

CURRICULUM VITAE

Company Name	TouchStone Resources
Nationality	Anthony Richard TURTON South African
Date of Birth	23.06.1954
Profession	Political Scientist (Hydropolitics)
Position	Strategic Advisor
Specialisation	Strategic planning, transboundary water resource management, policy and institutional issues, conflict resolution (mitigation), political risk assessment for large infrastructural projects, research program design
NRF Rating	B3
Start date with TouchStone	1/1/2009

Key experience

A political scientist with 21 years of strategic-level experience, Anthony Turton specialises in transboundary water resource management including the support to negotiations between Governments and other role-players in international river basins. He has published widely on the subject of transboundary river basin management. Currently he is focussing on water and the mining industry as a sub-national transboundary issue of strategic significance in a water-constrained region with a strong mining economy. He has extensive experience in strategic planning in situations of high conflict specifically with a view to mitigating that conflict and moving towards a posture of peace. Linked with this is his ability to develop accurate strategic-level forecasting to guide decision-making under conditions of political uncertainty, and thereby reduce risk. He has experience in the management of the process of political transformation including the development of adaptive strategies, institutional dynamics and the inculcation of a changed corporate culture. He was responsible for managing the strategic alliance between ARCUS GIBB and the Southern Education and Research Alliance (SERA) (consisting of the CSIR and the University of Pretoria). He is a founding member of the Universities Partnership for Transboundary Waters (UPTW) and the former President. He was the alternative representative of the CSIR on the Board of Governors of the World Water Council (WWC); was an Executive Director of the International Water Resources Association (IWRA) (2007-2009) and is the Vice President (2010-2012); serves on the scientific committee of UNESCO IHP 6 and is a Professor at the University of Free State Centre for Environmental Management. He serves as an Editor of Water Policy (the official journal of the WWC); Water International (the official journal of the IWRA); and on the Editorial Board of the International Journal of Water Resources Development; Water Alternatives; and Springer-Verlag, a German-based text-book publisher.

Qualifications

Diploma in Horticulture: Chicago (USA), 1977
Diploma in Business Management: Damelin Business School, 1978
Bachelor of Arts majoring in Political Science, International Politics and African Politics (with Distinction) with minors in Law and Economics: University of South Africa, 1988
Honours Bachelor of Arts in International Politics (with International Law as a core subject): University of South Africa, 1995
Master's Degree in Political Science (International Politics) (Thesis on the hydropolitics of the Zambezi River Basin): University of South Africa, 1998

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Doctor Philosophiae (International Politics) (Thesis on the political dynamics of institutional development in the South African water sector): University of Pretoria (submitted 31.05.2003 – awarded March 2004)

Member of the Water Institute of Southern Africa (WISA) Management and Institutional Affairs Division and past Chairman

Member of the Pugwash Society on Science and World Affairs

Editorial board of International Journal of Water Resources Development

Editorial Board of the Water Resources Development and Management series at Springer-Verlag in Berlin, Germany

Associate Editor: Africa of Water Policy, the official journal of the World Water Council

Past President and founding member of the Universities Partnership for Transboundary Waters

Vice President of the International Water Resources Association (IWRA)

Career summary

2009 to date **TouchStone Resources** – Director

Responsible for the strategic planning underpinning the launch of a new company that will focus on natural resource management, specifically water and energy, in water constrained developing economies with a mining-base. The emphasis is on developing new approaches by bringing together technology, capital and leadership. This is based on work I have been deeply involved with called Transboundary Waters Opportunity (TWO) Analysis Methodology (see Phillips *et al.*, 2008 and Phillips *et al.*, 2006), that focuses on the need to develop “new” water when trying to grow an economy rapidly such as is needed in many parts of Africa and the developing world.

