



References and
Background Papers

Abdel-Hameed Nawar. (2014). *Multidimensional Poverty Index and Policies for Tackling Interlocking Deprivations in the Arab States. Research Paper Series- Arab Human Development Report*. Retrieved October 31, 2015 from: [http://www.arab-hdr.org/publications/other/ahdrps/Final_Abelhameed%20Nawar_MPI%20in%20Arab%20States%20\(AR\).pdf](http://www.arab-hdr.org/publications/other/ahdrps/Final_Abelhameed%20Nawar_MPI%20in%20Arab%20States%20(AR).pdf) .

Abdul Aziz Bin Abdullah Al Sunbil. (2002) .*Education in the Arab world on Verge of the Twenty-first century*. Alexandria, Egypt: *al-Maktab al-Gami'i al- Hadith* (Modern Office).

Abdul Rahman Al-Hashimi & Faiza Azawi. (2007). *The Method and the Knowledge Economy*. Amman: Dar Al Masira for Printing & Publishing. First Edition, p. 25.

Al Rashad Magazine (2014). *Development Report in Arab Countries: Difficulties in Describing Reality*. Retrieved October 28, 2015 from: <http://www.alrashad.org/issues/14/14-Taqrir.htm>.

ALECSO: The Arab Observatory for Education. (2015). *The Arab World Education Indicators: AWEI Database*. Retrieved October 31, 2015 from: http://marsad.alecso.org/site/awei/www/index.php?module=stat&action=db_awei .

Ali Al Hawat. (2007). *Education, Knowledge and Development*. Tripoli, Libya: Al-Magharibia University.

Ali bin Hassan Yaen Allah al Qarni. (2009). *The Requirements of a Pedagogical Transformation in Future Highschools in the Kingdom of Saudi Arabia in Light of the Knowledge Economy Challenges*. A PhD dissertation in Education Management and Planning. Kingdom of Saudi Arabia: Department of Management and Planning, College of Education, Um Qura University. p. 49. Retrieved October 25, 2015 from: http://uqu.edu.sa/files2/tiny_mce/plugins/filemanager/files/4280095/10.pdf.

Arab Bureau of Education for the Gulf States. (2015a). *An Overview of Education Indicators Data*. Riyadh: Arab Bureau of Education for the Gulf States. Retrieved October 31, 2015 from: http://www.abegs.org/aportal/ministry/ministry_educational_indicators.

Arab Bureau of Education for the Gulf States. (2015b). *The Arab Bureau of Education for the Gulf States Portal*. Riyadh: Arab Bureau of Education for the Gulf States. Retrieved October 31, 2015 from: <http://www.abegs.org/aportal/default/index>.

The Arab Investment & Export Credit Guarantee Cooperation. (2013). *Dhaman Investment Attractiveness Index (DIAI)*. Kuwait: Arab Organisations Headquarters. Retrieved October 28, 2015 from: http://www.iaigc.net/UserFiles/file/ar/archives/monthly_bulletins/Issue1-2013.pdf.

Arab Labour Organisation. (2003). “*The Arab Strategy for the Development of Labour and Employment*”. The 30th Session of the Arab Labour Conference. Tunis: 24/2-1/3 2003.

Arab Labour Organisation. (2008). *Arab Qualification Framework 2008*. Retrieved October 22, 2015 from: <http://www.paet.edu.kw/mysite/Portals/60/2012/g.d-introduction.pdf>.

Arab Labour Organisation. (2009a). *The Role of Employer Organisations in Bridging the Gap Between Training Outcomes and the Needs of the Labour Market*. A Nationwide Seminar.

Arab Labour Organisation. (2009b). «*The Arab Employment Contract 2010-2020*”. *The 37th Session of the Arab Labour Conference*. Al Manama.

Arab Labour Organisation, the Ministry of Vocational Formation for Employment & the Islamic Development Bank. (2012). “*Developing the Policies of Vocational Training to Meet the Needs of the Labour Market in Light of it Emerging Needs*”. The final Report of the National Workshop. Tunis: 11-13 December 2012.

Arab Network for Quality Assurance in Higher Education. (2012). *Quality Assurance and Accreditation Survey in the Arab Region*. A Pilot Study. Retrieved October 22, 2015 from: <http://www.anqahe.org/index.php/ar>.

