

Curriculum Vitae Ype Wijnia



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Profiel

Ype has more than 20 years of experience in asset risk management for (semi) public infrastructures. From 1999 to 2007, he had a leading role in implementing asset management at Enexis (formerly Essent Netwerk B.V.), the second company in the world which certified their asset management processes according to the PAS 55 standard. Since 2008 Ype is an independent asset management consultant whose primary focus is risk- and investment management. Ype conducted some breakthrough studies in the field of asset management, like the development of the safety indicator for gas distribution grids, long term replacement planning for diverse infrastructures (energy, water, sewage, roads) a quantitative analysis of risk in the IT system. Besides his work as consultant (since 2007) Ype is also an active scientist. In 2016 he finalized his PhD thesis at the Faculty of Technology, Policy and Management at the Delft University of Technology on the design and organization of risk based decision making processes for capital intensive industries. In this research project he published more than 50 scientific papers. He is also reviewer for a number of conferences and journals. Additionally, he is secretary of the board of the International Society of Engineering Asset Management. Since 2015 Ype teaches on asset management for offshore wind farms at the faculty of Aerospace Engineering of the Delft University of Technology. The breadth and depth of his competences make Ype an indisposible expert in multidisciplinary projects in asset management.

Projects/studies

- Essent Netwerk (now Enexis): Process development Essent Netwerk
- Essent Netwerk (now Enexis): Development Safety Indicator Gas distribution
- Essent Netwerk(now Enexis): Long term optimization of asset replacement
- Essent Netwerk(now Enexis): Implementation van portfoliodescisions
- Essent Netwerk(now Enexis): Analysis Business Continuity risk in IT
- Enexis: Capacity in the low voltage Grid for Electric Vehicles
- Infrac: Development asset management process
- Infrac: Development risk management process
- Infrac: Replacement investments for the distribution grids
- Infrac: Business Case on smart meters
- Energiekamer: Methods for pipe and line related costs
- Zebra: Risk analyses High pressure gas pipelines gasleidingen
- Waste water industry in the Netherlands: development of asset management guideline
- City of Rotterdam: implementation of asset management for public works
- Vitens (drinking water): Long term maintenance optimization
- Waterschap Brabantse Delta: Long term asset planning
- Municipality of Sudwest Fryslân: Long term planning entire asset base
- Vitens: long term maintenance costs
- Waterschap Brabantse Delta: long term planning replacements

Peculiarities

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| 2020 | - Opponent PhD candidate Ole-Erik Vestol Enderud, University of Stavanger, Norway |
| 2019 | - Examiner of PhD candidate Jyri Hanski at Lappeenranta University of Technology, Finland |
| 2018 | - Secretary of the International Society of Engineering Asset Management |
| 2015 | - Director of the International Society for Engineering Asset Management |
| 2014 | - Best paper award at 9th World Conference for Engineering Asset Management for The asset management process reference model for infrastructures |
| 2014 | - Fellow of the International Society of Engineering Asset Management |
| 2011 | - Member of the industrial program committee for the conference Complex System Design & Management, December 2011 in Paris |
| 2010&2012 | - Dutch coordinator of the Master Thesis Award of the "European Federation of National Maintenance Societies" |
| 2009 | - Scheme "Risk management cyclus" (figuur a.2) opgenomen in NTA 8120 |
| 2007/2008 | - Lid review panel for Pas55:2008 |
| 2007 | - Best Paper Award for "Evaluation of the Pugh Controlled Convergence Method" |
| 2007 | - Co-establisher of the Asset Management Platform, Nederland |
| 2006 | - Finalist of the Asset Management Innovation Award, Institute of Asset Management, United Kingdom |
| 2005/2006 | - Reviewer for the Competency Model of the Institute of Asset Management |
| 2001 | - Finalist of the Utilities Young management Award, Accenture, Nederland |

Sectors

- Energy production and energy distribution
- Sewage
- Cable television
- IT infrastructure
- Public spaces

Education

- 2016: PhD Processing Risk in Asset Management, Delft University of Technology
- 1998: Master of Science in System Engineering and Policy Analysis, Delft University of Technology, Faculty of Technology, Policy and Management