Core responsibilities include:

- Providing specialist skills for the development of strategic market, biophysical and social intelligence to a point where the viability of a new company can be assessed with a high level of accuracy
- Developing a methodology for the assessment of water and energy as a corporate risk for use in future marketing of TouchStone Resources as a solution provider
- Integrating a range of specialist networks, both national and international, that will give access to the technical, financial and human capital needs of the new company during start-up
- Head-hunting highly skilled specialists to provide leadership in key positions as the new company evolves
- Linking with government departments as appropriate in an effort to align corporate efforts with national developmental priorities
- Advising the finance and investment community (stock broking firms, analysts, fund managers and investment bankers) on water and energy as business risks
- Professional speaking to a range of paying clients
- Providing thought leadership at the highest corporate, social and political level
- Building strategic relationships with key clients, including the Aveng Group of Companies to a point where the rollout of their desalination plant in Namibia becomes a foundation for future desalination and water treatment in the field of AMD in South Africa
- Building strategic relationships with Paradigm Project Management to the point where they become the engineering arm of TouchStone Resources

Other responsibilities include:

- Commissioned by Terrapinn Training to develop a 3-day MBA in Water for their Johannesburg, London and Sydney clients.

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- Commissioned by Monash University in Australia to develop a chapter for a text book entitled "Managing Water: The Role of Water Accounting", with a contribution entitled "Water and Risk".
- Invited VIP guest to the opening of the Trekkopje Desalination Plant in Swakopmund on 16 April 2010.
- Invited by EXXARO to address their strategic management group on 6 May 2010 with a talk entitled "Water-Related Risks and Opportunities for the Coal Mining Industry".
- Commissioned by The Times to write three Op-ed's entitled, "Why AMD is a solution rather than a problem", Why the Sulphur Cycle is more important than the Carbon Cycle", and "The Double 'S' Curve Model for Macroeconomic Growth".
- Developing a strategic relationship with the Parliamentary office in Cape Town, with an invited presentation facilitated by the Catholic Parliamentary Liaison Office on 30 March 2010 entitled "From an Extractive to a Beneficiation Economy: The Role of Water".
- Commissioned by Investec Securities to do a series of presentations to their clients on Water as a Corporate Risk.
- Commissioned by Maquarrie South Securities to do a presentation to selected clients on water as a Corporate Risk.
- Paid professional speaker to the National Chamber of Milling and Baking, at their 2010 Annual General Meeting, with a talk entitled "The Impact of Water Availability and Quality on Food Security".
- Paid professional speaker at the Water Investment World Conference hosted by Terrapinn in Johannesburg on 3 November 2009, with a talk entitled "Is Water the new Oil?"
- Paid professional speaker at the MENSA monthly meeting held in Johannesburg on 17 September 2009, with a talk entitled "Understanding Water".
- Commissioned by Alive2green to write a chapter in their Sustainable Water Resources Handbook entitled "Sustainability Approach to Water".
- Commissioned by BloemWater to facilitate a strategic planning session for the newly appointed Board, on 1-2 September 2009. The objective was to align the priorities and objectives of BloemWater as a bulk water supplier with the priorities and objectives of the Department of Water Affairs, the Free State Provincial Government and the National Government.

Awards have included:

- Habitat Council Award 2009 in recognition of work done in the public interest in the field of water resource management

2009 to date **University of Free State** – Professor in the Centre for Environmental Management

Responsible for the positioning of the Water Cluster within the national research environment. Core responsibilities include:

- Building media profile for the Centre for Environmental Management and the Water Cluster
- Post-graduate training (MSc in Environmental Management)
- Networking the University with national and global actors
- Building research capacity capable of meeting the national and continental needs
- Assisting with strategic partnerships such as Bloem Water

2006 to 2008 **Council for Scientific and Industrial Research (CSIR)** – Strategic Research Leadership: Water Resource Management

Responsible for the linkage of key research projects and their elevation to strategic programme level within the Water Resource Competency Area of the NRE.

