



Health Information Systems Interoperability Maturity Toolkit

Complete References from the Literature Review

Alonso, J., Martínez de Soria, I., Orue-Echevarria, L., & Vergara, M. (2010). Enterprise collaboration maturity model (ECMM): Preliminary definition and future challenges. In Popplewell, K., Harding, J., Poler, R., & Chalmeta, R. (Eds.), *Enterprise interoperability IV: Making the internet of the future for the future of enterprise* (pp. 429–438). London, United Kingdom: Springer-Verlag. Retrieved from https://link.springer.com/chapter/10.1007%2F978-1-84996-257-5_40.

American Psychological Association. (2015). Data sharing: Principles and considerations for policy development. Retrieved from <https://www.apa.org/science/leadership/bsa/data-sharing-report.pdf>.

Bani-Ismail, B., & Baghdadi, Y. (2016). SOA maturity models as guidance to select service identification methods: A research agenda. In Espana, S., Ralyte, J., & Souveyet, C. (Eds.), *IEEE 10th International Conference on Research Challenges in Information Science*, Grenoble, France, June 1–3, 2016. Retrieved from <http://ieeexplore.ieee.org/document/7549360/>.

Benguria, G., & Santos, I. (2008). SME maturity, requirement for interoperability. In Mertins, K., Ruggaber, R., Popplewell, K., & Xu, X. (Eds.), *Enterprise interoperability III: New challenges and industrial approaches* (pp. 29–40), London, United Kingdom: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-1-84800-221-0_3.

Bollen, P., Panetto, H., Weichhart, G., Vidal M.-E., Ciuciu, I., Debruyne, C., & Fensel A. (Eds.). (2017). *Confederated international workshops on the move to meaningful internet systems, OTM 2016 held as part of EI2N, FBM, ICSP, Meta4eS, and OTMA 2016. Lecture Notes in Computer Science*. Berlin, Germany: Springer Verlag. Retrieved from <https://www.scopus.com/record/display.uri?eid=2-s2.0-85017691200&origin=inward&txGid=5c1b9788f651c11bae9ef34b3e19ee7b>.

Bouamrane, M-M., Tao, C., & Sarkar, I.N. (2015). Managing interoperability & complexity in health systems. *Methods of Information in Medicine*, 54 (1), 1-4. Retrieved from <https://strathprints.strath.ac.uk/55120/>.

Campos, C., Chalmeta, R., Granel, R., & Poler, R. (2013). Maturity model for interoperability potential measurement. *Information Systems Management*, 30 (3), 218–234. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/10580530.2013.794630>.

Carvalho, J.V., Rocha, A., & Abreu, A. (2016). Maturity models of healthcare information systems and technologies: A literature review. *Journal of Medical Systems*, 40 (6), 131. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/27083575>.

Celi, L. A., Fraser, H. S., Nikore, V., Osorio, J. S., & Paik, K. (Eds.). (2017). *Global health informatics: Principles of eHealth and mHealth to improve quality of care*. Cambridge, MA: The MIT Press. Available from <https://mitpress.mit.edu/books/global-health-informatics>.

Cestari, J. M. A. P., Loures, E. R., & Santos, E. A. P. (2013). Interoperability assessment approaches for enterprise and public administration. In Demey, Y.T., & Panetto, H. (Eds.), *On the move to meaningful internet systems: OTM 2013 workshops. OTM 2013. Lecture Notes in Computer Science* (Vol. 8186, pp. 78–85). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-41033-8_13#citeas.

Cestari, J. M. A. P., Loures, E. R., Santos, E. A. P., & Lezoche, M. (2014). A research strategy for public administration interoperability assessment. In *IIE Annual Conference and Expo 2014* (pp. 3134–3143). Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84910091485&partnerID=40&md5=5cb83f2892e4279121e4fd2306081503>.

Cestari, J. M. A. P., Santos, E. A. P., & Loures, E. F. R. (2013). An overview of enterprise interoperability assessment. In *22nd International Conference on Production Research, ICPR 2013*, Parana, Brazil, July 28–August 1, 2013. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929340101&partnerID=40&md5=1f8a62fbd175e76afeb0735de0a01772>.