- Arab Planning Institute (2012). *Arab Competitiveness Report*. Fourth issue. Kuwait: Arab Planning Institute.
- Bahgat Korany. (2014) *Arab Human Development in the Twenty-first Century: The Primacy of Empowerment*. Beirut: Centre for Arab Unity Studies.
- GCC Action Team Assigned by the Deans and Directors of the GCC States. (2003). *Technical Education Strategy in the GCC for Arab Gulf Countries*. Musqat.
- European Training Foundation. (2015). *The Challenge of Youth Employability in Arab Mediterranean Countries: The Role of Active Labour Market Programmes*. Luxembourg: The Publications Office of the European Union. Retrieved October 17, 2015 from: [http://www.etf.europa.eu/webatt.nsf/0/85F08A835FF4AD1EC1257E7C00315547/\\$file/Youth%20employability_AMCs_AR.pdf](http://www.etf.europa.eu/webatt.nsf/0/85F08A835FF4AD1EC1257E7C00315547/$file/Youth%20employability_AMCs_AR.pdf).
- Ghuba Consulting. (2013). *National Strategy for Employment and Training and Vocational and Technical Training 2014-2020*. Retrieved October 22, 2015 from: http://mol.gov.jo/Documents/%D8%A7%D9%84%D8%AA%D8%B4%D8%BA%D9%8A%D9%84/%D9%85%D8%AC%D9%84%D8%B3%20%D8%A7%D9%84%D8%AA%D8%AF%D8%B1%D9%8A%D8%A8%20%D9%88%20%D8%A7%D9%84%D8%AA%D8%B4%D8%BA%D9%8A%D9%84/Arabic-tvet-finalstrategy_Sep01.pdf.
- Hisham El Makki. (2014a) *Human Development Reports: Towards Indicators Embracing Creativity*. Riyadh, Kingdom of Saudi Arabia: ASBAR Centre for Studies, Research & Communication. Retrieved October 28, 2015 from: http://asbar.com/ar_lang/?p=134.
- Hisham El Makki (2014b) *Critique of Human Development Report 2013: Renaissance of the South: Human Progress in a Diverse World*. Riyadh, Kingdom of Saudi Arabia: Namaa Centre for Research and Studies. Retrieved from: <http://nama-center.com/ActivitieDatials.aspx?Id=370> [28 October 2015].
- Issa Khleifi & Kamal Mansoury. (2005). “*The Knowledge Economy Infrastructure in the Arab World: Reality and Prospects*”. International Forum On: Knowledge as the New Pillar and the Competitive Challenge for Economic Institutions. Algeria: School of Economics and Management, University of Biskra 12/13 November 2005. p. 69.
- Kamal Saleh. (2014). *Indicators for Measuring Human Welfare: An Attempt for an Arab Model*. Arab Institute for Training & Research in Statistics (AITRS). p. 22.
- Khamis Nasser Mohammed (2010). *Knowledge Capital and Indicators Measuring: Philosophical Deep rooting Study*. *Journal of university of Anbar for Pure science*. Retrieved October 7, 2015 from: <http://www.iasj.net/iasj?func=fulltext&aId=45535>.
- Labib Al Taher & Elias Baydhoon (2007). *Arab Encyclopaedia of Knowledge for Sustainable Development*. Third volume. Social Dimension. Beirut: Arab Scientific Publishers, Inc. First Edition. p. 60.
- League of Arab States. (2009). Educational Cultural and Scientific Organization. *Education Development Plan in the Arab Homeland*. Tunis.
- Maghreb Arab Press (2010). *Human Development Index: It is time to review an index that no longer provides data about the entire aspects of the human development*. Morocco: Maghreb Arab Press. Retrieved October 28, 2015 from: <http://www.maghress.com/map/3297>.
- Ministry of Economy and Planning- Kingdom of Saudi Arabia. (2014). *The National Strategy for Moving Into the Knowledge Society: The Transformation of the Kingdom Into a Knowledge Society and a Knowledge-Based Economy*.
- Ministry of Scientific Research- Egypt. (2008). *Science and Technology Indicators*. Egypt: Ministry of Scientific Research. First Issue.
- Mohamed Adnan Wadie (2002). *Development Indicators*. Kuwait: Arab Planning Institute. First Volume. Second Issue, February.
- Mohamed Diab. (2009). *A New Phase of Economic Development*. *Al Methaq Institute for Training and Studies and Research*. Retrieved October 25, 2015 from: <http://www.almethaq.info/news/article1395.htm>.

- Mohammed Raouf Hamid. (1999). *Managing Knowledge, a Future Vision*, Second Edition. Cairo. Al Maaref Publishing House.
- Mohamed Sabri Al Hout & Nahed Adly Shadly. (2007). *Education and Development*. Cairo: Angelo Egyptian Librarie.
- Motaz Khorshid. (2006). *The Scientific Research Plan for Cairo University- The General Framework*. Unpublished Report. Egypt: Cairo University.
- Murad Illa. (2013). *The Knowledge Economy and Its Role in Economic and Social Development in Arab Countries*. Algeria: Zayan Ashour University, Djelfa. Retrieved October 25, 2015 from: conference.qfis.edu.qa/app/media/7148.
- Nader Fergany. (2014). *Towards Establishing the Knowledge Society in Egypt*. Arab Centre for Research and Studies. Retrieved October 5, 2015 from: <http://www.acrseg.org/2474>
- Najoua Ghriss. (2014). *Basic Education in General and Religious Education in Particular. From Storing Knowledge to Developing Personality*. Eighth chapter of the book 'Arab Human Development in the Twenty-First Century: The Primacy of Empowerment', Edited by Bahgat Korany. Centre for Arab Unity Studies, Beirut.
- Nakhleh Wahbe. (2003). *The Issue of Quality in Education*. Beirut: Naufal for publishing and distribution.
- The Regional Centre for Renewable Energy and Energy Efficiency (2015). *Website of the Regional Centre for Renewable Energy and Energy Efficiency*. Cairo Egypt. Retrieved October 28, 2015 from: <http://www.rcreee.org/ar/node/353>.
- Stockholm International Peace Research Institute. (2011). *Armaments, Disarmament and International Security*. Translated and Published by the Centre for Arab Unity Studies.
- Suleiman Awad Suleiman. (2012). *The Strategy for Technical and Vocational Education and Training (TVET) (2010-2015) and the Development of Skills in the Arab Region*. The Regional Expert's Meeting on Technical and Vocational Education and Training: Building Skills for Work and for Life (Muscat, 17-19 March 2012). Retrieved November 28, 2015 from: http://www.tvetoman.net/Papers/1429722437_PDF_AR_9.pdf.
- UNDP (2002). *Arab Human Development Report 2002: Creating Opportunities for Future Generations*. New York: UNDP Regional Bureau for Arab States. Retrieved October 28, 2015 from: <http://www.arab-hdr.org/publications/other/ahdr/ahdr2002e.pdf>.
- UNDP (2003). *Arab Human Development Report 2003: Building a Knowledge Society*. New York: UNDP Regional Bureau for Arab States.
- UNDP (2006). *Human Development Indicators*. New York: United Nations Development Programme. Retrieved October 30, 2015 from: <http://www.un.org/ar/esa/hdr/pdf/hdr06/indicators.pdf>.
- UNDP. (2009). *Arab Human Development Report 2009: Challenges to Human Security in the Arab Countries*. New York: UNDP Regional Bureau for Arab States.
- UNDP (2010). *Human Development Report 2010: The Real Wealth of Nations: Pathways to Human Development*. New York: United Nations Development Programme.
- UNDP (2014). *Human Development Report 2014: Sustaining Human Progress: Reducing Vulnerabilities and Building Resilience*. New York: United Nations Development Programme.
- UNDP & Mohammed bin Rashid Al-Maktoum Foundation. (2009). *Arab Knowledge Report 2009: Towards Productive Intercommunication for Knowledge*. Dubai: Al Ghurair Printing & Publishing House.
- UNDP & Mohammed bin Rashid Al Maktoum Foundation. (2012). *Arab Knowledge Report 2010/2011: Preparing Future Generations for the Knowledge Society*. Dubai: Al Ghurair Printing & Publishing House.
- UNDP & Mohammed bin Rashid Al Maktoum Foundation. (2014). *Arab Knowledge Report 2014: Youth and Localisation of Knowledge*. Dubai: Al Ghurair Printing & Publishing House.

