



Business Papers

Environment & Infrastructure Committee Meeting

**Tuesday, 21 March 2017
5.00pm**



Notice of Meeting

To the Lord Mayor and Aldermen

You are invited to attend an Environment & Infrastructure Committee Meeting to be held in Meeting Room 1, Level 1, Civic Centre, Harry Chan Avenue, Darwin, on Tuesday, 21 March 2017, commencing at 5.00pm.

A handwritten signature in blue ink, appearing to read 'Anna Malgorzewicz', is positioned above the printed name.

A MALGORZEWICZ
ACTING CHIEF EXECUTIVE OFFICER

Environment & Infrastructure Committee Meeting Tuesday, 21 March 2017 5.00pm

Guests

From 5.00pm

Caroline Lambert, Climate Change & Environment Section, Delegation of the European Union to Australia, will be in attendance from 5.00pm to brief the Committee on Opportunities of Cooperation with the European Union in Sustainable Urban Development at the Open Section of the Meeting.

OPEN SECTION

E&I03/4

CITY OF DARWIN

ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING

TUESDAY, 21 MARCH 2017

MEMBERS: Member G A Lambert (Chair); The Right Worshipful, The Lord Mayor, Katrina Fong Lim; Member R K Elix; Member R Want de Rowe; Member E L Young.

OFFICERS: Chief Executive Officer, Mr B Dowd; General Manager Infrastructure, Mr L Cercarelli; Executive Manager, Mr M Blackburn; Manager Technical Services, Mrs N Nilon; Manager Design, Planning & Projects, Mr D Lelekis; Manager Infrastructure Maintenance, Mr K Smith; Manager Capital Works, Mr N Kleine; Manager Climate Change & Environment, Ms B Rankmore; Executive Assistant, Ms T Zerek.

GUESTS: Caroline Lambert, Climate Change & Environment Section, Delegation of the European Union to Australia, will be in attendance from 5.00pm to brief the Committee on Opportunities of Cooperation with the European Union in Sustainable Urban Development at the Open Section of the Meeting.

Enquiries and/or Apologies: Tanya Zerek

E-mail: t.zerek@darwin.nt.gov.au - PH: 89300 581

OR Phone Committee Room 1, for Late Apologies - PH: 89300 519

Committee's Responsibilities

- | | |
|-----------------------------------|--|
| • Asset Management | • Infrastructure Projects |
| • Building Services | • Infrastructure Maintenance |
| • Cemeteries | • Design |
| • Mosquito control | • Planning |
| • Operations | • Road Construction and Traffic Management |
| • Parks & Reserves | • Urban Enhancement |
| • Pathways | • Climate Change and Environment |
| • Road maintenance | • Waste Management |
| • Sporting Areas | • Outdoor Dining |
| • Stormwater Drainage Maintenance | • Signage |
| • Street Cleaning | |
| • Urban Forest Management | |

THAT effective as of 16 April 2012 Council, pursuant to Section 32 (2)(b) of the Local Government Act 2008, hereby delegates to the Environment & Infrastructure Committee the power to make recommendations to Council and decisions relating to Environment & Infrastructure matters within the approved budget.

OPEN SECTION

E&I03/5

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OPEN SECTION

E&I03/7

Environment & Infrastructure Committee Meeting – Tuesday, 21 March 2017

1. MEETING DECLARED OPEN

2. APOLOGIES AND LEAVE OF ABSENCE

Common No. 2695036

2.1 Apologies

2.2 Leave of Absence Granted

3. ELECTRONIC MEETING ATTENDANCE

Common No. 2221528

3.1 Electronic Meeting Attendance Granted

4. DECLARATION OF INTEREST OF MEMBERS AND STAFF

4.1 Declaration of Interest by Members

Common No. 2752228

4.2 Declaration of Interest by Staff

Common No. 2752228

5. CONFIDENTIAL ITEMS

Common No. 1944604

6. WITHDRAWAL OF ITEMS FOR DISCUSSION

()

COMMITTEE'S DECISION

THAT the Committee resolve under delegated authority that all Information Items and Officers Reports to the Environment & Infrastructure Committee Meeting held on Tuesday, 21 March 2017 be received and considered individually.