Core responsibilities included:

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- Providing institutional leadership by developing a specialist capability within the NRE at the CSIR with respect to governance and policy in the water sector – the science / policy interface.
- Growing the CSIR by developing strategic relationships with stakeholders, both local and international.
- Providing leadership by developing research programmes that have a strategic focus.
- Providing national leadership as the media spokesperson on water for the CSIR.
- Supporting the post-graduate program in IWRM in keeping with the Beyond 60 mandate of the CSIR.
- Providing technical leadership by assisting with the development of capacity in River Basin Commissions in the field of IWRM.
- Development of core skills needed to service the emerging strategic programmes.
- Sourcing of funding for strategic-level programmes.
- Alternate Chairperson of the NRE Research Advisory Panel (RAP) (1 April 2007 to 30 March 2010) and hence part of the NRE Management Team.
- Providing strategic direction for NRE SET Leadership as a Unit Fellow and as Vice Chairman of the Research Advisory Panel (RAP).
- Providing international leadership via the Research Advisory Group (RAG) at the UNESCO Centre for Water Law, Policy and Science based at the University of Dundee, Scotland.
- Providing international leadership as a member of the Program Committee preparing the contents of the 5th World Water Forum to be held in Istanbul in March 2009.
- Providing national leadership as a formal member of the Water Sector Leadership Group within the Department of Water Affairs and Forestry, representing the CSIR.

Other responsibilities have included:

- Keynote speaker at the CSIR Conference “Science Real and Relevant: A Clean South Africa”, on 18 November 2008.
- Specialist trainer for the SIDA-funded transboundary water resource management program for the Great Lakes Region of Africa, Kigali, Rwanda, 10 – 21 November, 2008.
- Facilitator at the evidence-based policymaking workshop, Pretoria, 19 – 20 November 2008.
- Invited specialist to the internal planning session on 11/9/2008 to advise SASOL on their investment strategy in various energy projects, locally and globally.
- Specialist member of a multinational and transdisciplinary consulting team tasked with developing tools to enable River Basin Organizations (RBOs) in the SADC region, August 2008 – February 2010.
- Project specialist commissioned by the United Nations Economic Commission on Africa (UNECA) tasked with doing an assessment of transboundary rivers in the Southern African region, 2008.
- Invited specialist to the 13th IWRA World Water Congress, Montpellier, France, with an input into the Workshop on Transboundary Aquifers, 2 September 2008.
- Co-convenor of the EU FP7 workshop on Climate Change and Cyanobacteria, 13th IWRA World Water Congress, Montpellier, France, 2 September 2008, aimed at fostering RSA – French collaborative research.
- Invited specialist to the internal planning session on 13/8/2008 to advise DFID’s development partnership with South Africa for the period 2009 – 2011, responsible for advising on three key challenges along with an appropriate donor response to each.
- Consultant to the SADC Secretariat on GTZ Contact No. 026/08 responsible for conceptualizing a new approach to policy harmonization in the water sector across the whole SADC region.