UNESCO. (2009). *EFA Global Monitoring Report. 2009. Overcoming inequality: why governance matters*. Retrieved November 19, 2015 from: <http://en.unesco.org/gem-report/report/2009/overcoming-inequality-why-governance-matters#sthash.G8kMOMMP.dpbs>.

UNESCO. (2012). “*Achieving the Transformation in Education and Training in Technical and Vocational Field: Building Skills for Work and Life*”. The Shanghai Consensus: Recommendations of the Third International Symposium on Education and Training in Technical and Vocational Field. 14 to 16 May, 2012. Shanghai, China. Retrieved October 17, 2015 from: http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/ED/pdf/CONSENSUS_Arab.pdf.

UNESCO & ILO. (2003). *Education and Training in the Technical and Vocational Field in the Twenty First Century*. Paris: UNESCO. Retrieved November 10, 2015 from: <http://unesdoc.unesco.org/images/0012/001260/126050ab.pdf>.

UNESCO, UNESCO Institute of Statistics & Talal Abu-Ghazaleh Organization. (2013). *Information and Communications Technology in Education in Five Arab Countries: A Comparative Analysis for the Integration of ICT and E-Readiness in Schools in Egypt and Jordan and Oman and Palestine and Qatar*. Montreal: UNESCO Institute of Statistics. Retrieved November 10, 2015 from: <http://www.uis.unesco.org/Communication/Documents/ICT-arab-states-ar.pdf>.

UNICEF. (2015). *Education Under Fire: How Conflict in the Middle East Is Depriving Children of Their Schooling*. Amman: UNICEF Regional Office for the Middle East & North Africa.

World Bank. (2013). *Global Monitoring Report 2013: Rural-Urban Dynamics and the Millennium Development Goals*. Regional Brief: Middle East and North Africa. Retrieved October 31, 2015 from: http://siteresources.worldbank.org/INTPROSPECTS/Resources/334934-1327948020811/8401693-1355753354515/8980448-1366122085455/MENA_Regional_Brief_GMR2013_Ar.pdf.

Yaman Mohammed Hafez Al Hamaqi. (n.d.). The Concept of Gender Indicators, Their Types and the Standard and Steps for Their Production. Third Lecture. School of Business: Ain Shams- Cairo. Retrieved October 28, 2015 from: <http://www.mof.gov.eg/equality-finalweb/systempages/wrshfiles/m3.pdf>.

References in English

Anan, K. (2000). *We the Peoples. The Role of the United Nation in the 21st Century*. Millenium Report of the Secretary General. New York: United Nations.

Atkinson, R.C., & Blanpied, W.A. (2008). “*Research Universities: Core of the US Science and Technology System*”. *Technology in Society*. Vol. 30. Retrieved October 22, 2015 from: <http://www.cshe.berkeley.edu/sites/default/files/shared/publications/docs/ROPS.RCA.Blanpied.ResUniv.5.07.a.pdf>.

Bassanini, A., Scarpetta, S., & Visco, I. (2000). *Knowledge, Technology and Economic Growth – Recent evidence from OECD Countries*. OECD Economics Department Working Paper No. 259. Paris: OECD Publishing. Retrieved October 22, 2015 from: <http://ecgi.ssrn.com/delivery.php?ID=66308810109406410412210809409711600605107404103704807809007100812701602401110209702710311100109101211109212307712302707801708811209212609906701712102701126065077028003092002030110097000095012028125016015075101001015017006110089114067125070025&EXT=pdf>.

Bukh, P., Larsen, H., & Mouritsen, J. (2001). “*Constructing Intellectual Capital Statements*”. *Scandinavian Journal of Management*. Vol. 17 No. 1, pp. 87-108.