Talen

- Dutch
- English
- German

Seminar contributions

- Long term planning for an ageing asset (in cooperation with Vitens, Amsterdam, 2017, TBM)
- Keynote op 10e World Conference for Engineering Asset Management in 2015
- Presentatie Leidraad Asset Management, Rioned dag 2012
- Asset Management in de energiesector, gastcollege op Hogeschool van Amsterdam 2011
- “Het strategisch belang van denken in risico’s”, Conferentie Asset Life Cycle Management (IIR), 7 en 8 June 2011, WTC in Rotterdam
- “The Risk management Adventure”, T&D Europe, 29-31 March 2010, Amsterdam
- “Risk driven investment decisions”, 4th Annual Utilities Asset Management Forum (Marcus Evans), 11-12 February 2010, Amsterdam,
- “Infrastructure replacement: an asset management perspective”, Workshop Regulation, Investments and Quality of Energy Networks (Energiekamer), 2009
- “Risicomanagement voor ondergrondse infrastructures”, Conference for Underground Infrastructures (IIR), 24 september 2008, Spijkenisse
- “Business Continuity in de energievoorziening”, BCM Heliview, 23 mei 2007, utrecht
- “De inrichting van het Risk Based Asset Management Process”, ASM conference Heliview, 15 november 2006, Hoevelaken
- “Asset Management for dummies”, Infrastructure Asset Management Exchange, 21-22 september 2005, Londen
- “Challenges of building a risk based asset management organization”, Infrastructure asset management Exchange, 28-29 September 2004
- Risk management driven Asset Management. In cooperation with John de Croon. Congres Industrial Business Conference of ‘Federatie Het Instrument’ (FHI), 2003, Rotterdam

Publications

- Frey, D., Herder, P., Wijnia, Y., Subrahmanian, E., Katsikopoulos, K. & Clausing, D. 2009. The Pugh Controlled Convergence method: model-based evaluation and implications for design theory. *Research in Engineering Design*, 20, 41-58.
- Frey, D., Herder, P., Wijnia, Y., Subrahmanian, E., Katsikopoulos, K., Neufville, R., Oye, K. & Clausing, D. 2010. Research in engineering design: the role of mathematical theory and empirical evidence. *Research in Engineering Design*, 21, 145-151.
- Frey, D. D., Herder, P. M., Wijnia, Y. C., Subramanian, E., Katsipopoulos, K. & Clausing, D. P. 2007. An evaluation of the Pugh Controlled Convergence Method. *ASME Design Engineering Technical Conference*. Las Vegas.
- Herder, P. M. & Wijnia, Y. 2012. A Systems View on Infrastructure Asset Management. In: Van Der Lei, T., Herder, P. & Wijnia, Y. (eds.) *Asset Management*. Springer Netherlands.
- Knops, H. P. A., Ajodha, V. S. & Wijnia, Y. C. 2006. Quality Regulation of Electricity Distribution Companies: Is Everything under Control? In: Roggenkamp, M. & Hammer, U. (eds.) *European Energy Law Report III*. Antwerpem: Intersentia.
- Masera, M., Wijnia, Y. C., de Vries, L. J., Kuenzi, C., Sajeve, M. & Weijnen, M. P. C. 2006. Governing Risks in the European Critical Electricity Infrastructure. In: Gheorghe, A. V., Masera, M., De Vries, L. J. & Weijnen, M. P. C. (eds.) *Critical Infrastructures at Risk, Securing the European Electric Power System*. Dordrecht: Springer.
- van Akkeren, R. & Wijnia, Y. C. 2005. AsM-PR-veiligheidsindicator Gas (AN)-c-1.6.doc (dutch). Essent Netwerk B.V.
- Van der Lei, T., Wijnia, Y. C. & Herder, P. M. 2010. TOWARDS AN INTEGRAL ASSET MANAGEMENT FRAMEWORK USING ASSET CHARACTERISTICS, ASSET ENVIRONMENT AND LIFECYCLE PHASES AS LEADING PRINCIPLES. *the 5th World conference on engineering asset management* Brisbane, Australia: Springer.
- Wijnia, Y. 2012. Asset Risk Management: Issues in the Design and Use of the Risk Matrix. In: Mathew, J., Ma, L., Tan, A., Weijnen, M. & Lee, J. (eds.) *Engineering Asset Management and Infrastructure Sustainability*. Springer London.
- Wijnia, Y. 2015. Dealing with Uncertainty in the Asset Replacement Decision. In: Tse, P. W., Mathew, J., Wong, K., Lam, R. & Ko, C. N. (eds.) *Engineering Asset Management - Systems, Professional Practices and Certification*. Springer International Publishing.
- Wijnia, Y. Towards Quantification of Asset Management Optimality. In: Koskinen, K. T., Kortelainen, H., Aaltonen, J., Uusitalo, T., Komonen, K., Mathew, J. & Laitinen, J., eds. Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015), 2016// 2016 Cham. Springer International Publishing, 663-670.
- Wijnia, Y. 2018. Integrating Maintenance into Long Term Planning. In: Lyanage, J. P. (ed.) *13th World Congress on Engineering Asset Management*. Stavanger, Norway.
- Wijnia, Y. 2019. ESTABLISHING THE VALUE SYSTEM THROUGH LONG TERM PLANNING. *2nd World Congress on Resilience, Reliability and Asset Management (WRRAM)*. . Singapore.
- Wijnia, Y. & Croon, J. d. 2017. Strategic Asset Planning: Balancing Cost, Performance and Risk in an Ageing Asset Base. *The 12th World Congress on Engineering Asset Management (WCEAM 2017)*. Brisbane, Australia: Springer.
- Wijnia, Y. & de Croon, J. 2012. Designing an asset management guideline for the Dutch wastewater industry. In: Lee, W. B. & Mathew, J. (eds.) *7th World Congress on Engineering Asset Management*. Daejeon, Korea: Springer London.