DECISION NO.21\()

(21/03/17)

OPEN SECTION

E&I03/8

Environment & Infrastructure Committee Meeting – Tuesday, 21 March 2017

7. **CONFIRMATION OF MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING**

() COMMITTEE'S DECISION

THAT the Committee resolve that the minutes of the previous Environment & Infrastructure Committee Meeting held on Tuesday, 21 February 2017, tabled by the Chair, be received and confirmed as a true and correct record of the proceedings of that meeting.

DECISION NO.21\() (21/03/17)

8. **BUSINESS ARISING FROM THE MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING**

8.1 **Business Arising**

9. **DEPUTATIONS AND BRIEFINGS**

9.1 **Opportunities of Cooperation with the European Union in Sustainable Urban Development** Common No. 3479655

Caroline Lambert, Climate Change & Environment Section, Delegation of the European Union to Australia, was in attendance from 5.00pm to brief the Committee on Opportunities of Cooperation with the European Union in Sustainable Urban Development.

() COMMITTEE'S DECISION

THAT the presentation from the Delegation of the European Union to Australia, in relation to the Opportunities of Cooperation with the European Union in Sustainable Urban Development, be received and noted.

DECISION NO.21\() (21/03/17)

OPEN SECTION

E&I03/9

Environment & Infrastructure Committee Meeting – Tuesday, 21 March 2017

10.1 OFFICERS REPORTS (ACTION REQUIRED)

**ENCL: ENVIRONMENT & INFRASTRUCTURE
YES COMMITTEE/OPEN**

AGENDA ITEM: 10.1.1

DARWIN BIKE PLAN UPDATE

REPORT No.: 17TS0007 DL:lf

COMMON No.: 3184808

DATE: 21/03/2017

Presenter: Manager Design, Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide an update regarding the Darwin Bike Plan and to propose a project for the use of the \$108,791 in identified savings carried forward from the 2015/2016 Shared Paths Program.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.1 Improved access and connectivity

Key Strategies

2.1.1 Improve the pathway and cycle networks and encourage cycling and walking

KEY ISSUES

- The original Darwin Bike Plan was adopted in May 2015 and delivery of elements commenced in 2015/2016.
- An amount of \$108,791, being identified savings from infrastructure projects, was carried forward from the 2015/2016 Shared Path program and currently remains unallocated.
- Several options for the use of these carry forward funds within the shared path program have been investigated.
- A revised Darwin Bike Plan was adopted in May 2016 and delivery of the revised 2016/2017 projects has commenced.
- It is recommended that the \$108,791 carried forward funds from the 2015/2016 Shared Paths program be utilised to remove and replace a section of East Point Road shared path.

PAGE: 2
 REPORT NUMBER: 17TS0007 DL:lf
 SUBJECT: DARWIN BIKE PLAN UPDATE

RECOMMENDATIONS

THAT it be a recommendation to Council:

- A. THAT Report Number 17TS0007 DL:lf entitled Darwin Bike Plan Update be received and noted.
- B. THAT Council endorse the use of the \$108,791 carried forward from the 2015/2016 Shared Paths program to remove and replace a section of East Point Road shared path as outlined in Report Number 17TS0007 DL:lf entitled Darwin Bike Plan Update.

BACKGROUND

In May 2015, Council endorsed the Darwin Bike Plan 2015 – 2020 (original Implementation Plan). Delivery of the elements of this Plan commenced in 2015/2016 and the implementation of several infrastructure projects beyond Year 1 of the Plan were brought forward as the result of Council securing grant funding.

The Bike Implementation Plan is reviewed annually. In May 2016, Council endorsed a revised Darwin Bike Plan - Implementation Plan 2016-2021. An update on the status of the delivery of this revised Implementation Plan is provided at **Attachment A** to this report.

An amount of \$108,791 in savings from the 2015/2016 Shared Path program was carried forward.

At the Ordinary Council Meeting of 29 November 2016, Council resolved as follows:

DECISION NO.21\5048 (29/11/16)

Darwin Bike Plan - Revised Implementation Plan 2016 - 2021

Report No. 16TS0156 PH:lf (22/11/16) Common No. 3184808

- A. *THAT Report Number 16TS0156 PH:lf entitled Darwin Bike Plan - Revised Implementation Plan 2016 – 2021, be received and noted.*
- B. *THAT a report come to the Environment & Infrastructure Committee in February 2017 regarding the \$108,791 carry forward identified from the 2015/2016 Shared Paths Program.*

This report assesses options and provides a recommendation for use of the carried forward savings.