CEDEFOP. (2013). *On the Way to 2020: Data for Vocational Education and Training Policies: Indicator Overviews*. Luxembourg: Publications Office of the European Union. European Centre for the Development of Vocational Training. Retrieved October 22, 2015 from: www.oeu.uqam.ca/images/images/PDF/SEPTEMBRE2013/on_the_way_2020_indicator_overviews.pdf.

Commission for Academic Accreditation- United Arab Emirates. (2011). *Mission and Objectives*. Retrieved November 13, 2015 from: <https://www.caa.ae/caa/DesktopDefault.aspx?tabindex=1&tabid=60>.

Cornell University, INSEAD & WIPO (2014): *The Global Innovation Index 2014: The Human Factor in Innovation*. Second Printing. Fontainebleau, Ithaca, and Geneva. Retrieved November 14, 2015 from:

<https://www.globalinnovationindex.org/userfiles/file/reportpdf/GII-2014-v5.pdf>

Cornell University, INSEAD & WIPO. (2015). *The Global Innovation Index 2015: Effective Innovation Policies for Development*. Fontainebleau, Ithaca, and Geneva. Retrieved November 14, 2015 from: <https://www.globalinnovationindex.org/userfiles/file/reportpdf/gii-full-report-2015-v6.pdf>.

Dede, C. (1996). "Emerging Technologies and Distributed Learning". *American Journal of Distance Education*, 10(2), 4-36.

Drewnowski, J. & Scott, W. (1966). *The Level of Living Index*. Report No. 4. UNRISD.

The Economist Intelligence Unit. (2014). *Creative Productivity Index: Analysing Creativity and Innovation in Asia*. The Economist Intelligence Unit for the Asian Development Bank. Retrieved November 15, 2015 from: www.adb.org/sites/default/files/publication/59586/creative-productivity-index_0.pdf.

ESCWA. (1997). *Science and Technology Indicators – Basic Concepts, Definitions and Prospects for Development*. New York: Economic and Social Commission for Western Asia, United Nations.

ETF. (2015a). *European Training Foundation Website*. Retrieved October 22, 2015 from: www.etf.europa.eu.

ETF. (2015b). *Torino Process*. Retrieved August 17, 2015 from: www.etf.europa.eu/web.nsf/pages/Torino_process.

Federal Ministry of Economics and Technology- Germany. (2010). *Innovation Policy, Information Society, Telecommunications-ICT Strategy of the German Federal Government: Digital Germany 2015*. Berlin: Federal Ministry of Economics and Technology. Retrieved November 12, 2015 from: <http://www.bmw.de/English/Redaktion/Pdf/ict-strategy-digital-germany-2015,property=pdf,bereich=bmw2012,sprache=en,rwb=true.pdf>.

Food and Agriculture Organisation. (2010). *The Role of Information and Communication Technologies for Community-Based Adaptation to Climate Change*. Rome: FAO. Retrieved on November 12, 2015 from: http://www.fao.org/uploads/media/ap606e_2.pdf.

Groeneveld, R. A., & Meeden, G. (1984). "Measuring Skewness and Kurtosis. *Journal of the Royal Statistical Society*". *The Statistician*, 33, pp. 391–99.

Hair, J., Anderson, R., Tatham, R., & Black, W. (2010). *Multivariate Data Analysis*. 7th Edition, United States of America: Prentice-Hall International.

Hargreaves, A. & Shaw, P. (2007). *Knowledge and Skill Development in Developing and Transitional Economies*. World Bank. Retrieved October 22, 2015 from: siteresources.worldbank.org/EDUCATION/Resources/278200-1126210664195/1636971-1126210694253/DFID_WB_KS_FinalReport_7-31-06.pdf.

Hicks, N., & Streeten, P. (1979). *Indicators of Development: The Search for Basic Needs Yardstick*. *World Development*, 7, pp. 567-80.

Hollanders, H., Es-Sadki N, & Kanerva, M. (2015). *Innovation Union Scoreboard 2015*. Maastricht: Maastricht Economic and Social Institute on Innovation and Technology. Retrieved November 15, 2015 from: ec.europa.eu/growth/industry/innovation/facts-figures/scoreboards/files/ius-2015_en.pdf.

INSEAD & WIPO. (2012). *The Global Innovation Index 2012: Stronger Innovation Linkages for Global Growth*. Fontainebleau: INSEAD. Retrieved October 22, 2015 from: www.wipo.int/edocs/pubdocs/en/economics/gii/gii_2012.pdf.

International Monetary Fund. (2015). *World Economic Outlook: Uneven Growth: Short- and Long-Term Factors*. Washington, D.C.: International Monetary Fund, Publication Services. Retrieved November 19, 2015 from: www.imf.org/external/pubs/ft/weo/2015/01/.

International Telecommunication Union. (2012). *Boosting energy efficiency through Smart Grids*. Retrieved November 12, 2015 from: https://www.itu.int/dms_pub/itu-t/oth/4B/01/T4B010000050001PDFE.pdf.

