

Cape Town–Aachen Partnership

Lord Mayor of Aachen Delegation to Cape Town

10 - 15 March 2019



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Executive Summary

Introduction

From 10-15 March 2019, the Lord Mayor of Aachen, Marcel Philipp, led a 22-person delegation of politicians, academics, civil society representatives and business leaders on an exchange to Cape Town, funded by Engagement Global.

The Cape Town–Aachen Partnership has a strong legacy that has been fostered over twenty years. What began as civil society collaboration has grown into a formal Partnership Agreement between the City of Cape Town and the City of Aachen, Germany. Rooted in the principles of Agenda 21 and the Sustainable Development Goals (SDGs), the Cape Town–Aachen Partnership aims to initiate and sustain projects that incorporate and integrate ecological, social and economic aspects and principles into the planning, development and operation of those projects and to make their outcomes visible at a local level. The fifth Memorandum of Agreement (MoA) was signed between the cities in November 2017 and there have been four exchanges between Cape Town and Aachen since.

Aim and objectives

The aim of the delegation's visit was to foster future-oriented cooperation in the Cape Town-Aachen Partnership through the involvement of representatives from business, academia, civil society and government. In line with the overarching goal of the Partnership, the exchange focused on building renewed networks and capacity to collaborate and continue to promote local sustainable development in line with the SDGs. The following objectives framed the programme and the desired outcomes from the week:

- Expose participants to projects and innovations from Cape Town and Aachen
- Identify new participants and promote networks for joint cooperation within the Partnership, particularly in the spheres of education, economy and science, and sustainability
- Identify new projects and programmes to take forward through the Partnership
- Raise awareness of the Partnership goals and legacy
- Promote the mainstreaming of sustainability in both cities through the SDGs
- Continue to nurture and develop the relationships that drive the Partnership to enable the building of the vision and structures for the future

Conclusion and recommendations

The objectives of the delegation were met and the participants expressed gratitude for the opportunity to participate in the exchange and acknowledged the passion of the individuals involved in the programme. New participants and points of collaboration were identified, and strong networks and relationships were fostered during both the formal and informal programme sessions. The legacy of the Cape Town–Aachen Partnership and the SDGs were strong threads throughout the week and there is new energy to build the Partnership from strength to strength.

A number of key action points and potential follow-up exchanges were raised during the week around the themes of mobility, arts and culture, business, politics and administration, environment, waste, education and science. The mayors of Cape Town and Aachen, as well as other political leaders, developed a strong bond, a deeper value for the Partnership, and vision for high level exchanges and collaborations in the future. It will be important to follow up on the ideas raised and ensure that individuals stay motivated to act on their suggestions and continue to build the relationships with counterparts in the Cape Town–Aachen Partnership.

In order to take the Partnership to a new level of collaboration, communication and coordination, it is recommended that capacity be designated or resourced in Cape Town and Aachen. Mandate and capacity are required in the short- and long-term in order to manage the Partnership and support the key action points and proposals going forward. This will also assist the governing structure of the Partnership to work more effectively.

Drafted by Tiffany Chalmers and Julia Munroe, Programme Coordinators for the exchange, April 2019

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1. Exchange Week Programme

During the week, the delegates followed both a **broader-based programme** (Monday, Thursday and Friday) and a specific programme (Tuesday and Wednesday) based on their interests. The programme made provision for the respective delegations - *Economy and Science; Politics, Administration and Sustainability; and Education*. The Lord Mayor of Aachen, Marcel Philipp, was involved in sessions with the Economy and Science, and Politics, Administration and Sustainability delegations. The programmes involved various site visits, workshops and networking opportunities with public, private and civil society representatives and organisations. Over thirty different organisations and eighty individuals from Cape Town directly participated in the programme (see *pg. 43 for more information*).

Politics, Administration and Sustainability programme

Conveners: Kristine Hess-Akens and Lorraine Gerrans

The Politics, Administration and Sustainability programme covered diverse themes linked to sustainable development, including urban agriculture, environmental education, housing, urban development, resilience, non-motorised transport, and catalytic projects. One of its key aims was to expose the delegates to projects which could be the focus of future collaboration. See *pg. 7 for detailed information on this programme*.

Economy and Science programme

Conveners: Sven Pennings and Tim Hadingham

The Economy and Science delegation was the largest of the three. Their programme was tailored to match the interests of the individuals in the delegation and focused on the green economy, digital technology, university research, technology transfer and commercialisation, and investment. It was developed in collaboration with GreenCape who work on growing Cape Town's business interest in the green economy. See *pg. 8 for detailed information on this programme*.

Education programme

Conveners: Norbert Kunz and Lindie Buirski

The Education programme focused on identifying possible new primary and secondary school connections, and strengthening historic partnerships. The delegation visited several schools and organisations around Cape Town to identify new means of collaborating through exchanges, programmes and projects. See *pg.9 for detailed information on this programme*.

Detailed programmes

Sunday and Monday:

All delegates

SUNDAY 10 MARCH		
Time	Item	Key personnel
10:00	Airport welcome	Alderman Dan Plato, Alderman Ian Neilson, Alderman Marian Nieuwoudt
14:30	Heritage and memorialisation walk	Damian Wentzel
16:30	MyCiti bus to the V&A Waterfront	
17:00	Zeitz MOCAA - Museum of Contemporary Art Africa	
18:00	Dinner at the Cape Town Fish Market	

MONDAY 11 MARCH		
08:30	<p>Welcome and Introductory Session at the Cape Investor Centre</p> <ul style="list-style-type: none"> • Introduction to the session • Formal Welcome address • The Cape Town–Aachen Partnership for Sustainable Development • Partnering for sustainable economic growth and the green economy • The importance of business co-operation between cities • Address by the Lord Mayor of Aachen • Welcome to the Cape Investor Centre • Presentation: Introduction and History of the Cape Town - Aachen Partnership • Introduction to the Exchange Week • Presentation: City Improvement Districts as an examples of community-based partnerships • Presentation: Building effective partnerships for inclusive growth • Presentation on the City Centre Cycle 	<p>Stephen Granger Alderman Marian Nieuwoudt Councillor Eddie Andrews Kelcy Le Keur Alderman James Vos Marcel Philipp Yaw Peprah Osman Asmal Tim Hadingham, Lorraine Gerrans, Norbert Kuntz Eddie Scott Andrew Borraine Julia Munroe</p>
13:30	Lunch at the Company's Gardens	
15:00	Good Hope Junior School	Kurt Ackerman
16:00	Oranjezicht City Farm	Sheryl Ozinsky, Kurt Ackerman
17:30	Partnership 20 Year Celebratory Dinner	

Tuesday and Wednesday:

Political, Administration and Sustainability Programme

Aachen participants: Lord Mayor Marcel Philipp, Aida Beslagic-Lohe, Alexander Lohe, Jürgen Schmitz, Kristine Hess-Akens, Peter Blum, Ulla Thönnissen, Veronika Stuetzel, Wilhelm Helg

TUESDAY 12 MARCH		
09:00	GSB Solution Space, Philippi Village and Philippi Economic Development Initiative (PEDI) <ul style="list-style-type: none"> Welcome to Philippi Village and GSB Solution Space Presentation on Philippi Economic Development Initiative Presentation on the Philippi Horticultural Area (PHA) 	Paul Williamson Simnikiwe Xanga Thomas Swana Karen Harrison
10:30	Philippi Fresh Produce Market	Roger Jaques
11:30	Philippi Horticultural Area and German Church	Mr. Engelke
13:00	False Bay Nature Reserve and CTEET <ul style="list-style-type: none"> Presentation on the Cape Town Environmental Education Trust Tour of the Strandfontein Birding Area 	Anthony Roberts Rolivhuwa Murovhi
15:30	Dunoon Library <ul style="list-style-type: none"> Presentation on the context and challenges of planning in Dunoon, and the vision of future projects 	Ashley Hemraj and Ninnie Steyn Liesel Kruger-Fountain
17:00	SANCCOB Seabird Hospital	Katta Ludynia and Stephen van der Spuy
19:00	Dinner at Ons Huisie (All)	

