



Nick  
Graham

## PERSONAL DETAILS

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Date of Birth: 12 October 1979  
Languages: English (Excellent), Afrikaans (Fair)  
Prof. membership: Engineering Council of South Africa  
PrEng No. 20080242  
South African Institute of Civil  
Engineers No. 205318  
Institute of Municipal Engineers  
of South Africa No. G3945  
Years' Experience: 15 years  
Countries worked in: South Africa, Mozambique,  
Ethiopia

## CONTACT INFO

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Office: +27 21 671 1402  
Mobile: +27 83 262 1028  
Email: nick@pdg.co.za

## ACADEMIC BACKGROUND

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- MLitt Human Geography, University of Oxford, UK, 2005
- MSc. in Nature, Society and Environmental Policy, University of Oxford, UK, 2004
- MSc.Eng in Urban Engineering, University of Cape Town, South Africa, 2004
- BSc.Eng in Civil Engineering, University of Cape Town, South Africa, 2001

## FIELD OF SPECIALISATION

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Urban systems modelling for city efficiency and fiscal impact, infrastructure investment planning and analysis, development charges, municipal services and policy, municipal financial modelling, research and policy development in the housing, water, sanitation, solid waste, transport, and energy sectors.

## WORK EXPERIENCE

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### Nov 11 – present

PDG, Cape Town, South Africa  
Director and Municipal Services Practice Area leader

### Sept 15 – Aug 19

PDG, Cape Town, South Africa  
Managing Director

**Sep 09 – Nov 11**

PDG, Cape Town, South Africa  
Consultant

**Jun 08 - Dec 08**

Ninham Shand, Maputo, Mozambique  
Resident Engineer

**Mar 05 - May 08**

Ninham Shand, East London, South Africa.  
Candidate Engineer

## KEY PROJECTS

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**2020 ongoing. Future Cities Programme: eThekweni Transit Oriented Development.** Led the workstream on governance and institutional change required to implement Transit-Oriented Development in Durban.

**2020 Future Cities Programme: Cape Town COVID-19 response in informal settlements, UK FCDO:** Led a multi-disciplinary team to scale up a community-based data collection app to integrate fault reporting on water service in informal settlements with municipal systems.

**2018-2020 Financial Models and Mechanisms Towards Economic Water Resilience in the Western Cape. Western Cape Department of Economic Development and Tourism:** Led a team to develop a bespoke climate change, water resources and municipal finance model to investigate the implications of businesses investing in off-grid water supplies in 16 Western Cape municipalities.

**2019/20 Development Charges Policy, City of Johannesburg:** Provided specialist input into development charges calculation methodology and policy drafting.

**2019 Barriers to industrial water reuse PPPs in South Africa, European Union Delegation to South Africa:** Drafted a paper describing the municipal water PPP environment and challenges and opportunities for European firms.

**2018/19 Diagnostic Assessment of Nine Intermediate City Municipalities (ICMs), World Bank:** Led a team of specialist consultants to assess the economic, spatial, technical and financial context of nine ICMs to inform the ICM Support Programme to implement the Integrated Urban Development Framework.

**2018/19 Housing Strategy Tool for Tshwane and eThekweni Metros, National Treasury Cities Support Programme:** Developed a housing supply and demand projection tool and facilitated its use in the housing strategy setting process in two metros.

**2018 Development Charges Policy, Steve Tshwete Local Municipality:** Drafted a development charges policy and unit costing methodology.

**2018 Feasibility Study for a Landfill Disposal Tax, Department of Environmental Affairs:** Led a specialist team to investigate economic instruments for reducing waste to landfill, including the feasibility of a landfill disposal tax.

**2017 South African Urbanization Review, World Bank:** Provided expert housing and infrastructure input into papers prepared for the Urbanization Review.

**2015-2017 Cape Town Medium Term Infrastructure Investment Framework, City of Cape Town:** Designed a spatial decision-making tool to calculate fiscal and non-fiscal impacts of alternative 20-year city growth scenarios, including capital and operating costs to all actors across all services.