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- Facilitator to the DWAF Legotla, Bakgatla Lodge, Pilansberg Park, North West Province, 17 July 2008, responsible for the review of the South African water sector and DWAF's role in it.
- Advisor to the Department of Water Affairs and Forestry (DWAF) on their bid to host the 6th World Water Forum in 2012.
- Facilitator for the 3rd Abu Dhabi Dialogue and Keynote Speaker – “Moving Toward Cooperation on Water: The Respective Roles of Government, Knowledge Institutions and Civil Society” – contracted by the International Centre for Integrated Mountain Development (ICIMOD) and the World Bank, Singapore, 25-27 June 2008.
- Extraordinary Professor at the University of Pretoria Water Institute, supporting the CSIR commitment to the development of human capacity.
- Advisor to the GTZ / SASOL initiative on Business and Water Sustainability in South Africa, responsible for drafting a policy brief entitled “The State of Water Resources in Southern Africa: What the Beverage Industry Needs to Know”, presented at SASOL, Rosebank, 2 June 2008.
- Invited speaker to the National Business Initiative (NBI) CEO Global Water Compact in Africa, addressing “The State of Water and the CEO Water Mandate”, Anglo-Gold Ashanti, Johannesburg, 10 April, 2008.
- Invited speaker to the 10th Africa Day Conference, 30 May 2008, UNISA, Pretoria, addressing the issue of “The Protection of Africa's Transboundary Water Resources – Security and Political Implications”.
- Invited Keynote Speaker to the Transitions in Water Management Symposium hosted by the Institute for Environmental Studies, Vrije Universiteit, Amsterdam, supported by the Netherlands Royal Academy of Sciences, 3-4 July, 2008.
- Advisor to the Independent Television Service (ITVS) 1H2O (One Water) Project Leadership Summit, Balalaika Hotel, Sandown, 9 May 2008 as part of the CSIR media outreach program.
- Negotiating with the Tunisian Government on proposed collaborative links between Tunisia and South Africa in the field of science, engineering and technology in both the water and energy sectors.
- Invited speaker to the AMCOW and African Development Bank sponsored First African Water Week held in Tunis, Tunisia on 26 – 28 March 2008. The invited paper was on a benefit-sharing paradigm for transboundary waters. This is a build-up to the 5th World Water Forum to be held in Istanbul in March 2009.
- Executive Editor of a special edition of the International Journal of Water Resource Management entitled Reflections on Water in South(ern) Africa responsible for the conceptualization of the idea and negotiation with the publishers through to final finish of the product.
- Guest Editor of a special edition of the journal water Policy entitled Ecosystem Governance in Africa (Volume 9 Supplement 2) responsible for the conceptualization of the idea and negotiation with the publishers through to final finish of the product.
- Appointed as an Editor of Water International, the official journal of the IWRA, at the Board Meeting held in Montpellier, 22 October, 2007.
- Invited member of the Editorial Board of a newly-established journal called Water Alternatives.
- Transboundary waters specialist on the DFID funded program in SADC on adaptation strategies to global climate change.
- Invited speaker to the Sixth Petersberg Round Table on Transboundary Water Cooperation held in Bonn/Petersberg, Germany, 24 – 26 September 2007.
- Invited speaker for the Des Midgely Memorial Address at the SANCIAHS Conference in Cape Town 6 September, 2007.
- Keynote speaker at the Transboundary Groundwater Seminar held at the World Water Week in Stockholm on 16 August, 2007.
- Invited speaker to the programme Going Green - Sustainability Imperatives for Business, hosted by the Gordon Institute of Business Science (University of Pretoria) on 19 July 2007, with a presentation on “Water Availability and Implications for Business”.

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- Invited speaker to a strategic think tank of the water division of Stewart Scott International (SSI) held at the Zebra Country Lodge in Pretoria on 8 June, 2007. Responsible for a presentation on strategic trends in the water sector to inform the strategic management plan of SSI.
- Specialist trainer to the Executive National Security Programme (Colonels to Brigadier-General qualification course for all security force formations across Africa) held at the National Defence College in April and October 2007, responsible for water resources as a strategic-level national security issue in Africa.
- Invited keynote speaker to IASTED International Conference on Environmentally Sound Technology in Water Resource Management, Botswana, September 11-13, 2006.
- Invited to serve on the scientific committee of UNESCO IHP 6.
- Alternative representative of the CSIR to the Board of Governors of the World Water Council.
- Invited specialist to develop guidelines for AMCOW and the African Union on policy for inter-basin water transfers in Africa, Accra, Ghana, 25-29 September 2006.
- Invited specialist to the International Experts Meeting on Water Management in 2020 and Beyond, at the launch of the Ministry of Environment International Centre for Water, Government of Aragon, Zaragossa, Spain, 8-10 November 2006, with a presentation entitled, "HIV/Aids as a Strategic Water Issue in the Developing World: An African Example".
- Facilitator to the Start-up Meeting of the Transboundary Water Resource Management training program for Lake Victoria, Kigali, Rwanda, 12-20 October, 2006.
- Specialist trainer to the International Transboundary Water Resource Management Middle East North Africa (MENA) programme, Amman, Jordan, November, 2006 and again in October, 2007.
- Specialist trainer to the Transboundary Water Resource Management program for Lake Victoria, Nairobi, 20 November, 2006; and again in September 2007.
- Invited lead author for a special thematic volume on water and development, Society for International Development (Sidint), 2006.
- Technical advisor to Trade Conferences International for their conference on water allocation (November, 2006).