WEDNESDAY 13 MARCH		
09:00	Langa Education, Tourism and Culture Tour <ul style="list-style-type: none"> Walking tour of Langa Pass Office, Guga S'thebe Arts and Culture Centre, Ikhaya Le Langa Mokone Primary School urban agriculture 	(with Education delegation) Tony Elvin and Lindi Buirski Vellie Maxwell Dinga
12:00	Launch of the Mayor's Portfolio of Urban Sustainability <ul style="list-style-type: none"> Mayor's Portfolio of Urban Sustainability 2018 Keynote address by the Mayor of Cape Town Reflections from City of Aachen, Germany MAPS Performer of Excellence: Construction of Delft Early Childhood Development Centre MAPS Performer of Excellence: Dassenberg Coastal Catchment Partnership 	Muofhe Pedzai Alderman Dan Plato Lord Mayor Marcel Philipp Ashley Hemraj Julia Wood
14:00	Session on Sustainable Cities <ul style="list-style-type: none"> Building resilience in Cape Town by pivoting off the drought Eco District model for Woodstock and Salt River The vision for sustainable transport in Cape Town Open Streets for more inclusive public space and mobility Sustainable mobility in Aachen Climate resilience and urban greening in Aachen 	Gareth Morgan Nigel Titus Teuns Kok Rebecca Campbell Kristine Hess-Akens Veronika Stuetzel
19:00	Dinner at Karibu (Aachen delegation only)	

Tuesday and Wednesday:

Economy and Science delegation

Aachen participants: Andera Gadeib, Dagmar Wirtz, Daniela Prochnau, Dieter M. Begaß, Dieter Rehfeld, Dorothea Ernst, Eva-Maria Jakobs, Hajo Noerenberg, Ina-Marie Orawiec, Stephan Kallweit, Sven Pennings

TUESDAY 12 MARCH		
09:00	Bandwidth Barn Woodstock <ul style="list-style-type: none"> • Introduction to the Cape Innovation and Technology Initiative (CiTi) • Presentation on FH Aachen University of Applied Science • Presentation on RWTH Aachen University's interdisciplinary programmes in Technical Communication 	Ian Merrington, Marietjie Engelbrecht, Lara Rosmarin Stephan Kallweit Eva-Maria Jakobs
12:00	Lunch at Coffee Meets Sandwich, Atlantis	
13:30	Atlantis and SAREBI <ul style="list-style-type: none"> • South African Renewable Energy Business Incubator (SAREBI) • Introduction to the context of the Atlantis Special Economic Zone (SEZ) • Tour of the Atlantis SEZ 	Helmut Hertzog Tim Hadingham
17:00	SANCCOB Seabird Hospital	Katta Ludynia and Stephen van der Spuy
19:00	Dinner at Ons Huisie (All)	

WEDNESDAY 13 MARCH		
09:00	GreenCape Sector Presentations <ul style="list-style-type: none"> • GreenCape Overview • The Water Hub • The Sun Exchange • South Africa's BPO industry • Aerobotics 	Jarrod Lyons, Aman Baboolal Jason Mingo Liam Kelly Gareth Pritchard Lindsay Griffiin
12:30	Networking Lunch	
14:00	Cape Peninsula University of Technology, Bellville <ul style="list-style-type: none"> • CPUT Technology Transfer Office (TTO) • RWTH Aachen's Technical Communication programme • Advanced customer insights through artificial intelligence • FH Aachen Technology Transfer OR University visits	Revel Iyer Eva-Maria Jakobs Andera Gadeib Daniela Prochnau
19:00	Dinner at Karibu (Aachen delegation only)	

Tuesday and Wednesday:

Education Delegation

Aachen participants: Kirsten Hofmann, Norbert Kuntz, Susanne Schwier

TUESDAY 12 MARCH		
09:00	Good Hope Seminary School <ul style="list-style-type: none"> • Discussing potential support from an Aachen High School • Tour of the school and Shine Centre 	Adrienne Milner
11:00	Dream Factory Foundation <ul style="list-style-type: none"> • Showcasing projects and success stories of the foundation 	Lusanda Maqwape
12:30	Lunch at Café Ganesh	
13:30	Kiddies College Preschool	Tasneem Robinson
14:30	Partners for Possibility at Bonteheuwel High School <ul style="list-style-type: none"> • Global Exploration meeting with Grade 12 exchange students 	Nicola Pather Jesse Lippers
16:30	Africa Unite	Zoe Nkongolo and Bongeka Gumede
19:00	Dinner at Ons Huisie (All)	

WEDNESDAY 13 MARCH		
09:00	Langa Education, Tourism and Culture Tour <ul style="list-style-type: none"> • Walking tour of Langa Pass Office, Guga S'thebe Arts and Culture Centre, Ikhaya Le Langa • Mokone Primary School urban agriculture 	(with Political Delegation) Tony Elvin and Lindi Buirski Vellie Maxwell Dinga Jeremy Ontong and Roger Brown
12:00	Phoenix High School	
13:00	Lunch at Edith Stephens Wetland Park with the Dream Factory Foundation	
14:30	Luhlaza High School	Tita Booï
18:00	Meeting for dinner with former exchange students from Aachen	

Thursday and Friday:

All delegates

THURSDAY 14 MARCH		
08:00	Chapman's Peak	
10:00	Simon's Town Penguin Management Project <ul style="list-style-type: none"> Welcome and introduction to the Shark Warrior Centre Presentation on Simon's Town Penguin Management Project 	Jon Monsoon Katta Ludynia, Arne Purves, Mashudu Mashau
11:00	Tour of Burgher's Walk and penguins	Katta Ludynia, Arne Purves, Mashudu Mashau
12:00	Lunch at Boulder's Beach restaurant	
15:00	Partnering Session with EDP for upcoming Sustainability Think Tank <ul style="list-style-type: none"> Introduction to the session and values for partnering "What?", "so what?", "now what?" activity 	Andrew Boraine Gill Cullinan
15:00	OR Cape of Good Hope Tour	
19:30	Farewell dinner at Lapo's Kitchen	

FRIDAY 15 MARCH		
07:30	Cable Car trip up Table Mountain	
09:00	Mayor to Mayor Courtesy Call	Alderman Dan Plato
10:00	Closing session and reflection on the week	Andrew Boraine and Gill Cullinan
12:30	Bandwidth Barn Khayelitsha <ul style="list-style-type: none"> Introduction to the Khayelitsha Bandwidth Barn and the programmes ABCD Concepts 	Fezeka Mavusa and Ayanda Siboto Ayanda Cuba
13:30	Abalimi Bezekhaya and Climate Ticket (optional)	Liziwe Stofile
14:00	Lunch at 4Roomed eKasi Culture with Golden's daughters	
16:00	Informal tour of the City Hall	Lorraine Gerrans

2. Annotated Programme Events

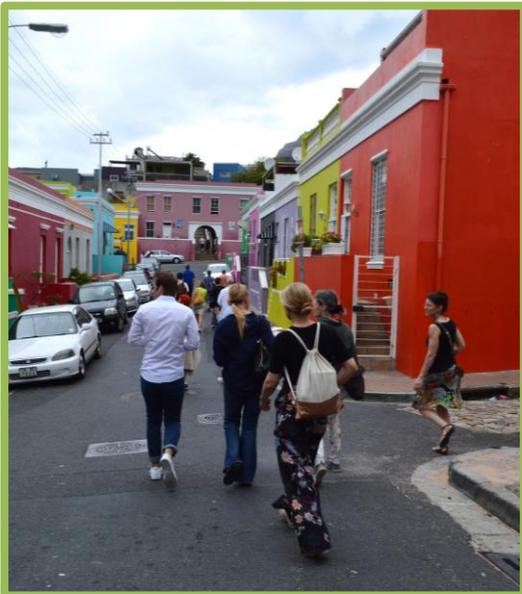
The following information provides basic insights of each session in the programme. More detailed information on each session is available on request.

Sunday 10 March 2019



Welcoming the Delegation

Lord Mayor Marcel Philipp and members of the Aachen delegation were welcomed at the airport by City of Cape Town **Executive Mayor Dan Plato**, **Deputy Mayor Ian Neilson**, Mayoral Committee Member **Alderman Marian Nieuwoudt**, and officials from the Environmental Management and International Relations departments.



Heritage and Memorialisation Walk

Damian Wentzel from Cape Town's Heritage branch led a walk around the city centre, stopping at key sites significant to the slave heritage of Cape Town, including the Evangelical Lutheran Church, Prestwich Memorial, and the Bo-Kaap. In the Bo-Kaap, participants were treated to local Cape Malay snacks – *samosas*, *chilli bites* and *koeksisters*. After the walk, the group experienced the MyCiTi bus as they travelled to the V&A Waterfront.

Key points for action:

Plan a heritage and memorialisation exchange with potential to connect inter-faith organisations from Aachen and Cape Town.

