JAN VAN BENNEKOM-MINNEMA



PROFILE

- Master of Science 'Geographical Information Management and Applications'.
- LIS/GIS implementation and modernisation.
- Geospatial software, databases and systems integration.
- Spatial analytics and data infrastructures.
- Over 30 years professional (international) experience.
- Languages; English & Dutch: excellent, German & Spanish: fair, French: basic.

Senior Geo-ICT and Land Administration Specialist with more than 30 years' experience spanning land registration and cadastre, Land Information Systems (LIS), Geographic Information Systems (GIS), urban and spatial planning, Spatial Data Infrastructures (SDI), geospatial software and databases, systems integration, and spatial data science.

Jan van Bennekom-Minnema is a senior Geo-ICT and Land Administration Specialist with extensive international experience in the design, development, implementation and modernisation of geospatial and land information systems. He holds an MSc in Geographical Information Management and Applications (awarded cum laude) and is fluent in English.

Jan has supported national and sub-national institutions across Africa, Europe, Latin America and the Caribbean, the Middle East, and Asia in the design, development and integration of fit-for-purpose, mission-critical geospatial information systems and databases.

His expertise spans a broad range of thematic and technical domains, including sporadic and systematic land registration and cadastral mapping, land valuation, digital field-based capture of land tenure data, spatial data infrastructures (SDI), land use and spatial planning (at national, regional and urban scale), and public asset management.

COMPETENCES & SKILLS

- Bridging business, institutional and ICT perspectives.
- Effective across multicultural, multidisciplinary teams.
- Operating effectively in fragile and resource-constrained institutions.
- Structured and methodical, with strong attention to detail.
- Translating technical findings for non-technical stakeholders.
- Comfortable both leading and advising.

He works effectively with multidisciplinary teams, clients and stakeholders across diverse cultural and institutional environments. He combines a structured and methodical approach with strong attention to detail, delivery requirements, budgets and deadlines, and communicates technical issues clearly to both technical and non-technical audiences.

Throughout his career, Jan has held senior technical and leadership roles across the full lifecycle of project and system delivery, acting as technical lead, GIS coordinator, software development lead, geospatial systems architect, and quality auditor (QA/QC).

He has led activities related to business process redesign (BPR), software design and development, systems integration, spatial data science and analytics, data conversion and migration, and user training and capacity building.

He has co-authored several publications about his work and projects.

COMPUTER SKILLS

- MS Office.
- Information system design.
- Programming.
- GIS, geo-databases.
- Geo-data analysis.
- Spatial data infrastructures.
- AI agents and agentic workflow.

Jan has extensive experience with Microsoft 365 and a wide range of geospatial tools, methods and programming languages, complemented by recent work in AI-assisted software development and AI-enabled workflows and agents:

QGIS, ArcGIS (Pro, Online, Enterprise), Docker microservices, LADM, Geonode, Geoserver, Mapstore, Python, Jupyter Notebooks, (Geo)Django (model-driven software generation), PyCharm IDE, MS Visual Studio, C#, ASP.NET MVC, Entity Framework, VBA, UML, BPMN, PostgreSQL, PostGIS, PL/pgSQL, MS SQL Server, MS Access, ODK Collect & Central, Enterprise Architect (Sparx), AI-assisted software development, AI agents and agentic workflow development.

EDUCATION

- MSc 'Geographical Information Management and Applications'.
- BSc 'Electrical Engineering - Process Automation.'

- 2022 **Post-graduate** Urban Management Tools for Climate Change & Green Cities for Eco-efficiency, *Institute for Housing and Urban Development Studies (IHS), Erasmus University Rotterdam*.
- 2015 **Masterclass** 'IT Architecture', *NCOI University*.
- 2008 **MSc** 'Geographical Information Management and Applications', awarded with distinction 'cum laude', *University of Delft, Utrecht, Twente (ITC), and Wageningen*.
- 1990 **Post-graduate** 'Business Administration, University Nijenrode CT'.
- 1989 **Bachelor of Science** 'Electrical Engineering' (Process Automation).

Plus numerous professional training courses throughout his career.

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JAN VAN BENNEKOM-MINNEMA

EMPLOYMENT RECORD

2024 – present: **Independent Consultant**

2023 – 2024: **Van Doorn (Netherlands)**

- GIS Coordinator.
- Information Manager.