Chrissis, M.B., Konrad, M.D., & Shrum, S. (2011). *CMMI for development: Guidelines for process integration and product improvement*. Third edition. Boston, MA: Addison-Wesley Professional. Retrieved from <https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=31054>.

Chrissis, M.B., Konrad, M.D., & Shrum, S. (2011). *CMMI for development: Guidelines for process integration and product improvement*. Third edition. Boston, MA: Addison-Wesley Professional. Retrieved from <https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=31054>.

Cornu, C., Quiot, J.-M., Chapurlat, V., & Irigoin, F. (2012). A maturity model for the deployment of systems engineering processes. In *2012 IEEE International Systems Conference*, Vancouver, Canada, March 19–22, 2012. Retrieved from https://www.researchgate.net/publication/233391574_A_Maturity_Model_for_the_Deployment_of_Systems_Engineering_Processes.

Corrêa, A. S., de Assis Mota, A., Mota, L. T. M., & Corrêa, P. L. P. (2014). A fuzzy rule-based system to assess e-government technical interoperability maturity level. *Transforming Government: People, Process and Policy*, 8 (3), 335–356. Retrieved from <http://www.emeraldinsight.com/doi/abs/10.1108/TG-08-2013-0028>.

Corrigan, D., McDonnell, R., Zarabzadeh, A., & Fahey, T. (2015). A multistep maturity model for the implementation of electronic and computable diagnostic clinical prediction rules (eCPRs). *eGEMS (Generating Evidence & Methods to improve patient outcomes)*, 3 (2), 8. Retrieved from <https://egems.academyhealth.org/articles/abstract/10.13063/2327-9214.1153/>.

Daclin, N., Chen, D., & Vallespir, B. (2008). Methodology for enterprise interoperability. In *Proceedings of the 17th World Congress: The International Federation of Automatic Control* (Vol. 17). Seoul, Korea, July 6–11, 2008. Retrieved from <http://folk.ntnu.no/skoge/prost/proceedings/ifac2008/data/papers/2896.pdf>.

Daclin, N., Chen, D., & Vallespir, B. (2014). Developing enterprise collaboration: A methodology to implement and improve interoperability. *Enterprise Information Systems*, 10 (5), 467–504. Retrieved from <http://www.tandfonline.com/doi/full/10.1080/17517575.2014.932013>.

De Bruin, T., Freeze, R., Kaulkarni, U., & Rosemann, M. (2005). Understanding the main phases of developing a maturity assessment model. In Campbell, B., Underwood, J., & Bunker, D. (Eds.), *Australasian Conference on Information Systems* (ACIS). Australia, New South Wales, Sydney, November 30–December 2, 2005. Retrieved from <http://eprints.qut.edu.au/25152/>.

De Soria, I. M., Alonso, J., Orue-Echevarria, L., & Vergara, M. (2016). Developing an enterprise collaboration maturity model: Research challenges and future directions. In *2009 IEEE International Technology Management Conference*, Leiden, Netherlands, June 22–24, 2009. Retrieved from <http://ieeexplore.ieee.org/document/7461411/>.