Monday 11 March 2019



Welcome and Introductory Session

The week officially began with a session at the InvestSA One Stop Shop. **Stephen Granger**, Manager of Environmental Planning and Sustainability at the City of Cape Town, welcomed the esteemed guests from both Cape Town and Aachen and introduced the speakers for the morning.

Alderman Marian Nieuwoudt, Mayoral Committee Member for Spatial Planning and Environment, reminisced on her experience of the Partnership, highlighting the nature and values as important components that define the Partnership's success.

Councillor Eddie Andrews, Chairperson for the Spatial Planning and Environment Portfolio Committee, spoke on the importance of the SDGs, specifically SDG 11 & 17 as guiding principles both of the Partnership and the vision the City of Cape Town.

Kelcy Le Keur, Executive Director for Economic Opportunities and Asset Management, highlighted the new business component of the Partnership and mentioned exciting aspects of the Economy and Science programme for the week.

Alderman James Vos, Mayoral Committee Member for Economic Opportunities and Asset Management, emphasised the importance of global connections and working with other cities to share good practice, develop new jobs and economies, and encourage innovation and progress to meet the goals of sustainable growth.

Lord Mayor Marcel Philipp expressed gratitude to Cape Town for hosting the delegation and thanked Engagement Global for funding the exchange. He spoke on the goal of the Partnership and the need to embody sustainability and mutual learning in all aspects of collaboration.

Yaw Peprah, Chief Business Development Officer at WESGRO, welcomed the delegation to the InvestSA One Stop Shop and introduced the aim of the facility - to provide investors with services to fast-track projects and reduce government red tape when establishing a business.

Osman Asmal, Acting Executive Director for Spatial Planning and Environment, and longstanding member of the Partnership, presented on the history and legacies of the Partnership. He highlighted the civil society component and a number of successful projects in the spheres of education, local government, transport, urban design, music, waste, safety, art, culture, engineering and energy.

Tim Hadingham, Manager of Investment Facilitation, **Lorraine Gerrans**, Head of Sustainable Partnerships and Financing, and **Norbert Kuntz**, independent coordinator for the Education delegation, elaborated on their specific programmes for the week.

Eddie Scott, Manager of Inter-Service Liaison, provided an overview on the City Improvement Districts (CIDs) model as an innovative way of bringing communities together and adding value to service delivery. A strong partnership exists between Eddie Scott and his Aachen counterpart, Ron-Roger Breuer. The City of Aachen has already begun implementing aspects of the CIDs model through mobile crime units.

Andrew Boraine, CEO of the Western Cape Economic Development Partnership (EDP), provided key insights into building effective partnerships, and some of the partnering methodologies and tools that could be used to do so. His presentation provided an introduction to the foundations of partnering, which would be explored more tangibly with EDP during the week. Lessons from the Cape Town–Aachen Partnership would be explored further in the week following the exchange, where EDP would be facilitating the City of Cape Town's Partnering for Urban Sustainability Think Tank.



Staff Bike Share and the City Centre Cycle

Julia Munroe, contractor at EDP and former intern at the City of Cape Town, presented a project which encourages non-motorised transport in Cape Town central. Through an informal bike share system and weekly lunchtime rides, the aim of the initiative is to develop a culture of commuter cycling in the city centre, thereby contributing to the efforts to increase the city's cycling mode share from 1% to 8% mode share by 2030. This is the target presented in the City's Cycling Strategy.

Key points for action:

Encourage mutual learning to create lower-carbon, more bicycle and pedestrian-friendly cities by sharing mode-share goals and actions.



Good Hope School and the Good Hope Lab

Following a lunch at the Company's Gardens, delegates found themselves at the historic campus of Good Hope Seminary School and were formally welcomed by Principal **Adrienne Milner**.

The delegation was introduced to the school by a school pupil. They then viewed a short video on the high-bed garden project which was run in partnership during the Good Hope Lab exchange with students from RWTH University of Aachen in September 2018. A tour of the school's courtyard gardens was enthusiastically led by Good Hope learners.



Oranjezicht City Farm

Kurt Ackerman and **Sheryl Ozinsky** from the Oranjezicht City Farm (OZCF) spoke on the history, programmes and activities undertaken by the organisation. Through the vision of bringing communities together, the OZCF has successfully created a model for improving under-utilised public green spaces by creating demonstration gardens for hands-on community-wide food gardening education.

As a symbol of the growth and future of the Cape Town-Aachen Partnership, **Lord Mayor Marcel Philipp** planted a tree to open the official 'Aachen Garden', a section of the OZCF planted by **Xola Kebwa** with seeds gifted from Aachen.

Key points for action:

Replicate the OZCF model combining food gardening and public space in Aachen;

Initiate a study to test and define a matrix for urban farming and social gardening through the universities in both cities;

Explore and institutionalise the concept of urban food hubs, linking OZCF and Langa.



Partnership Twenty Year Celebratory Dinner

To honor two decades of the Partnership and informally open the week, an event was held at Deer Park Cafe. Affiliates of the Partnership were invited to reconnect and celebrate together over casual drinks and snacks.

The Aachen Partnership Association prepared a timeline of the last twenty years (see pg.40), and guests were encouraged to add projects and memories. **Lord Mayor Marcel Philipp** and **Alderman James Vos** honoured the occasion with a toast celebrating the legacy and impact of the Partnership.

Key points for action:

Plan and host further events in celebration of the Partnership's twentieth year.

Tuesday 12 March 2019



UCT Graduate School of Business Solution Space and Philippi Economic Development Initiative

Paul Williamson, Service Coordinator for the South, welcomed the Political delegation, and **Simnikiwe Xanga**, Community Liaison for the University of Cape Town Graduate School of Business Solution Space, gave a tour of the facilities and an overview of its programmes.

Thomas Swana, CEO of the Philippi Economic Development Initiative (PEDI), provided the initiative's context, vision and activities. PEDI aims to promote economic growth in Philippi, with a focus on developing catalytic sectors in order to create jobs and develop skills.

Karen Harrison, a consultant contracted to develop the Philippi Horticultural Area (PHA) Socio-Economic Agricultural Plan, presented on the PHA. She

highlighted its economic and environmental significance, particularly in terms of mitigating the risks of climate change and food insecurity. The City of Cape Town has recently recognised the value of this area by designating particular overlays to it in the Municipal Spatial Development Framework (MSDF) such as a 'Critical Natural Area' and 'Agricultural and Heritage' area.



Philippi Fresh Produce Market

After the context of Philippi and urban agriculture were provided, the Political delegation visited Philippi Fresh Produce Market where they were exposed to some of PEDI's projects, such as the organic farming and the Urban Agriculture Academy programme.

Roger Jaques from Waste to Food introduced the delegates to the organic waste initiative running at the Philippi Market. Here, waste destined for landfill sites is fed to earthworms in order to generate high-quality vermi-compost. This increases the fertility of the soil and facilitates plant pest and disease control. The business model is commercially viable at a larger scale and more investment would see an exponential increase in its impact and success.

Key points for action:

Pilot an EU solar mobility project in Philippi for electric street scooters to collect and distribute fresh produce in the area;

Focus on the issue of 'zero waste to landfill' and waste minimization for the next high level exchange to Germany.



Philippi Horticultural Area and the German Church

Philippi has a historical relationship with Germany as a number of its farmers have German roots. The Political delegation enjoyed a historical tour of a German church in Philippi with **Mr. Engelke**. He explained that the Philippi congregation was established on the 25th of May 1896 as an affiliate to the St Martini congregation in Wynberg. They were known as the "Deutsche Evangelisch-Lutherische Gemeinde den Cape Flats".

Karen Harrison and **Mr. Engelke** then accompanied the group on a drive through the PHA, stopping at vantage points and key areas of interest.



False Bay Nature Reserve and the Cape Town Environmental Education Trust

Rolivhuwa Murovhi, Reserve Supervisor, welcomed the guests and provided information on the significance of the area. False Bay Nature Reserve (FBNR) is one of Cape Town's popular nature reserves, situated on the Cape Flats. It is a top birding area and a designated Ramsar wetland site. The Political delegation had the opportunity to explore the reserve and observe some of the local flora and fauna.

Anthony Roberts, CEO of the Cape Town Environmental Education Trust (CTEET), gave a presentation on CTEET's programmes and successes. CTEET support the preservation of Cape Town's unique and biodiverse natural heritage through education, training and conservation initiatives, in particular offering training and mentorship to disadvantaged communities.

