicefinnovation.org/about.php>  |

# United Nations Conference on Trade and Development [UNCTAD]

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | United Nations Conference on Trade and Development |
| Secretary-General | **Mr. Supachai Panitchpakdi**  |
| Website | <http://www.unctad.org> |
| Contact point | Palais des Nations, 8-14, Av. de la Paix, 1211 Geneva 10, SwitzerlandT: +41 22 917 1234, F: +41 22 917 0057 |

## Activities

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| --- | --- |
| Summary of activities | The UNCTAD programme of work on Information and Communication Technologies (ICT) carries out policy-oriented analytical work on the implications for developing countries of the adoption of ICT, Internet and e-business technologies. [More...](http://r0.unctad.org/ecommerce/about_en.htm)  |

## Documents

|  |  |
| --- | --- |
| Utility Models and Innovation in Developing Countries (2006) | <http://www.unctad.org/en/docs/iteipc20066_en.pdf>  |
| Partnership on Measuring ICT for Development | <http://new.unctad.org/default____600.aspx>  |

# UNIDO

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | Unido’s ****Investment and Technology Promotion Office**** |
| General Director | Mr. Kandeh K. Yumkella |
| Website | <http://www.unido.org/>  |
| Contact point | Ms. Diana Battaggia Via Paola, 41, 00186 Roma - Italia Tel: +39-06-6796521 roma@unido.it  |

## Activities

|  |  |
| --- | --- |
| Summary of activities | **The United Nations Organization for Industrial Development (UNIDO) assists developing and transition countries to conduct sustainable industrial development and to do so mainly through international cooperation among companies and entrepreneurs. Regarding innovation Unido**, together with the [Delft University of Technology](http://www.tudelft.nl/), the [Politecnico di Milano](http://www.polimi.it/english/) and the [Graz University of Technology](http://portal.tugraz.at/), have decided to promote a network of universities and university chairs, which would address the industrial human resources requirements in innovation, and would carry out industry – university cooperation projects benefiting industrial enterprises. . |
|  |  |
| Website full description  | <http://www.unido.org/index.php?id=o66410>  |

## Documents

|  |  |
| --- | --- |
| U.N. Foundation overview on mHealth for Developmen | Facilitating a UNIDO Global University Network on Industrial Innovation SystemsFirst Phase: Taking care of the future of Innovation in Africa. <http://www.unido.org/fileadmin/user_media/Services/Investment_and_Technology_Promotion/University_Chair/network_concept.pdf>  |
| Climate Innovation Centres | <http://www.unido.org/fileadmin/user_media/Services/Energy_and_Climate_Change/Energy_Efficiency/CCS/Climate_Innovation_Centres_full.pdf> |

# UN Millennium Project

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | UN Millennium Project  |
| Communications Director | Erin Trowbridge |
| Website | <http://www.unmillenniumproject.org/>  |
| Contact point | trowbridge@ei.columbia.edu  |

## Activities

|  |  |
| --- | --- |
| Summary of activities | The Millennium Project was commissioned by the United Nations Secretary-General in 2002 to develop a concrete action plan for the world to achieve the Millennium Development Goals and to reverse the grinding poverty, hunger and disease affecting billions of people. In 2005, the independent advisory body headed by Professor Jeffrey Sachs, presented its final recommendations to the Secretary-General in a synthesis volume Investing in Development: A Practical Plan to Achieve the Millennium Development Goals. |
| Website full description  | <http://www.unmillenniumproject.org/who/index.htm>  |

# TEDxChange

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | TEDxChange “TEDx” stands for Technology, Entertainment, Design — three broad subject areas, where x=independently organized TED event. |
| Chairman | Bill and Melinda GATES foundation |
| Website | <http://www.gatesfoundation.org/tedxchange/Pages/default.aspx>  |
| Contact point  | info@gatesfoundation.org |

## Activities

|  |  |
| --- | --- |
| Summary of activities | Agricultural DevelopmentThree quarters of the 1.1 billion people living on less than $1 a day live in rural areas, and most rely on agriculture for their food and income. We work to help these small farmers boost their productivity, increase their incomes, and build better lives for their families. [Learn More](http://www.gatesfoundation.org/agriculturaldevelopment/Pages/default.aspx) Financial Services for the PoorFewer than 10 percent of the world's poor have access to safe, affordable financial services. We are working with a wide range of public and private partners to help make microfinance—particularly savings accounts—widely accessible to poor people throughout the developing world. [Learn More](http://www.gatesfoundation.org/financialservicesforthepoor/Pages/default.aspx) Water, Sanitation & HygieneWater, sanitation, and hygiene are all critical to reducing the burden of water-borne diseases, which kill 1.6 million children each year. But 2.5 times as many people lack safe sanitation as clean water. We are focusing our work on sanitation to reduce the burden of disease and improve the lives of the poor. [Learn More](http://www.gatesfoundation.org/topics/Pages/water-sanitation-hygiene.aspx) Special InitiativesWe learn and have impact across a range of development issues to help reduce poverty and increase opportunities. * [Libraries](http://www.gatesfoundation.org/libraries/Pages/default.aspx)
* [Urban Poverty](http://www.gatesfoundation.org/global-development/Pages/urban-poverty-special-initiative.aspx)
* [Emergency Response](http://www.gatesfoundation.org/topics/Pages/emergency-response.aspx)

Policy and AdvocacyLasting progress against global hunger and poverty will take international attention and commitment—from all corners and across all sectors. We work to increase awareness of global development issues, identify and promote powerful solutions, and advocate for more—and more effective—investments. |
| Website full description  | <http://www.gatesfoundation.org/global-development/Pages/overview.aspx>  |

# World Bank

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | World Bank |
| Président | Robert Zoellick |
| Website | <http://www.worldbank.org/>  |
| Contact point | The World Bank1818 H Street, NWWashington, DC 20433 USAtel: (202) 473-1000fax: (202) 477-6391 |

## Activities

|  |  |
| --- | --- |
| Summary of activities | The World Bank has supported more than 100 developing countries to reform their telecommunications and information and communications technology (ICT) sectors, helping spur investment and modernization that in turn accelerates economic growth and poverty reduction. Loans and technical assistance from both the International Development Association (IDA) and the International Bank for Reconstruction and Development (IBRD) have delivered results as diverse as connecting millions of people to cheaper telephone services in Afghanistan to helping residents of rural Nicaragua access the Internet for the first time.Information and Communication Technologies in Developing Countries |
| Website full description  | <http://siteresources.worldbank.org/NEWS/Resources/Results2011-SDN-SB-update-ICT.pdf>  |
| Documents | World Bank Policy Research Working Paper 3332, June 2004<http://www-wds.worldbank.org/external/default/WDSContentServer/WDSP/IB/2004/07/29/000160016_20040729155005/Rendered/PDF/wps3332.pdf>  |

# InfoDev

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | InfoDev |
| General Director | (managed by the World Bank) |
| Website | <http://www.infodev.org/en/Index.html>  |
| Contact point | The World Bank | 1818 H Street NW | Washington, DC 20433 | USA info@infodev.org |

## Activities

|  |  |
| --- | --- |
| Summary of activities | infoDev is a global partnership program in the Financial and Private Sector Development arm of the World Bank Group of international development agencies. We help donors and developing countries use innovation and information and communication technologies (ICT) to achieve economic growth, sustainable development and poverty reduction. |
| Website full description  | <http://www.infodev.org/en/Article.276.html>  |

**Documents**

|  |  |
| --- | --- |
| Scaling Up Innovation and Entrepreneurship in Developing Countries:  | <http://www.infodev.org/en/Publication.177.html>  |
| The eGovernment Handbook For Developing Countries | <http://www.infodev.org/en/Publication.16.html>  |
| Website full description  | <http://www.infodev.org/en/Index.html>  |
| Global Forum for Innovation and Technology Entrepreneurship Programme | <http://infodevgf.net/> |
| Innovation and Technology Entrepreneurship Initiative Launched in Three Developing World Regions | [http://web.worldbank.org/WBSITE/EXTERNAL/COUNTRIES/EASTASIAPACIFICEXT/0,,contentMDK:22426468~menuPK:2246553~pagePK:2865106~piPK:2865128~theSitePK:226301,00.html?cid=EXTEAPMonth1](http://web.worldbank.org/WBSITE/EXTERNAL/COUNTRIES/EASTASIAPACIFICEXT/0%2C%2CcontentMDK%3A22426468~menuPK%3A2246553~pagePK%3A2865106~piPK%3A2865128~theSitePK%3A226301%2C00.html?cid=EXTEAPMonth1)  |
| Climate Technology Program | <http://www.infoDev.org/climate> |
| Mobile Applications for development | As part of the *Creating Sustainable Businesses in the Knowledge Economy* program and to encourage innovation and competitiveness among SMEs, Finland, Nokia, and *info*Dev have placed a special importance on developing mobile activities.**Web:** <http://www.infodev.org/en/Topic.34.html> |

# [World Bank Institute](http://wbi.worldbank.org/wbi/)

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | World Bank institute |
|  President | Mr. Robert B. Zoellick |
| Website | <http://wbi.worldbank.org/wbi/>  |
| Contact point | <http://wbi.worldbank.org/wbi/contact>,  |

## Activities

|  |  |
| --- | --- |
| Summary of activities | The World Bank Institute (WBI) is a global connector of knowledge, learning and innovation for poverty reduction. It is part of the World Bank Group. We connect practitioners, networks and institutions to help them find solutions to their development challenges. |
| Website full description  | <http://www.infodev.org/en/Article.211.html><http://go.worldbank.org/34Z4AL4B10> |

**Documents**

|  |  |
| --- | --- |
| World Bank Policy Research Working Paper 3332, June 2004 | <http://www-wds.worldbank.org/external/default/WDSContentServer/WDSP/IB/2004/07/29/000160016_20040729155005/Rendered/PDF/wps3332.pdf> |
| Innovation Policyfor the Developing World Success Stories and Promising Approaches | <http://siteresources.worldbank.org/WBI/Resources/213798-1278955272198/Innovation_Policy2.pdf> Interesting presentation from 2003  |
| Guide for Developing Countries “Acting as a gardener” | <http://wbi.worldbank.org/wbi/devoutreach/article/378/innovation-policy-developing-world>  |

# WSIS

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | World Summit on Information Society |
| General Director | Charles Geiger |
| Website | <http://www.itu.int/wsis/index.html>  |
| Contact point |  |

**Activities**

|  |  |
| --- | --- |
| Summary of activities | The World Summit on the Information Society (WSIS) was a pair of United Nations-sponsored conferences about information, communication and, in broad terms, the information society that took place in 2003 in Geneva and in 2005 in Tunis. One of its chief aims was to bridge the so-called global digital divide separating rich countries from poor countries by spreading access to the Internet in the developing world. The conferences established 17 May as World Information Society Day. |
| Website full description  | <http://www.itu.int/wsis/basic/about.html> |

## Documents

|  |  |
| --- | --- |
| Facilitating India’s Knowledge Revolution Through Electronic Networks | <http://www.itu.int/ITU-D/ict_stories/themes/case_studies/bee.html> [National Innovation Foundation](http://www.nifindia.org)  [Grassroots Innovaiton Augmentation Network](http://www.gian.org)  |

# World Health Organization

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | World Health Organization |
| General Director | Dr Margaret Chan |
| Website | <http://www.who.int/>  |
| Contact point | Director-General's Office Media enquiries Tel; +41 22 791 2222 |

## Activities

|  |  |
| --- | --- |
| Summary of activities | The World Health Organization (WHO) is a specialized agency of the United Nations (UN) that acts as a coordinating authority on international public health. Established on 7 April 1948, with headquarters in Geneva, Switzerland, the agency inherited the mandate and resources of its predecessor, the Health Organization, which was an agency of the League of Nations.Regarding innovation WHO has following related sites are;* [Public Health, Innovation and Intellectual Property](http://www.who.int/phi/en/)
* [Commission on Intellectual Property Rights, Innovation and Public Health (CIPIH)](http://www.who.int/intellectualproperty/en/)
* [Tropical Diseases, Special Programme for Research and Training (TDR)](http://www.who.int/tdr/)
* [UNDP/UNFPA/WHO/World Bank Special Programme of Research, Development and Research Training in Human Reproduction (HRP)](http://www.who.int/reproductive-health/hrp/)
* [Genomic resource centre](http://www.who.int/genomics/)
* [Ethics and health](http://www.who.int/ethics/en/)
 |
| Website full description  | <http://www.who.int/topics/innovation/en/>  |

# Other Organizations

# Association for Information Systems Special Interest Group on ICT and Global Development

**Summary**

|  |  |
| --- | --- |
| Full name of (standards) body / group | Association For Information Systems Special Interest Group on ICT and Global Development |
| General Director/Chair | Edward A. Stohr,  |
| Website | <http://www.globdev.org/> |
| Contact point | Center for Technology Management ResearchWesley J. Howe School of Technology ManagementStevens Institute of Technology Hoboken, NJ 07030Tel: 201-216-8915 Cell: 201-993-5592 Fax: 201-216-5385e-mail: estohr@stevens.eduURL: <http://howe.stevens.edu/Faculty/EdwardStohr.html> |