Awards have included:

- National Science and Technology Forum (NTSF) Finalist in the category Best Contribution by an Individual, May 2008.
- CSIR Career Achievement Award, 22 November 2007.
- CSIR Outstanding Contribution by a Team Award, August, 2006.

2003 to 2006 **ARCUS GIBB** – Director (Water Division)

Responsible for the management of the strategic alliance with the Southern Education and Research Alliance (SERA) consisting of the CSIR NRE and the University of Pretoria. This includes the development of the newly-created GIBB-SERA Chair in Integrated Water Resource Management (IWRM) that is based at the CSIR but working into ARCUS GIBB, the CSIR, the University of Pretoria and the Universities Partnership for Transboundary Waters (UPTW).

Core responsibilities included:

- Developing a specialist capability within ENVIRONMENTEK (now known as NRE) at the CSIR with respect to governance and policy in the water sector
- Membership of the ENVIRONMENTEK Research Advisory Panel (RAP)
- Supporting the post-graduate program in IWRM at the University of Pretoria so as to create capacity in the South African water sector and beyond

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- Developing the Universities Partnership for Transboundary Waters (UPTW) in an African context and mainstreaming these activities into the CSIR, the University of Pretoria and ARCUS GIBB
- Assisting with the development of a strategic planning capability in the ARCUS GIBB Water Division
- Assisting with the development of capacity in River Basin Commissions in the field of IWRM.

Other responsibilities have included:

- Invited presentation to the Mekong River Commission – International Forum on Integrated Water Resources Management of the Mekong River Basin, Chiang Rai, Thailand, 28-29 November 2005. Title “Desecuritization as a Foundation for Benefit Sharing: Lessons from the Okavango River Basin”.
- Consulting for the Southern African Development Community (SADC) Secretariat on the Mid-Term Review of the Regional Strategic Action Plan for Water.
- Specialist consultant for the Expert Group in Development Issues (EGDI) of the Swedish Foreign Ministry in a project entitled “Transboundary Water Cooperation as a Tool for Conflict Prevention and Broader Benefit Sharing”.
- Serving in a policy think tank in Washington DC that develops options in the field of development assistance for consideration by various branches of the US Administration.
- Leading a multi-disciplinary consulting team responsible for the Comprehensive Reserve Determination of the Elands River in Mpumalanga.
- Specialist in a multidisciplinary consulting team tasked to develop the National Water Resource Classification System called for in the National Water Act.
- Project Leader of the Water Research Commission Project K5/1564: Implications of South Africa’s Trade Policies for Water Policy and Water Resources Management.
- Specialist researcher in the Water Research Commission Project K5/1515: Compilation of all the International Freshwater Agreements entered into by South Africa with other States.
- Specialist researcher in a UNEP Project: Hydropolitical Vulnerability and Resilience along International Waters: Africa.
- Invited guest of the former US Secretary for Defence (William Cohen) to a strategic policy think-tank session entitled “Oil & Water – Energy Security and National Security” (19-20 November 2005).
- Invited guest of the World Water Council to understand the role of politics in water resource management.

2002 to 2005 **Turton & Associates (Pty) Ltd** – Director

Responsible for the development of business in the institutional and policy field of the water sector.