PAGE: 3
 REPORT NUMBER: 17TS0007 DL:lf
 SUBJECT: DARWIN BIKE PLAN UPDATE

DISCUSSION

Several bike infrastructure projects have been identified for which the \$108,791 in carried forward savings could be utilised.

The options below were identified after consideration of the current implementation plan and the 2016 footpath and shared path condition survey. The candidate projects would utilise the full value of the saved carry forward.

Option 1 – Renewal of Path on East Point Road - Recommended



East Point Road – Path

In the revised Implementation Plan, there is an allocation of \$48,000 in 2020/2021 to upgrade a section of the shared path along East Point Road. This project was also identified in 2019/2020 of the original Implementation Plan.

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REPORT NUMBER: 17TS0007 DL:lf
SUBJECT: DARWIN BIKE PLAN UPDATE

The 2016 shared path condition survey identified an approximately 620 linear metre section of this shared path as being in poor condition and requiring surface replacement. This section of path is between Atkins Drive and Ross Smith Avenue and has severe cracking and a number of uneven surfaces caused by tree roots and water ponding. The funding provided in the Implementation Plan (in 2020/2021) is insufficient to replace the asphalt surface of the full section of this path.

Unlike the Dick Ward Drive shared path (Option 2), this section of the East Point Road shared path is free of utility service pits and driveways.

The \$108,791 in carried forward funding would allow for the resurfacing of approximately 300 linear metres of the East Point Road asphalt shared path (refer **Attachment B**).

It is recommended that the carried forward funds be utilised to undertake these works. Further works on this path could be undertaken with funding provided in the current Implementation Plan 2020/2021, subject to any further review of this Plan.

Option 2 – Extend Scope of Dick Ward Drive Path Renewal – Not Preferred



Dick Ward Drive – Path

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 REPORT NUMBER: 17TS0007 DL:lf
 SUBJECT: DARWIN BIKE PLAN UPDATE

The revised Implementation Plan currently has an allocation of \$23,865 for renewal of the Dick Ward Drive shared path in 2016/2017.

It was ascertained through the 2016 condition survey of path assets (which is undertaken every four years), that a 250 metre section of the surface of this path, from Orchard Road to approximately 50 metres north of Ostermann Street, is in poor condition, with surface cracking.

The current funding allocation within the Implementation Plan would allow for approximately 50 metres of the asphalt surface of the path to be replaced. The addition of the \$108,791 saved carry forward would allow for the additional 200 linear metres of this path to be replaced (refer **Attachment C**). This includes an allowance for the replacement of seven asphalt driveways (to concrete as per normal practice when reconstructing paths), however not any adjustment of existing services pits, which could be time consuming and requires close liaison with the relevant service authorities.

This section of shared path is in slightly better condition than the East Point Road shared path.

Given the reasons above, this is not the recommended option.

Option 3 - Implement Safety Audit Findings – Not Preferred

Two projects are included in 2016/2017 of the current Implementation Plan to address bicycle crash hotspots along the shared path on Ross Smith Avenue, between East Point Road and Dick Ward Drive and along the Dick Ward Drive shared path, near Progress Drive. Both of these sections of path are key commuter routes for cyclists and also have a high pedestrian usage.

These projects include a safety audit for the Ross Smith Avenue section of shared path and its findings are currently being utilised to develop concept designs and cost estimates for the remedial works identified. A similar study will be undertaken in the coming months to investigate and address bicycle crash hotspots identified in the vicinity of the Dick Ward Drive/Progress Drive intersection, which will also include concept designs and estimates for any works identified.

Given the uncertainty in regard to the scopes of works and cost estimates associated with the above mentioned studies, it is not recommended that the 2015/2016 carried forward savings be used for this purpose. Council may consider allocating funding for the implementation of the works identified in a future review of the Implementation Plan.

Summary

It is recommended that the \$108,791 of carried forward savings from the 2015/2016 Shared Paths program be utilised for the renewal of an approximately 300 linear metre section of East Point Road shared path for the reasons outlined in this report.

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 REPORT NUMBER: 17TS0007 DL:lf
 SUBJECT: DARWIN BIKE PLAN UPDATE

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Civil Engineering Officer
- Assets Officer
- Manager Climate Change and Environment
- Recreation and Healthy Lifestyles Coordinator

POLICY IMPLICATIONS

Nil

BUDGET AND RESOURCE IMPLICATIONS

An unallocated carried forward savings amount of \$108,791 exists in the 2016/2017 Shared Path Program and is available to undertake additional bike infrastructure works.