**Activities**

|  |  |
| --- | --- |
| Summary of activities ; mission | Contribute to progress in the economically developing world through the appropriate use and diffusion of ICT and associated management practices.* Contribute significantly to tackling the problem of  global poverty and the global divide through its educational and research activities
* Provide stimulating intellectual and professional challenges to its members
* Show the relevance of the information systems discipline by helping AIS members play a leading role in the alleviation of an urgent global problem
 |

# [Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbHi](http://wbi.worldbank.org/wbi/)

## Summary

|  |  |
| --- | --- |
| Full name of (standards) body / group | Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbHi(German Society for Cooperation) |
| Managing Director | Dr. Hans-Joachim Preuß |
|  |  |
| Website | <http://www.giz.de/en/home.html>  |

## Activities

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| --- | --- |
| Summary of activities | ”ict@innovation is an African capacity building programme of FOSSFA and GIZ, which supports small and medium IT-enterprises and aims to encourage the growth of African ICT industriesOpenIT@giz (formerly: it@inwent programmes): “OpenIT@giz supports its partners in Africa and Asia to provide advanced knowledge in Information and Communication Technologies (ICTs), Open Innovation and Open Source Software. The key objectives of the OpenIT@giz programs (formerly: it@inwent programmes) are to strengthen IT sectors, foster open innovation for sustainable economic development, and use ICTs as enabling tools for poverty reduction” Promoting Free and Open Source Software in Southeast AsiaGIZ showcases ICT innovations at elearning Africa conference |
| Website full description  | <http://www.ict-innovation.fossfa.net/><http://www.it-inwent.org/><http://ict.ez-blogs.de/giz-showcases-ict-innovations-at-elearning-africa-conference/> |

# National Innovation Foundation, India

**Summary**

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| --- | --- |
| Full name of (standards) body / group | National Innovation Foundation, India |
| Chairman | Dr. R. A. Mashelkar |
| Website | <http://www.nif.org.in/> |
| Contact point | Bungalow 1, Satellite Complex,Jodhpur Tekra, Premchand Nagar, VastrapurAhmedabad 380 015, Gujarat |

**Activities**

|  |  |
| --- | --- |
| Summary of activities | <http://www.nif.org.in/know_us> The Department of Science and Technology (DST) India helped establish the National Innovation Foundation (NIF) - India, on Feb 28th 2000, with the main goal of providing institutional support in scouting, spawning, sustaining and scaling up grassroots green innovations and helping their transition to self supporting activities. It is mandated to build a National Register of green Grassroots Technological Innovations and Traditional Knowledge practices developed by various individuals and communities in the unorganized sector. |
| Website full description  | <http://www.nif.org.in/announcement>  |

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# Articles and Papers

# Developing countries and the ICT revolution Final Study

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Developing countries and the ICT revolution Final Study |
| Author(s) | Maurizio PEDRELLI, |
| Website | <http://www.europarl.europa.eu/stoa/publications/studies/20001401_en.pdf> |
| Contact point | Pragmata srl Reggio Emilia, Italy European Parliament |

**Activities**

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| --- | --- |
| Summary of activities | The objective of this project is to look at the potential role of the EU in supporting ICT capacity-building in low-income countries. Since 1984 the Maitland Commission report entitled The Missing Link stated that “no development programme of any country should be regarded as balanced, properly integrated, or likely to be effective unless it includes a full and appropriate role for telecommunications”. European parliament report on ‘Innovation Union: transforming Europe for a post-crisis world’, 27 April 2011 at the following URL;<http://www.europarl.europa.eu/sides/getDoc.do?type=REPORT&reference=A7-2011-0162&language=EN>  |

# Reconsidering the Digital Divide: A Look at Technology Innovation in Developing Countries

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Reconsidering the Digital Divide: A Look at Technology Innovation in Developing Countries |
| Author(s) | Abdelkader Benhabrim |
| Website | <http://www.lse.ac.uk/collections/informationSystems/iSChannel/iSChannel2009/article2.pdf>  |
| Contact point | Information Systems and Innovation Group, Department of Management, London School of Economics |

**Activities**

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| --- | --- |
| Website full description  | In the academic realm, the term digital divide which typically relates to the gap between those who have and do not have access to information and communication technologies (ICTs), has been an attractive subject on the scholarly and political agenda. The problem however is that the topic is highly fragmented in academic literature, and many of the research findingsare inconsistent and contradictory. In addition, too much of the research effort has gone into the ‗niceties‘ of measuring the divide and too little has been devoted to establishing a consistent analytical framework. In information systems and development terms, there have been few attempts to critically pinpoint the socio-economic impact of ICT innovation in developing nations and its relation with bridging the digital divide. The goal of this literature review accordingly, is to demonstrate howtheoretical perspectives regarding ICT innovation can strengthen digital divide research within the broader socio-economic context of developing nations. The paper simultaneously calls for more extensive empirical studies backed by theory and valid operational frameworks. |

# The Impact of Investment in IT on Economic Performance: Implications for Developing Countries

**Summary**

|  |  |
| --- | --- |
| Full name of Article | The Impact of Investment in IT on Economic Performance: Implications for Developing Countries[World Development](http://www.sciencedirect.com/science/journal/0305750X) [Volume 33, Issue 5](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235946%232005%23999669994%23592187%23FLA%23&_cdi=5946&_pubType=J&view=c&_auth=y&_acct=C000055298&_version=1&_urlVersion=0&_userid=1922613&md5=5bbba5752f0100d2b7241fa6739ad588), May 2005, Pages 681-700  |
| Author(s) | Rouben Indjikiana and Donald S. Siegela |
| Website | <http://www.sciencedirect.com/science/article/pii/S0305750X05000094>  |
| Contact point | **Rouben Indjikian**[**a**](http://www.sciencedirect.com/science/article/pii/S0305750X05000094#AFFX1) **and Donald S. Siegel**[**a**](http://www.sciencedirect.com/science/article/pii/S0305750X05000094#AFFX2)UNCTAD, Geneva, SwitzerlandRensselaer Polytechnic Institute, Troy, NY, USA |

## Activities

|  |  |
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| Summary of activities | “We review quantitative and qualitative research on the impact of IT on economic performance in developed and developing countries. In general, studies from the developed world have yielded evidence of a strong positive correlation between IT and economic performance, as well as IT-induced changes in workforce composition in favor of highly skilled or educated workers and organizational changes that allow firms to implement IT more effectively. in the workforce. “ |

# IT innovations and e-service delivery: an exploratory study

**Summary**

|  |  |
| --- | --- |
| Full name of Article | IT innovations and e-service delivery: an exploratory study Proceedings of the 9th International Conference on Social Implications of Computers in Developing Countries, São Paulo, Brazil, May 2007 |
| Author(s) | Mark Frolick, Adekunle Okunoye , Abiodun O. BadaWilliams College of Business, Xavier University  |
| Website | <http://www.ifipwg94.org/>  |
| Contact point | mark@frolick.net aobada@gwu.edu okunoye@xavier.edu  |

**Activities**

|  |  |
| --- | --- |
| Summary of activities | This study investigates the process through which new innovation is adopted in the service sector in developing countries. Studies have investigated factors which contribute both to delays in the adoption of a new information technology (IT) innovation and to delays in the realization of its potentials. However, issues involved when organizations add layers of new IT innovations have not been adequately examined. Such issues include factors that influence an organization to incrementally add a new IT, the process through which the increment is accomplished and the corresponding adaptation of associated service innovation.Organizations in developing countries (DCs) have over the past decade or so invested in and implemented series of IT and service innovations with varying degrees of success. In this study we propose a framework to help take stock of the various innovations that have been implemented and to understand the myriad of issues involved in the process of implementing these technologies and service innovations – especially when transiting from one innovation to another. As this study aims to examine the patterns of adopting new IT and service innovations in DCs, we would argue that such a study would enable us to understand how services can be better delivered with newer technologies, by learning from comparison of past experiences and present situations. |
| Website full description  | <http://www.ifipwg94.org.br/fullpapers/R0121-1.pdf>  |

# Information systems in developing countries: a critical research review

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Information systems in developing countries: a critical research review ARTICLE; Journal of Information Technology |
| Author(s) | Ms. Chrisanthi Avgerou |
| Website | <http://jite.org/> <http://www.palgrave-journals.com/jit/journal/v23/n3/full/2000136a.html> |
|  |  |
| Contact point | Department of Information Systems, London School of Economics & Political Science, London, UK Contact; Neil Henderson Tel: +44 (0) 1256 302959 ext 3116 E-mail: n.henderson@palgrave.com C.Avgerou@lse.ac.uk |

## Activities

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| Summary of activities | “In this paper I review the Information Systems (IS) research on how developing countries have attempted to benefit from ICTs. First I identify three discourses on IS implementation and associated organizational and social change that coexist in information systems in developing countries (ISDC) research, namely as a process of technology and knowledge transfer and adaptation to local social conditions; as a process of socially embedded action; and as a process of transformative techno-organizational intervention associated with global politics and economics. I then point out the distinctive research agenda that has been formed in ISDC studies, both in the more familiar IS themes – failure, outsourcing, and strategic value of ICT – and also in studies of themes relevant specifically to the context of developing countries, such as the development of community ICT and information resources. Finally, I call the reader's attention to the potentially significant theoretical contributions of ISDC research for understanding IS innovation in relation to social context and in relation to socio-economic development theories and policies.” |

# What Developing-World Companies Teach Us about Innovation

**Summary**

|  |  |
| --- | --- |
| Full name of Article | What Developing-World Companies Teach Us About Innovation |
| Author(s) | Donald N. Sull, Alejandro Ruelas-Gossi, and Martin Escobari from Harvard Business School |
| Website | <http://hbswk.hbs.edu/> Harvard Business School  |
| Contact point | Corporate Giving Inquiries 1-617-495-6889 kcietanno@hbs.edu |

**Activities**

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| --- | --- |
| Summary of activities | What Developing-World Companies Teach Us About Innovation To be sure, companies in developing countries face serious challenges, including political instability, volatile exchange rates, and an underdeveloped physical infrastructure. More critically, they must contend with three realities that particularly stymie innovation:* Developing countries generally lack a solid technology base of trained scientists and world-class research universities.
* Companies in developing countries must manage to eke out a profit while serving customers with low disposable income; per capita gross domestic product in the advanced economies is on average ten times that of developing nations.
* Managers in these companies must often innovate on a shoestring budget, since the high cost and scarcity of capital preclude massive spending on R&D. As a result, they must innovate from other areas of their business's structure, including manufacturing, logistics, marketing, and customer service.
 |
|   |  |
| Website full description  | <http://hbswk.hbs.edu/item/3866.html> |

# **Competitiveness Indices and Developing Countries: An Economic Evaluation of the Global Competitiveness Report**

**Summary**

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| --- | --- |
| Full name of Article | Competitiveness Indices and Developing Countries: An Economic Evaluation of the Global Competitiveness Report,ARTICLE; [World Development](http://www.sciencedirect.com/science/journal/0305750X) [Volume 29, Issue 9](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235946%232001%23999709990%23263119%23FLA%23&_cdi=5946&_pubType=J&view=c&_auth=y&_acct=C000055298&_version=1&_urlVersion=0&_userid=1922613&md5=63b2ef848dfa4c36177937bd1bf504c3), September 2001, Pages 1501-1525 |
| Author(s) | **Prof. Sanjaya Lall****,**  |
| Website | <http://www.sciencedirect.com/science/article/pii/S0305750X01000511>  |
| Contact point | Queen Elizabeth House, Oxford, UK |

## Activities

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| Summary of activities | “Developing countries' policy makers worry about national competitiveness and closely watch indices ranking international competitive performance. This paper analyzes, from a development economics perspective, if competitiveness is a legitimate concern, and if the leading indices deserve the attention they get. It assesses the best-known index, *The Global Competitiveness Report* of the World Economic Forum, and finds deficiencies at several levels. Its definitions are too broad, the approach biased and the methodology flawed. Many qualitative measures are vague, redundant or wrong. These weak theoretical and empirical foundations reduce the value of the indices for analytical or policy purposes.” |

# Discourses on Innovation and Development in Information Systems in Developing Countries’ Research

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Discourses on Innovation and Development in Information Systemsin Developing Countries’ ResearchARTICLE; Journal of Information Technology (23:3) 2008, pp 133-146. |
| Author(s) | Mr. Chrisanthi Avgerou  |
| Website | <http://www.ifip.dsg.aef>  |
| Contact point | Prof. Chrisanthi Avgerou, London School of Economics |