Core responsibilities included:

- Consulting support to the International Union for the Conservation of Nature (IUCN) with regard to their SADC Water Demand Management project including a position in the IUCN SADC WDM Regional Technical Core Team
- Consulting work for the World Bank as part of a CSIR team (Eastern Nile Technical Regional Office - ENTRO)

1999 to date **African Water Issues Research Unit (AWIRU)** – Founding Member, Head, Advisor

Responsible for establishing AWIRU and developing a specialist research and consulting capability in the water sector focussing specifically on social, political, institutional and policy-related aspects in the African water sector. Once established

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and viable this was handed over to a new Director (Dr. Jacqui Goldin) in 2005 and I have been retained as an Advisor.

Core responsibilities included:

- Developing sustainable access to funding agencies
- Developing a network of specialists at the local, regional and global level
- Development of a multidisciplinary or cross-disciplinary capability in the Southern African water sector
- Developing methodologies that are appropriate to the Southern African water sector, specifically with regard to the political, institutional and policy aspects
- Developing trust and access to the various River Basin Organizations (RBOs) and other key role-players in the Southern African water sector

Other responsibilities have included:

- Consulting work for Shell (London) as a specialist in the development of the Africa Scenarios that form the basis of their investment strategy on the continent over the next 25 years
- Consulting work for the South African Department of Water Affairs and Forestry (DWAF) on the hydro-political impacts of the Thukela Water Project and the National Water Resource Management Strategy
- Consulting work for Green Cross International in support of the National Sovereignty and International Watercourses Panel at the 2nd World Water Forum (the Hague)
- Consulting work for Green Cross International in support of the Permanent Okavango River Basin Water Commission (OKACOM) and the Water for Peace Program at the 3rd World Water Forum (Kyoto)
- Consulting work for the BBC on two TV programs related to water and conflict.
- Consulting work for the World Commission on Dams (WCD) regarding the management of transboundary river basins
- Development of training capacity for Inwent in the various River Basin Commissions in Southern Africa with initial work with ORASECOM

1998 to 2005 **Water Issues Study Group and Overseas Development Institute (ODI) (London) – Associate**

Responsible as an associate of both these organizations for research and consultancy work as appropriate and as called for

Core activities have included:

- Publishing of various scientific papers through the Water Issues Study Group
- Completing of a consultancy for the Swedish Foreign Ministry on policy options vis-à-vis the management of international water as a public good through the ODI in 2001. This proposed the establishment of an International Shared Water Facility (ISWF), which was adopted under a slightly changed name (Water Cooperation Facility) during the 3rd World Water Forum in Kyoto
- Completing of a research project for the ODI on policy options for water-stressed states in 2003. This identified the need to develop a decision support model that was dubbed FoRWaRD (Food Requirements and Water Resources Development)

1996 -1998 **Gempex (Pty) Ltd – Policy Analyst**

Responsible for developing a policy analysis capability that was appropriate to South Africa as it emerged from international isolation in the immediate post-Apartheid era

Core responsibilities included:

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- An assessment of the strategic implications for South Africa had it won the bid to host the Olympic Games
- The establishment of a techno-economic assessment and competitive intelligence capability

1987 - 1995 **National Intelligence Service (NIS)** – Strategic Analyst and Operational Manager

Responsible as part of a team of specialists for the planning, implementation and management of five strategic operational activities, which were of national importance at that time and all of which centred on the de-escalation of conflict and the normalization of political processes in Southern Africa that was possible because of the ending of the Cold War.

- Assessment of the political risk associated with the withdrawal of South African and Cuban forces from Angola, including the technical support to the negotiating team as required
- Assessment of the political risk associated with the implementation of UN Resolution 435, including the technical support to the Office of the President with respect to decision-making regarding the withdrawal of South African forces, specifically when the process was almost derailed due to the rapid deployment of Peoples Liberation Army of Namibia (PLAN) forces in contravention of the agreements then in place
- Assessment of the political risk associated with the release of Nelson Mandela and others from prison, the unbanning of the various Liberation Movements, the testing of public opinion in this regard, the establishment of the Convention for a Democratic South Africa (CODESA), the protection of that process from derailment by extreme elements on the right and left wings of the political spectrum, and the planning for the subsequent normalization of the South African political process
- Assessment of the political risk to the normalisation of the South African political process associated with the inconclusive and then ongoing civil war in Mozambique, specifically aimed at assessing the operational capabilities of the rebel movement RENAMO with the stated objective of bringing them to the negotiating table and keeping them there in order to develop a viable chance for sustainable peace in Southern Africa
- Development and implementation of a management plan to successfully integrate previously hostile forces into a new, non-partisan professional Intelligence Service capable of meeting the strategic needs of the democratic South Africa, accountable to the respective parliamentary oversight structures, and functioning within the ambit of the South African Constitution that was negotiated during CODESA