Key points for action:

Support CTEET with digital education to connect students to new skills and ways of learning;

Design and fund a new environmental education centre at Westridge Gardens, with links to CTEET education programme, in the Cape Flats using green building techniques.



Dunoon Library Centre

The Political delegation travelled to Dunoon, a dense township area situated inland on the west coast of Cape Town. The group was welcomed here by a local marimba band led by **Duke Gumede**, longstanding member of the Partnership and City official in the Human Settlements Department

Liesel Kruger-Fountain, City Urban Designer, led the group into the new library in Dunoon and introduced her colleagues, **Ashley Hemraj**, the City architect for the library, and **Ninnie Steyn**, Director of Library and Information Services.

Liesel gave a comprehensive overview of the context and challenges of planning in Dunoon, and the priority projects identified by the community. Dunoon is a settlement where the density far exceeds the capacity of infrastructure, services, facilities, job opportunities

and public open space, and the majority of privately owned sites are currently non-rate paying. Although Dunoon struggles with these challenges, it is well-situated and has many opportunities to develop.

Key points for action:

Develop a practical vision and design for the reclamation of the Dunoon Quarry, with links to urban agriculture and waste management.



Woodstock Bandwidth Barn

The Economy and Science delegation started their day at the Cape Innovation and Technology Initiative's (CiTi) Woodstock Bandwidth Barn, a co-working space which supports and incubates tech-based businesses. The CEO, **Ian Merrington**, introduced CiTi as Africa's oldest technology incubator and Cape Town as Africa's tech capital.

Lara Rosmarin, Head of Enterprise Development at CiTi emphasised the value of mentorship and the importance of bringing more women into the Tech space. She shared her vision of a future South Africa where young people were robust, resilient and business smart as opposed to just book smart.

Marietjie Engelbrecht, Head of Marketing outlined CiTi's different programmes and highlighted some of the FinTech, EdTech and TravelTech start-ups which

have emerged from the initiative.

Prof. Dr.-Ing. **Stephan Kallweit** presented on some of FH Aachen University of Applied Sciences' programmes in biotechnology, robotics and bioengineering as well as collaborative projects with South Africa's Tshwane University of Technology. He emphasised that Africa would be one of the driving forces of the next decade.

Prof. Dr. **Eva-Maria Jakobs** followed with a presentation on RWTH Aachen University and their interdisciplinary programmes in Technical Communication which combine psychology, sociology and linguistics with more technical and engineering subjects. The session ended with a tour of the Bandwidth Barn.

Key points for action:

Consider and plan a conference on modern robotics in Cape Town and Aachen in July 2019 and explore the potential for a robotics summer school in Cape Town, linked to the already existing exchange with FH Aachen and Tshwane University of Technology;

Create a collaborative project on 'smart materials' between Cape Town and Aachen.



Atlantis SEZ and SAREBI

General Manager, **Helmut Hertzog**, introduced the South African Renewable Energy Business Incubator (SAREBI) to the Economy and Science delegation. SAREBI aims to unlock value chain-related enterprise opportunities in the clean tech sector, make measurable improvement in business skills and promote localisation and job creation. It does so through programmes with partners from multiple sectors. The presentation was followed by a tour of SAREBI's factories.

Tim Hadingham, City of Cape Town Manager of Investment Facilitation introduced the context of the Atlantis Special Economic Zone (SEZ) - a renewable and greentech manufacturing hub on the outskirts of the city with an emphasis on job creation and skills development. The delegation was taken on a tour of

the SEZ with stops at key businesses in the area, such as Gestamp Renewable Industries.

Key points for action:

Working with two companies in Germany who are looking to develop into Cape Town markets;



Good Hope Seminary School

The Education delegation met with principal **Adrienne Milner** from the Good Hope Seminary School to discuss potential support from an Aachen High School. The delegation then received a tour of the school, visiting classrooms, the computer lab, Shine Centre and the separate preschool building.

Key points for action:

Investigate a potential partnership between pupils from Good Hope Seminary School and a High School from Aachen.



Dream Factory Foundation

Lusanda Maqwape, Director of the Dream Factory Foundation, welcomed the Education delegation during an introductory session to meet the team, followed by a presentation showcasing the projects and success stories of the Foundation.

The Foundation runs an independent education programme filtered through the subject of Life Orientation at South African schools. The curriculum covers career guidance, academic tutoring, connecting learners to mentors and job shadowing opportunities.

The Dream Factory Foundation would like to see their concept grow beyond their current focus which supports underprivileged students in meeting their dreams.

Key points for action:

Connect students from different backgrounds (Cape Town and Aachen) to share their views and life experiences via a social platform such as eTwinning or Skype.



Kiddies College Preschool

Upon arrival at Kiddies College Preschool, the Education delegation was greeted by Principal **Tasneem Robinson**, who proceeded to lead a tour of the school. The delegation was shown to the different classrooms and met with a volunteer from Aachen, as well as other international volunteers.

Kiddies College Preschool has strong links to the Cape Town-Aachen Partnership. The owner of the preschool, Ms. May, is a former teacher at Phoenix High School and was on an exchange to Aachen with learners in 2011. Kiddies College takes a number of European volunteers every year and have had five volunteers from Aachen over the last seven years.



Bonteheuwel High School

The delegation was greeted by **Jesse Lippers** of Global Exploration and taken to principal **Nicola Pather's** office. Here, they engaged with Grade 12 learners who had recently returned from an exchange to the Netherlands, coordinated by Global Exploration and Partners for Possibility.

Learners expressed that they had been surprised by the level of non-motorised transport in the Netherlands. They were inspired by the infrastructure and expressed their interest in engaging in projects which improve the infrastructure in the Bonteheuwel community. They further expressed that travelling internationally and interacting with students from a different country had broadened their mindset to opportunities outside of their own country.

Key points for action:

Connecting existing German and Dutch school partners with Bonteheuwel High School to create a triangular partnership.



Africa Unite

The Education delegation met with Africa Unite Director, **Zoe Nkongolo**, school club coordinator, **Bongeka Gumede** and learners and alumni of the Africa Unite School Club Programme. Africa Unite is a human rights and youth empowerment non-governmental organisation that works with citizens, refugees and migrants to prevent conflict, enhance social cohesion and promote socio-economic development. The organisation has a number of school clubs containing different 'ministries', each focusing on different aspects within the school. Africa Unite also has an intern exchange programme connecting people from different nations. Africa Unite currently runs seven school clubs in the Western Cape and eleven school clubs in total

Key points for action:

Facilitate a partnership between Africa Unite and Aachen to assist with increasing the capacity to roll-out school programmes.



SANCCOB Seabird Hospital

As a personal request by Lord Mayor Marcel Philipp, the delegation visited the new SANCCOB Seabird hospital in Tableview. **Katta Ludynia**, Research Manager, and **Stephen van der Spuy**, Executive Director, gave the group a tour of the new facilities.

The Aachen Zoo and SANCCOB have a close relationship and Aachen Zoo continues to support SANCCOB with fundraising for penguin conservation in Cape Town. **Lord Mayor Marcel Philipp** presented a special gift, the 'Aachener Printen Penguin', and a donation to SANCCOB.

Key points for action:

Ensure that SANCCOB has off-grid electricity capacity for the new hospital facility.

Wednesday 13 March 2019



Langa Tour: Arts, Culture and Urban Farming

The Political and Education delegations joined up to experience the Langa Culture Heritage Precinct for the morning. **Lindie Buirski**, Head of Environmental Capacity Building, welcomed the group to Langa and introduced **Tony Elvin** and his team from Ikhaya Le Langa, a non-profit organisation creating local opportunities for business in Langa.

The first stop was the Langa Pass Museum, a historic space memorialising the pass laws of the apartheid era. The delegates were able to observe the realities of the pass laws through a court re-enactment with local actors and participants in the museum.

The next stop on the walking tour was Guga S'thebe Arts and Culture Centre, a public space where communities can come together and enjoy art, design and performance. Guga S'thebe has significant links to

the Cape Town-Aachen Partnership as the theatre was designed as part of a collaboration with RWTH Aachen School of Architecture, PBSA Düsseldorf School of Architecture, and the Georgia Institute of Technology, School of Architecture.

The group walked out of the Culture Heritage Precinct and into the residential area of Langa. Here, they viewed the historic migrant worker barracks, which will be redeveloped and

repurposed in future. Tony also showed the delegates the Langa 'Hotel', a group of AirBnb homestays.