**2016 Assessment of regulatory constraints to urban infrastructure delivery, National Treasury:** Together with Stephen Berrisford, undertook research in two metros to quantify the regulatory impact of a wide range of legislation and propose corrective measures.

**2016/17 Athlone Power Station Redevelopment Strategy, World Bank:** Part of a team lead by HR&A Advisors to develop a financial model on which to propose a land use and transaction strategy for the redevelopment of this strategic site.

**2016 Informal Settlement Support Plan, WC Dept of Human Settlements:** Developed a prioritisation model and monitoring and evaluation framework for the ISSP, as part of a team led by Isandla Institute.

**2015/16 Housing Demand Model for Gauteng, CSIR:** Designed an MS Excel model to project the interaction between housing supply and demand over 20 years and the cost thereof under various delivery scenarios.

**2015/16 Development Strategy and Transaction Support for Cornubia, World Bank:** Provided public finance and institutional input to a team led by HR&A Advisors.

**2015 Western Cape Human Settlements Demand Study, WC Dept of Human Settlements:** Provided conceptual input to design an online database to quantify the human settlement demand in Western Cape municipalities.

**2014/15 Gauteng Integrated Infrastructure Master Plan Framework, Gauteng Office of the Premier:** Undertook research and modelling to develop a framework for infrastructure provision in the Gauteng Province from 2015 to 2030.

**2014-2016 Fiscal Impact of Development Study. South African Cities Networks and National Treasury:** Developed a tool for metros to calculate the long-term fiscal and non-financial impacts of large-scale integrated developments.

**2014/15 Urban infrastructure in Sub-Saharan Africa – harnessing land values, housing and transport, UK DfID:** Undertook literature review of housing responses in Sub-Saharan Africa and contributed to research on infrastructure financing using land value capture.

**2013 Western Cape Infrastructure Framework, WC Dept of Transport and Public Works:** Managed a large team of consultants to develop a long-term framework for all infrastructure sectors in the province, including a prioritisation model.

## PUBLICATIONS

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GRAHAM, N & PALMER, I. 2016. 'The role of the fiscal framework in shaping the informal settlement upgrading agenda'. in Cirolia L, Görgens T, Van Donk M, Smit W & Drimie S (Eds) Pursuing a Partnership Based Approach to Incremental Informal Settlement Upgrading in South Africa. UCT Press, Cape Town.

CROESE, S, CIROLIA, LR & GRAHAM, N. 2016. 'Towards Habitat III: Confronting the disjuncture between global policy and local practice on Africa's 'challenge of the slums'' Habitat International, Vol 53(2016), pp 237-242.

GRAHAM, N. AND BERRISFORD, S. 2015. Development Charges In South Africa: Current Thinking And Areas Of Contestation. Paper presented at the 79th Institute for Municipal Engineers of Southern Africa (IMESA) Conference, 28-30 October 2015, Cape Town.

PALMER I., VAN NIEKERK B. & GRAHAM N., 2015, Land-based Financing for urban infrastructure in Sub-Saharan Africa, Proceedings of the DII-2015 Conference on Infrastructure Development and Investment Strategies for Africa, 16-18 September, Livingstone, Zambia (ISBN: 978-0-86970-787-6).

GRAHAM, N & FOSTER, K. 2015. 'Financing the Human Settlements Mandate' in South African Cities Network (Ed.) State of City Finances 2015. South African Cities Network, Johannesburg. pp 125-146.

PALMER, I, GRAHAM, N & WALSH, K . 2013 'Financial implications of demand-side management for electricity and water'. In South African Cities Network (Ed) 2013 State of City Finances: Towards sustainable municipal finances. South African Cities Network: Johannesburg.

PALMER, I & GRAHAM, N. 2013 'Financial modelling as a strategic planning tool'. In South African Cities Network (Ed) 2013 State of City Finances: Towards sustainable municipal finances. South African Cities Network: Johannesburg.