Core responsibilities included:

- Development of a strategic assessment capability that could function reliably under conditions of great uncertainty and high political and economic risk
- Development of strategies specifically designed to promote trust between hostile forces with a view to bringing them to the negotiating table and keeping them there
- Development of methodologies for the capturing of appropriate strategic information, the processing of that information in near-real time, and the final dissemination of that information as an accurate intelligence product that could be acted upon with a high degree of reliability and could be clearly understood by the designated client[s]
- Monitoring of scenario planning capabilities found in the corporate sector and the subsequent development of those methodologies into a process that was appropriate to strategic planning, political risk assessment and decision-making as it was being practiced during that period in historic time

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- Development of “out-of-the-box” lateral thinking processes designed to solve complex political, social and economic problems
- Development of a strategy and capability to manage the process of integrating previously hostile forces from both the statutory and non-statutory components of the security force community
- Development of standard operational procedures to align the intelligence process with the South African Constitution and other relevant pieces of legislation
- Founding Member of the South African Secret Service (SASS), the first democratic intelligence structure responsible for the collection of strategic foreign intelligence, responsible for developing collection and analytical processes that comply with oversight requirements and meet the needs of the client

1978 – 1987 **Hlabisa Farms (Pty) Ltd** – Technical Director

Responsible for the planning, development and implementation of all the technical and engineering-related aspects associated with the production of high-grade floricultural products in a controlled climate

Core responsibilities included:

- Design, planning and construction of controlled climate greenhouses appropriate to the production of high-grade floricultural crops
- Design, planning, construction and maintenance of boiler plant needed to provide sterilization and central heating services in a controlled climate
- Design, planning, construction and maintenance of electrical reticulation systems including stand-by generating plant needed to support the controlled climate production on a year-round basis
- Design, planning, construction and maintenance of water reticulation systems including storage dams, pump stations, pipelines, fertilizer injectors, irrigation systems, evaporative cooling systems, groundwater development and effluent treatment facilities needed to support the controlled climate production on a year-round basis
- Negotiation of what would be called a Catchment Management Agency (CMA) today capable of regulating the abstraction of water from an over-allocated river in which many riparians were not interested in cooperation by virtue of their privileged access to water as upstream users

Publications

Adler, R., Funke, N., Findlater, K. & Turton, A.R. 2006. *The Changing Relationship between the Government and the Mining Industry in South Africa: A Critical Assessment of the Far West Rand Dolomitic Water Association and the State Coordinating Technical Committee*. Pretoria: Council for Scientific and Industrial Research (CSIR).

Adler, R., Claassen, M., Godfrey, L. & Turton, A.R. 2007. Water, Mining and Waste: An Historical and Economic Perspective on Conflict Management in South Africa. In *The Economics of Peace and Security Journal*, Vol. 2, No. 2 (2007), Pp 32 – 41.

Ashton, P., & Turton, A.R. 2004. *Transboundary Water Resource Management in Southern Africa: Opportunities, Challenges and Lessons Learned*. Paper presented at the International Expert Workshop on Water, Development and Cooperation, Comparative Perspective: Euphrates-Tigris and Southern Africa. Bonn International Conference Centre, 1-3 March 2004.

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Ashton, P.J., Earle, A., Malzbender, D., Moloi, M.B.H., Patrick, M.J. & Turton, A.R. 2005. *A Compilation of all the International Freshwater Agreements entered into by South Africa with other States. Water Research Commission Report No. 1515/1/06.* Pretoria: Water Research Commission (WRC).