Mokone Primary School was the next stop on the walking tour. **Velile Maxwell Dingaan**, Assistant Environmental Education Officer, introduced the delegates to Orange, a local farmer at the school site. Although the farm struggles with water and resources, Orange is passionate about teaching the children about agriculture and farming.

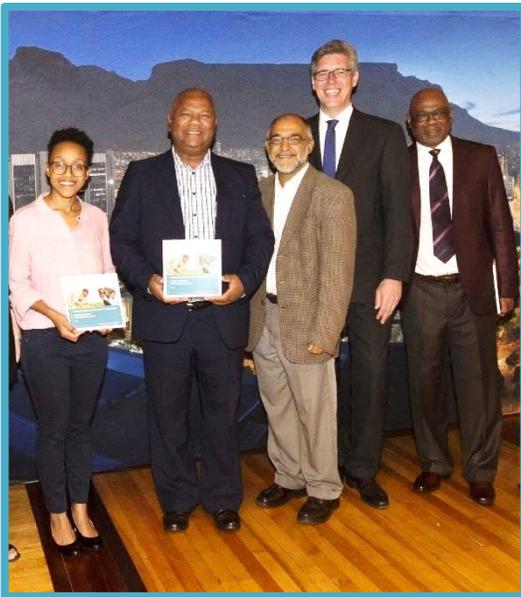
The last stop for the morning was Ikhaya Le Langa, where **Tony Elvin** spoke about the vision for the Langa Quarter and his dream to empower the local economy in Langa through tourism and hospitality.

Key points for action:

Initiate a student project to design of the barracks in Langa;

Consider Langa to play an important part in a future exchange focused on Arts and Culture, with both city-city and civil society delegates, including links between the Zeitz MOCAA and the Ludwig Forum for International Art in Aachen;

Revitalise the musical instrument exchange project between Aachen and Cape Town.



Launch of the Mayor's Portfolio of Urban Sustainability

The Political delegation was invited to join the launch of the Mayor's Portfolio of Urban Sustainability (MAPS) 2018 edition, a key implementation tool of the City of Cape Town's Environmental Strategy. In addition to celebrating MAPS, the launch intended to recognise and acknowledge the efforts of project managers in their work towards building a sustainable city. **Muofhe Pedzai**, Project coordinator for MAPS in the presented on the history and process of developing the publication.

Executive Mayor Dan Plato provided the keynote address, highlighting the role of the Cape Town-Aachen Partnership in providing the opportunity to learn from one another, become more innovative, and mainstream sustainability best practice to improve the

design, implementation and management of projects and programmes.

Lord Mayor Marcel Philipp reflected on the importance of mainstreaming sustainability thinking and collaboration in both cities through mutual learning and progress. He was enthusiastic to learn more about the MAPS programme, and to take up the challenge of having a Mayor's Portfolio in Aachen.

Ashley Hemraj, Senior Architect for Urban Integration, and **Julia Wood**, Manager of the Biodiversity Management branch, both presented on their successful projects which were profiled in the MAPS 2018 edition.

Key points for action:

Prepare a combined Cape Town-Aachen SDG-based Mayor's Portfolio to show how the cities are mainstreaming sustainability.



Sustainable Cities Session

A number of officials and external partners joined this session to discuss the challenges and opportunities for sustainability that exist in both cities. The aim of the session was to showcase examples of how Cape Town and Aachen are implementing sustainable development, and how they might collaborate in the future to become more resilient and innovative.

Gareth Morgan, Director of Resilience, outlined the development of the Resilience Plan for Cape Town. Through the resilience lens, Gareth highlighted some of the key challenges and lessons from the drought, demonstrating how these could strengthen Cape Town's resilience.

Nigel Titus, Manager of Urban Planning and Mechanisms, presented on the Eco District model, which is a protocol and certification programme to

guide city makers to take a collaborative, holistic, neighbourhood-scale approach to community design. The model is based on the principles of equity, resilience and climate protection. The City is in the process of testing this model in Woodstock and Salt River, with the aim of creating more well-located affordable housing; combating gentrification; and developing high density mixed-income spaces.

Teuns Kok, Senior Professional Officer in the Integrated Transport Portfolio, gave insights on the initiatives and vision for sustainable transport in Cape Town. This included a broad overview of the City's Comprehensive Integrated Transport Plan (CITP), Travel Demand Management (TDM) Strategy, MyCiTi Bus Services, Cycling Strategy, City-wide NMT Programme and Transit Orientated Development (TOD) Strategic Framework.

Rebecca Campbell, Acting Managing Director of Open Streets Cape Town, provided an overview of the Open Streets initiative, which is a catalyst for more inclusive public space and mobility. Open Streets is a citizen-driven initiative challenging the paradigm of urban mobility by carrying out campaigns, temporary interventions, dialogues and walks that raise citizen awareness, spark public debate, and ultimately drive behaviour-change around the role of streets in the life of the city.

Kristine Hess-Akens, Head of the Electromobility group in Sustainable Urban Mobility Planning (SUMP) at the City of Aachen, introduced the context of Aachen, and the sustainable mobility initiatives being implemented within the city. With strong support from the local government and industry, the City of Aachen has been promoting and rolling out low-carbon, multi and intermodal transport schemes, including walking and cycling, electric vehicles and electric bicycles, and car-sharing schemes. The City of Aachen has also implemented the use of a single card for all diverse modes of transport in the city. These programmes have been successful as they have been embedded and tested within the municipality, and have been linked to the broader context of strategic planning, including charging infrastructure, clean air plans and renewable energy targets.

Veronika Stuetzel, Lecturer in Town Development and Landscape Architecture at RWTH University Aachen, spoke on urban greening and climate adaptation in Aachen, and provided an overview of the geography of Aachen and the City's '2030 Masterplan'. The masterplan highlights the need to enhance the 'green fingers' of Aachen and the waterways, which have historically been covered. Veronika is planning a project for her students to research the premium pedestrian ways that are following the green finger system.

Key points for action:

Transfer lessons from Aachen's intermodal, multimodal and last-mile approach to transport planning to Cape Town, with a focus on e-mobility, non-motorised transport, and the use of a single ticketing system for all modes of transport;

Consider ways to connect Cape Town and Aachen around greening and climate change agendas, notably that of responding to heat stress;

Link Aachen to the methodology and production of Cape Town's Resilience Plan;

Consider Aachen's interest in Open Streets and the potential for a joint Cape Town-Aachen Open Streets Day.



GreenCape Sector Presentations

The Economy and Science delegation started the day at GreenCape, where they were introduced to a number of innovative programmes and businesses working in the green economy. **Jarrod Lyons**, Green Economy Investment and Finance Liaison, and analyst, **Aman Baboolal**, welcomed the delegation to the GreenCape offices. GreenCape is a non-profit organisation that drives the widespread adoption of economically viable green economy solutions from the Western Cape. They work with businesses, investors, academia and government to help unlock the investment and employment potential of green technologies and services, and to support a transition to a resilient green economy, focusing on renewable energy, waste economy, industrial symbiosis and resource efficiency.

Jason Mingo, Task Manager for Ecological Infrastructure and Remediation at the Western Cape Government Environmental Affairs and Development Planning Department, provided an overview of the Water Hub. As a training and development centre, the Water Hub seeks to illustrate the business case for healthy, affordable water which builds a regenerative water economy while also creating opportunities for foreign direct investment to enter the local water market.

Liam Kelly, Sun Exchange Marketing Lead, presented on the Sun Exchange programme, a platform which allows anyone to buy and lease out solar panels. Its aim is to make solar power more accessible, affordable and widespread and thus contribute to the transition of a cleaner global energy economy.

Gareth Pritchard, CEO at Business Process Enabling South Africa (BPESA), highlighted South Africa's growth in the Business Process Outsourcing industry. With job creation as its key mandate, BPESA operates both as a specialist investment promotion agency for business process outsourcing and as a national trade association and networking body for the industry.

Lindsay Griffin, Head of Business Enablement at Aeorbotics, explained the concept of the Aerobotics system, which is an early pest and disease detection system based on drone imagery and artificial intelligence. They use regular satellite imagery and drone flights to monitor crops and offer a mobile application for more targeted planning, management and monitoring of farm systems.

Key points for action:

Involve GreenCape in planning a green technology and waste minimization delegation from Cape Town in Aachen as part of Mayor Plato's high level delegation visit later in the year.

Link the work of the Water Hub to the City of Cape Town's development of a green infrastructure plan and work on urban greening and climate change in Aachen.