The options identified would utilise the full extent of these funds.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

The safety of bicycle riders travelling along routes within the municipality is improved through the provision of on and off-road cycling facilities. The increased safety and connectivity of the cycle network promotes cycling as an alternative and viable mode of transport.

Condition surveys along Dick Ward Drive and East Point Road shared paths have identified sections of path in poor condition and requiring replacement.

ENVIRONMENTAL IMPLICATIONS

Supporting alternative modes of transport to the motor vehicle, such as cycling, has positive environmental implications.

Continuous improvement to the City of Darwin's shared path network provides improved access and connectivity for the community.

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 REPORT NUMBER: 17TS0007 DL:lf
 SUBJECT: DARWIN BIKE PLAN UPDATE

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS
MANAGER DESIGN, PLANNING
& PROJECTS

LUCCIO CERCARELLI
GENERAL MANAGER
INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 8930 0414 or email:
 d.lelekis@darwin.nt.gov.au.

Attachments:

Attachment A: Revised Bike Plan Status Report

Attachment B: Plan Showing Extent of East Point Road Shared Path Renewal

Attachment C: Plan Showing Extent of Dick Ward Drive Shared Path Renewal

Status of “Revised” Darwin Bike Plan 2016 – 2021

Note that this table reports on 2016/2017 (Year 1) projects only. Projects beyond Year 1 have not commenced:

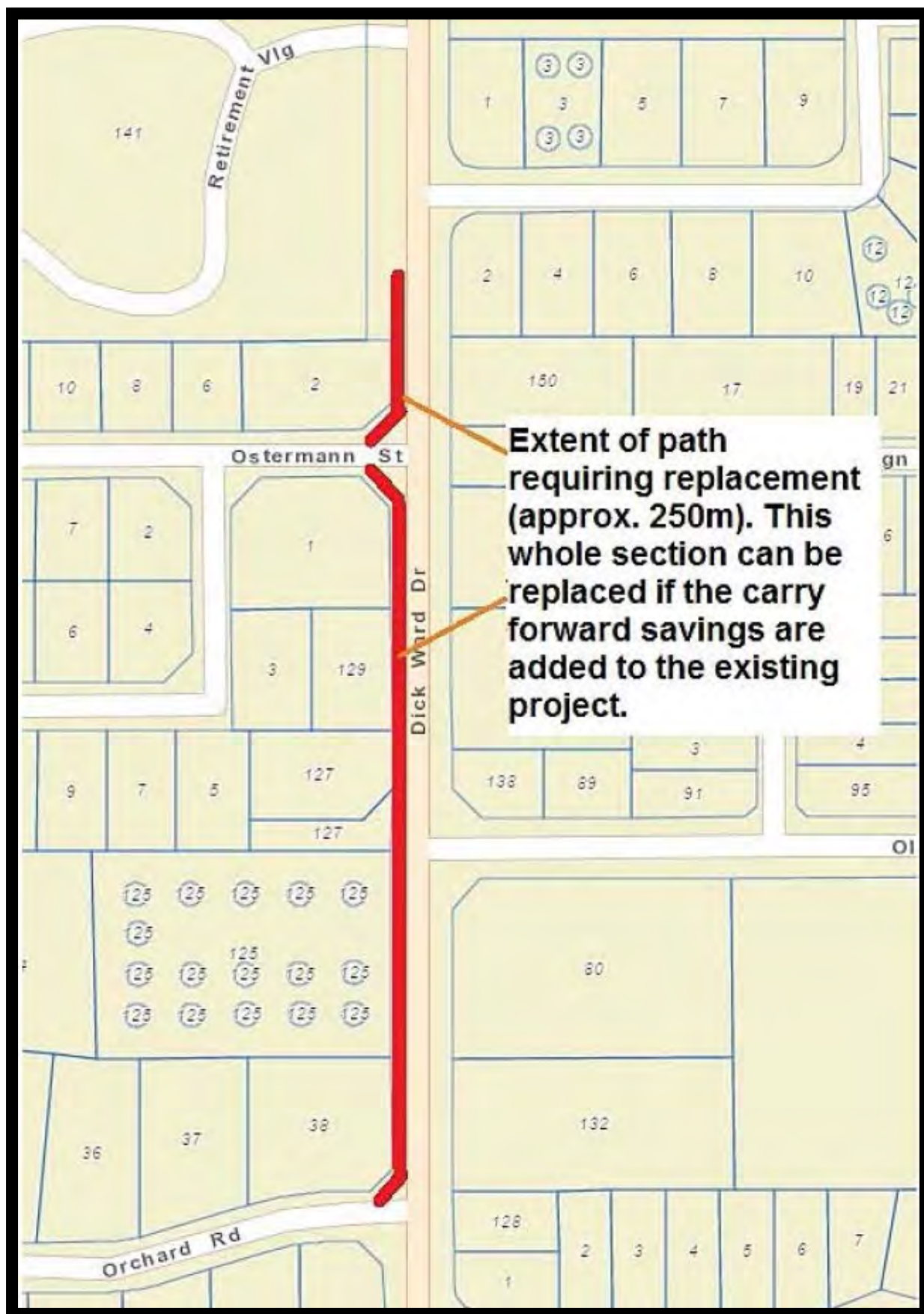
Project	Status
INFRASTRUCTURE COMPONENT	
Daly Street (Stage 1) Smith Street / Daly Street intersection	Project deferred indefinitely.
Ross Smith Avenue Crash Hot Spots	Investigation has been completed and the recommendations from the technical report have been assessed. Concept designs and estimates for works required to address the issues identified to follow. To be completed by May 2017.
Progress Drive / Dick Ward Drive Crash Hot Spots	It is envisaged that the investigation work will commence by April 2017, with concept designs and estimates to follow for any upgrading works identified. Project to be completed by June 2017.
Dick Ward Drive Stage 1	Current funding will allow for up to a 50 metre section of the shared path surface to be replaced. Commencement subject to outcome of this report.
COMPLEMENTARY FACILITIES	
Bike Racks	Installation has commenced and to be completed by 30 June 2017.
Wayfinding and Signage Implementation	Delivery of signage pending completion of the wayfinding and signage strategy for Darwin. This will provide direction to the delivery of this project.
EDUCATION, ENCOURAGEMENT & EVALUATION	
Share the Road – campaign delivery	This funding has been combined with the educational money from the original Implementation Plan to develop a variety of media resources for the “Share the Road/Share the Path” campaigns. These include TV advertisements, static ads for newspaper and social media and bus advertisement.
Ride to the Markets	This will likely occur in May or June 2017 in conjunction with the start of the Dry Season.
Ride to Work Day Activities / Breakfast	This occurred in October 2016.

