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| NAME | Nienke Eernisse |
| SOLE TRADER NAME | Nienke Eernisse Consulting |
| SPECIALISM | Geographical Information Systems (GIS) and Earth Observation, applied to integrated land use, water resources and coastal zone management. |
| NATIONALITY | Dutch |
| EMAIL | n.eernisse@gmail.com |
| WEBSITE | theNRgroup.net |
| LINKEDIN NAME | nienkeernisse |

BRIEF BIOGRAPHY

I am a highly experienced GIS and earth observation professional based in the UK. I manage or collaborate on projects where evidence-driven spatial research and analysis solve problems and support sound decision making. Through my experience across a broad range of themes and locations, I offer both a highly technical as well as creative and collaborative approach in working to meet client's expectations. As such I particularly enjoy working in multi-disciplinary teams. Although being an independent consultant often means working remotely, digital communications and web mapping tools make collaborating at distance an effective reality.

ASSIGNMENTS SOUGHT

Short to medium term overseas (up to 8 weeks) and longer term inputs based in the UK

EMPLOYMENT RECORD

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| 2013 to Present | GIS consultant (freelance), Member of theNRgroup (UK) |
| 2010 - 2013 | GIS Officer, ARCH Project, Kent County Council (UK) |
| 2000 - 2010 | Senior GIS Specialist, Halcrow Group Ltd. (UK, Brazil and USA) |
| 1998 - 2000 | Technical support officer: GIS and remote sensing, Natural Environment Research Council (UK) |
| 1997 - 1998 | MSc in Land Resource Management, Cranfield University (UK) |
| 04-10/1997 | Recruitment administrator, Randstad Recruitment (The Netherlands) |
| 1994 - 1997 | Water Resources Manager, Ministry of Agriculture, Government of St. Lucia Voluntary Service Overseas (VSO) |
| 1994 | Financial Administrator, Korps Landelijke Politiediensten (The Netherlands) |
| 1993 | Research Officer, Tropenbos International (Guyana) |

QUALIFICATIONS

MSc Land Resource Management: GIS specialisation, Cranfield University, UK: 1998
MSc Physical Geography, Vrije Universiteit Amsterdam, The Netherlands: 1991

KEY SKILLS

TECHNOLOGY:

- **GIS and remote sensing software:** on PC and UNIX platforms, including ESRI (ArcInfo, ArcIMS – now ArcGIS Enterprise, ArcGIS and extensions), QGIS, IDRISI, ERDAS Imagine
- **Data management:** RDBMS database design and integration with GIS (MS Access), Metadata development (EU expert on INSPIRE), QA/QC protocols and data review, spatial and survey database design, Wordpress development, knowledge of PostgreSQL and PostGIS,
- **Earth observation:** aerial photo interpretation, mapping and analysis of high and low resolution multispectral satellite imagery
- **Survey:** data capture and field survey methods development and training
- **Mapping and visualisation:** map and atlas production for paper, digital and online applications

PROJECTS AND PEOPLE:

- **Management and planning** of projects and work packages
- **Business development:** writing proposals, writing specifications for subcontracted project tasks, expert evaluator of funding applications to the European Commission
- **Line management** and mentoring of technical and survey staff
- **Training:** preparing and delivering training courses for new and experienced users of GIS software and field survey
- **Presenting** project results to specialised audiences as well as the wider public
- **Multi-disciplinary:** collaborating and bridging between technical and management approaches

THEMES:

- Employing GIS and earth observation techniques to manage, monitor and analyse a wide range of issues:
 - **Environment and biodiversity:** integrated coastal zone management, watershed management, climate change adaptation and mitigation, conservation and restoration, habitat mapping and analysis.
 - **Managing land and water resources** for sustainable development: land use and land cover mapping, habitat mapping and classification, flood risk assessment, asset mapping and management, impact assessment.
- Decision support:
 - **Knowledge and data management** for land resource and environmental policy makers
 - **Developing creative solutions** by joining technical and lateral thinking to problems with a spatial component
 - **Research and analysis** to develop a strong evidence base for policy and decision making

RELEVANT PROJECTS AND PROFESSIONAL ACHIEVEMENTS

2013-Present Habitat analysis and reclassification into Integrated Habitat System using PostGIS and QGIS to support decision making in Greater London. (GiGL, UK)

GIS consultant
(freelance) Assessment of habitat connectivity to prioritise restoration and conservation of protected chalk grassland habitat in Kent. (Old Chalk New Downs project, UK)

As short-term expert, I organised and delivered a 4-day data and information management training workshop, with specific emphasis on QA/QC protocols, to a large group of government and NGO staff. In association with the National Resource Person, I developed a Memorandum of Agreement for data sharing among government organisations. (EU-funded GCCA, The Gambia)