Ashton, P. & Turton, A.R. 2005. Transboundary Water Resource Management in Southern Africa: Opportunities, Challenges and Lessons Learned. In **Wirkus, L.** (Ed.) *Water, Development and Cooperation – Comparative Perspectives: Euphrates-Tigris and Southern Africa.* Bonn: Bonn International Centre for Conversion (BICC). Pp 5 – 32. Available online at www.bicc.de

Ashton, P.J., Turton, A.R. & Roux, D. 2006. Exploring the Government, Society and Science Interfaces in Integrated Water Resource Management in South Africa. In *Journal of Contemporary Water Research and Education*, No. 135: 28 – 35.

Ashton, P.J. & Turton, A.R. 2008. Water and Security in Sub-Saharan Africa: Emerging Concepts and their Implications for Effective Water Resource Management in the Southern African Region, in **Brauch, Hans Günter; Grin, John; Mesjasz, Czeslaw; Dunay, Pal; Chadha Behera, Navnita; Chourou, Béchir; Oswald Spring, Ursula; Liotta, P.H.;** Kameri-Mbote, Patricia (Eds.): *Globalisation and Environmental Challenges: Reconceptualising Security in the 21st Century.* Hexagon Series on Human and Environmental Security and Peace, Vol. 3. Berlin – Heidelberg – New York – Hong Kong – London – Milan – Paris – Tokyo: Springer-Verlag, Chapter 56.

Blanchon, D. & Turton, A.R. 2005. Les Transferts Massifs d'Eau en Afrique du Sud. In **Lasserre, F.** (Ed.) *Transferts Massifs d'Eau: Outils de Développement ou Instruments de Pouvoir?* (In French). Sainte-Foy, Québec: Presses de l'Université du Québec. (Pp 247 – 283).

Breen, C.M., Cox, D., Dickens, C., Mackay, H., Mander, M., Roux, D.J., Turton, A.R. & van Wyk, E. 2003. Strategic Review of River Research. Water Research Commission Report No. 1198/1/03. Pretoria: Water Research Commission

Dollar, E.S.J., Nicolson, C.R., Brown, C.A., Turpie, J.K., Turton, A.R., Grobler, D.F., Pienaar, H.H., Ewart-Smith, J. & Manyaka, S.M. (Submitted). The Development of the South African Water Resources Classification System (WRCS): A Tool Towards the Sustainable, Equitable and Efficient Use of Water Resources in a Developing Country. *Water Resources Research.*

Earle, A. & Turton, A.R. 2003. The Virtual Water Trade amongst Countries of the SADC. In **Hoekstra, A.** (Ed.) *Virtual Water Trade: Proceedings of the International Experts Meeting on Virtual Water Trade.* Delft, the Netherlands, 12-13 December 2002. Research Report Series No. 12. Delft: IHE. Pp. 183-200

Earle, A. & Turton, A.R. 2003. Water Vulnerability: Global Environmental Change and the Southern African Region. Paper presented at the SAVI Workshop in Maputo, Mozambique on 19 – 21 June

Earle, A. & Turton, A.R. 2005. No Duck no Dinner. How Sole Sourcing Triggered Lesotho's Struggle against Corruption. Paper presented at the Seminar on Corruption in the Water Sector at the World Water Week in Stockholm 2005. Forthcoming in a journal.

Earle, A., Malzbender, D., Turton, A.R. & Ashton, P.J. 2005. *Hydropolitical Vulnerability and Resilience along Africa's International Waters.* Nairobi: UNEP.

Earle, A., Malzbender, D., Turton, A.R. & Manzungu, E. 2005. *A Preliminary Profile of the Orange / Senqu River.* Leipzig, Pretoria & Gaborone: INWENT, African

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Language capability

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Good	Good	Fair
French	Fair but unpractised	Fair	Poor

Signature

Date