- International Telecommunication Union. (2014). *Measuring the Information Society 2014*. Geneva: International Telecommunication Union. Retrieved November 11, 2015 from: https://www.itu.int/en/ITU-D/Statistics/Documents/publications/mis2014/MIS2014_without_Annex_4.pdf.
- Kozma, R. (1991). "Learning with Media". *Review of Educational Research*. 61 pp. 179-221.
- Kozma, R. (1994). "*Will Media Influence Learning: Reframing the Debate*". *Educational Technology Research and Development*. 42(2). pp. 7-19.
- Labe, O. (2012). "*Key Indicators on Tertiary Education: Calculation and Interpretation*". UIS Workshop on Education Statistics. Windhoek: UNESCO. Retrieved October 22, 2015 from: www.uis.unesco.org/StatisticalCapacityBuilding/Workshop%20Documents/Education%20workshop%20dox/2010%20Windhoek%20Regional%20Workshop%20on%20Education%20Statistics%20for%20South%20and%20Eastern%20Africa/Key%20Higher%20ED%20indicators.pdf.
- Lord J. & Hutchison, P. "*The Process of Empowerment: Implications of Theory and Practice*". *Canadian Journal of Community Mental Health*. Spring 1993.
- Martin, M. & Sauvageot, C. (2011). *Constructing an Indicator System or Scorecard for Higher Education: A Practical Guide*. Paris: UNESCO. Retrieved November 14, 2015 from: www.uis.unesco.org/Library/Documents/constructing-indicator-system-scorecard-higher-education-2011-en.pdf.
- Microsoft Research. (2006). *Towards Science 2020*. Cambridge: Microsoft Research. Retrieved November 12, 2015 from: http://research.microsoft.com/en-us/um/cambridge/projects/towards2020science/downloads/T2020S_ReportA4.pdf.
- Ministry of Communications and Information Technology- Egypt. (2014). *Digital Economy for Achieving Prosperity.. Freedom..Social Equity*. Retrieved November 12, 2015 from: <http://www.egytrade.be/wp-content/uploads/2014/07/Egypt-Vision-on-digital-economy.pdf>.
- Ministry of Education- Finland. (2008). *Education and Research Development Plan 2007-2012*. Helsinki: Helsinki University Print Bookstore, Helsinki University. Retrieved October 22, 2015 from: <http://www.minedu.fi/export/sites/default/OPM/Julkaisut/2008/liitteet/opm11.pdf>.
- Khorshid, M. (2015a). *Measuring Research, Development and Innovation Indicators for the Arab Countries – A Concept Paper*. (Unpublished) Arab Knowledge Project. Beirut: UNDP.
- Khorshid, M. (2015b). *Measuring Research, Development and Innovation Indicators for the Arab Countries – Structure and List of Indicators*. (Unpublished) Arab Knowledge Project. Beirut: UNDP.
- Knowledge & Human Development Authority. (2011). *Statistics for Private Schools in Dubai 2010/2011*. Government of Dubai. Retrieved October 22, 2015 from: http://www.khda.gov.ae/CMS/WebParts/TextEditor/Documents/EducationalStatisticsBulletin2010-11_Final_Eng.pdf.
- National Research Council. (2012). "*Improving Measurement of Productivity in Higher Education*". Panel on Measuring Higher Education Productivity: Conceptual Framework and Data Needs. Washington, DC: National Academies Press. Retrieved November 13, 2015 from: biblioteca.ucv.cl/site/colecciones/manuales_u/13417.pdf.
- OECD. (2002). *Frascati Manual – Proposed Standards Practice for Surveys on Research and Experimental Development*. Paris: OECD Publishing. Retrieved October 22, 2015 from: http://www.uis.unesco.org/Library/Documents/OECDFrascatiManual02_en.pdf.
- OECD. (2004a). "*Promoting Entrepreneurship and Innovative SMEs in a Global Economy: Towards a More Responsible and Inclusive Globalisation*". Second Conference of Ministers Responsible for Small and Medium-Sized Enterprises (SMEs). Paris: OECD. Retrieved October 22, 2015 from: www.oecd.org/cfe/smes/31919278.pdf.
- OECD. (2004b). *Innovation in the Knowledge Economy – Implication for Education and Learning*. Center for Education Research and Innovation. Paris: OECD Publishing. Retrieved October 22, 2015 from: <http://ocw.metu.edu.tr/file.php/118/Week11/oecd2.pdf>.
- OECD. (2005). *Oslo Manual – Guidelines for collecting and Interpreting Innovation Data*. Third Edition. Paris: OECD and Eurostat. Retrieved October 22, 2015 from: http://www.uis.unesco.org/Library/Documents/OECD OsloManual05_en.pdf.

OECD. (2008a). *Compendium of Patents Statistics 2008*. Paris: OECD Publishing. Retrieved October 22, 2015 from: <http://www.oecd.org/sti/inno/37569377.pdf>.

OECD. (2008b). *Handbook on Constructing Composite Indicators: Methodology and User Guide*. Paris: OECD. Retrieved October 8, 2015 from: <http://www.oecd.org/std/42495745.pdf>.

OECD. (2009). *Measuring the Relationship between ICT and the Environment*. Paris: OECD. Retrieved November 12, 2015 from: <http://www.oecd.org/sti/43539507.pdf>.

OECD. (2012). *Indicators of Education Systems*. OECD. Retrieved October 30, 2015 from: www.oecd.org/education/skills-beyond-school/49338320.pdf.