- Dhany, T., & Bandung, Y. (2017). Design of digital asset management system for broadcasting organizations: A case study of public broadcasting TVRI. In *2016 International Conference on Information Technology Systems and Innovation*, Bandung, Indonesia, October 24–27, 2016. Retrieved from <http://ieeexplore.ieee.org/document/7858203/>.
- Dias, G. P. (2011). Q-model: Um modelo bidimensional de maturidade para o e-government. *RISTI - Revista Iberica de Sistemas E Tecnologias de Informacao*, 7 (1), 33–46. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857170438&partnerID=40&md5=0edb5c70274cf07ed90b0c6920b91d8b>.
- Duncan, J., Xu, W., Narus, S. P., Nangle, B., Thornton, S., & Facelli, J. (2013). A focus area maturity model for a statewide master person index. *Online Journal of Public Health Informatics*, 5 (2), 210. Retrieved from <http://journals.uic.edu/ojs/index.php/ojphi/article/view/4669>.
- El Aichi, M. M. E., & El Kettani, M. D. E.-C. (2011). Maturity models transition from e-government interoperability to t-government: Restyling dynamic public services through integrated transformation of service delivery. In *Proceedings of the European Conference on e-Government* (pp. 591-602). Retrieved from <http://scholar.um5.ac.ma/dafir.elkettani/publications/maturity-models-transition-egovernment-interoperability-t-government>.
- Estrin, D. & Sim, I. (2010). Open mHealth architecture: An engine for health care innovation. *Science*, 330 (6005) 759-760. Retrieved from <http://science.sciencemag.org/content/sci/330/6005/759.full.pdf?ijkey=blm3KWurzyiA&keytype=ref&sited=sci>.
- Fitterer, R., & Rohner, P. (2010). Towards assessing the networkability of health care providers: A maturity model approach. *Information Systems and E-Business Management*, 8 (3), 309–333. Retrieved from <https://link.springer.com/article/10.1007%2Fs10257-009-0121-9>.
- Flott, K., Callahan, R., Darzi, A., & Mayer, E. (2016). A patient-centered framework for evaluating digital maturity of health services: A systematic review. *Journal of Medical Internet Research*, 18 (4), e75. Retrieved from <http://www.jmir.org/2016/4/e75/>.
- Food and Drug Administration (FDA). (2014). *FDASIA health IT report: proposed strategy and recommendations for a risk-based framework*. Silver Spring, MD: FDA. Retrieved from <https://www.fda.gov/downloads/aboutfda/centersoffices/officeofmedicalproductsandtobacco/cdrh/cdrhreports/ucm391521.pdf>.
- Frick, N. (2012). Identification of design elements for a maturity model for interorganizational integration: a comparative analysis. In *25th Bled eConference - eDependability: Reliable and Trustworthy eStructures, eProcesses, eOperations and eServices for the Future, Proceedings* (pp. 185–196). Bled eCommerce Conference, Bled, Slovenia, June 17–20, 2012. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926313015&partnerID=40&md5=85e9509ad184e3845d8fa009d75f2573>.
- Frick, N., Küttner, T. F., & Schubert, P. (2013). Assessment methodology for a maturity model for interorganizational systems: The search for an assessment procedure. In *2013 46th Hawaii International Conference on System Sciences (HICSS)*, (pp. 274–283), Wailea, Maui, HI, January 7–10, 2013. Retrieved from <http://ieeexplore.ieee.org/document/6479867/>.
- Glasgow, R. E., Vogt, T. M., & Boles, S. M. (1999). Evaluating the public health impact of health promotion interventions: The RE-AIM framework. *American Journal of Public Health*, 89 (9), 1322-1327. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1508772/>.
- Gonzalez-Rojas, O., Correal, D., Camargo, M. (2016). ICT capabilities for supporting collaborative work on business processes within the digital content industry. *Computers in Industry*, 80, 16–29. Retrieved from <http://www.sciencedirect.com/science/article/pii/S016636151630063X?via%3Dihub>.