## Activities

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| --- | --- |
| Summary of activities | “There is a fairly large literature on Information Systems in Developing Countries (ISDC) research. Being nurtured within the field of Information Systems, ISDC research tends to focus on the development and implementation of information technology applications and the organizational changes associated with them. Nevertheless ISDC research has extended the IS research domain to consider the broader socio economic context of the organizations hosting new technologies. I will refer to this object of study of ISDC research as ‘IS innovation’ to convey the notion of novelty of experiences of IS implementation and the associated changes within the hosting organization and beyond it.” |
| Website full description  | [http://www.ifip.dsg.ae/Docs/FinalPDF/Full Papers/Avgerou\_Discourses on Innovation and Development.pdf](http://www.ifip.dsg.ae/Docs/FinalPDF/Full%20Papers/Avgerou_Discourses%20on%20Innovation%20and%20Development.pdf)  |

# Information and communications technology for future health systems in developing countries

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Information and communications technology for future health systems in developing countriesARTICLE; [Social Science & Medicine](http://www.sciencedirect.com/science/journal/02779536), [Volume 66, Issue 10](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235925%232008%23999339989%23686355%23FLA%23&_cdi=5925&_pubType=J&view=c&_auth=y&_acct=C000055298&_version=1&_urlVersion=0&_userid=1922613&md5=cb630e5b41f88d90611b0b6e0043756c), May 2008, Pages 2122-2132 |
| Author(s) | Prof. **Henry Lucas** |
| Website | <http://www.sciencedirect.com/science/article/pii/S0277953608000580> |
| Contact point | The Institute of Development Studies, University of Sussex, Brighton BN1 9RE, United Kingdom |

## Activities

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| --- | --- |
| Summary of activities | “There has been much discussion of the role that recent advances in information and communication technologies (ICTs) could play in improving health systems in developing countries, but limited independent analysis of existing applications. Combining a case study approach with a general discussion of the issues, this paper attempts to assess the potential benefits of a diverse range of ICT innovations and some of the constraints they will need to overcome. Four broad areas are considered: improvements in traditional health information systems; computer-aided diagnosis and treatment monitoring; a range of applications generically labeled ‘telemedicine’; and the use of ICT to inform general populations on health and healthcare. The final section speculates on the possible medium-term impacts of ICT in terms of improving the performance of existing systems, allowing scope for radical innovations, or even changing basic assumptions about the provider–patient relationship.” |

# Adoption of ICT in a government organization in a developing country: An empirical study

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Adoption of ICT in a government organization in a developing country: An empirical study, ARTICLE; [The Journal of Strategic Information Systems](http://www.sciencedirect.com/science/journal/09638687)[Volume 17, Issue 2](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%236027%232008%23999829997%23690541%23FLA%23&_cdi=6027&_pubType=J&view=c&_auth=y&_acct=C000055298&_version=1&_urlVersion=0&_userid=1922613&md5=be9b9f3359cbc368ec54b774e61faef8), June 2008, Pages 140-154, eGovernment Strategies: ICT innovation in international public sector contexts |
| Author(s) | **Babita Gupta****, Subhasish Dasgupta****and Atul Gupta** |
| Website | <http://www.sciencedirect.com/science/article/pii/S0963868707000650>  |
| Contact point | School of Business, California State University Monterey Bay, Seaside, CA 93955, USA |

## Activities

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| Summary of activities | “eGovernment initiatives all over the world endeavor to integrate Information and Communication Technologies (ICT) to transform delivery of government services to their stakeholders by improving quality of services, accountability and efficiency. In this study we explore adoption of ICT to enhance government-to-employee interactions in a government organization in a developing country. We examine this adoption behavior by utilizing the Unified Theory of Acceptance and Use of Technology (UTAUT) that provides an integrative view of user acceptance. We found that performance and effort expectancy, social influence and facilitating conditions all positively impact the use of the ICT. We did not find a significant moderating effect of gender on these relationships.” |

# Information and Communication Technologies and the Effects of Globalization: Twenty-First Century "Digital Slavery" for Developing Countries--Myth or Reality?

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Information and Communication Technologies and the Effects of Globalization: Twenty-First Century "Digital Slavery" for Developing Countries--Myth or Reality? Electronic Journal of Academic and Special Librarianship; v.6 no.1-2  |
| Author(s) | Prof. L. A. Ogunsola |
| Website | <http://southernlibrarianship.icaap.org/>  |
| Contact point | Hezekiah Oluwasanmi Library, Obafemi Awolowo UniversityIle - Ife, Nigeria |

## Activities

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| --- | --- |
| Summary of activities | “The main goal of this paper is to examine the ICT (Information and Communication Technology) revolution and the concept of globalization as they effect developing countries. Globalization as one of the reasons for possible widening of the gap between the poor and the rich nations was examined and the emerging concept of "digital slavery" was carefully evaluated. The wide gap in availability and use of ICTs across the world and the influences ICTs exert on globalization at the expense of developing countries were carefully examined and suggestions and necessary policies were offered for developing countries to leap-frog the industrialization stage and transform their economies into high value-added information economies that can compete with the advanced countries on the global market. This is why it is important for Africa, in general, and Nigeria, in particular, to be aware of the implications, prepare to avoid the most telling consequences and prepare to meet its challenges.” |
| Website full description  | <http://southernlibrarianship.icaap.org/content/v06n01/ogunsola_l01.htm>  |

# A Study of the problems associated with ICT adaptability in Developing Countries in the context of Distance Education

**Summary**

|  |  |
| --- | --- |
| Full name of Article | A Study of the problems associated with ICT adaptability in Developing Countries in the context of Distance Education,ARTICLE; Turkish Online Journal of Distance Education-TOJDE April 2003 ISSN 1302-6488 Volume:4 Number:2, |
| Author(s) | **Prof. M RAJESH, Assistant Regional Director,** |
| Website | <http://tojde.anadolu.edu.tr/tojde10/articles/rajesh.htm>  |
| Contact point | I**ndia Gandhi National Open University, Haryana-INDIA** |

## Activities

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| Summary of activities | ****“Communication technologies have come to play a vibrant role in democratizing Education not only in the Developed but also in the Developing Countries. However, in spreading the use of Information and communication technology some major difficulties are felt by the policy makers as well as the implementers. These difficulties are felt both at the growth and application stages of communication technology. Yaverbaum and Reisman highlights the importance of three aspects in the application of new information and communication technology”**** |

# Information and communication technologies for development: assessing the potential and the risks

**Summary**

|  |  |
| --- | --- |
| Full name of Article | Information and communication technologies for development: assessing the potential and the risks. Telecommunications policy, 23 (1), *pp. 35-50. ISSN 0308-5961,* |
| Author(s) | Prof. Robin Mansell |
| Website | <http://eprints.lse.ac.uk/26649/> |
| Contact point | Univ.of Sussex Mantell Building, Falmer, Brighton, East Sussex UK BN1 9RFTel. +44-1273-678165 Fax. +44-1273-685865 Email: r.e.mansell@sussex.ac.uk |

## Activities

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| Summary of activities | “This article provides a review of the United Nations Commission on Science and Technology for Development (UNCSTD) Working Group on ICTs and Development Report (Knowledge Societies: Information Technology for Sustainable Development, Oxford University Press, 1998). The author highlights key issues of ICTs in a development context; and summarizes the Report’s assessment of both potential and risks of ICTs for developing countries. A check-list derived from the Report provides guidelines for issues to consider in developing ICT policies and implementation strategies.” |

# **ICT Innovation in Contemporary India: Three Emerging Narratives**

**Summary**

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| --- | --- |
| Full name of Article | ICT Innovation in Contemporary India: Three Emerging Narratives |
| Author(s) | Sudhanshu Rai, Sutirtha Chatterjee, Suprateek Sarker |
| Website | <http://www.globdev.org/files/Proceedings-Third%20Annual%20SIG%20Globdev%20Workshop/1-Paper-Rai-Innovation%20in%20India.pdf>  |
| Contact point | Copenhagen Business School, Department of Informatics |

**Activities**

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| --- | --- |
| Summary of activities | The paper we present here discusses ICT innovation in India using a narrative framework. We argue that ICT innovation has not really been a subject matter sufficiently researched in information systems from the perspective of innovation in developing countries. We use a grounded theory inspired approach and we discovered three narratives of innovation in India; a) the supply narrative, b) the technology narrative and c) the collaborative narrative. We detect the evolution of these narratives and aim to continue further work to understand the factors involved in the emergence and shift of these narratives on a more granular level. |
| Website  | <http://www.globdev.org/>  |

# How Innovations from Developing Nations Trickle-Up to the West

**Summary**

|  |  |
| --- | --- |
| Full name of document | How Innovations from Developing Nations Trickle-Up to the West  |
| Author(s) | Michael Fitzgerald |
| Website | <http://www.fastcompany.com/magazine/133/as-the-world-turns.html>  |
| Contact point | tetzeli@fastcompany.com , nrobischon@fastcompany.com  |

# ICT in developing countries : A cross sectoral snapshot

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| --- | --- |
| Article Summary | The goal of this paper is to highlight the cross-sectoral importance of Information and Communication Technology (ICT) and give the big picture of ICT in developing countries. This is done by presenting a number of successful implementations of ICT applications. The examples are organized according to a simple framework consisting of three layers, which are ICT infrastructure, sector applications and use of applications. The cases throughout the paper shall serve as a basis for creative thought and innovation in ICT in developing countries |
| Author(s) | Alexander Osterwalder, University of Lausanne |
| Website | <http://www.hec.unil.ch/aosterwa/Documents/InternetInEmergingMarkets/Publications/ISGLOB03.pdf> |

# Mobile Applications Lab

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| --- | --- |
| Article Summary | Drawing on *info*Dev's expertise in business incubation and technology entrepreneurship, this program seeks to create open spaces where mobile application developers can interact, work, and gain access to tools and expertise to assist in the creation of viable mobile application businesses. To access a lab, local programmers, web designers or mobile application developers can register as members, at no charge or for a nominal fee, depending on a particular lab’s business model. Each lab will provide an environment conducive to the development of solutions that have the potential to scale commercially, by providing state of the art equipment used to develop, test and scale software, technical training and workshops on business skills. Further, the labs will act as gateways to local, regional and international markets and will connect entrepreneurs with seed, venture and angel investors.These labs, first established in Africa and then Eastern Europe and Asia, will provide a number of services including:* Training and accreditation for mobile applications developers;
* Certification for different mobile platforms;
* Hosting competitions for ideas and business models;
* Business mentoring for entrepreneurs;
* Replication of successful applications;
* A repository of ICT4D knowledge;
* Consumer behavior reseearch; and
* Access to finance and markets.
 |
| Author(s) | Infodev |
| Website | <http://www.infodev.org/en/Project.116.html> |
|  |  |

# mWomen BOP App Challenge - 2010

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| --- | --- |
| Article Summary | As mobile technologies continue to connect and empower individuals around the world, the GSMA mWomen Programme and Vodafone have teamed up to reach out to women in developing countries by promoting innovation in mobile applications creation. The mWomen BOP (Base of the Pyramid) App Challenge, sponsored by Vodafone, is meant to stimulate the creation of mobile phone applications for use by women in developing countries who are living on less than $2/day. While some of these women may have access to cellular phones, apps that address their daily activities and realities are lacking. This challenge directs application development at two different tiers of devices: 1) low end devices, or feature phones; and 2) smartphones. |
| Author(s) | Infodev |
| Website | <http://www.infodev.org/en/Project.116.html> |
|  |  |

**Examples of ICT Innovations for Developing Countries**

**Electricity**

|  |  |
| --- | --- |
| Title | Pedal Power for Kenya’s mobiles – Smart Charger for Mobile without electricity |
| Summary | Two Kenyan students are hoping to market a device that allows bicycle riders to charge their mobile phones to help people in rural areas without electricity. People have to travel great distances to shops where they are charged $2 a time to power their phone, usually from a car battery or solar panel. The device is so small you can put it in the pocket with the phone. |
| Author(s) | BBC News |
| Website | Read more:<http://news.bbc.co.uk/2/hi/africa/8166196.stm> |

# Mobile Payment

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| --- | --- |
| Article Summary | airtel Africa, Standard Chartered Bank and MasterCard Worldwide were honored for mobile payments innovation at the 16th Annual Global Mobile Awards held during Mobile World Congress (MWC) 2011. The recently launched virtual card product, developed in collaboration between airtel Africa, Standard Chartered and MasterCard, received top honors as the Best Mobile Money Product or Solution. |
| Author(s) | PRLog Press Release |
| Website | Read more :<http://www.prlog.org/11319284-airtel-africa-standard-chartered-bank-and-mastercard-honored-for-mobile-payments-innovation-at-mwc.html> |