OECD. (2013). *OECD Science, Technology and Industry Scoreboard 2013 – Innovation for Growth*. Paris: OECD Publishing. Retrieved October 22, 2015 from: http://www.oecd-ilibrary.org/oecd-science-technology-and-industry-scoreboard-2013_5k44x0hx8vvr.pdf;jsessionid=3or6hgc86rutj.x-oecd-live-02?contentType=%2fns%2fStatisticalPublication%2c%2fns%2fOECDBook%2c%2fns%2fBook&itemId=%2fcontent%2fbook%2fsti_scoreboard-2013-en&mimeType=application%2fpdf&containerItemId=%2fcontent%2fserial%2f20725345&accessItemIds=

OECD. (2014). *Education at a Glance 2014: OECD Indicators*. Paris: OECD Publishing. Retrieved October 29, 2015 from: <http://dx.doi.org/10.1787/eag-2014-en>.

OECD, World Bank, ETF, ILO & UNESCO. (2013). *Indicators of Skills for Employment and Productivity: A Conceptual Framework and Approach for Low-Income Countries*. Retrieved May 17, 2015 from: www.oecd.org/g20/topics/development/indicators-of-skills-employment-and-productivity.pdf.

Organisation of the Islamic Conference. (2008). *Education: Prospects and Challenges in the OIC member Member states Countries*. Ankara: The Statistical, Economic and Social Research and Training Centre for Islamic Countries. Retrieved November 17, 2015 from: <http://www.sesrtcic.org/files/article/286.pdf>.

Paunov, C. (2013). *Innovation and Inclusive Development – A Discussion of the Main Policy Issues*. OECD Science, Technology and Industry Working Papers 2013/01. Paris: OECD Publishing. Retrieved October 22, 2015 from: [http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=DSTI/DOC\(2013\)1&docLanguage=En](http://www.oecd.org/officialdocuments/publicdisplaydocumentpdf/?cote=DSTI/DOC(2013)1&docLanguage=En).

Rutkowski, D. (2008). “Towards an Understanding of Educational Indicators”. *Policy Futures in Education*. Volume 6 Number 4, 2008. Retrieved August 22, 2015 from: www.worldwords.co.uk/PFIE.

Saleh, N. (2011). *2008 Science & Technology Indicators in the Arab States*. Cairo: The UNESCO Office.

Saltelli, A., Ratto, M., Andres, T., Campolongo, F., Cariboni, J., Gatelli, D., Saisana, M. & Tarantola, S. (2008). *Global Sensitivity Analysis: The Primer*. Chichester: John Wiley & Sons.

Steering Committee for the Review of Government Service Provision. (2014). *Report on Government Services 2014: Vocational Education and Training*. Retrieved November 29, 2015 from: www.pc.gov.au/___data/assets/pdf_file/0004/132439/rogs-2014-volumeb-chapter5-factsheet.pdf.

Stewart, T. (1997). *Intellectual Capital: The New Wealth of Nations*. New York: Doubleday Dell Publishing Group, Inc.

Tavakol, M., & Dennick, R. (2011). “Making Sense of Cronbach’s Alpha”. *International Journal of Medical Education*, 2, pp. 53-55. Retrieved October 15, 2015 from: www.ijme.net/archive/2/cronbachs-alpha.pdf.

UNCTAD. (2010). *Information Economy Report 2010: ICTs, Enterprises and Poverty Alleviation*. Geneva: UNCTAD. Retrieved November 10, 2015 from: http://unctad.org/en/Docs/ier2010_en.pdf.

UNDP. (1990). *Human Development Report 1990*. New York: Oxford University Press. Retrieved 27 October 2015 from: http://hdr.undp.org/sites/default/files/reports/219/hdr_1990_en_complete_nostats.pdf.

UNDP. (1995). *Human Development Report 1995*. New York: Oxford University Press. Retrieved 27 October 2015 from: http://hdr.undp.org/sites/default/files/reports/256/hdr_1995_en_complete_nostats.pdf.

UNDP. (1997). *Human Development Report 1997*. New York: Oxford University Press. Retrieved 27 October 2015 from: http://hdr.undp.org/sites/default/files/reports/258/hdr_1997_en_complete_nostats.pdf.

UNESCO. (1990). “*Meeting Basic Learning Needs: A Vision for the 1990s*”. Background Document for the World Conference on Education for All: 5-9 March 1990-Jomtien, Thailand. New York: WCEFA Interagency Commission.

UNESCO. (2003). *Measuring and Monitoring the Information and Knowledge Societies: A Statistical Challenge*. Paris: UNESCO. Retrieved November 12, 2015 from: <http://unstats.un.org/unsd/statcom/doc04/measuring-information-e.pdf>.

UNESCO. (2008). *Quality Education, Equity and Sustainable Development: A Holistic Vision Through UNESCO's Four World Education Conferences 2008-2009*. Retrieved October 29, 2015 from: <http://unesdoc.unesco.org/images/0018/001818/181864e.pdf>.

UNESCO. (2010a). *Measuring R&D: Challenges Faced by Developing Countries*. Technical Paper No. 5, UNESCO Institute for Statistics. Paris: UNESCO Publishing. Retrieved October 22, 2015 from: <http://www.uis.unesco.org/Library/Documents/tech%205-eng.pdf>.

UNESCO. (2010b). *UNESCO Science Report 2010 – The Current Status of Science Around the World*. Paris: UNESCO Publishing. Retrieved October 22, 2015 from: <http://unesdoc.unesco.org/images/0018/001899/189958e.pdf>.

UNESCO. (2014). *Position Paper on Education Post-2015*. Paris: UNESCO. Retrieved October 22, 2015 from: <http://unesdoc.unesco.org/images/0022/002273/227336E.pdf>.