2004 – 2023: **COWI A/S (Denmark)**

- Specialist in IT/IS/GIS Architecture, Software and Database Development in the context of Land Administration, Spatial Planning.

2002 – 2004: **CSC (Netherlands)**

- Web application development.
- Software configuration and release management.

1998 – 2002: **DHV (Netherlands)**

- IS/IT specialist in land registration and cadastre projects.

1995 – 1998: **Oracle (Netherlands)**

- Information system development with Oracle databases & software.

Since 1990, Jan has worked in a variety of roles and responsibilities:

- Coordination of GIS activities in multiple projects based on ArcGIS Online environment with over 200 users.
- Development & maintenance of geo-data infrastructures based on ArcGIS Online as well as open-source software (for example: PostgreSQL, Geoserver, and Geonode).
- Development of GIS tools, software and databases.
- Professionalisation of GIS environments and activities to improve the efficiency and effectiveness of internal GIS processes and develop new applications and services for clients (digital transformation).
- Member of GIS Technical Community for all COWI GIS users.
- Integration of separate business-critical systems such as: Customer Relationship Management (CRM), Enterprise Resource Planning (ERP), Document Management System (DMS), Geographic Information System (GIS), Asset Management System (AMS).
- Field (spatial) data collection with apps on mobile devices (mobile phones, tablets) synchronised with central data servers.
- Management of the production of legal and spatial land administration data and documents, including parcel and rights-holder information and lease certificates.
- Analysis, migration, conversion, and (online) visualisation of vector/raster/2D/3D geographical information.
- Quality assurance and control of project deliverables.
- Audits of software development processes.
- Contribution to submissions regarding requests and invitations to tender.
- (Co-)authoring publications and papers on projects and experiments.

PROJECTS

Jan has worked on many international projects and roles:

Digital Transformation, Business Process and IT Systems Consultant (West Bank)	Second Real Estate Registration Project (RERP II)	10/2026-ongoing
GIS and ICT Specialist (The Gambia)	Gambia Inclusive and Resilient Agricultural Value Chain (GIRAV)	4 - 6/2026
Land Information System (LIS) Expert (Timor-Leste)	Technical Support to Land Sector Modernization in Timor-Leste	2 - 6/2026
ICT Expert (Romania)	Support to Romania's Land Sector Modernization for Disaster and Climate Resilience	9/2025 - 6/2026
Geospatial Mapping Specialist (Guyana)	Mainstreaming Sustainable Land Development and Management (SLDM)	10 - 12/2025
ICT Consultant (Ethiopia)	Responsible and Innovative Land Administration (REILA III)	10/2024 - 9/2025
Resource Expert on Digital and Integrated Land Administration Systems (Japan)	Technical Deep Dive Event on Urban Planning and Land for Growth	10/2025
GIS/ICT Expert (Nepal)	Digitalization of Nepal's Land Administration Sector	1 - 10/2025
Land Admin IT Specialist (Lesotho)	MDIH Land and Gender Activity	6/2024 - 5/2025
IT Expert (Ethiopia)	Property Tax System Review	1 - 5/2025
Information Manager / GIS Coordinator (The Netherlands)	Support Public Asset Management	3/2023 - 5/2024
Mapping, GIS and 3D modelling Expert (Ghana)	Greater Accra Metropolitan Area (GAMA) Structure Plan	11/2021 - 2/2023
GIS Expert (Serbia)	Analytical Advice to Support Green, Livable and Resilient City Development in Serbia	10/2021 - 2/2023