Encouragement Initiatives	It is proposed that there will be Bike with Confidence courses in February and June 2017, Bike Skills in April/May 2017 and a Youth Bike skills training and BMX Competition in April 2017
Rider Surveys – Super Tuesday & Super Sunday	These were undertaken in September and November 2016 respectively.



East Point Road Shared Path Renewal

ATTACHMENT C



Dick Ward Drive Shared Path Renewal

ENCL: ENVIRONMENT & INFRASTRUCTURE
YES COMMITTEE/OPEN

AGENDA ITEM: 10.1.2

CITY OF DARWIN APPLICATION TO THE WORLD CITIES PROGRAM

REPORT No.: 17TC0017 BR:nj COMMON No.: 3479655

DATE: 21/03/2017

Presenter: Manager Climate Change & Environment, Brooke Rankmore

Approved: Executive Manager, Mark Blackburn

PURPOSE

The purpose of this report is to provide the City of Darwin Application to the World Cities Program.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.3 Conserve and protect the Darwin environment

Key Strategies

3.3.3 Increase community understanding of environmental issues

KEY ISSUES

- The City of Darwin received an invitation from the Delegation of the European Union to Australia on 14 February 2017, to submit an application to the World Cities Program.
- Due to the timeline for submission, the application was submitted prior to presentation to the Environment and Infrastructure Committee.
- The invitation to apply to the World Cities Program is **Attachment A**.
- The City of Darwin submission is **Attachment B**.

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 REPORT NUMBER: 17TC0017 BR:nj
 SUBJECT: CITY OF DARWIN APPLICATION TO THE WORLD CITIES PROGRAM

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

- A. THAT Report Number 17TC0017BR:nj entitled City of Darwin Application to the World Cities Program, be received and noted.
- B. THAT the Committee endorse the application to the World Cities Program within **Attachment B** to Report Number 17TC0017BR:nj entitled City of Darwin Application to the World Cities Program.