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| Article Summary | Vodafone has unveiled the next ‘revolution’ in smartphones that will see shoppers use their handsets instead of cash or cards at the checkout.The mobile phone giant's partnership with Visa will allow users to pay for goods or services from the autumn with a wave or tap of their smartphone - in the same way Oyster cards are used on London's public transport.The service, which acts as a mobile wallet, will be available on Near Field Communications-enabled smartphones using a form of mobile payment technology called Visa payWave mobile. |
| Author(s) | Daily Mail |
| Website | Read more: <http://www.dailymail.co.uk/sciencetech/article-2107157/Vodafone-unveils-mobile-wallet-smartphones-swiped-till-pay-shopping.html#ixzz1v9yqeyTK> |

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| Title | Mobile Payment Systems in India |
| Summary  | The paper proposes new mobile payment system architectures supporting interoperability.  |
| Author(s) | D. Kumar, T Gonsalves, G. Raina, A. Jhunjhunwala, - IIT Madras |
| Website | Read more :  <http://www.google.ch/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CGkQFjAA&url=http%3A%2F%2Fwww.ncc.org.in%2Fdownload.php%3Ff%3DNCC2010%2FC4_3.pdf&ei=r1i1T_TPBYjP-gbNwY3xDQ&usg=AFQjCNFaSNbyIwH1ChNXEhFRwpBxjkHIDw&sig2=6wOAmOANWf2bIp3HPYt1Vg> |

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| Title | Mobile Payments – 2010 : A market analysis and overview |
| Summary  | Mobile payments are a hot topic in financial, telecommunication and technology circles right now. However, professionals across these industries have not yet come to a clear and mutually agreed definition and classification of mobile payments. This lack of agreement and specifically the bundling of payments with other processes such as ordering anddelivery creates confusion and slows the development in this field. In this section a proposal is made to view payments separately from other functions that can be performed with the mobile device. Additionally a simple classification of mobile payments by location and funding method is offered..  |
| Author(s) | INNOPAY |
| Website | Read more:  <https://www.nacha.org/userfiles/File/The_Internet_Council/Resources/Mobile%20payments%202010%20-%20Innopay.pdf> |

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| Title | Guidelines for mobile payment systems |
| Summary  |  The objective of the guidelines is to promote a sound financial structure including payment systems, clearing systems and adequate financial services. Therefore both entry and exit from the payment system by the mobile financial payment service providers shall require prior written approval of the Reserve Bank of Malawi. |
| Author(s) | Reserve Bank of Malawi (RBM) |
| Website | Read more:  <http://www.rbm.mw/documents/payment_systems/Mobile%20Payments%20Systems%20Guidelines.pdf> |

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| Title | Mobile Payments in the USA : |
| Summary  | The paper depicts the current mobile payments ecosystem in the U.S.; discusses barriers, gaps, and opportunities; and sets forth a set of foundational elements that workgroup participants believe are fundamental to the development of a robust mobile payments environment. This “vision” for the future is built upon the recognition that the current environment faces many challenges and that success will require extensive collaboration between participants to ensure that consumers see a homogenous solution as they do today in other payment channels such as checks, ACH, and cards. Moreover, it must be a solution based on agreed upon standards, rules, and practices that ensure seamless interoperability regardless of the handset, mobile carrier, financial institution, payment network, or merchant location involved in any individual’s desired transaction. |
| Author(s) | Federal Reserve Bank of Boston and Federal Reserve Bank of Atlanta |
| Website | Read more:  <http://www.frbatlanta.org/documents/rprf/rprf_pubs/110325_wp.pdf> |

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| Title | Joint EPC-GSMA Paper 'Mobile Contactless Payments Service Management Roles - Requirements and Specifications |
| Summary  | The paper describes the provision and lifecycle management- including distribution, configuration, activation, maintenance and deletion - of banks' mobile contactless payment applications when integrated with a mobile phone. It also outlines the role of the "Trusted Service Manager", which is to support banks and mobile operators aiming to promote mobile contactless payments. This document describes the main processes between Issuers and MNOs necessary to load and manage the MCP Application(s) on the UICC (note that the payment transaction itself is out of scope of this document). These processes are defined in terms of Service Management Roles (SMRs).  |
| Author(s) | GSMA and European payments council (EPC) |
| Website | Read more: <http://www.europeanpaymentscouncil.eu/knowledge_bank_download.cfm?file=Mobile%20Contactless%20Payments%20Service%20Management%20Roles%20Requirements%20and%20Specifications%20v.2.pdf> EPC Newsletter<http://www.europeanpaymentscouncil.eu/pdf/EPC_Article_140.pdf> |

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| Title | Global Trends in M-Payments – Challenges and opportunities |
| Summary  | Overview of M-Payment Services (Powerpoint Slides) |
| Author(s) | Arthur D. Little |
| Website | Read more:  <http://www.aicto.org/fileadmin/medias/Seminars/M_payment/presentations/100223_MPayment_Tunis_Karim-Taga.pdf> |

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| Title | M-Payments in M-BRIC |
| Summary  | Mobile financial services are experiencing a global surge, especially in emerging markets. Global total transaction volume is expected to reach approximately USD 280 billion by 2015. Clearly, there is an enormous potential for M-payments in M-BRIC countries, but how to best capture it? This article provides an overview of the best entry strategies and indicates how players in each country must consider specific local requirements in order to succeed in the m-payment market. |
| Author(s) | Arthur D. Little |
| Website | Read more:  [h<http://www.adlittle.com/downloads/tx_adlreports/ADL_2010_M_Payments_in_M_BRIC.pdf>](http://www.aicto.org/fileadmin/medias/Seminars/M_payment/presentations/100223_MPayment_Tunis_Karim-Taga.pdf) |

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| Title | MPESA |
| Summary  | Series of articles on M-PESAIn March 2007, Kenya's largest mobile network operator, Safaricom (part of the Vodafone Group), launched [M-PESA](http://www.safaricom.co.ke/m-pesa/), an innovative payment service for the unbanked. "Pesa" is the Swahili word for cash; the "M" is for mobile. Within the first month Safaricom had registered over 20,000 M-PESA customers, well ahead of the targeted business plan. This rapid take-up is a clear sign that M-PESA fills a gap in the market. The product concept is very simple: an M-PESA customer can use his or her mobile phone to move money quickly, securely, and across great distances, directly to another mobile phone user. The customer does not need to have a bank account, but registers with Safaricom for an M-PESA account. Customers turn cash into e-money at Safaricom dealers, and then follow simple instructions on their phones to make payments through their M-PESA accounts; the system provides money transfers as banks do in the developed world. The account is very secure, PIN-protected, and supported with a 24/7 service provided by Safaricom and Vodafone Group. |
| Author(s) |  |
| Website | Read more:  1. <http://www.policyinnovations.org/ideas/innovations/data/m_pesa>
2. MPESA Case Study : [http://www.policyinnovations.org/ideas/policy\_library/data/m\_pesa/\_res/id=sa\_File1/INNOV0201\_pp-63-81\_hughes-lonie\_1.pdf](http://www.policyinnovations.org/ideas/policy_library/data/m_pesa/_res/id%3Dsa_File1/INNOV0201_pp-63-81_hughes-lonie_1.pdf)
3. [http://www.ifc.org/ifcext/gfm.nsf/AttachmentsByTitle/Tool6.7.CaseStudy-M-PESAKenya+/$FILE/Tool+6.7.+Case+Study+-+M-PESA+Kenya+.pdf](http://www.ifc.org/ifcext/gfm.nsf/AttachmentsByTitle/Tool6.7.CaseStudy-M-PESAKenya%2B/%24FILE/Tool%2B6.7.%2BCase%2BStudy%2B-%2BM-PESA%2BKenya%2B.pdf)
4. Comparison of M-PESA with other systems:<http://mmublog.org/wp-content/files_mf/ssrnid1830704.pdf>
5. <http://en.wikipedia.org/wiki/M-Pesa>
6. Economics of M-PESA (MIT Report) : <http://www.mit.edu/~tavneet/M-PESA.pdf>
7. <http://www.talkstandards.com/case-study-m-pesa/>
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| Title | McKinsey on Payments |
| Summary  | Report on possible applications for mobile payments in developing countries. |
| Author(s) |  |
| Website | Read more:  <http://www.mckinsey.com/App_Media/Reports/Financial_Services/Mobile_payments_Ringing_louder.pdf> |

**E-HEALTH**

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| Title | SMART-PHONE BASED EYE EXAM |
| Summary | Smart vision for mobile phones in the developing world – using the mobile phones for doing eye tests.  |
| Author | J. Fildes – BBC News |
| Website | Read more:<http://www.theworld.org/2010/09/mit-develop-smartphone-eye-exam/><http://www.bbc.co.uk/news/technology-11374632>  |

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| Title | Phone gadget to diagnose disease – Portable Healthcare Clinic |
| Summary | An add-on fitted to a mobile phone that can take detailed images and analyse them to diagnose diseases such as tuberculosis**.** In many developing world and rural areas, a person could be hundreds of miles from hospitals or miles away from power - but the mobile infrastructure is well-established.If the person has a mobile, battery-operated system to take images, analyse, and transfer them with the add-on, this leads to creating a portable healthcare clinic. The doctor can see the samples without actually having to be present. |
| Author(s) | BBC News |
| Website | Read more:<http://news.bbc.co.uk/2/hi/technology/8161775.stm>,  |

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| Title | Sana |
| Summary  | The Sana Philippines team is designing and implementing a cell phone based telemedicine system that will improve the identification, management, and treatment of hypertension, one of the most prevalent disorders striking populations in both the developed and developing world. |
| Sector | Tele-Medicine, Public – Private |
| Author(s) |  |
| Country | Philippines |
| Website | Read more:  <http://sana.mit.edu/2011/02/17/sana-partners-with-dotph-in-the-philippines/><http://sana.mit.edu/platform/><http://sana.mit.edu/mission/approach/><http://sana.mit.edu/mission/projects/><http://sana.org.ph> |

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| Title | Grace App For Autism |
| Summary  | The Grace App for Autism helps autistic and other special needs children to communicate effectively, by building semantic sequences from relevant images to form sentences. The app can be easily customized by using picture and photo vocabulary of your choice.The application works in real time and allows the user to select their preferences, and then rotate the device (for instance iPhone) to present a full-sized sentence to the listener – who will read it with them and respond. |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Ireland |
| Website | Read more:  <http://www.graceapp.com/what-is-grace-app/><http://www.graceapp.com/guide-to-grace-app/> |

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| Title | Mobile Link Service (MLS) |
| Summary  | Innovative 24-hour outdoor emergency support and care service to enhance the social inclusion of seniors by empowering their independence and mobility in the community. The Centre can also identify the approximate location and path of the Mobile Link Device - upon receipt of a request and also consent from the service user or designated contact person. It helps save people from medical emergencies. |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Hong Kong |
| Website | Read more:  <http://www.avantageventures.com/avcatalogue/sv-senior-citizen-home-safety-association-schsa> |

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| Title | Medica |
| Summary  | A multimedia prescription manager and medication reminder. With Medica, users can store and manage as many prescriptions as they wish, each with multiple medications. The application also reminds patients to attend treatment sessions and follow-ups. Users can record audio messages from doctors and attach the audio to the prescription, so as to recall the doctor’s face-to-face instructions. |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Egypt |
| Website | Read more:  <http://irwaa.com/><http://irwaa.com/medica/> |

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| Title | MMS Sign - To make cell phones accessible to deaf  |
| Summary  | The project consists of a new service which converts SMS received by the telecom operator to MMS: the deaf person receives the MMS containing a translation of the initial textual message into sign language (based on a 3D avatar). |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Tunisia |
| Website | Read more:  <http://hebergcck224.rnu.tn/websin/mmssign2/home.php><http://www.utic.rnu.tn/mmssign>  |

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| Title | Mobile-based Health Management System  |
| Summary  | This application combines readings a patient from various measuring devices such as a blood glucose meter. Software on the patient’s mobile phone recommends a certain course of action to be taken by the patient depending on the readings obtained. In critical situations, the software may notify the patient’s doctor or caregiver. |
| Sector | Tele-Medicine, Private |
| Author(s) |  |
| Country | Trinidad and Tobago |
| Website | Read more:  <http://www.pmohan.org/medinet/><http://research.microsoft.com/en-us/events/ersymposium2009/healthcare_mgt_sys_cell_phone_tech.pdf> |

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| Title | MPEDIGREE |
| Summary  | In order to fight the deadly consequences of the growing global counterfeit pharmaceutics market, MPedigree enables anyone in a developing country with access to a cell phone to authenticate their drugs before use. Users reveal a single-use code on drugs and SMS it to a provisioned mobile short code, which, in turn, generates an automated verification response. |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Ghana |
| Website | Read more:  <http://www.mpedigree.org/home/><http://sproxil.com/><http://www.mpedigree.org/home/symptoms.php> |