UNESCO. (2015). *EFA Global Monitoring Report. Education for all 2000-2015: Achievements and challenges*. Paris: UNESCO.

UNESCO Institute for Statistics. (2014). *Higher Education*. Retrieved November 14, 2015 from: www.uis.unesco.org/Education/Pages/tertiary-education.aspx.

UNESCO Institute for Statistics. (2015). *Technical Advisory Group Proposal: Thematic Indicators to Monitor the Post-2015 Education Agenda*. Retrieved October 31, 2015 from: www.uis.unesco.org/Education/Documents/tag-proposed-thematic-indicators-post2015-education-agenda.pdf.

UNESCO-UNEVOC. (2006). *Discussion Paper Series 1: Orienting Technical and Vocational Education and Training for Sustainable Development*. Bonn, Germany: UNESCO-UNEVOC International Centre for Technical and Vocational Education and Training. Retrieved October 22, 2015 from: unesdoc.unesco.org/images/0014/001480/148012e.pdf.

UNESCO-UNEVOC. (2014). *Promoting Learning for the World of Work*. Paris: UNESCO. Retrieved October 22, 2015 from: www.unevoc.unesco.org/go.php.

United Nations. (2000). *Millennium Development Goals*. New York: United Nations. Retrieved October 22, 2015 from: www.un.org/millenniumgoals/.

United Nations. (2015). *Open Working Group proposal for Sustainable Development Goals. United Nations Department of Economic and Social Affairs*. New York: United Nations. Retrieved November 12, 2015 from: <https://sustainabledevelopment.un.org/focussdgs.html>.

United Nations. (2014). *E-Government Survey 2014: E-Government for the World We Want*. UN Department of Economic & Social Affairs. New York: United Nations. Retrieved November 12, 2015 from: http://unpan3.un.org/egovkb/Portals/egovkb/Documents/un/2014-Survey/E-Gov_Complete_Survey-2014.pdf.

Wilkins, K. (2011). *Higher Education Reform in the Arab World*. Washington: SABAN Center, The Brookings Institution. Retrieved August 17, 2015 from: http://www.brookings.edu/~media/research/files/papers/2011/8/education%20reform%20wilkins/08_education_reform_wilkins.pdf.

World Bank. (1999). *World Development Report 1998/1999: Knowledge for Development*. Annual World Development Report. Washington D.C.: Oxford University Press.

- World Bank. (2000). *Higher Education in Developing Countries: Peril and Promise*. Washington: The International Bank for Reconstruction and Development/The World Bank. Retrieved August 17, 2015 from: http://siteresources.worldbank.org/EDUCATION/Resources/278200-1099079877269/547664-1099079956815/peril_promise_en.pdf.
- World Bank. (2007). *Building Knowledge Economies – Advanced Strategies for Development*. WBI Development Studies. Washington, D.C.: World Bank Publishing. Retrieved October 22, 2015 from: <http://siteresources.worldbank.org/KFDLP/Resources/461197-1199907090464/BuildingKEbook.pdf>.
- World Bank. (2008a). *Knowledge for Development –K4D*. The World Bank Institute’s Program on Building Knowledge Economies. Washington D.C: World Bank Publishing. Retrieved October 22, 2015 from: http://siteresources.worldbank.org/KFDLP/Resources/461197-1199907090464/k4d_bookletjune2008.pdf.
- World Bank. (2008b). *The Road Not Traveled: Education Reform in the Middle East and Africa*. Washington: The World Bank. Retrieved October 22, 2015 from http://siteresources.worldbank.org/INTMENA/Resources/EDU_Flagship_Full_ENG.pdf.
- World Bank. (2011a). *Knowledge for Development Variables and Clusters*. Retrieved November 14, 2015 from: web.worldbank.org/WBSITE/EXTERNAL/WBI/WBIPROGRAMS/KFDLP/EXTUNIKAM/0,,contentMDK:20584288~menuPK:1433258~pagePK:64168445~piPK:64168309~theSitePK:1414721,00.html#education.
- World Bank. (2011b). *Learning for All: Investing in People’s Knowledge and Skills to Promote Development*. World Bank Group Education Strategy 2020. Washington DC: The World Bank.
- World Bank. (2012). *Knowledge Assessment Methodology 2012*. Retrieved November 14, 2015 from: web.worldbank.org/WBSITE/EXTERNAL/WBI/WBIPROGRAMS/KFDLP/EXTUNIKAM/0,,menuPK:1414738~pagePK:64168427~piPK:64168435~theSitePK:1414721,00.html.
- World Bank. (2013). *Tertiary Education (Higher Education)*. The World Bank Group. Retrieved October 22, 2015 from: web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTEDUCATION/0,,contentMDK:20298183~menuPK:617592~pagePK:148956~piPK:216618~theSitePK:282386,00.html#what_why.
- World Bank. (2015a). *World Development Indicators- World Bank Open Data*. Retrieved November 12, 2015 from: data.worldbank.org.
- World Bank. (2015b). *World Development Report*. Washington, D.C.: The World Bank Group. Retrieved November 18, 2015 from: www.worldbank.org/en/publication/wdr/wdr-archive.
- World Commission on Environment and Development. (1987). *Our Common Future*. Oxford University Press, New York.
- World Economic Forum. (2014). *The Global Competitiveness Report 2014-2015*. Geneva: The World Economic Forum. Retrieved November 12, 2015 from: http://www3.weforum.org/docs/WEF_GlobalCompetitivenessReport_2014-15.pdf.
- World Economic Forum. (2015a). *The Global Competitiveness Report 2015-2016*. Insight Report. Geneva: World Economic Forum. Retrieved October 22, 2015 from: www3.weforum.org/docs/gcr/2015-2016/Global_Competitiveness_Report_2015-2016.pdf.
- World Economic Forum. (2015b). *The Global Information Technology Report 2015: ICTs for Inclusive Growth*. Retrieved November 11, 2015 from: http://www3.weforum.org/docs/WEF_GITR2015.pdf.
- World Economic Forum & European Bank for Construction and Development. (2013). *The Arab World Competitiveness Report 2013*. Insight Report. Geneva: World Economic forum. Retrieved October 22, 2015 from: www.ebrd.com/downloads/news/arab-competitiveness-report.pdf.
- World Health Organization. 2004. *eHealth for Health-care Delivery: Strategy 2004-2007*. Geneva, World Health Organization. Retrieved November 12, 2015 from: www.who.int/eht/en/EHT_strategy_2004-2007.pdf.
- World Summit on the Information Society. (2005). “*WSIS Thematic Meeting on Measuring the Informa-*