- Gottschalk, P. (2009). Maturity levels for interoperability in digital government. *Government Information Quarterly*, 26 (1), 75–81. Retrieved from <http://www.sciencedirect.com/science/article/pii/S0740624X08000683?via%3Dihub>.
- Gøtze, J., Christiansen, P. E., Mortensen, R. K., Paszkowski, S.. (2009). Cross-national interoperability and enterprise architecture. *Informatica*, 20 (3), 369–396. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-70349811547&partnerID=40&md5=905a6a627b453ab76ab29aaf06146852>.
- Guédria, W. (2014). SPICE: A generic model for interoperability assessment? *CEUR Workshop Proceedings* (Vol. 1182). Geneva, Switzerland, July 14–15, 2014. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925276000&partnerID=40&md5=62cf30401f81e98eab555d8c24fda7ad>.
- Guédria, W. (2014). Towards an integrated model for enterprise interoperability. In *BMSD 2014 - Proceedings of the 4th International Symposium on Business Modeling and Software Design* (pp. 196–201), Luxembourg, Luxembourg, June 24–26, 2014. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926372701&partnerID=40&md5=462ae8d499d71404f81d1897b649592d>.
- Guédria, W. (2015). A conceptual framework for enterprise interoperability. In I. Management Association (Ed.), *Standards and standardization: concepts, methodologies, tools, and applications* (Vol. 10, pp. 652–662). Hershey, PA: IGI Global. Retrieved from <https://www.igi-global.com/gateway/chapter/125314>.
- Guédria, W., Bouzid, H., Bosh, G., Naudet, Y., Chen, D. (2012). eHealth interoperability evaluation using a maturity model. In Mantas, J., Andersen, S.K., Mazzoleni, M.C., Blobel, B., Quaglini, S. & Moen, A. (Eds.), *Quality of Life through Quality of Information* (Vol. 180, pp. 333–337). Retrieved from <http://ebooks.ioppres.nl/publication/21759>.
- Guédria, W., Chen, D., & Naudet, Y. (2009). A maturity model for enterprise interoperability. In Meersman, R., Herrero, P., & Dillon, T. (Eds.), *On the Move to Meaningful Internet Systems: OTM 2009 Workshops. OTM 2009. Lecture Notes in Computer Science* (Vol. 5872, pp. 216–225). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-05290-3_32#citeas.
- Guédria, W., Naudet, Y., & Chen, D. (2008). Interoperability maturity models—survey and comparison. *International Conference on On the Move to Meaningful Internet Systems, Lecture Notes in Computer Science* (Vol. 5333, pp. 273–282). Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84880975231&partnerID=40&md5=f63921b9db19f88512366446f682d356>.
- Guédria, W., Naudet, Y., & Chen, D. (2011). Maturity model as decision support for enterprise interoperability. In Meersman, R. Dillion, T., & Herrero, P. (Eds.), *On the Move to Meaningful Internet Systems: OTM 2011 Workshops, Lecture Notes in Computer Science* (Vol. 7046, pp. 604–608). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-25126-9_73#citeas.
- Guédria, W., Naudet, Y., Chen, D. (2011). Enterprise interoperability maturity: A model using fuzzy metrics. In Salinesi, C., & Pastor, O. (Eds.), *Advanced Information Systems Engineering Workshops, Lecture Notes in Business Information Processing* (Vol. 83, pp. 69–80). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-22056-2_8#citeas.
- Guédria, W., Naudet, Y., Chen, D. (2013). Maturity model for enterprise interoperability. *Enterprise Information Systems*, 9 (1), 1–28. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/17517575.2013.805246>.
- Guédria, W., Naudet, Y., Chen, D. (2011). A maturity model assessing interoperability potential. In Halpin, T., Nurcan, S., Krogstie, J., Soffer, P., Proper, E., Schmidt, R. & Bider, I. (Eds.), *Enterprise, Business-Process and Information Systems Modeling, Lecture Notes in Business Information Processing* (Vol 81., p. 276+). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-21759-3_20#citeas.

Gurdur, D., Asplund, F., & El-khoury, J. (2016). Measuring tool chain interoperability in cyber-physical systems. In *2016 11th Systems of System Engineering Conference, IEEE*, (pp.1–4). Retrieved from <https://scholar.google.com.tr/citations?user=qun9LmsAAAAJ&hl=en>.

Hammond, W.E., Bailey, C., Boucher, P., Spohr, M., & Whitekar, P. (2010). Connecting information to improve health. *Health Affairs*, 29 (2), 284-288. Retrieved from <https://www.ncbi.nlm.nih.gov/pubmed/20348075>.

Hansson, S.O. (2005). Decision theory: A brief introduction. Department of Philosophy and the History of Technology, Royal Institute of Technology. Retrieved from <http://people.kth.se/~soh/decisiontheory.pdf>.

Harmon, S. Y., & Youngblood, S. (2008). Evolving the validation process maturity model (VPMM). In *Simulation Interoperability Standards Organization - SISO European Simulation Interoperability Workshop*. Edinburgh, United Kingdom, June 16–19, 2008. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84865419015&partnerID=40&md5=a774047d269c66d543a07251bd94213d>.

Harvard Business Review. (2007). How mature are your processes? Harvard Business School Publishing Corporation. Retrieved from <https://hbr.org/resources/pdfs/hbr-articles/2007/04/hammer-assessing-worksheet.pdf>.