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| Title | Logica Hygieia |
|  | With Hygieia, when a doctor types a prescription on his computer, the prescription is transmitted directly to the intelligent Hygieia server, which then forms a daily planner for the patient and sends it to his mobile device. The solution can be activated by the customer by downloading the application on one’s mobile phone or any other device that provides network ability.  It is the delivery of health-related services and information via telecommunication technologies, which can be utilized to support the productive interactions between patient and caregiver. Hygieia, empowers customers to be more proactive towards their health. |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | India |
| Website | Read more:[http://site.logica.com/logica+hygieia+-+preventive+healthcare/400017267](http://site.logica.com/logica%2Bhygieia%2B-%2Bpreventive%2Bhealthcare/400017267) |

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| Title | Etisalat ‘Mobile Baby’ |
| Summary | Mobile Baby will save countless lives whilst greatly enhancing the quality of living of millions of women across the continent. Etisalat already deployed its Maternal Health program in the Tanzania, Nigeria, UAE and Saudi Arabia. In sub-Saharan Africa, 500,000 women die each year in pregnancy and the risk of maternal death is 50 times higher compared to developed countries. Studies also indicate that more than ¾ of maternal deaths take place during or within 24 hours of childbirth and that 4 million babies die during the first 28 days of life. Etisalat Mobile Baby uses mobile technology features in order to:•Remotely monitor pregnancy evolution using ultrasound•Identify and report danger signs during labour and delivery•Pay for emergency transportation using money on the phone•Communicate with the referral facility to indicate a woman’s need for emergency transfer and her requirements on arrival |
| Sector | Healthcare, Private |
| Author(s) |  |
| Country | Africa, UAE |
| Website | Read more :<http://www.mwomen.org/News/etisalat-mobile-baby-wins-mwomen-global-mobile-award><http://www.globalmobileawards.com/categories/Category4bmWomenEmergingMarkets.php> |

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| Title | **Project Masiluleke** |
| Summary | The project partners are developing a breakthrough distributed diagnostics model: low cost HIV testing and counseling support via mobile phone. Individuals are eager to have an HIV Self Test, with both patients and health workers preferring counseling via Cell Phone. |
| Sector | Mobile Healthcare |
| Author(s) |  |
| Country | South Africa |
| Website | Read more:<http://poptech.org/project_m/> |

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| Title | **CADA – Project** |
| Summary | The project proposes to design and prototype an age and culturally appropriate interactive diabetes self-management support system on smart phones for robust (independent in activities of daily living) elderly population with diabetes in urban and rural China. |
| Sector | Mobile Healthcare |
| Author(s) |  |
| Country | China |
| Website | Read more:<http://www.cadaproject.com/index.php?pag=project><http://www.cadaproject.com/data/brochure.pdf> |

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| Title | Spider – ITIDO |
| Summary | The project propses to develop a hybrid ( web/mobile) system that would enable the recording and tracking reproductive and child health information, facilitating antenatal and postnatal care and better communication between various health service providers in the Rufiji District in the Coastal Region. |
| Sector | Healthcare |
| Author(s) |  |
| Country | Tanzania |
| Website | Read more:<http://spidercenter.org/projects/improving-reproductive-and-child-health-services-through-ict#overlay-context=projects><http://www.itido.or.tz/modules/pages/projects/view_project.php?menuid=MM14&projectID=11> |

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| Title | **EpiSurveyor ( LAUNCH )** |
| Summary | LAUNCH uses EpiSurveyor mobile, a mobile application designed by DataDyne that facilitates transfer of data through pre-sent forms on smart phones and enables transmission of data from the phones directly to the internet for immediate view and use. LAUNCH project is working in Bong and Nimba countries to improve food security and reduce chronic malnutrition of vulnerable women and children under 5 years old. In order to better reach project beneficiaries and to improve quality of nutrition inventions, LAUNCH has recently started an electronic data collection system at food distribution points (FDPs) designed to streamline the beneficiary registration process and collect nutrition and health monitoring information efficiently and cost effectively. EpiSurvveyor is a free open-source mobile software program that makes data collection a more manageable and eco-friendly task for public health workers. |
| Sector | Rural Healthcare |
| Author(s) | DataDyne |
| Country | Liberia |
| Website | Read more:<http://www.jsi.com/JSIInternet/Features/article/display.cfm?thisSection=Features&thisSectionTitle=Features&thisPage=stories&ctid=1030&cid=399&tid=20&id=535><http://www.episurveyor.org/user/index><http://www.datadyne.org/episurveyor/faq> |

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| Title | **DGFP Supply Chain Portal** |
| Summary | The web-based Logistics Management Information System (LMIS) was developed by the USAID | DELIVER PROJECT and updated by the Strengthening Pharmaceutical Systems (SPS) Program for the Directorate General of Family Planning (DGFP). The web portal helps in keeping a Central repository for DGFP logistics data, stock status data provided for all levels of the supply chain and provides consumption data for reproductive health commodities. The web portal provides timely information for logistics decision making, facilitates decisions making to improve supply chain management, donors and stakeholders can access web-based reports, Upazila and field stock status are available immediately after data entry, facilitates supply planning and facilitates improved supervision and monitoring at all levels. |
| Sector | Pharmaceutical Management and Healthcare |
| Author(s) |  |
| Country | Bangladesh |
| Website | Read more:<http://www.dgfplmis.org/index.php?option=com_content&view=article&id=8><http://www.dgfplmis.org/index.php?option=com_content&view=category&layout=blog&id=7><http://www.msh.org/news-bureau/Bangladesh-supply-chain-information-portal-receives-two-digital-innovation-awards.cfm> |

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| Title | **ILS Gateway** |
| Summary | In Tanzania, availability of high quality logistics data has been one of the greatest challenges facing the health care system. Without this data, decision makers cannot adequately mange the supply chain, risking the possibility that patients won’t receive the medicines they need. The ILS was a major step towards keeping Tanzania’s health facilities supplied, but stock outs remained high. Facility level data was not available for decision making.Created to enhance supply chain decisionmaking, the ILS Gateway is a mobile health alert and reporting system designed to increase the visibility of logistics data and improve product availability. The system was developed with an eye on sustainability, requiring health facility personnel to use personal cell phones to send logistics data via SMS to a toll free number. This data is then transmitted to a website that analyzes and displays the information. |
| Sector | Healthcare and logistics |
| Author(s) |  |
| Country | Tanazania |
| Website | Read more:<http://www.jsi.com/JSIInternet/Features/article/display.cfm?thisSection=Features&thisSectionTitle=Features&thisPage=stories&ctid=1030&cid=260&tid=20&id=414><http://deliver.jsi.com/dhome/search/searchdetail?p_item_id=26504341&p_token=FDA260ECEF680581B3CDB1610E1F3E2F&p_item_title=Tanzania%20Works%20to%20Integrate%20Logistics%20Systems%20and%20Promote%20Contraceptive%20Security><http://openlmis.org/mhealths-impact-on-supply-chain-performance/><http://deliver.jsi.com/dhome/topics/supplychain><http://deliver.jsi.com/dlvr_content/images/imgprocurement/RFQ_VHL_08_15.pdf> |

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| Title | CLMM |
| Summary | The CLMM system was developed to ensure that the right medication in the right dosage is given to the right patient at the right time. This system implemented by the Integrated Health Information System Pt.Ltd(IHiS) was fully deployed at National University Hospital (NUH) Singapore. CLMM claims to eliminate human errors, enhance patient safety and improve operational efficiency. |
| Sector | Healthcare |
| Author(s) |  |
| Country | Singapore |
| Website | Read more:<http://www.nia.sg/past-winners/nuh-and-ttsh> |

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| Title | Dokoza System |
| Summary | Dokoza is an advanced mobile to web system which has been patented and developed in SA to use initially in HIV/AIDS management, but has the potential to deal with other diseases such as TB.STDs / diabetes, hypertension etc. Dokoza relies on simcards that can be used across networks which interact with a more complex back-end system that integrates with existing hospital information system. |
| Sector | Healthcare |
| Author(s) |  |
| Country | South Africa |
| Website | Read more:<http://healthmarketinnovations.org/program/dokoza-system-disease-management><http://www.nha.co.za/content/news/2005/9_june.asp> |

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| Title | iKure ( WHIMS) |
| Summary | WHIMS IS loaded in a computer made available to the rural people on the field, after short training. Medical equipment is then interfaced with the user-friendly software and related patient data is transferred real-time to a hospital/formal clinic- based doctor to advise and monitor the patient. |
| Sector | Healthcare |
| Author(s) | **iKure** |
| Country | India |
| Website | Read more:<http://www.ikuretechsoft.com/home/index.php/product/whims><http://www.ikuretechsoft.com/home/index.php/component/content/article/35-frontpage/92-health-for-remotest-area-the-ikure-way><http://www.ikuretechsoft.com/home/index.php/company/about-us><http://www.ikuretechsoft.com/home/> |

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| Title | ReMeDia |
| Summary | An indigenously developed low-cost ReMeDi Medical Data Acquisition Unit and ReMeDi software can measure basic physiological parameters like ECG, temperature, blood-pressure, oxygen saturation, and heart & lung sounds in real time and provides patient’s vital information to a remote doctor for preliminary diagnosis. |
| Sector | Healthcare |
| Author(s) |  |
| Country | India |
| Website | Read more:<http://www.changemakers.com/changeshop/remedi-enabling-access-rural-healthcare> |

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| Title | **Changamka Microhealth Smartcard** |
| Summary | The card provides a wallet for pre-paid purchases of health care which is available in a pre-determined price-contracted packages containing a) Consultation b) One laboratory test c) Drugs, for a broad range of diseases. |
| Sector | Rural Healthcare |
| Author(s) |  |
| Country | Kenya |
| Website | Read more:<http://healthmarketinnovations.org/program/changamka-microhealth-limited> |

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| Title | Mobile IMCI ( AIEPI Movil ) - MIP |
| Summary | Peru is a leading implementer on South America of this lifesaving clinical and community health practice. MIP is a mobile information platform where one can import short messages and then have them transmitted automatically to any group of people with mobile phones. |
| Sector | Rural Healthcare |
| Author(s) | DataDyne |
| Country | Peru |
| Website | Read more :<http://www.datadyne.org/programs/mip/mobileimci> |

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| Title | TRACnet |
| Summary | It is a dynamic information technologysystem designed to collect, store, retrieve, display anddisseminate critical program information, as well as to managedrug distribution and patient information related to the careand treatment of HIV/AIDS. This system enables practitionersinvolved in anti-retroviral (ARV) treatment programs to submitreports electronically and have timely access to vital information.By dialling 3456, a toll free number, or logging onto a bilingualwebsite (English and French), health centre staffers cansubmit or receive programme results on HIV/AIDS patients assoon as they are processed. TRACnet uses solar energy chargeablemobile phones, which can be used in the most remoteparts of the country. |
| Sector | Rural Healthcare |
| Author(s) |  |
| Country | Rwanda |
| Website | Read more:<http://www.un.org/esa/sustdev/publications/africa_casestudies/tracnet.pdf> |

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| Title | EpiHandy |
| Summary | Health data collection in the developing world is often hampered by the costs and inefficiencies of traditional large-scale paper-based surveys. The EpiHandy tool a mobile health data collection and record access program enabled by the PDAs, helps to mitigate these issues. |
| Sector | Healthcare |
| Author(s) |  |
| Country | Uganda, Burkina Faso, Zambia |
| Website | Read more:<http://wn.com/EpiHandy_Mobile_Data_Collection_For_Improved_Health><http://www.kiwanja.net/database/project/Project_EpiHandy.pdf> |

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| Title | i-DART |
| Summary | iDART is a software solution designed to support the dispensing of ARV drugs in the public healthcare sector. The intelligent Dispensing of ART software is used by the pharamacists to manage the supplies of ARV stocks, print reports and manage collection of drugs by patients. The software is also designed to address the reporting requirements of Government, international funders (such as PEPFAR) and internal clinical data such as identifying patients who have not collected their medication for an extended period of time. |
| Sector | Public healthcare  |
| Author(s) | Cell-Life |
| Country | South Africa |
| Website | Read more:<http://www.cell-life.org/dispense-idart> |

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| Title | Mashavu |
| Summary | Essential medical data is collected at Mashavu Kiosks/Stations in developing communities by trained operators and sent by mobile phone to a remote server. Medical professionals can then ‘’electronically adopt’’ children by logging on to a web portal to monitor the children’s health, provide feedback to advice to the child’s caregivers and collect health statistics for follow-up and review. |
| Sector | Rural healthcare |
| Author(s) |  |
| Country | Tanzania |
| Website | Read more:<http://www.ideatoproduct.org/global/images/stories/presentations2010/McCombs_Sabine_i2p_presentations_Saturday/Mashavu_11.6.pdf><http://healthmarketinnovations.org/program/mashavu-networked-health-solutions-for-the-developing-world> |