BACKGROUND

On 14 February 2017 the Executive Manager received an invitation from the Delegation of the European Union to Australia, inviting the City of Darwin to submit an application to the World Cities Program.

The World Cities Program is a project of the European Union managed by the European Commission's Directorate-General for Regional and Urban Policy (DG REGIO). The project promotes the exchange of experience and best practice between EU and non-EU countries on the theme of sustainable urban development. The project is to be piloted with Australia, including a kick-off meeting in early May 2017. Parallel projects are being conducted with South Korea, South Africa, Indonesia and Vietnam.

The intention of the program is to enable exchange between a few selected cities from these countries and from the EU over the course of about a year. Cities will each partner with an EU counterpart and exchange experiences on specific themes that are of mutual interest within the themes of Urban Economy (start-ups policies, innovation, etc.), Mobility (smart city, etc.) and Green Development (including issues of circular economy). The agenda may also include cooperation on issues relevant to mitigate and adapt to climate change, including energy efficiency/access to clean energy.

DISCUSSION

If Council's application to the World Cities program is successful it will expose us to new technology and examples of best practice opportunities to reduce our impact on climate change and the environment.

In addition to our application to the World Cities Program, a delegation from the European Union will be visiting Darwin on Tuesday, 21st March. The delegation will be undertaking a tour of the Landfill Management Services (LMS) gas project, Council's coastal erosion mitigation works and East Point Reserve, before attending the Environment & Infrastructure meeting to provide a presentation to the committee on the World Cities Program.

PAGE: 3
 REPORT NUMBER: 17TC0017 BR:nj
 SUBJECT: CITY OF DARWIN APPLICATION TO THE WORLD CITIES PROGRAM

CONSULTATION PROCESS

In preparing this report, the following external parties were consulted:

- Climate and Environment Section, Delegation of the European Union to Australia

POLICY IMPLICATIONS

This proposal is consistent with the requirements of City of Darwin Policy No. 006 – Environment – General and City of Darwin Policy No. 059 – Climate Change.

BUDGET AND RESOURCE IMPLICATIONS

The financial component of the program is covered by the European Union. The project will deliver full financial and contents support to the following activities:

- One kick-off meeting and working visit in Australia. Duration: 5 days.
- One follow-up meeting in Europe (during the European Week of Cities and Regions in October 2017). Duration: 5 days, including participation at the above mentioned EU event in Brussels.
- One final meeting in your pairing city in Europe in the 1st quarter of 2018. Duration: 3 days.

The first event to take place is the kick-off meeting in Australia. The financial support of the EU includes all travel and participation costs for one delegation (up to 5 people) from the city.

The only resource implication will be staff time for those staff that form part of the delegation.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Council will review risks prior to entering into any service agreement with the European Union.

ENVIRONMENTAL IMPLICATIONS

If the Council application is successful, involvement in this program will have positive implications for the environment and Council's efforts to reduce impact on Climate Change.

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REPORT NUMBER: 17TC0017 BR:nj
SUBJECT: CITY OF DARWIN APPLICATION TO THE WORLD CITIES
PROGRAM

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

BROOKE RANKMORE
MANAGER CLIMATE CHANGE &
ENVIRONMENT

MARK BLACKBURN
EXECUTIVE MANAGER

For enquiries, please contact Brooke Rankmore on 8930 0530 or email:
b.rankmore@darwin.nt.gov.au.

Attachments:

Attachment A: Invitation to submit an application to the World Cities Program
Attachment B: City of Darwin's submission to the World Cities Program



Dear Sir / Madam,

“World Cities” (www.world-cities.eu) is a project of the European Union managed by the European Commission’s Directorate-General for Regional and Urban Policy (DG REGIO). The project has been promoting the exchange of experience and best practice between EU and non-EU countries on the theme of sustainable urban development. The project is now to be piloted with Australia, including a kick-off meeting in early May 2017. Parallel projects are being conducted with South Korea, South Africa, Indonesia and Vietnam.

The intention is to enable exchange between a few selected cities from these countries and from the EU over the course of about a year. Cities will each partner with an EU counterpart and exchange experiences on specific themes that are of mutual interest within the themes of **Urban Economy** (start-ups policies, innovation, etc.), **Mobility** (smart city, etc.) and **Green Development** (including issues of circular economy). The agenda may also include cooperation on issues relevant to mitigate and adapt to **climate change**, including energy efficiency / access to clean energy.