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Advisor Project Management & Software Development QA and QC Auditor (Albania)	Software Development Process Improvement	5 - 6/2021 & 1/2023
Researcher (The Netherlands)	Research on the Implementation of the Land Administration Domain Model	12/2020 - 5/2021
GIS Expert (Lesotho)	Development of Maseru City Masterplan	9/2019 - 1/2021
IT Expert (Saudi Arabia)	Saudi Arabia Property Registration Project	9/2019 - 1/2020
Senior IT Expert (Eswatini (Swaziland))	Sustainable Land Administration and Management Project (SLAM)	7/2017 - 8/2019
GIS/IT Specialist (resident in Botswana) (Botswana)	Botswana National Spatial Plan (NSP)	1/2016 - 12/2018
Cadastre and Property Registration IT Consultant (Italy)	Review Solutions for Open Land Administration (SOLA) software	9 - 12/2018
GIS/IT Specialist (Malawi)	Shire Valley Irrigation Project (SVIP)	9/2015 - 4/2016
LIS Software Quality Assurance and ICT Training Expert (Rwanda)	Land Tenure Regularisation (LTR) programme	3 - 7/2015
Information System Design & Development Expert (Denmark)	Electrification Programme	2/2014 - 12/2015
LIS Data Migration Expert (Rwanda)	Land Tenure Regularisation (LTR) programme	10 - 12/2014
Technical Quality Auditor of IT System Integration Project (Albania)	Land Administration and Management Project	9/2014
IT/GIS Solution Architecture Expert (Tanzania)	Services to study, analyse and design an Integrated Land Management Information System and enhancing accessibility of land records	8/2014
Senior IS Development/GIS Expert (Ghana)	Formulation of the National Spatial Development Framework	12/2013 - 10/2014
Mapping / GIS Specialist and Production Manager (resident in Lesotho) (Lesotho)	Systematic Land Regularization in Lesotho	4/2012 - 11/2013
Senior Advisor Project Management & IT QA and QC Auditor (Albania)	Land Administration and Management Project (LAMP)	2/2010 - 4/2012
SOLA Project Auditor (Italy)	Review Solutions for Open Land Administration (SOLA) project	11/2011 - 2/2012
Team Leader / IT Solution Architect (Mozambique)	Consultancy Services to improve the operations of the Property Registries in Mozambique.	10/2009 - 9/2011
Advisor Project Management & QA/QC Expert (Croatia)	The Real Property Registration and Cadastre Joint Information System (JIS) Establishment Project	7/2008 - 6/2010
STDM Prototype Design Expert (The Netherlands)	Prototype of the Social Tenure Domain Model (STDM)	7 - 10/2008
Team Leader, LIS Software and Database Developer (Ghana)	Land Administration Programme (LAP): Stage One of the Development of a LIS	1 - 10/2008
MSc Student (The Netherlands)	MSc thesis on Land Administration Domain Model	5/2008
Lead Information System Design Expert (Trinidad & Tobago)	Enhance the Cadastral Management Information System	5/2007 - 5/2008
Lead Geographical Information System Development Expert (Romania)	Services for data conversion to support implementation of the Cadastre and Real Property Rights Registration System in Romania	2/2007 - 1/2008
IT Expert Cadastre and Land Registration (Uzbekistan)	Land Registration – Phase III	6 - 11/2006
Advisor IT Service Department (Romania)	Define an implementation plan for the NACLR's IT Service Department	6/2006
Project Manager for IT Strategy & Architecture (Croatia)	ICT Strategy for the Real Property Registration and Cadastre Joint Information System and Land database of Croatia	4/2005 - 6/2006

Cadastre & Land Registration System Test Manager (Romania)	IT System under Cadastre and Land Registration Project	8/2005 - 5/2006
Lead Geospatial Database Specialist (Trinidad & Tobago)	Consultancy Services for the Creation, Maintenance and Updating of Parcel Index Maps	3/2004 - 6/2005
Configuration & Release Manager (The Netherlands)	Application Configuration Management for Oracle applications	9/2002 - 12/2003
Cadastre IT Project Management Auditor (Slovakia)	Project Audit	10/2002
Team Leader, Cadastre Database Designer (Poland)	Establishing a model for a cadastral database in Poland	10/2000 & 8/2002
Team Leader, Application and Database Developer (Guatemala)	Metropolis 2010	8/2000 - 7/2001
Application Development Manager (Lebanon)	Cadastre Operations Modernisation and Automation Project (COMAP)	12/1998 - 3/2001
Team Leader, Information System Designer (Poland)	Streamlining the Polish Cadastre	10/2000
Coach Information System Development (Bolivia)	Develop the 'Sistema Automatizado Catastral'	8/1999 - 5/2000
Coach Information System Development (El Salvador)	Consultant and trainer for cadastre and automation	2 - 6/1997

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