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| Title | M-DOK |
| Summary | M-DOK is a mobile telehealth system which aids transmission of real-time diagnosis and treatment of data from the community health workers to an urban physician. The project aims to deliver electronic patient records via SMS. |
| Sector | Rural healthcare |
| Author(s) | Synapse |
| Country | Philippines |
| Website | Read more:<http://healthmarketinnovations.org/program/m-dok-mobile-telehealth-and-information-resource-system-for-community-health-workers><http://www.healthunbound.org/content/m-dok-mobile-telehealth-and-information-resource-system-community-health-workers-philippin-0><http://www.amic.org.sg/ict/external/awards/0501A3_L19_interim_report1.pdf> |

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| Title | **Vibrations – Pocket SMS – android application for deaf and blind** |
| Summary | It is an application for Android Phones, which gives tactile input to the user. The application, converts the incoming text message into Morse Code. Sensing vibrations of short and long duration to represent dots and dashes, the deaf-blind user is able to read the SMS. Any android keyboard can be used in replying. |
| Sector | Healthcare |
| Author(s) | Bapsi.org |
| Country | India |
| Website | Read more:<http://www.bapsi.org/pocketsms-for-android> |

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| Title | Novartis – SMS for Life |
| Summary | SMS for Life harnesses everyday technology to improve access to essential malaria medicines in rural areas of developing countries. It uses a combination of mobile phones, SMS messages and electronic mapping technology to track weekly stock levels at public health facilities in order to:* Eliminate stock-outs
* Increase access to essential medicines
* Reduce the number of deaths from malaria

Every 60 seconds, a child dies of malaria in Africa. Approximately 86% of all deaths from malaria occur in children under the age of five. |
| Sector | Rural Healthcare |
| Author(s) | Novartis |
| Country | Sub-Saharan Africa |
| Website | Read more:<http://malaria.novartis.com/innovation/sms-for-life/index.shtml><http://www.malaria.novartis.com/> |

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| Title | ACEHearing |
| Summary | A hearing assistance and testing technology that can be incorporated into smart phones. It helps a wide spectrum of people, from those with a small amount of hearing loss to people with severe hearing loss. |
| Sector | Healthcare |
| Author(s) | Ximplar |
| Country | HongKong |
| Website | Read more:<http://www.wsj-asia.com/aia/240811-H--A-024_Ximplar.pdf> |

**E-AGRICULTURE**

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| Title | ITC Limited (e-choupal) |
| Summary  | Member farmers receive information, order products and services needed to enhance their farming productivity, and sell their harvests at fair market prices. Today, 4 million farmers in 40,000 villages use 6,500 e-Choupals to their advantage, bargaining as virtual buyers’ cooperatives. |
| Sector | Agriculture, Public – Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  <http://www.itcportal.com/itc-business/agri-business/e-choupal.aspx><http://www.echoupal.com/><http://itcportal.com/itc-business/agri-business/agri-commodities-and-rural-services.aspx><http://www.itcportal.com/about-itc/newsroom/press-reports/PressReport.aspx?id=1177&type=C&news=ITC-plans-personalised-crop-management-services-via-e-Choupal-3> |

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| Title | AgriManagr |
| Summary  | Virtual City AgriManagr allows users to manage the weighing, grading and receipting of produce collected from each farmer at the collection point. The system also makes it possible to pay suppliers using cashless transactions, and to track & reward the most loyal customers and suppliers. Thus, Virtual City AgriManagr reduced costs while improving relationships with customers and suppliers. |
| Sector | Agriculture, Private |
| Author(s) |  |
| Country | Kenya |
| Website | Read more:  <http://www.virtualcity.co.ke/solution.php?alias=agrimanagr> |

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| Title | Esoko |
| Summary  | Links mobile phones to web-based management systems. It enables agri-business, agri-associations and other agri-projects to systematically build polls, and automatically scouts participants for critical field information. The scout technology can be programmed to send or receive text messages from participants in the field in order to track activities and inventories or evaluate crop behavior, dramatically reducing the cost of real-time distribution and recovery of responses from thousands of participants. |
| Sector | Agriculture, Private |
| Author(s) |  |
| Country | Ghana |
| Website | Read more:  <http://www.esoko.com/about/index.htm><http://www.esoko.com/about/services.htm> |

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| Title | mFisheries |
| Summary  | The two main market-related apps in the suite are Got Fish Need Fish (GFNF) and Prices, which together constitute a virtual marketplace. GFNF is an interactive application that links individuals who have fish for sale with those who want to purchase fish. The app displays matches of those selling and buying a particular type of fish and gives the contact details to facilitate the sale. The Prices app displays the most recent prices that different types of fish sold at in two local markets. These prices are gathered each day by the National Agricultural Marketing Development Corporation. A number of other apps in the mFisheries suite address other key concerns, especially safety at sea. These include a compass, GPS tracking and an SOS alert. In an emergency, the SOS Alert sends pre-defined e-mails and text messages to a number of prescribed recipients and automatically initiates a call to the Trinidad and Tobago coastguard |
| Sector | Aquaculture, Private |
| Author(s) |  |
| Country | Trinidad and Tobago |
| Website | Read more:  <http://ictupdate.cta.int/mobileen/Feature-Articles/A-smart-fishing-suite> |

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| Title | TCS mKrishi |
|  | TCS’ Mobile Agro Advisory System (mKrishi) connects farmers with an ecosystem that empowers them to make sound decisions about agriculture, drive profits and conserve the environment. Farmers require information on weather, soil, fertilizer and pesticide that are specific to their plot of land. They need information on the type of seeds, crops available in the market and local market prices. |
| Sector | Agriculture, Private |
| Author(s) |  |
| Country | India |
| Website | Read more:<http://www.tcs.com/resources/brochures/Pages/TCS_mKrishi-Mobile_Agro_Advisory_System.aspx><http://www.tcs.com/SiteCollectionDocuments/Brochures/Innovation_Brochure_TCS_Agro_Advisory_System_10_2010.pdf> |

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| Title | **DatAgro – COOPEUMO** |
| Summary | COOPEUMO farmers using DatAgro, can find out information about prices, product prices, the weather, and what’s going on in international markets. The DatAgro project is taking advantage of the high penetration rate of cellphones in Latin America to allow rural farming cooperatives in Latin America, beginning with Chile, to define the types of information most critical to their lives and livelihoods. |
| Sector | Agriculture, Private |
| Author(s) | DataDyne.org |
| Country | Chile |
| Website | Read more:<http://www.datadyne.org/programs/mip/datagro><http://www.datadyne.org/programs/mip/datagro-es><http://www.coopeumo.cl/index.php?option=com_content&view=section&id=8&Itemid=58><http://www.coopeumo.cl/index.php?option=com_content&view=article&catid=63%3Anuestros-servicios&id=91%3Acreditos-agricolas&Itemid=60> |

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| Title | Radio Marché (or ‘market radio’), (W4RA- Web Alliance for Regreening in Africa) |
| Summary  | It supports agricultural value chains by delivering market information and simplifying the trading of goods in the region. Radio Marché is based on a combination of cell phone, voice and web technologies, and has been designed to automatically generate voice messages containing market information that can be broadcast over the radio. The project W4RA has been part of VOICES (VOIce-based Community–cEntric mobile Services) which is voice-based web access and its application in agriculture and health. |
| Sector | Agriculture, Private |
| Author(s) |  |
| Country | Mali |
| Website | Read more:  <http://ictupdate.cta.int/mobileen/Feature-Articles/A-new-voice-on-the-market> |

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| Title | IBM InfoSphere System |
| Summary | Mobile devices can ensure food safety and quality, as this system developed by IBM can track food through the supply chain. Under the IBM’s Infoshpere system, foods receive a unique bar code during each stage of production and distribution. Using QR codes, the system identifies farms, slaughterhouses, shipping containers etc. The software also work with manufactures, spinning up risk models and gauging probability, to pinpoint the sources of contamination and to curb the spread of tainted products getting into the hands of shoppers.  |
| Sector | Food-Safety, Agriculture |
| Author(s) | IBM |
| Country | China |
| Website | **Read more:**ftp://ftp.software.ibm.com/software/my/downloads/Randy\_Sng\_Food\_Safety\_is\_Your\_Responsibility.pdf<http://publib.boulder.ibm.com/infocenter/itshelp/v3r0/index.jsp?topic=%2Fcom.ibm.its.help.doc%2Ftopics%2Fc_rfid_over.html><http://www.twylah.com/IBM/tweets/160084239277240321><http://online.wsj.com/article/SB10001424052702303544604576433393710583816.html?mod=wsj_share_tweet> |

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| Title | CEPES Rural Portal |
| Summary | The project sought to directly benefit 6000 farmers through the implementation and operation of local agricultural information via the internet. The overall project objective was to provide an advantageous market share to small farmers by managing their production units and their organizations. The project also lets farmers manage irrigation and other problems related to water management. |
| Sector | Agriculture |
| Author(s) | FITEL - <http://www.fitel.gob.pe/> |
| Country | Peru |
| Website | Read more:<http://www.fitel.gob.pe/contenido.php?ID=32&tipo=H&pagina=contenidos/ProyE/PPT/Cepes/Cepes.html><http://www.cepes.org.pe/><http://www.cepes.org.pe/portal/><http://www.huaral.org/> |

**E-BANKING**

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| Title | Newgen |
| Summary  | First Company in the Indian subcontinent to offer a software- based configurable solution that includes image-based clearing of instruments such as demand drafts, interest and dividend warrants in addition to cheques (with and without mediation by the central bank/clearing house), thereby drastically reducing the clearing time. |
| Sector | Banking, Public-Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  [http://www.newgensoft.com/solutions/banking\_finance&process=Image-Based-Cheque-Clearing&pid=458&title=title](http://www.newgensoft.com/solutions/banking_finance%26process%3DImage-Based-Cheque-Clearing%26pid%3D458%26title%3Dtitle)[http://www.newgensoft.com/solutions/banking\_finance&process=Compliance-with-Image-Based-Cheque-Clearing&pid=605&title=title](http://www.newgensoft.com/solutions/banking_finance%26process%3DCompliance-with-Image-Based-Cheque-Clearing%26pid%3D605%26title%3Dtitle) |

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| Title | EKO |
| Summary  | Financial services to non-banking customers, connects a telecom infrastructure to the bank’s Core Banking System (CBS). Delivering banking services through the mobile phone makes the cost of banking substantially cheaper and thus affordable for a broader population. Provides a platform for universal financial access and low-cost micro-transactions |
| Sector | Banking Sector, Public- Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  <http://eko.co.in/products><http://eko.co.in/about_us> |

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| Title | M-KESHO |
| Summary  | This is a bank account introduced by both Equity and Safaricom where customers can earn interest from as little as Ksh1. Customers can withdraw cash from their Equity Bank Account to their M-PESA accounts and customers can also deposit through their M-PESA accounts to their M-KESHO Bank account. Other features of the account include Micro credit facilities, Micro insurance facilities as well as a personal accident cover that translates into a full cover after 1 year. |
| Sector | Banking, Private |
| Author(s) |  |
| Country | Kenya |
| Website | Read more:  <http://www.safaricom.co.ke/index.php?id=263> |

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| Title | M-Paisa |
| Summary  | Vodafone Essar has agreed a deal with a ICICI Bank in India to allow it to deploy the M-PAISA mobile money transfer service, and so bring basic financial services to millions of customers living in rural areas of India. It enables millions of people who have access to a mobile phone, but do not have or have only limited access to a bank account, to send and receive money, top-up airtime and make bill payments. Customers register for the service at an authorized agent, often this is a small mobile phone store or retailer, and then deposit cash in exchange for electronic money which they can send to their family or friends. Once they have registered all transactions are completed securely by entering a PIN number and both parties receive an SMS confirming the amount that has been transferred. The recipient, receives the electronic money in real-time and then redeems it for cash by visiting an agent. |
| Sector | Banking , Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  <http://www.icicibank.com/aboutus/pdf/ICICIBank_Vodafone_Jan2011.pdf> |

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| Title | FINO-Bandhu ( largest branchless banking channel in India ) |
| Summary  | FINO has developed an online micro-payment and delivery platform for a unique bouquet of Value-added e-Services to the micro customers, at their door-step through partnerships/tie-ups with various service-providers. Provides following kind of services -  • Mobile Recharge, DTH Recharge ,Railway Ticket Booking /Bus booking ,Insurance Premium Collection ,Utility Bill Payments (Mobile & electricity bills, municipal taxes), SIM card connection selling |
| Sector | Mobile Payment - Retail, Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  <http://fino.co.in/Retail><http://fino.co.in/Press-Kit> |