Harvard Business Review. (2007). How mature is your enterprise? *Harvard Business School Publishing Corporation*. Retrieved from: <https://hbr.org/resources/pdfs/hbr-articles/2007/04/hammer-evaluating-worksheet.pdf>

Health Enabled. (n.d.). The global health digital health index. Retrieved from <http://healthenabled.org/wordpress/the-global-digital-health-index/>.

Health Enabled. (2017). The global digital health index and maturity model [Powerpoint slides].

Health Metrics Network. (2007). *Strengthening country health information systems: Assessment and monitoring tool. Version 2.0*. Geneva, Switzerland: Health Metrics Network, World Health Organization. Retrieved from https://www.measureevaluation.org/his-strengthening-resource-center/resources/hmn_assessment_tool_guide_ver2.pdf.

HIMSS. (2013, April 5). Definition of interoperability. Retrieved from <http://www.himss.org/sites/himssorg/files/FileDownloads/HIMSS%20Interoperability%20Definition%20FINAL.pdf>.

Humphrey, W.S. (1988). Characterizing the software process: A maturity framework. *IEEE Software*, 5 (2), 73-79. Retrieved from <https://www.computer.org/csdl/mags/so/1988/02/s2073-abs.html>.

Illinois Department of Human Services. (2014, January 31). Illinois interoperability project, final report. Retrieved from https://www.acf.hhs.gov/sites/default/files/assets/13114illinois_interoperability_grant_final_report_90fq000301_0.pdf.

Knight, M., Widergren, S., Mater, J., & Montgomery, A. (2013). Maturity model for advancing smart grid interoperability. In *2013 IEEE PES Innovative Smart Grid Technologies (ISGT)*, Washington, DC, February 24–27, 2013. Retrieved from <http://ieeexplore.ieee.org/document/6497915/>.

Kutvonen, L. (2013). Enhancing the maturity of open service ecosystems and inter-enterprise collaborations. In van Sinderen, M., Oude Luttighuis, P., Folmer, E., & Bosems, S. (Eds.), *Enterprise Interoperability, Lecture Notes in Business Information Processing* (Vol 144, pp. 6–21). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007/978-3-642-36796-0_3#citeas.

Lam, W. (2008). Integration challenges towards increasing e-government maturity. *Journal of E-Government*, 1 (2), 45–58. Retrieved from http://www.tandfonline.com/doi/abs/10.1300/J399v01n02_04.

Lampathaki, F., Koussouris, S., & Agostinho, C. (2011). Towards an interoperability science: Cultivating the scientific foundations for enterprise interoperability. *Proceedings of CENT 2011: Collaborative Enterprises 2011 – Platforms, Processes, and Practices Advancing the Enterprise 2.0* (Vol. II, pp. 260–265).