Cape Peninsula University of Technology Technology Transfer Office

The Economy and Science delegation visited to Cape Peninsula University of Technology (CPUT) where **Dr. Revel Iyer**, Director of Technology Transfer and Industry Linkages, introduced the Technology Transfer Office (TTO). The office aims to facilitate, protect and enhance the transfer of Intellectual Property rights from CPUT to the business sector to enhance commercialisation for the upliftment of South Africa. The TTO supports job creation, innovation, improved infrastructure and enterprise growth.

Prof. Dr. **Eva-Maria Jakobs** provided a presentation on RWTH Aachen University and their interdisciplinary programmes in Technical Communication. **Andera Gadeib**, CEO of Dialego AG, discussed the business case for technology transfer. She emphasised the value

of customer centricity, highlighting that companies must involve their customers in order to have more market success.

Daniela Prochnau, assistant to the rector of FH Aachen University of Applied Sciences, gave the final presentation of the day, focusing on Technology Transfer. FH Aachen's Department of Innovation Transfer supports exchanges between business and science and provides advice and support with subsidies and application processes.

The presentations were followed by a tour of the campus and the Advanced Manufacturing Technology Transfer Station. A highlight was the Formula One racing cars which Mechanical Engineering students had built to compete in international races.

Key points for action:

Plan additional summer school programmes and funded university exchanges;

Initiate school girls' competition to solve a technical challenge with teams in Cape Town and Aachen. Winning teams to have an exchange. Possibly could be combined with an internship opportunity;

Investigate how to 'develop a city of science' in Cape Town and how to use universities to develop the city as a technical city. Link the City's CHEC Coordinator to the Aachen Partnership for this purpose.

Meetings with South African Universities

In addition to the more general engagement with CPUT, three meetings took place between members of the Economy and Science delegation and South African universities. These meetings focused on the potential for collaboration between FH Aachen's Robotics Department and the counterpart departments at the University of KwaZulu Natal, the University of Stellenbosch and the University of Cape Town.

The meetings followed the following format:

- A presentation by FH Aachen on its robotics work
- A presentation by the tertiary institution
- Discussion on areas of collaboration

The post-presentation discussion focused on how to build on the existing partnership that FH Aachen currently has with the Tshwane University of Technology, and the Robotics Summer School that takes place annually in South Africa that is convened by FH Aachen. The general sentiment was expressed at all three meetings that there was significant scope for student exchange, and project and research co-operation.

Key points for action:

Convene a meeting/colloquium/partnership seminar in Cape Town in the second half of 2019 to develop a detailed programme of co-operation with FH Aachen;

Start a student exchange between the FH Aachen and their counterpart programmes in South African universities.



Phoenix High School

The Education delegation arrived at Phoenix High School and was taken on a tour of the school by **Roger Brown**, Special Education Teacher, visiting classrooms, the computer lab and the garden built during a previous Cape Town-Aachen exchange. The delegation then met with acting principal, **Jeremy Ontong**.

Key points for action:

Revive the existing Partnership links to Phoenix High School, potentially including the Dream Factory Foundation.



Edith Stephens Wetland Park

The Education delegation stopped for lunch at Edith Stephens Wetland Park, a space with natural flora and fauna on the Cape Flats. The delegation was joined by **Jeremy Ontong**, two members of the Dream Factory Foundation team and two teachers from Soneike High School.

The group networked over local cuisine consisting of *pap*, *samp* and beans, chicken, meat and vegetables. At the end of lunch, the group was visited by the Wetland Park's pet snake, Corn Flake.



Luhlaza High School

The Education delegation arrived at Luhlaza High School in Khayelitsha and met with the acting principal, **Tita Booi**, to discuss the decorum, functional and operational activities of the school. Luhlaza High School is equally academically-driven and sports-oriented. The school is currently participating in a programme funded by Investec to improve math and science grades amongst learners, in order to assist them in getting into university.

Key points for action:

Action the initial partnership ideas, including communication between learners from Cape Town and Aachen via a social platform such as eTwinning or Skype;

Planning the teachers exchange and preparations for an exchange of learners in 2020.

Thursday 14 March 2019



Chapman's Peak, SANCCOB and Burgher's Walk Penguins

The full delegation had an early start to the day with a trip along the Atlantic coast and Chapman's Peak Drive. Two panoramic stops enabled the group to take in the scenery and snap some photographs. From there they travelled over the peninsula to Seaforth Beach in Simon's Town to meet the penguin colony and the Penguin Monitors.

Jon Monsoon, Director of Shark Warrior Adventure Centre, warmly welcomed the delegation to the facility and gave an overview of the conservation efforts and activities undertaken at the centre.

Katta Ludynia, SANCCOB Research Manager, **Mashudu Mashau**, Coastal Management Site Coordinator for Simon's Town, and **Arne Purves**, Environmental Compliance Officer, presented the

Simon's Town Penguin Management Project. This collaboration between the City of Cape Town, SANCCOB and CTEET supports the protection of the penguin colony and creates opportunities for skills development and employment through the Penguin Monitor programme. Following the discussion, **Lord Mayor Marcel Philipp** presented the Penguin Monitor team with gifts from the Aachen Zoo. In return, Jon gave the Lord Mayor a pair of special penguin socks.

The group then had the opportunity to walk along the boardwalk past Boulder's Beach and onto Burgher's Walk. Here they were able to see some of the penguins up close and enjoy the magnificent view of False Bay. **Simon Liell-Cock**, Local Ward Councillor, and **Patricia Francke**, Subcouncil Chairperson, met the group and joined for the walk. After lunch at Boulder's Restaurant, the group parted ways to Cape Point Nature Reserve and the Partnering session to be held at EDP.

Key points for action:

Develop a children's book on penguins to raise funds and awareness around conservation and the SDGs.

Create beaded Partnership penguins to be sold in Aachen to raise funds for penguin conservation in Cape Town.



Partnering Session with the Western Cape Economic Development Partnership

In order to begin applying partnering principles to the Cape Town-Aachen Partnership, a session was facilitated by **Andrew Boraine** and **Gill Cullinan** from EDP with key Partnership stakeholders. This session was also held to provide context and content for the City of Cape Town's upcoming Partnering for Urban Sustainability Think Tank, which would draw on lessons from the Partnership.

The session began with reflections on the week thus far. The group identified a number of highlights, including: the personal relationships being developed, the emergent nature of the Partnership, the strong sustainability agenda of Cape Town, and the support from political leaders during the week.

Andrew provided an overview of the upcoming Think Tank in order to frame the session's discussions and then the group gathered around the twenty-year timeline produced by the Aachen Partnership Association. During the week, participants had the opportunity to add projects missing from the timeline and provide input on future points of collaboration. **Veronika Stuetzel** and **Dorothea Ernst** provided an explanation of the timeline and the historic nature of the Partnership. They emphasised the value of the timeline in terms of creating a collective memory in order to leave a tangible legacy for younger generations to continue building upon.

From there, Andrew elaborated on the partnering approach and the need to navigate the authorising environment in order to continue growing the Partnership. He noted that in such a complex partnership with numerous stakeholders and levels, it is important to start small, connect and influence the right people, and allow interventions to grow. Andrew also encouraged the Partnership representatives to consider EDP's 'Whole of Society Approach' as they look to the Partnership in the future.

Gill introduced the "what?", "so what?", "now what?" activity, to define the realities, vision and actions for the Partnership. For each question, the group was asked to express how they identify with the Partnership in relation to the question.



Farewell Dinner

To celebrate a successful week, the Aachen delegation was joined by City of Cape Town officials and civil society representatives for a night of dining and dancing, enhanced by good South African wines generously facilitated by **Dieter Begaß** and sponsored by the City of Aachen.

Executive Mayor Dan Plato, accompanied by **Alderman James Vos** and **Alderman Marian Nieuwoudt**, welcomed the guests for the evening. **Lord Mayor Marcel Philipp** briefly addressed the guests and thanked the Cape Town representatives for the successful week. The night was filled with great food, African Jazz music and dancing, and fond memories to add to the legacy of the Partnership.

The dinner was held at Lapo's Kitchen, an intimate venue situated at the Josephine Mill on the Liesbeek River. **Chef Lapo Magni** prepared a sustainably-minded and ethically-sourced meal with a South African flair, and passionately explained how each meal was created. The guests were treated to live music from fellow City official, **Duke Gumede**, and his band **Mabongi Thusi and The Oak**.

Friday 15 March 2019



Table Mountain Cableway

The last day of the exchange week started with a trip up Table Mountain. The delegation was up early to catch the first cable car up Table Mountain.