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| Title | Kiva |
| Summary  | Kiva, is the first online person-to-person microfinance organization. Kiva's work is made possible through an extensive network of microfinance organizations around the world. The borrower meets with the Field Partner and requests a loan. The Field Partner disburses a loan to the borrower. The Field Partner uploads the loan request to Kiva, it's reviewed by a team of volunteer editors and translators and then published on Kiva.org. Kiva lenders fund the loan request, and Kiva sends the funds to the Field Partner. There are more than 500K lenders around the world. The borrower makes repayments. The Field Partner sends funds owed to Kiva. Kiva repays lenders. The lenders can make another loan, donate to Kiva, or withdraw the money to their PayPal account. |
| Sector | Banking, Private |
| Author(s) |  |
| Country | Global Affiliations |
| Website | Read more:  <http://www.kiva.org/about><http://www.kiva.org/lend><http://www.kiva.org/about/how> |

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| Title | MYC4 |
| Summary | Lending through MYC4 is easy and personalized. First you need to create a MYC4 Account and upload money to this account. Secondly, when you have an account with funds to lend, you pick a business to lend to. To see the different Loans that you can choose to lend to, click on LEND in the menu bar and you can view a list of all the Loans that are open for bids. The MYC4 platform is built around a network of local providers screening the businesses who would like to obtain a loan and local administrators handling the financial transactions. |
| Sector | Mobile Banking, Private |
| Author(s) |  |
| Country | Denmark, Africa |
| Website | Read more:<http://www.myc4.com/About/WHAT_IS_MYC4><http://www.myc4.com/About/HOW_DOES_MYC4_WORK><http://www.myc4.com/About/MAIN_FAQ#HOW_DO_I_LEND> |

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| Title | reewire , 4M Platform |
| Summary | Mobile Money Transfers- Domestic and International Transfers – Send money to anyone, both registered and non – registered users. Receive international transfers directly on your mobile phone. Merchant Payment- Payment for goods and services on premises with possibility for integration to POS and Cash registers. Bill payment – Pay your bills from anywhere with the mobile phone – pay for gas, water, electricity etc. Banks can use the 4M Platform to make their traditional banking products and services available via mobile phone. |
| Sector | Banking , Private |
| Author(s) |  |
| Country | Denmark |
| Website | Read more:<http://www.reewire.com/Solutions.aspx><http://www.reewire.com/Home.aspx> |

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| Title | Airtel Card |
|  | Airtel Africa customers in Kenya will soon be able to use their mobile phone to make online purchases from MasterCard merchants around the world. The simplified online transaction will work in the following way; each time an airtel customer is shopping online he or she will be able to request a single use shopping card number. airtel money services will generate a special 16 digit number that enables the completion of the transaction. On completion of the transaction, a confirmation message will be sent to the consumer’s handset. The single use feature of the airtel 1time Shopping Card provides the consumer with a convenient and secure online shopping experience |
| Sector | Banking, Private |
| Author(s) |  |
| Country | Kenya,Tanzania |
| Website | Read more :<http://www.africa.airtel.com/wps/wcm/connect/africaairtel/tanzania/home/pg_airtel-africa-standard-chartered-bank-and-mastercard-launch-worlds-first-virtual-card-mobile-phone> |

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| Title | Point-of-sale devices ( POS ) |
|  | POS- is a computerized retail payment systems that replace cashor human registers. A POS device has a personal computer with barcode readers, optical scanners, and magnetic stripe readers for capturing and recording retail stores’ transactions. They collect sales and payment information electronically only after the beneficiary smart or debit cards are presented and authenticated. Payment information is then passed on to the financial institution for reimbursement purposes. Use of ICT with Business Correspondents network i.e. branch less banking outlets. The Andhra Bank in India is associated with 1,060 villages with a population of more than 2000, already has about 600,000 underserved clients accessing banking facilities through POS devices. |
| Sector | Banking, Public-Private |
| Author(s) |  |
| Country | India |
| Website | Read more:<http://andhrabank.in/english/FinancialInclusion.aspx> |

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| Title | Globe’s GCASH, Text-A-Payment |
| Summary | The Text-A-Payment service is an innovative mobile phone banking service that uses SMS technology to allow micro borrowers to make microfinance loan payments. Rural bank clients only need to enroll at their bank branch, register their mobile phone with Globe’s GCASH service, and then easily load their mobile wallet at any GCASH Cash-In center or re-seller. After completing these steps, bank clients can conveniently and remotely send their loan payment to the bank without incurring the time and expense associated with traveling to a rural bank to make a loan payment. The borrower can pay the loan without leaving her/his business. |
| Sector | Banking, Public  |
| Author(s) | RBAP ( Rural Bankers Association of the Philippines ) |
| Country | Philippines |
| Website | Read more:<http://mobilephonebanking.rbap.org/article/archive/15><http://gcash.globe.com.ph/what-is-gcash.html> |

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| Title | NREGP & SSP |
| Summary | UnionBank is facilitating of wage payments to millions of poor daily wage earners under the Government of India's Flagship social programme of Mahatma Gandhi National Rural Employment Guarantee Programme (NREGP) and Social Security Pension (SSP) to aged beneficiaries.The project encompasses the entire end to end solution from enrolling of the Job-Card Holders to refund of the undistributed amount of fund back to the State exchequer of the concerned State Government. The Bank is not only making the disbursal process faster and possible in difficult terrains but is also minimizing the chances of any embezzlement of funds which are benefiting the government immensely.On the beneficiaries front, they are not only receiving their wages in full at their doorstep well in time but are also given an opportunity to avail of other banking facilities like deposit, loans and financial guidance. |
| Sector | Banking, Public – Private  |
| Author(s) | UnionBank of India |
| Country | India |
| Website | Read more:<http://www.unionbankofindia.co.in/RABD_Finance_NREGP_SSP.aspx><http://nrega.nic.in/netnrega/home.aspx><http://www.unionbankofindia.co.in/RABD_Finance_Saubhagya.aspx> |

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| Title | Alipay |
| Summary | Alipay helps secure payments and co-operates with leading Chinese banks, as credit card payments in China are not yet widespread. There are more than 4 million users of the service. The company is the leading internet payment service in China. |
| Sector | Banking |
| Author(s) | Alibaba Group |
| Country | China |
| Website | Read more:<https://www.alipay.com/> |

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| Title | SKS Microfinance |
| Summary | SKS Microfinance deploys a standard MF technology platform, delivering superior value to its customers. The systems designed and deployed at SKS have enabled the business grow rapidly as it allows data highlights to be transferred to the head office accurately and in very short time period. |
| Sector | Banking- Microfinance |
| Author(s) |  |
| Country | India |
| Website | Read more :<http://www.sksindia.com/how_we_do.php><http://www.sksindia.com/know_sks.php> |

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| Title | BRIZZI Bank BRI |
| Summary | BRI rechargeable prepaid cards that can be used as a substitute for cash payments and can be recharged. BRIZZI gives advantage to users in the that the transactions can be faster and easier because it does not need to use cash, the most interesting and different from other banks is that BRIZZI can be recharge at all the merchants who accept debit cards. |
| Sector | Banking |
| Author(s) | BRI |
| Country | Indonesia |
| Website | Read more:<http://www.bri.co.id/brinews/7><http://www.bri.co.id/corporate><http://www.bri.co.id/> |

**E-COMMERCE AND TRADE**

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| Title | ITShed |
| Summary  | The site enables them to link with large buyers to find an outlet for their produce and skills. Livelihood-enhancing development in rural areas enabled by innovative use of ICT can connect rural, urban, and, indeed, global communities. |
| Sector | Consumer Goods, Private |
| Author(s) |  |
| Country | Sri Lanka |
| Website | Read more:  <http://www.itshed.net/> |

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| Title | Dialog Tradenet |
| Summary  | Provides a multi-model information platform - a virtual marketplace - that enables dynamic matching of buyers and sellers, whilst also providing reference prices on demand. Overcomes information asymmetry in the market, especially for communities at the bottom of the economic pyramid. |
| Sector | Consumer Goods, Private |
| Author(s) |  |
| Country | Sri Lanka |
| Website | Read more:  <http://tradenet.dialog.lk/> |

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| Title | Mobile Vending system ( i-Vend ) |
| Summary  | The Mobile Vending system aims at SME vending machine operators, lowering their costs, minimizing machine downtime and improving customer services – all of which leads to increased sales thanks to the use of advanced mobile technologies. Users are identified by his/her mobile number, the user profile provides a full purchase history and a full customer relationship management (CRM) program. |
| Sector | Consumer goods, Private |
| Author(s) |  |
| Country | Russia |
| Website | Read more:  <http://www.i-free.com/en/activities/commerce/mobile_vending><http://www.i-free.com/en/activities/apps/smartive><http://www.i-free.com/en> |

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| Title | Mobile Virtual Expo |
| Summary  | With Mobile Virtual Expo, the World Expo is no longer far away, due to the convenience of virtual reality. Mobile Virtual Expo combines different media and uses panoramic view technology for 3D views and 360° browsing. The strength of information provides visitors with more choices of touring the Expo, especially when there’s possibly no chance for a real visit at the Expo Site. |
| Sector | Trade, Public- Private |
| Author(s) |  |
| Country | China |
| Website | Read more:  <http://en.expo2010.cn/pavilions/index.htm><http://perspectives.3ds.com/tag/interactive-media/><http://en.expo2010.cn/> |

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| Title | QREDA, NEON |
|  | QREDA is a consumer subscriber data analytics powered, mobile advertising platform designed to allow all brands and advertisers to connect with all mobile subscribers, by bringing mobile operators in the centre of mobile advertising eco-system. |
| Sector | Retail, Private |
| Author(s) |  |
| Country | India |
| Website | Read more :<http://www.flytxt.com/qreda-mobile-advertising-solutions><http://www.flytxt.com/neon-3rd-generation-mobile-marketing-platform> |

**E-ENVIRONMENT and ENERGY**

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| Title | Te-Tol Mobile Portal ( HardLab- Slovenia) |
| Summary  | Provides environmental information about electric power stations that use fossil fuel in the Ljubljana region. The system was initiated as an open, transparent and real-time tool to communicate with the inhabitants of Ljubljana, Slovenia’s capital, who are negatively influenced by air pollutants (SO2, NOx, CO and dust). |
| Sector | Government, Public – Private |
| Author(s) |  |
| Country | Slovenia |
| Website | Read more:  <http://www.te-tol.si/en/><http://www.te-tol.si/en/index.php?sv_path=2455,2604><http://www.te-tol.si/en/index.php?sv_path=2458,2489> |

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| Title | Simpa |
| Summary  | A “Progressive Purchase” energy solution is distributed to underserved consumers in emerging markets. We’ve launched in India where we are focusing initially on transforming the market for solar energy systems. Our customers make a small initial down payment for a high-­quality solar PV system and then pre-­pay for the energy service, topping up their systems in small user-­defined increments using a mobile phone. Each payment for energy also adds towards the final purchase price. Once fully paid, the system unlocks permanently and produces energy, free and clear. |
| Sector | Energy, Private |
| Author(s) |  |
| Country | India |
| Website | Read more:  <http://simpanetworks.com/our-solution/><http://simpanetworks.com/> |

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| Title | Logica EMO |
|  | It is a safe, efficient and reliable system that wirelessly monitors and reports the carbon footprint of a vehicle in real-time. In doing so, it, feeds back on a person’s driving style. And so, helps one drive more fuel efficiently and reduces carbon footprint while helping save on fuel and maintenance expenses that come with rash driving. Logica EMO allows monitoring and reporting of a vehicle’s carbon footprint in real-time. A rating system, based on these records, called the Logica EMO Green Index, is calculated at the back-end. The higher the green index, the better driver a person is, and the more advantages he gets, even in terms of surcharge waivers or reduced toll or parking charges. |
| Sector | Environment, Private |
| Author(s) |  |
| Country | Global Development |
| Website | Read more:[http://site.logica.com/logica+emo:+towards+a+greener+future/400015917](http://site.logica.com/logica%2Bemo%3A%2Btowards%2Ba%2Bgreener%2Bfuture/400015917) |

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| Title | Optiqua EventLab |
| Summary | Optiqua offers a unique real time water quality monitoring solution, or Early Warning System, for water distribution networks. The integrated system is based around Optiqua’s patented MZI Technology, with dedicated electronics, data communication, event detection algorithms and control software. Deployed as a sensor network throughout the water distribution grid, it provides water companies with an economical viable Early Warning System that monitors the entire network online and real time. |
| Sector | Water-Environment |
| Author(s) | Optiqua |
| Country | Singapore |
| Website | Read more:<http://www.optiqua.com/content/blogcategory/17/30/> |

**E-PUBLIC SERVICES**

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| Title | M-Post |
| Summary  | Postal service facilitating money transfers, mailing and other postal transactions. When citizens transfer monies with M-Post, the beneficiaries receive the info & code by SMS, getting the funds in their account or at any postal desk within a minute. |
| Sector | Government, Public- Private |
| Author(s) |  |
| Country | Tunisia |
| Website | Read more:  <http://www.poste.tn/index_service.php?code_menu=10&code_sous_menu=19&code_sous_sous_menu=47#1?code_menu=19> |