tion Society: *Final Conclusions*". Geneva: World Summit on the Information Society. Retrieved November 12, 2015 from: <https://www.itu.int/net/wsis/docs2/thematic/unctad/final-conclusions.PDF>.

References in French

CGPME & KPMG. (2012). *Panorama de l'évolution des pme depuis 10 ans*. Cahier préparatoire 28 Juin 2012. Paris: KPMG. Retrieved October 22, 2015 from: <https://www.kpmg.com/FR/fr/IssuesAndInsights/ArticlesPublications/Documents/Evolution-des-PME-depuis-10ans-2012.pdf>.

Demeuse, M., & Blondin, C. (2001). « *Service de pédagogie expérimentale* ». Colloque international « l'éducation dans tous ses états ». Bruxelles 9/12 mai 2001. Belgique : Université de Liège.

Haut Conseil de l'Évaluation de l'École. (2005). *Avis du Haut Conseil de l'évaluation de l'école : Les dispositifs d'indicateurs internationaux de l'éducation*. Paris: Ministère de l'Éducation Nationale, de l'Enseignement Supérieur et de la Recherche. Retrieved October 29, 2015 from: http://www.hce.education.fr/gallery_files/site/21/82.pdf.

Ministère de l'Éducation Nationale, de l'Enseignement Supérieur et de la Recherche en France. (2014). *Géographie de l'École*. Paris: Ministère de l'Éducation Nationale, de l'Enseignement Supérieur et de la Recherche. Retrieved October 29, 2015 from: <http://www.education.gouv.fr/cid56332/geographie-de-l-ecole.html>.

Ministère de l'Éducation nationale, de l'Enseignement supérieur et de la Recherche en France. (2015). *L'état de l'École 2015. Coûts, activités, résultats*. Paris: Ministère de l'Éducation Nationale, de l'Enseignement Supérieur et de la Recherche. Retrieved October 29, 2015 from: <http://www.education.gouv.fr/cid57102/l-etat-de-l-ecole-2015.-couts-activites-resultats.html>.

Jullien, M.-A. (1817). « *Lettres de M-A. Jullien sur la Méthode d'éducation de M. Pestalozzi* ». Journal d'éducation. L. Colas, N° de juin 1816. Paris: Journal d'éducation.

Renard, P. (2001). « *l'éducation dans tous ses états* » Bruxelles 9/12 mai 2001. Colloque international. Université Libre de Bruxelles et Haute Ecole Lucia de Brouckère Retrieved November 15, 2015 from: : <http://www2.cfwb.be/cedef/charger/co3.pdf>.

Tiana, A. (2001). *Le monde comme laboratoire éducatif. Politiques d'éducation et de formation. Analyses et comparaisons internationales*. (3), p. 47-57.

Background Papers (in Arabic)

Ahmed Ouzzi. (2015a). *Building A Knowledge Index: A Pioneering Phase for the Series of Arab Knowledge Report*.

Ahmed Ouzzi. (2015b). *Knowledge-Able, A Locomotive for Development and Social Development*.

Ahmed Shoqran. (2015). *On the Knowledge Economy: Concept and Indicators*.

Ali Ali Fahmi. (2015). *Big Data: Challenges of Securing It and Using It in the Future*.

Ashraf Chaalan. (2015). *R&D Indicators at the National Center for Research in Egypt: Methods of Measurement and Evaluation Results*.

Ayman Mahmoud Kassab. (2015). *The Arab Knowledge Index: E-government and Smart Government Indicators*.

Ghazi Al Assaf. (2015). *Knowledge Economy Indicators*.

Mohamed Abu Razzuka. (2015). *Progress in ICT and Global Trends in this Area and What Arab Countries Need to Be an Effective Partner in the Future*.

Mohamed Jamal Darwish. (2015). *Cloud Computing Networks*.

Mohamed Matar. (2015). *Leading Regional and International Experiments in the Field of Constructing the Educational Indices for Pre-University Education Stage and Knowledge in General*.

Ridha Sasi. (2015). *The Situation of Pre-University Education in Arab Countries, and the Indicators Used in Its Assessment and Monitoring*.

Background Papers (in English)

Rezk, M. R. (2015). *Measuring Innovation Index: Theoretical Background and Practical Consideration*.

Saleh, N. (2015). *R&D and Indicators and Their Role in S, T & I Policies in the Arab Region*.