- Leal, G. S. S., Guédria, W., Panetto, H., Proper, E., & Lezoche, M. (2017). Using formal measures to improve maturity model assessment for conceptual interoperability. In Ciuciu I. et al. (Eds.), *On the Move to Meaningful Internet Systems: OTM 2016 Workshops. OTM 2016. Lecture Notes in Computer Science* (Vol. 10034, pp. 47–56). Cham, Switzerland: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-319-55961-2_5#citeas.
- Lennon, M.R., Bouamrane, M-M., Devlin, A.M., O'Connor, S., O'Donnell, C.O., Chetty, U...Mair, F.S. (2017). Readiness for delivering digital health at scale: lessons from a longitudinal qualitative evaluation of a national digital health innovation program in the United Kingdom. *Journal of Medical Internet Research*, 19 (2), e42. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5334516/>.
- MA4Health. (2015). The roadmap for health measurement and accountability. Retrieved from http://www.who.int/hrb/documents/roadmap4health_measurement_account/en/.
- Magnuson, J. & Fu, P. (Eds.). (2014). *Public health informatics and information systems*. London, United Kingdom: Springer-Verlag. Available from <http://www.springer.com/us/book/9781447142362>.
- Maheshwari, D., & Janssen, M. (2012). Measuring organizational interoperability in practice: The case study of population welfare department of Government of Sindh, Pakistan. In *Proceeding ICEGOV '12: Proceedings of the 6th International Conference on Theory and Practice of Electronic Governance* (pp. 216–225). Albany, New York, October 22–25, 2012. Retrieved from <https://dl.acm.org/citation.cfm?doid=2463728.2463772>.
- Maheshwari, D., van Veenstra, A. F., & Janssen, M. (2011). Developing measures for benchmarking the interoperability of public organizations. In Klun, M., Decman, M., & Jukic, T. (Eds.), *Proceedings of the 11th European Conference on E-government*, Ljubljana, Slovenia, June 16–17, 2011. Retrieved from http://www.academic-bookshop.com/ourshop/prod_1423065-ECEG-2011-11th-European-Conference-on-eGovernment-Ljubljana-Slovenia-PRINT-version.html.
- MEASURE Evaluation. (2016.) Health information system assessment tools. Retrieved from <https://www.measureevaluation.org/his-strengthening-resource-center/his-assessment-tools>.
- MEASURE Evaluation. (2015). ICT infrastructure assessment tool. Unpublished manuscript. Chapel Hill, NC: MEASURE Evaluation, University of North Carolina.
- MEASURE Evaluation. (2017). Strengthening health information systems in low- and middle-income countries: A model to frame what we know and what we need to learn. Chapel Hill, NC: MEASURE Evaluation, University of North Carolina. Retrieved from <https://www.measureevaluation.org/resources/publications/tr-17-156>.
- MEASURE Evaluation. (2017). M&E capacity: Monitoring and evaluation capacity assessment toolkit (MECAT). Retrieved from <https://www.measureevaluation.org/pima/m-e-capacity/me-capacity>.
- MEASURE Evaluation. (2011). *Performance of routine information systems management (PRISM) tools*. Chapel Hill, NC: MEASURE Evaluation, University of North Carolina. Retrieved from <https://www.measureevaluation.org/resources/publications/ms-11-46-d>.
- MEASURE Evaluation. (2017). RHIS curriculum. Retrieved from: <https://www.measureevaluation.org/our-work/routine-health-information-systems/rhis-curriculum>.
- Misuraca, G., Alfano, G., & Viscusi, G. (2011). Interoperability challenges for ICT-enabled governance: Towards a pan-European conceptual framework. *Journal of Theoretical and Applied Electronic Commerce Research*. 6 (1), 95–111. Retrieved from <http://www.scielo.cl/pdf/jtaer/v6n1/art07.pdf>.

Möller, B., Klasson, F., Löfstrand, B., & Sollin, P.-P. (2012). Practical experiences from four HLA evolved federations. In *Spring Simulation Interoperability Workshop 2012, 2012 Spring SIW* (pp. 351–360). Orlando, Florida, March 26–30, 2012. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867247556&partnerID=40&md5=0a96667872f1b65fad681dd1ff83c38f>.

Moon, T., Fewell, S., & Reynolds, H. (2008). The what, why, when and how of interoperability. *Defense and Security Analysis*, 24 (1), 5–17. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/14751790801903178>.

Moreno-Conde, A., Thienpont, G., Lamote, I., Coorevits, P., Parra, C., & Kalra, D. (2016). European interoperability assets register and quality framework implementation. In Hoerbst, A., Hackl, W.O., DeKeizer, N., Prokosch, H.U., Hercigonja-Szekeres, M., & DeLusignan, S (Eds.), *Exploring Complexity in Health: An Interdisciplinary Systems Approach* (Vol. 228, pp. 690–694). Retrieved from <http://ebooks.ioppress.nl/publication/44702>.

Muller, M. F., Loures, E. R., & Canciglieri Junior, O. (2015). Interoperability assessment for building information modelling. In Yarlagadda, P. (Ed.), *Proceedings of the 3rd International Conference on Mechatronics, Robotics and Automation (ICMRA 2015)* (Vol. 15, pp. 224–231). Retrieved from <http://www.atlantis-press.com/proceedings/icmra-15/23277>.

Orlova, A. (2015). Achieving health information systems interoperability. *Journal of American Health Information Management Association*, 86 (6), 50-52. Retrieved from <https://jhu.pure.elsevier.com/en/publications/achieving-health-information-systems-interoperability>.