The uncertainty of Cape Town weather which had disrupted proceedings for the preceding days had finally relented and provided the perfect day to experience Table Mountain and the panoramic views over the city.



Mayor to Mayor Courtesy Call

Executive Mayor Dan Plato invited **Lord Mayor Marcel Philipp** and other key representatives to a courtesy call. **Alderman James Vos, Alderman Marian Nieuwoudt, Peter Blum, Susanne Schwier, Kristine Hess-Akens, Sven Pennings, Lance Greyling, Lorraine Gerrans, Stephen Granger, Reagan Mathys and Marina Reyskens** were all present.

Executive Mayor Dan Plato expressed his pleasure at having been able to spend some time with the Aachen delegation and at the strength of the Partnership which he hoped would continue to grow. He believed that the City of Cape Town should provide the resources necessary in order to ensure the sustainability of the Partnership. He undertook, as a priority, to facilitate a high level delegation to Germany to focus in particular, on solid waste, and

the green economy.

Alderman Marian Nieuwoudt also expressed her enthusiasm for the energy and productivity of the Partnership. She expressed: "this has been one of the highlights of my political career. People of Aachen don't hold back, they share. I've never experienced such natural warmth like this in any group relationship."

Alderman James Vos recalled the origins of the Partnership from his days as a councillor at the City of Tygerberg. He praised Aachen as a globally competitive city which has shown best practice in a number of areas. "The Mayor has promised we will visit you soon and follow up on a number of areas from this week, including renewables, green technology and waste, linked to the Atlantis SEZ."

Stephen Granger recognised that, in keeping with its historical legacy, the Partnership operates on a number of levels including City to City, business, academic, and civil society. He expressed his belief that the success of the Partnership could be attributed to the strength of the relationships between individuals in the cities.

Lance Greyling noted the success and value of expanding the Cape Town-Aachen Partnership from just the Environmental Department to include other sectors in the City, such as economy and science.

Lord Mayor Marcel Philipp asked where the Partnership wanted to be in five years. He highlighted the need to identify this in order to ensure it received the necessary resources to work towards this goal. He noted that many new ideas had emerged on their visit and that a clear challenge for Aachen was to involve more and more people in the Partnership, using the zoo-keeper at the Aachen Zoo, who supports penguin conservation, as an example.

Alderman Nieuwoudt and Mayor Plato presented book gifts to the Lord Mayor, and presented the Aachen guests with bottles of organic wine from D'Aria wine estate. The Lord Mayor

reciprocated by awarding Mayor Plato a printen penguin. Mayor Plato closed the session by wishing the Aachen delegates a safe journey and hoped that many would return soon with family and friends to enjoy Cape Town's warm hospitality.

Key points for action:

Plan a cultural exchange involving Cape Town ballet school and the Philharmonic Orchestra;

Facilitate knowledge sharing from "IT Connect" with Cape Town learning from Aachen about digitisation;

Learning from Aachen about new technology through Aachen's re-skilling of their former textile industry, seamstresses and tailors, using their sewing skills to create a dentistry and orthodontic application;

Enable Cape Town to contribute to the Aachen equestrian show and Aachen to participate in Suid-Ooster Fees as a showcase for Cape Town culture to which Aachen could participate;

Look to writing a book marking the successful 20-year Partnership.



Closing Session

Andrew Borraine from EDP facilitated the closing session for the week. The aim of this session was to capture ideas and actions that individuals would like to take forward.

Andrew highlighted the importance of identifying the next steps and asked the delegation to list what they would like to take forward or see taken forward by others in the Partnership in the short or long term. From this session, thirty-one action points were listed (*outlined in the table on pg. 37*).



Khayelitsha Bandwidth Barn

Fezeka Mavuso, Business Development Officer at the Cape Innovation and Technology Initiative (CiTi), welcomed the delegation to the Khayelitsha Bandwidth Barn. During the week, the Economy and Science delegation had experienced the Woodstock Bandwidth Barn which is the central city equivalent. Fezeka discussed the programmes and successes of the Barn alongside **Ayanda Siboto**, Marketing Manager at CiTi. As South Africa's only township-based tech hub, the Khayelitsha Bandwidth Barn is a key enabler of inclusive innovation, supporting entrepreneurs and organisations creating products and services for township economies. The programmes at the Khayelitsha Bandwidth Barn focus on people and small businesses that do not easily have access to financial assistance or social capital, supporting them in developing tech and business skills.

Ayanda Cuba from ABCD Concepts enlightened the delegation on their lifestyle marketing tourism start-up based in the heart of Khayelitsha. ABCD's mission is to represent the cultural experiences in Khayelitsha, while fostering a learning opportunity for people and businesses within local communities through physical activity.



Abalimi Bezekhaya

A number of Aachen delegates visited one of the Abalimi gardens in Khayelitsha to learn more about the initiative from the knowledgeable **Liziwe Stofile**. Abalimi Bezekhaya is a non-profit micro-farming organisation which aims to provide basic human necessities for economically marginalised communities in the Cape Flats. Abalimi empowers individuals to establish and maintain their own vegetable gardens, enabling communities to lead more sustainable and dignified lives.

Abalimi is one of the oldest partners in the Cape Town-Aachen Partnership and has historically been supported by the Partnership in part by the Climate Ticket programme. This initiative aims to offset carbon emissions of airplane flights through channeling funds into local urban farms.

Key points for action:

Plan to review and redevelop the Cape Town Climate Ticket programme through the Partnership.



4Roomed eKasi Culture and Golden Flowers

The final lunch was held at 4Roomed eKasi Culture, in the heart of Khayelitsha, where the delegation shared memories from the week over a local gourmet feast.

Norbert Kuntz and **Veronika Stuetzel**, historic members of the Partnership, informally spoke on the successes of the Partnership and the ways in which it brings diverse people together, including the hosting by an Aachen volunteer of a workshop to bring small-scale farmers of Khayelitsha together.

Tiffany Chalmers thanked the delegation for a successful week and introduced the special guests **Namhla** and **Lona Nongauza**, the daughters of Golden Nongauza. Golden Flowers are a legacy project from the Partnership. Golden produces flowers made from recycled cans, which have been historically distributed

through the Partnership. Namhla and Lona continue this legacy in Khayelitsha and market, sell and distribute these flowers, which Golden Manufactures in the Eastern Cape where he resides. Namhla and Lona presented the delegation with a flower and a book illustrating the legacy of Golden's flowers.

Key points for action:

Continue distributing Golden's flowers through the Partnership.

3. Emergent Next Steps and Points of Collaboration

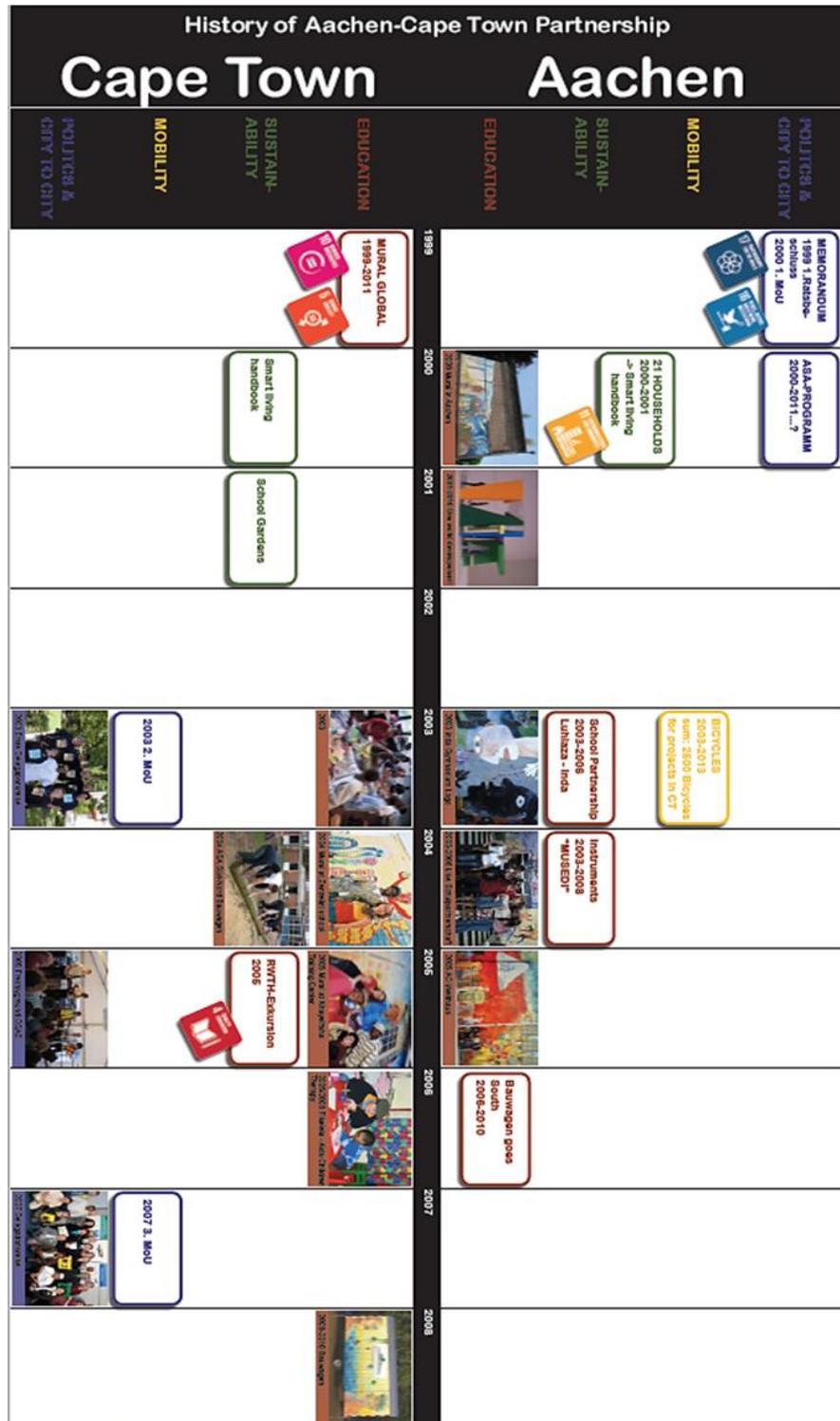
During the week, participants identified key projects and ideas they would like to take forward with counterparts from Cape Town and Aachen. The following table captures the action points and suggestions made within key themes. Many of the ideas emerged from the closing session, whilst others were noted during the other engagements.