Publications

- Wijnia, Y. & de Croon, J. 2015. The asset management process reference model for infrastructures
In: Amadi-Echend, J. E. & Mathew, J. (eds.) 9th World conference on engineering asset management. Pretoria, South africa: Springer.
- Wijnia, Y. & de Croon, J. 2015. The Asset Management Process Reference Model for Infrastructures. *In: Amadi-Echendu, J., Hoohlo, C. & Mathew, J. (eds.) 9th WCEAM Research Papers: Volume 1 Proceedings of 2014 World Congress on Engineering Asset Management.* Cham: Springer International Publishing.
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- Wijnia, Y. & de Croon, J. Strategic Asset Planning: Balancing Cost, Performance and Risk in an Ageing Asset Base. *In: Mathew, J., Lim, C. W., Ma, L., Sands, D., Cholette, M. E. & Borghesani, P., eds. Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies, 2019// 2019 Cham.* Springer International Publishing, 695-704.
- Wijnia, Y., de Croon, J. & Liyanage, J. P. 2014. Application of a Unified Reference Model Across Asset Types: Comparative Cases. *In: Lee, J., Ni, J., Sarangapani, J. & Mathew, J. (eds.) Engineering Asset Management 2011.* Springer London.
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- Wijnia, Y. C. 2004. The Challenges of a risk based asset management organisation. *Strategic asset management*, 832-837.
- Wijnia, Y. C. 2004. The challenges of building a risk based Asset Management organisation. *IAM Exchange.* London.
- Wijnia, Y. C. 2005. Asset management for dummies: Skills Development, Education and Motivation in a changing AM environment. *IAM Excgange.*
- Wijnia, Y. C. 2005. Risky business. *Assets.*
- Wijnia, Y. C. 2007. The Human factor in Asset Management Process development. *2nd World Conference on Engineering Asset Management (WCEAM 2007).* Harrogate, United Kingdom.
- Wijnia, Y. C. 2009. Asset Management for Infrastructures in Fast Developing Countries. *Infrastructure systems 2009: Developing 21st century Infrastructure Networks.* Chennai.
- Wijnia, Y. C. 2010. Asset Risk Management: Issues in the design and use of the risk matrix. *the 5th World conference on engineering asset management* Brisbane, Australia.
- Wijnia, Y. C. 2010. Historie Risicomatrix. Rosmalen: Enexis.
- Wijnia, Y. C. 2013. Dealing with uncertainty in the asset replacement decision. *In: Mathew, J. & Tse, P. (eds.) 8th World conference on engineering asset management.* Hong Kong: Springer.
- Wijnia, Y. C. 2013. Grid planning for renewable energy in urban deltas. *In: Brown, K. (ed.) International Conference on Strategic Infrastructure Asset Management for Deltas 2013.* Sydney, Australia.

Publications

- Wijnia, Y. C. 2014. Tactical Risk Management *CESUN, 4th International Engineering Systems Symposium*. Hoboken, New Jersey.
- Wijnia, Y. C. 2015. Towards quantification of optimality in asset management (to be published). *WCEAM2015*. Tampere, Finland.
- Wijnia, Y. C. 2016. *Processing Risk In Asset Management: Exploring The Boundaries Of Risk Based Optimization Under Uncertainty For An Energy Infrastructure Asset Manager*. PhD, Delft University of Technology.
- Wijnia, Y. C. 2018. Asset Management for the Energy Transition. *World Conference of Engineering Asset Management*. Stavanger, Norway.
- Wijnia, Y. C., Croon, J. d. & Meerman, W. t. 2003. Ketenomkering bij Essent Netwerk Noord. *Energie&Techniek*.
- Wijnia, Y. C., de Croon, J. A. W. & Liyanage, J. P. 2011. APPLICATION OF A UNIFIED REFERENCE MODEL ACROSS ASSET TYPES: COMPARATIVE CASES. *the 6th World conference on engineering asset management Cincinnati*.
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- Wijnia, Y. C. & Herder, P. M. 2004. Modeling Interdependencies in electricity infrastructure risk. *1st Annual CZAEE International Conference "Critical Infrastructure in the energy sector: Vulnerabilities and protection"*. Prague.