The project will deliver full financial and contents support to following activities:

- 1 Kick-Off meeting and working visit in Australia. Duration: 5 days
- 1 Follow-up meeting in Europe (during the European Week of Cities and Regions in October 2017). Duration: 5 days, including participation at the above mentioned EU event in Brussels
- 1 Final Meeting in your pairing city in Europe in the 1st quarter of 2018. Duration: 3 days

The first event to take place is the **kick-off meeting** in Australia. The financial support of the EU includes all travel and participation costs for one delegation (up to 5 people) from your city.

In case your city is selected, our experienced project team will support your city in identifying concrete pilot projects within the selected thematic areas. The exchange should ideally include up to 2 representatives from the local administration as well as private sector representatives (e.g. sector associations, clusters) and research institutions that can work with local governments on the identified topics during preparation of the meeting.

If your city is interested in cooperating with counterparts in the EU, please indicate your interest by Monday **27 February 2017**.

Yours sincerely,

The World Cities Team

World Cities 2017 – Questionnaire

(Deadline: 15 February 2017. E-mail to application@world-cities.eu)

<p>1) Which part of the EU would you prefer to work with? Please explain your preferences.</p>	
<p>2) Please mention your city's existing ties with the EU in the field of regional or urban development and innovation. If possible, please explain their potential for achieving urban development and innovation.</p>	
<p>3) Which areas of cooperation would you be interested in?</p> <p>Are there specific areas of focus in your Integrated Development Plan and other city strategies plans that could benefit from this experience?</p>	
<p>4) Which are the main sectors of focus for the economic development of your city?</p>	
<p>5) What kind of cooperation do you have in mind? Whom would you involve from the administration, research and business community?</p>	
<p>6) Please mention the three most relevant regional or urban development areas for cooperation between your city and the EU pair.</p>	

7) Please mention some best-practices in urban development and/or innovation and economic development in your city.	
8) Please explain the resources that your city or region can commit to the World Cities' programme (e.g. people, time, co-financing, support to the involvement of the business sector, synergies with other initiatives, etc.).	
9) What is the added-value of your participation in this initiative for your city or region?	
10) Please mention the person to act as contact point for the programme activities (name, title, responsible department).	
Please add any further comments	

For questions, please contact the World Cities project office:

Project Office:

Rond Point Schuman 6

Brussels, 1040

Belgium

Contacts in Europe:

Pablo Gándara- Manager, Mobile: 0032 495 648899 and 0049 179 9052720

David Zeller, Deputy Manager, Mobile: 0049 173 9154086

Inigo Bilbao, Senior Expert Europe, Mobile: 0034 669 392803

Fatima Beg, Senior Expert South Africa / SEA, Mobile: 0049 176 6591 1821

E-Mail: info@world-cities.eu

Contact in Australia:

Bruce Wilson, European Union Centre, RMIT ph. +613 9925 8214

E-Mail: bruce.wilson@rmit.edu.au

CITY OF DARWIN WORLD CITIES APPLICATION

1) Which *part of the EU* would you prefer to work with? Please explain your preferences.

The City of Darwin would prefer to work with EU countries located in the subtropics with Mediterranean climates. These countries share similar trends in climatic conditions to Darwin with hot summers and seasonality in rainfall. Cities that fall within this criterion may include Spain, Portugal, Greece, Cyprus, Italy and Malta.

2) Please mention your city's *existing ties* with the EU in the field of regional or urban development and innovation. If possible, please explain their potential for achieving urban development and innovation.

The City of Darwin has a long standing Sister City relationship with the City of Kalymnos in Greece. Kalymnos and Darwin established a close relationship due to the significant number of Kalymnian residents in Darwin and signed a formal sister city agreement in 1982.

The mission of the Sister Cities Program is to increase international understanding with our sister city partners through promotion of international communication and exchange at the community level. The Sister City program helps to facilitate friendship links between diverse communities throughout the world, with the aim of increasing understanding and fostering world peace. Other benefits include tourism, technical and professional collaborations, investment, trade, educational and cultural exchanges. City of Darwin sees potential to expand our Sister City relationship with Kalymnos to enhance collaboration and exchange in the areas of urban development, climate change, innovation and sustainability.

3) Which *areas of cooperation* would you be interested in? Are there specific areas of focus in your Integrated Development Plan and other city strategies plans that could benefit from this experience?