Theme	Project/idea	Suggested by	Possible counterpart
Arts and culture	Plan a heritage and memorialisation exchange with potential to connect interfaith organisations from Aachen and Cape Town.	Lorraine Gerrans	Kristine Hess-Akens
	Initiate a student project to design of the barracks in Langa.	Lorraine Gerrans	Nika Stuetzel
	Connect the Zeitz MOCAA Museum with the Aachen Ludwig Forum.	Ina-Marie Orawiec	
	Plan a sports and cultural exchange involving Cape Town ballet school and the Philharmonic Orchestra.	Executive Mayor Dan Plato	
	Enable Cape Town to contribute to the Aachen equestrian show and Aachen to participate in Suid-Ooster Fees as a showcase for Cape Town culture to which Aachen could participate.	Alderman Marian Nieuwoudt	
	Continue distributing Golden's flowers through the Cape Town-Aachen Partnership.	Stephen Granger	Norbert Kuntz
Business	Working with two companies in Germany who are looking to develop into Cape Town markets.	Sven Pennings	Tim Hadingham
Governance	Plan and host further events in celebration of the Partnership's twentieth year.	Stephen Granger	Kristine Hess-Akens
	Prepare a combined Cape Town-Aachen SDG-based Mayor's Portfolio to show how the cities are mainstreaming sustainability.	Muofhe Pedzai	
	Look to writing a book marking the successful 20-year Partnership.	Stephen Granger	Norbert Kuntz
	HR exchange	Sven Pennings	
	Develop an approach to show how Cape Town and Aachen partner with governments and civil society.	Kristine Hess-Akens	
Mobility	Encourage mutual learning to create lower-carbon, more bicycle and pedestrian-friendly cities by sharing mode-share goals and actions.	Kristine Hess-Akens	Leigh Stolworthy
	Pilot an EU solar mobility project in Philippi for electric street scooters to collect and distribute fresh produce in the area.	Kristine Hess-Akens	Thomas Swana
	Transfer lessons from Aachen's intermodal, multimodal and last-mile approach to transport	Kristine Hess-Akens	Leigh Stolworthy

	planning to Cape Town, with a focus on e-mobility, non-motorised transport, and the use of a single ticketing system for all modes of transport.		
	Consider Aachen's interest in Open Streets and the potential for a joint Cape Town-Aachen Open Streets Day.	Rebecca Campbell	Kristine Hess-Akens
Penguin conservation	Ensure that SANCCOB has off-grid electricity capacity for the new hospital facility.	Andera Gadieb	Stephen Van der Spuy
	Develop a children's book on penguins and sustainability to raise funds awareness around conservation and the SDGs.	Dorothea Ernst	Stephen Van der Spuy
	Create beaded Partnership penguins to be sold in Aachen to raise funds for penguin conservation in Cape Town.	Dorothea Ernst	Stephen Van der Spuy
School and University exchange	Connecting existing German and Dutch school partners with Bonteheuvel High School to create a triangular partnership.	Norbert Kuntz	Nicola Pather
	Investigate a potential partnership between pupils from Good Hope Seminary School and a High School from Aachen.	Norbert Kuntz	Adrienne Milner
	Connect students from different backgrounds (Cape Town and Aachen) to share their views and life experiences via a social platform such as eTwinning or Skype.	Norbert Kuntz	Lusanda Maqwape
	Revitalise the musical instrument exchange project between Aachen and Cape Town.	Norbert Kuntz	
	Revive the existing Partnership links to Phoenix High School - potentially including the Dream Factory Foundation as they are already in partnership with Phoenix High School.	Norbert Kuntz	Jeremy Ontong
	Planning the teachers exchange and preparations for an exchange of learners in 2020.	Norbert Kuntz	Tita Booï
	FH Aachen will convene a meeting/colloquium/partnership seminar in Cape Town in the second half of 2019 that will aim to develop a detailed programme of co-operation.	Stephan Kallweit	
Science and technology	Support CTEET with digital education to connect students to new skills and ways of learning.	Andera Gadieb	Anthony Roberts
	Consider and plan a conference on modern robotics in the Cape Town and Aachen in July 2019.	Stephan Kallweit	
	Explore the potential for a robotics summer school in Cape Town, linked to the already	Stephan Kallweit	

	existing exchange with FH Aachen and Tshwane University of Technology.		
	Create a collaborative project on 'smart materials' between Cape Town and Aachen.	Eva-Maria Jakobs	George Newton
	Initiate school girls' competition to solve a technical challenge with teams in Cape Town and Aachen. Winning teams to have an exchange. Possibly could be combined with an internship opportunity.	Andera Gabieb	
	Investigate how to 'develop a city of science' in Cape Town and how to use universities to develop the city as a technical city. Link the City's CHEC Coordinator to the Aachen Partnership for this purpose.	Sven Pennings	Lance Greyling
	Facilitate knowledge sharing from "IT Connect" with Cape Town learning from Aachen about digitisation.	Alderman Marian Nieuwoudt	
	Learning from Aachen about new technology through Aachen's re-skilling of their former textile industry, seamstresses and tailors, using their sewing skills to create a dentistry and orthodontic application.	Alderman Marian Nieuwoudt	
	Coordinate a high level delegation from Cape Town visiting Germany and Aachen focusing particularly on waste and green technology.	Executive Mayor Dan Plato	Jarrod Lyons
Urban greening	Replicate the OZCF model combining food gardening and public space in Aachen.	Eva-Maria Jakobs	Kurt Ackerman
	Initiate a study to test and define the matrix for urban farming and social gardening through the universities in both cities.	Kurt Ackerman	Nika Stuetzel
	Explore and institutionalise the concept of urban food hubs.	Eva-Maria Jakobs	Kurt Ackerman
	Design and fund a new environmental education centre at Westridge Gardens in the Cape Flats using green building techniques.	Lorraine Gerrans	
	Develop a practical vision and design for the reclamation of the Dunoon Quarry, with links to urban agriculture and waste management.	Liesel Kruger-Fountain	Nika Stuetzel
	Consider ways to connect Cape Town and Aachen around greening and climate change agendas, notably that of responding to heat stress.	Nika Stuetzel	Amy Davison
	Link Aachen to the methodology and production of Cape Town's Resilience Plan.	Stephen Granger	Nika Stuetzel
	Plan to review and redevelop the Climate Ticket programme through the Cape Town-Aachen Partnership.	Nika Stuetzel	

4. Aachen Partnership Association 20-year Timeline of the Cape Town-Aachen Partnership



5. Programme Participants and Contact Details

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