Expert evaluator on the Horizon 2020 Programme since 2017: in collaboration with other experts I assess funding applications (up to €1million per project) for earth and environmental science projects within the EU and Widening countries. (European commission, Belgium)

"Locating unmanaged woodland: A new GIS tool for Kent". Developed a GIS and data management tool for woodlands in Kent, including a full inventory of current woodland management based on analysis and integration of a variety of existing data sources. (Adafor project, UK)

Habitat change analysis using GIS, comparing habitat surveys to assess losses in protected and sensitive areas, as well as determining the major threats to priority habitats so restoration efforts can be prioritised. Project in collaboration with Kent Wildlife Trust and Natural England.

2010-13 Developed and managed the GIS for the ARCH project, Assessing Regional Changes in Habitats, an EU-funded collaboration between Kent County Council and the Nord-Pas de Calais region in France. I also created data collection tools, QA/QC protocols and data specifications for the habitat field survey, prepared field recording equipment and trained field surveyors and technicians in their use. My other main focus was information and data management, data analysis and communicating results with project partners and the wider public. Results were presented in person at conferences and in digital format to assist planning and policy makers.

GIS Officer,
ARCH Project,
Kent County
Council

British Cartographic Society 2012 Avenza Award for Electronic Mapping: Kent Habitat Maps.

Kent County Council team commendation for exceptional innovation and commitment.

2000-10
Senior GIS specialist,
Halcrow Group Ltd.

I collaborated on a wide range of projects in the UK and internationally, providing spatial analysis and database design, sourcing data, and managing data for transport, water, coastal and environmental engineering projects. These projects were close collaborations with engineers or scientists who brought specific knowledge about the subject, which I translated into a geo-spatial solution: sourcing data, supervising technicians, developing a methodology, QA/QC protocols, analysis and data management, and presenting results. Some projects were very small systems to determine a specific answer (e.g. assessing access to bus routes for deprived communities), others were complex projects where we worked with a team of GIS specialists and technicians on analysing and processing large data sets (e.g. national flood risk assessments in the UK, assessment of the state of the coast of England and Wales).

While in the USA, my work became focused on business development: coordinating and writing proposals and project specifications, collaborating with colleagues and subconsultants to prepare high quality tenders. As a result of these activities we successfully increased our workload to the extent that further engineers and a GIS technician were recruited.

1998-2000
Technical support: GIS and remote sensing, NERC

I provided technical support to scientists of the Natural Environment Research Council (NERC) on application and implementation of GIS and Remote Sensing. I supported land and water resources projects using GIS technology and aerial photo interpretation. Through organising seminars and demonstrations, I promoted the use of GIS technology for land and water management within NERC

1994-97
Water Resources Manager,
Ministry of Agriculture,
Government of St. Lucia

While in charge of the Hydro-meteorological Unit at the Ministry of Agriculture, I established a well documented island-wide network of new and improved rainfall stations and an automatic weather station. Subsequently I trained and supervised technicians in data collection and analysis and applying the results in practical situations within the water and agricultural sector, especially the Agricultural Extension service. Through establishing a monthly bulletin we provided reliable hydro-meteorological data and analysis in a practical format for effective planning and decision making.

OVERSEAS ASSIGNMENTS

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| 2014 | The Gambia | Short term expert: GIS and Data Management specialist with GCCA project |
| 2001-2010 | USA | Senior GIS specialist with Halcrow Inc. |
| 2002-2003 | Brazil | GIS Consultant with Halcrow do Brasil Ltda. |
| 2002 | Georgia | GIS Consultant for integrated coastal zone management plan of the Black Sea coast with Halcrow Group Ltd |
| 1994-1997 | St Lucia | Water resources manager with Ministry of Agriculture, Forestry and Fisheries |
| 1991 and 1993 | Guyana | Research Assistant Tropical soils research with Tropenbos International and University of Utrecht |
| 1989 and 1992 | Indonesia | Research Assistant Physical Geography with Free University of Amsterdam |

OTHER ACHIEVEMENTS

Change analysis of UK BAP priority habitats 2003 – 2012. Kent Habitat Survey 2012. Nienke Eernisse, October 2013

Land cover change analysis 1961 – 2008. Kent Habitat Survey 2012. Kent County Council, March 2013

Environmental Management Authority Guidebook for Hydrodynamic Considerations in Coastal and Marine CEC Applications, 2011.

Geographic information system tools helped a Georgia utility make the most of its existing data. Water Environment and Technology, December 2008 (www.wef.org/magazine)

Garden team volunteer at English Heritage Walmer Castle & Gardens since 2015

Textile artist with [EernisseArtscape](#)