Padgham, D., Edmunds, M., & Holve, E. (2016). Toward greater health information interoperability in the US health system. *Issue Briefs and Reports*. Paper 20. Retrieved from <http://www.academyhealth.org/files/Toward%20Greater%20Health%20Information%20Interoperability.pdf>

Palomares, N., Campos, C., & Palomero, S. (2010). How to develop a questionnaire in order to measure interoperability level in enterprises. In Popplewell, K., Harding, J., Poler, R. & Chalmeta, R. (Eds.), *Enterprise Interoperability IV* (pp. 387–396). London, United Kingdom: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-1-84996-257-5_36#citeas.

Pan American Health Organization. (n.d.). Information systems for health maturity model (IS4H-MM) 1.0 [Powerpoint slides].

PATH & Vital Wave. (2016). *Theory of change for the Data Use Partnership*. Seattle, WA: PATH, Vital Wave. Retrieved from http://www.path.org/publications/files/DHS_theory_of_change_rptv2.pdf.

Patridge, B. (2017). Regional East Africa Digital Health Roadmap [Powerpoint slides].

Personal Connected Health Alliance. (2017). *Fundamentals of data exchange*. Arlington, VA: Personal Connected Health Alliance. Retrieved from http://www.pchalliance.org/sites/pchalliance/files/Fundamentals_Data_Exchange_20170404_0.pdf.

Principles for Digital Development. (n.d.). Retrieved from <https://digitalprinciples.org/principles/>.

PM Solutions. (2012, August 16). What is the project management maturity model? Retrieved from <http://www.pmsolutions.com/resources/view/what-is-the-project-management-maturity-model/>.

Public Health Informatics Institute. (2016, February 15). Interoperability for public health agencies: A self-assessment tool. Retrieved from <https://www.phii.org/resources/IOP-self-assessment-tool>.

Rathfelder, C., & Groenda, H. (2008). ISOAMM: An independent SOA maturity model. In Meier R., & Terzis S. (Eds), *Distributed Applications and Interoperable Systems, Lecture Notes in Computer Science* (pp. 1–15). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-540-68642-2_1#citeas.

Rezaei, R., Chiew, T. K., & Lee, S. P. (2014). An interoperability model for ultra large scale systems. *Advances in Engineering Software*, 67, 22–46. Retrieved from <http://www.sciencedirect.com/science/article/pii/S096599781300121X?via%3Dihub>.

Riz, G., Santos, E. A. P., & de Freitas Rocha Loures, E. (2017). Interoperability assessment in health systems based on process mining and MCDA methods. In Rocha, Á., Correia, A., Adeli, H., Reis, L., & Costanzo, S. (Eds.), *Recent Advances in Information Systems and Technologies* (Vol. 569, pp. 436–445). Cham, Switzerland: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-319-56535-4_44.

Santos, I., Kahl, T., Daclin, N., & Chen, D. (2006). SME interoperability establishing methodology: A guided roadmap for the journey to interoperability. In Cunningham, P., & Cunningham, M. (Eds.), *Exploiting the Knowledge Economy: Issues, Applications and Case Studies* (Vol. 3, pp. 1227–1234).

Santos, I., Schuster, S., Vergara, M., & Alonso, J. (2016). Assessing the readiness for enterprise collaboration and enterprise interoperability. In *2008 IEEE International Technology Management Conference*, Lisbon, Portugal, June 23–28, 2008. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971422118&partnerID=40&md5=720479f862a452323425a95f5eccfe06>.

Shekelle, P., Morton, S.C., & Keeler, E.B. (2006). Costs and benefits of health information technology. *Evidence Reports/Technology Assessments*, No. 132. Rockville, MD: Agency for Healthcare Research and Quality (US). Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK37988/>.

Shvaiko, P., Villafiorita, A., Zorer, A., Chemane, L., Fumo, T., & Hinkkanen, J. (2009). eGIF4M: e-government interoperability framework for Mozambique. In Wimmer, M.A., Scholl, H.J., Janssen, M., & Traunmüller, R. (Eds.), *Electronic Government, Lecture Notes in Computer Science* (Vol. 5693, pp. 328–340). Berlin, Germany: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-3-642-03516-6_28#citeas.