**E-GOVERNANCE**

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| Title | Mobile Portal – Kingdom of Bahrain |
| Summary  | Given that mobile penetration in Bahrain is amongst the highest in the world, the mobile portal is used as a new channel in the delivery of e-Government services to the citizens and residents of Bahrain. The Portal includes over 45 e-Government services provided either over WAP or by SMS. The mobile portal is integrated with ministries and departments, communicating data and information to users. |
| Sector | Government, e-Government Services |
| Author(s) |  |
| Country | Bahrain |
| Website | Read more:  <http://mobile.bahrain.bh/egov/wap/wml/mobile/common/loadHome.do> |

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| Title | Caribbean Information Society Portal ( CARIB-IS Project ) |
| Summary | Online portal for obtaining and tracking comprehensive information about the ICT developments in all the member Caribbean island nations. Tracking ICT innovations and projects in multiple sectors and different Caribbean nations all at once in one place.  |
| Sector | Government |
| Author(s) | Caribbean Community ( CARICOM) secretariat  |
| Country | Caribbean Islands |
| Website | Read more:<http://www.carib-is.net/ict-projects><http://www.carib-is.net/content/ict-focus-areas><http://www.carib-is.net/content/about-carib-project> |

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| Title | **M-Governance – SPIDER** |
| Summary | Mobile phone applications have the potential to increase citizen participation and deliver faster and more effective government services. Mobile phones can successfully reduce the transaction coasts of delivering government services, stemming corruption and increasing transparency. |
| Sector | Government |
| Author(s) | [i-HUB](http://www.research.ihub.co.ke/pages/governance.php) |
| Country | Kenya |
| Website | Read more:<http://spidercenter.org/projects/m-governance-exploring-conditions-successful-mobile-governance-kenya#overlay-context=projects> |

**E-EDUCATION**

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| Title | BBC Janala |
| Summary  | The service turns the mobile phone into a low-cost learning device for 28 million people previously denied the benefits of English-language education. 19 million reported that they would like to try using their mobile phone to learn English. |
| Sector | Education , Private |
| Author(s) |  |
| Country | Bangladesh |
| Website | Read more:  <http://www.bbcjanala.com/><http://old.bbcjanala.com/> |

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| Title | 'e-Tutor tablet' |
| Summary | Its Cloud-based tablet solution for students. The teacher can easily explain concepts using the digital whiteboard that is set up in the Tablet PC. Using e-Tutor learning tablet the students can access what was taught in the classroom and can also access the collaborative learning platform for discussions on relevant topics taught in the classroom. |
| Sector | Education, Private-Government |
| Author(s) |  |
| Country | India |
| Website | Read more :<http://www.igovernment.in/site/cloud-based-tablet-solution-students-launched> |

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| Title | XO |
| Summary | In the most rural areas, schools often meet only a few days a week. Most learning takes place among the children, or with their parents, many of whom are not literate. Half of the over 500,000 students in OLPC Peru live in rural areas. They are exploring new ways to make laptops an engaging part of life and education, including in the traditional classroom. These young students are learning how to read and type in Spanish, which for many their second language. Elementary students in Khairat, India, have kept their attendance near 100% since their school received XOs. Their teachers run weekly workshops inviting other teachers to come work with their students and share new ideas. |
| Sector | Education, Private-NGO |
| Author(s) |  |
| Country | India,Peru,Madagascar,Afghanistan,Uruguay,Nicaragua.Rwanda,Gaza,Nepal,Kenya,Paraguay |
| Website | Read more :<http://one.laptop.org/> |

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| Title | **Camfed** |
| Summary | Camfed uses EpiSurveyor to collect data on all aspects of bursary and post school programme.This data is obtained from 400 users collecting data from 30 districts, 600 schools and monitoring progress on 6500 supported bursary girls. |
| Sector | Education |
| Author(s) | DataDyne |
| Country | Ghana,Malawi,Tanzania,Zambia and Zimbabwe |
| Website | Read more:<https://www.dropbox.com/s/igkfoj89efw9ouz/Episurveyor_in_the_Education_Sector.pdf><http://www.datadyne.org/episurveyor/casestudies/camfed><http://uk.camfed.org/site/PageServer?pagename=what_index> |

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| Title | **Aakash Tablet ($50 Tablet for students)** |
| Summary | The device is revolutionary as the low cost and the features that the device comes loaded with makes it very unique. The government plans to use information technology to educate students. The idea is to provide an affordable tablet to a vast majority of students and integrating ICTs for delivering education pan-India. The low price of the tablet makes a computer device available to students belonging to almost all stratas of society hence bridging the gap with the help of affordable technology. |
| Sector | Education |
| Author(s) |  |
| Country | India |
| Website | Read more:<http://www.akashtablet.com/features.html><http://www.ubislate.com/><http://datawind.com/><http://www.aakash-tablet.com/> |

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| Title | Raspberry Pi ( $25 tablet for students) |
| Summary | Developing countries are interested in the Raspberry Pi as productivity devices in areas that simply can’t afford the power and hardware needed to run a traditional desktop PC. |
| Sector | Education |
| Author(s) |  |
| Country | UK |
| Website | Read more:<http://www.raspberrypi.org/about><http://www.raspberrypi.org/faqs> |

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| Title | M-Learning |
| Summary | This Nigerian product helps students to connect and do school activities via mobile phone and to enable mobile learning in different fields. mobile learning is the intersection of mobile computing and e-learning: accessible resources wherever you are, strong search capabilities, rich interaction, powerful support for effective learning, and performance based assessment – e-learning independent of location in time and space. |
| Sector | Education |
| Author(s) |  |
| Country | Nigeria |
| Website | Read more:<http://adconnectmobile.com/mobile.html><http://paper.ijcsns.org/07_book/200811/20081156.pdf><http://www.mobileactive.org/files/file_uploads/ICTD2010_PG_Nwaocha%20et%20al.pdf><http://www.nou.edu.ng/noun/acde2008/acde_en/papers.pdf/SUB-THEME-VI%20PDF/M-Learning%20An%20Emerging%20Trend%20in%20e-learning%20and%20its%20Application%20in%20Nigeria_OYEKOLA%20HEZEKIAh.pdf> |

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| Title | ABJAD , E – Learning  |
| Summary | ABJAD contributes to the adoption and implementation of mobile learning programs in the Arab world. ABJAD is specialized in providing learning solutions that include e-learning, distance learning, mobile learning and mobile publishing solutions. It dedicates its efforts to increase the learners in the Arab world and Africa by providing technology access and tools to learning resources. |
| Sector | Education |
| Author(s) |  |
| Country | UAE , middle - east |
| Website | Read more:<http://www.abjade.com/MobileSolutions/MobileLearning/WhatisMobilelearning/tabid/82/Default.aspx><http://www.abjade.com/AboutUs/Aboutus/tabid/63/Default.aspx> |

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| Title | Blackboard Mobile Learn+ |
| Summary | Its purpose is to offer students the opportunity to develop and strengthen knowledge, skills and attitudes to give you the ability to learn anywhere and at any time. Every month almost 20 thousand students access Blackboard application across Mexico. |
| Sector | Education |
| Author(s) | Tecnologico de Monterrey - ITESM |
| Country | Mexico |
| Website | Read more:[http://www.itesm.edu/wps/wcm/connect/snc/portal+informativo/por+campus/sinaloa/institucion/llevan+blackboard+al+aprendizaje+m\_vil](http://www.itesm.edu/wps/wcm/connect/snc/portal%2Binformativo/por%2Bcampus/sinaloa/institucion/llevan%2Bblackboard%2Bal%2Baprendizaje%2Bm_vil)<http://www.ruv.itesm.mx/portal/mlearning/aprendizaje/homedoc.htm> |

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| Title | Bibliotheca Alexandrina |
| Summary | It’s a world digital library designed, planned and launched by the Arab republic of Egypt. It would be digitizing primary materials from cultures around the globe available on the internet to people everywhere. |
| Sector | Education |
| Author(s) |  |
| Country | Egypt |
| Website | Read more:<http://www.bibalex.org/aboutus/overview_en.aspx> |

**E-TRANSPORT**

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| Title | Apontador Traffic |
| Summary  | Third largest city in the world has 6 million vehicles occupy Sao Paulo’s streets every day. Traffic jams make citizens spend more than 4 hours in traffic every day. The app allows the user to access images from traffic cameras and to receive traffic alerts pertaining to the user’s position. The app helps organize traffic. |
| Sector | Mobile Application, Private |
| Author(s) |  |
| Country | Sao Paulo |
| Website | Read more:  <http://maplink.com.br/noticias/sao-paulo-sp><http://maplink.com.br/rodovias/sao-paulo-sp><http://maplink.com.br/corredores/sao-paulo-sp/todos><http://www.apontador.com.br/mobile/aplicativo-celular-apontador> |

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| Title | KMB  |
| Summary | KMB mobile app was launched in March 2011; it is one of the most favorite applications in Hong Kong. The app embedded 800 bus routes data with offline bus route search and also the online update. It utilized the GPS technology, 3G, wifi and location notification. The app provides more rapid, more convenient and more accurate bus route information to users, anytime and anywhere. |
| Sector | Public Transport , Private |
| Author(s) |  |
| Country | Hong Kong |
| Website | Read more:<http://www.mobilesoft.com.hk/#fragment-1><http://www.mobilesoft.com.hk/?page_id=23> |

**E-JOURNALISM**

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| Title | YouReporter |
| Summary  | YouReporter is the platform of choice that gives a voice to anyone with a mobile phone, and thus a chance to shape society's views on current issues. The stories are submitted to RIA Novosti directly from mobile phones or computers using MMS. Over 25 stories are contributed daily since its launch in April, 2010 |
| Sector | Mobile Application, Private |
| Author(s) |  |
| Country | Russia |
| Website | Read more:  <http://youreporter.ru/><http://en.rian.ru/agency_news/20110629/164923565.html><http://en.rian.ru/search/?query=YouReporter&x=0&y=0><http://en.rian.ru/> |

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| Title | Ghana Decides |
| Summary  | The project was created by the Ghana Journalist's Association for the Elections in December 2008. Mobile phone users were invited to subscribe prior to the elections. After the elections, they received SMS messages as soon as the Electoral Commission certified the results, giving them accurate information instead of rumors |
| Sector | Government |
| Author(s) |  |
| Country | Ghana |
| Website | Read more:  <http://www.mobilecontent.com.gh/partners.php> |

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| Title | Ushahidi |
| Summary | Ushahidi is a platform used as a tool to easily crowdsource information using multiple channels, including SMS, email, Twitter and the web. The site has grown to become an important resource for citizen journalists in times of crisis like the Haiti earthquake. Ushahidi Liberia provides free customized mapping technology and ongoing tech support to humanitarian and development actors tracking conflict, peace building and the 2011 electoral process in Liberia. By offering individual maps for partner organizations and aggregated public maps on issues of national concern, Ushahidi Liberia aims to connect people across civil society, government and the media using a common platform for information sharing.  |
| Sector | Media, Private |
| Author(s) |  |
| Country | Kenya , Liberia,Sudan etc. Global reach. |
| Website | Read more:<http://ushahidi.com/><http://ushahidi.com/products/ushahidi-platform><http://www.liberia2011.ushahidi.com/><http://www.ushahidiliberia.com/> |

**TELECOMMUNICATION**

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| Title | Lite-Site |
| Summary | Access to mobile communications is credited with boosting local economies, but almost a quarter of the world’s population doesn’t have affordable access to wireless voice and data services. Altobridge Ltd. Developed a low-cost solar-powered wireless system called lite-site that aims to tackle 3 big barriers to extending wireless service to remote areas: high capital costs, high operating costs and high transmission costs.Each base station in Altobridge’s system uses only 90 watts of power, making it possible for stations to operate solely on solar energy. And by compressing data transfers, the system needs only about a quarter of the satellite brand-width normally required, reducing transmission costs. Altibridge is a leading provider of 2G/3G, use of lite-site enables mobile network operators to bring mobile connectivity to remote communities at very low costs.  |
| Sector | Mobile Communication |
| Author(s) | Altobridge |
| Country | Malaysia, Mongolia, Indonesia, Níger, Tonga, Oman, Kenya |
| Website | Read more:<http://www.altobridge.com/solutions/altobridge-lite-site%E2%84%A2/><http://www.altobridge.com/solutions/altobridge-lite-site%E2%84%A2/features-benefits/> |

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| Title | MzansiSMS |
| Summary  | The MzansiSMS not only aims to provide low-cost SMS to poorer South Africans, but also creates new income streams for vendors who sell MzansiSMS credit. Between 40% and 50% of all the revenue collected is shared with MzansiSMS vendors. MzansiSMS is thus an empowerment vehicle enabling anyone with a cellphone to start selling MzansiSMS credit. |
| Sector | Mobile Communication, Private |
| Author(s) |  |
| Country | South Africa |
| Website | Read more:  <http://www.mzansisms.co.za/learn><http://www.mzansisms.co.za/> |