Solli-Sæther, H. (2010). Analytical framework for e-government interoperability. *eChallenges e-2010 Conference*. Warsaw; Poland, October 27–29, 2010. Retrieved from <https://www.scopus.com/inward/record.uri?eid=2-s2.0-79957441952&partnerID=40&md5=0d17cd94c34440c5521555949d638618>.

Solli-Sæther, H., & Gottschalk, P. (2010). The modeling process for stage models. *Journal of Organizational Computing and Electronic Commerce*, 20(3), 279–293. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/10919392.2010.494535>.

Stansfield, S., Orobaton, N., Lubinski, D., Uggowitz, S., & Mwanyika, H. (2008). The case for a national health information system architecture: A missing link to guiding national development and implementation. Retrieved from http://ehealth-connection.org/files/conf-materials/The%20Case%20for%20a%20National%20Health%20Info%20System_0.pdf.

Steele, K. & Stefánsson, H. O. (2016). Decision theory. In Zalta, E.N. (Ed.), *The Stanford Encyclopedia of Philosophy*. Stanford, CA: Metaphysics Research Lab, Stanford University. Retrieved from <https://plato.stanford.edu/archives/win2016/entries/decision-theory>.

Supply Chainopz. (n.d.). Supply chain maturity model for capability assessment. Retrieved from <http://www.supplychainopz.com/2013/05/supply-chain-maturity-model.html>.

The Institute of Internal Auditors. (2013). *Selecting, using, and creating maturity models: A tool for assurance and consulting engagements*. Altamonte Springs, Fla.: Institute of Internal Auditors. Retrieved from https://www.iiainc.org/media/358857/selecting_using_and_creating_maturity_models_-_a_tool_for_assurance_and_consulting_engagements.pdf.

The Office of the National Coordinator for Health Information Technology. (2017). Proposed interoperability standards measurement framework. Retrieved from <https://www.healthit.gov/sites/default/files/ONCProposedIOStandardsMeasFrameworkREV.pdf>.

United Nations. (2015). Sustainable development goals: 17 goals to transform our world. Retrieved from <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>.

Uslar, M., & Masurkewitz, J. (2015). A survey on application of maturity models for smart grid: Review of the state-of-the-art. In Johannsen, V.K., Jensen, S., Wohlgemuth, V., Preist, C., & Eriksson, E. (Eds.), *Proceedings of Enviroinfo and ICT for Sustainability 2015* (Vol. 22, pp. 261–270). Copenhagen, Denmark. Retrieved from <http://www.atlantis-press.com/proceedings/ict4s-env-15/25836174>.

van Velsen, L., Hermens, H., & D'Hollosy, W. O.-N. (2016). A maturity model for interoperability in eHealth. In *2016 IEEE 18th International Conference on e-Health Networking, Applications and Services (HEALTHCOM)*. Munich, Germany, September 14–17, 2016. Retrieved from <https://edas.info/web/ieeehealthcom2016/index.html>.

World Health Organization (WHO). (2007). *Everybody's business: Strengthening health systems to improve health outcomes*. Geneva, Switzerland: WHO. Retrieved from http://www.who.int/healthsystems/strategy/everybodys_business.pdf.

World Health Organization. (2011). *mHealth: new horizons for health through mobile technologies*. Geneva: WHO. Retrieved from: http://www.who.int/goe/publications/goe_mhealth_web.pdf.

Zelmer, J., Ronchi, E., Hypponen, H., Lupiáñez-Villanueva, F., Codagnone, C., Nøhr, C.,... Adler-Milstein, J. (2016). International health IT benchmarking: learning from cross-country comparisons. *Journal of the American Medical Informatics Association*, 24 (2), 371-379. Retrieved from <https://academic.oup.com/jamia/article-lookup/doi/10.1093/jamia/ocw111>.

Zephir, O., & Minel, S. (2007). Reaching readiness in technological change through the application of capability maturity models principals. In Loureiro, G., & Curran, R. (Eds.), *Complex Systems Concurrent Engineering* (pp. 57–64). London, United Kingdom: Springer. Retrieved from https://link.springer.com/chapter/10.1007%2F978-1-84628-976-7_7#citeas.