The City of Darwin has particular interest in innovations to cool our city by reducing the urban heat island effect, reducing CO₂ emissions, increasing water efficiency and mitigating the impacts of climate change.

Key Strategies for the City of Darwin with areas of focus that could benefit from this experience include;

The Climate Change and Action Plan

This plan provides the framework in which council aims to reducing its climate change footprint through reducing greenhouse gas (GHG) emissions to meet defined mitigation and adaptation actions. The Plan contains both corporate (internal) actions for the council and community focused actions in the key areas

of climate change, water, land, air quality, biodiversity, recycling and waste, and energy.

City Centre Master Plan

The Darwin CBD Master Plan provides the vision for the CBD and is the strategic integrated framework from which the City of Darwin operates. A key focus of the Master Plan is cooling the CBD. Cooling the city is an initiative which will have direct and lasting social economic and environmental benefit as more people are encouraged to walk and visit the city. The concept has international implications for Australia in showcasing low energy cooling of an urban centre.

At present the City of Darwin is working with the Northern Territory Government and Charles Darwin University to negotiate a City Deal with the Australia Government, which has a focus on 'cooling the city' and identifying it as a key liveability issue.

4) Which are the **main sectors** of focus for the economic development of your city?

The key sectors of focus for economic development in the City of Darwin are tourism, the defence industry, international education and our role as the major supply and service hub providing logistics services and marine supply for the oil and gas sector.

Darwin is the supply centre for a large proportion of remotes areas of Northern Australia.

The Darwin Port is also a critical trade link with Asia. As the only capital city in the north and with close proximity to Asia, Darwin is seen as the 'Gateway to Asia'.

Across Army, Navy and Air Force, the Northern Territory is home to 10 per cent of Australia's permanent Defence personnel, with a number of defence bases located in Darwin.

Tourism is the Northern Territory's second largest economic sector and its biggest employer. In the year to 30 June 2013 the Territory recorded a 9 per cent increase in international holiday visitors. There were more than one million domestic visitors in 2012. Tourism is worth more than \$1.5 billion annually to the local economy.

5) What kind of **cooperation** do you have in mind? Whom would you involve from the administration, research and business community?

Being a smaller city, the City of Darwin has close relationships with representatives of local education institutions, the Northern Territory Government and business and industry peak bodies. At present, we have working relationships with many organisations working on key priorities for the Central Business District.

The key areas of cooperation will primarily be in the two areas of administration and research, with appropriate inclusion of the business sector.

6) Please mention the three most relevant **regional or urban development areas** for cooperation between your city and the EU pair.

Urban Infill

As the population of the region continues to grow, the need to balance infill and greenfield development and to achieve a more compact urban form has become a prominent influence on the regional land use structure.

City Resilience

The City of Darwin is interested in becoming more resilient to the physical, social and economic challenges that we face in a rapidly changing world. To improve our ability to survive, adapt, and grow in the face of chronic stresses and acute shocks.

Smart City

City of Darwin is passionate about keeping pace with the digital age, new technologies and innovation in relation to urban development and liveability of our city. This could include anything from improving street lighting, renewable energy options, and availability of services to our community.

7) Please mention some **best-practices** in urban development and/or innovation and economic development in your city.

Energy from Landfill Gas

The Darwin Renewable Energy facility is located at the City of Darwin's Shoal Bay Waste Management Facility and is operated by Landfill Management Services. The facility produces electricity from methane gas harvested from the landfill and is the first of its kind in the Northern Territory. At the 2006 National Awards for Local Government, City of Darwin was awarded winner in the Local Green House Action category for the Shoal Bay Landfill Renewable Energy Facility project. The power plant generates enough electricity to power 1,200 homes, equivalent in green house gas emission savings of approximately 9,000 cars or planting 3,900 trees and preventing approximately 46000 tonnes CO2 e per annum from entering the atmosphere.

Coastal Erosion

The City of Darwin is concerned about coastal erosion issues affecting areas under its control and management and likely issues resulting from future rising sea levels. The Coastal Erosion Management Plan was developed in 2013 to prioritise erosion prevention and restoration actions to ensure the protection of both private and public infrastructure. Management issues along the foreshore include cliff and beach erosion, access issues, overwash and potential seawall failure. The main objectives of the management plan are to identify sites and infrastructure that is at risk, assess the processes causing erosion and provide recommendations for

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coastal engineering based actions to prevent or minimise erosion. The Coastal Erosion Management Plan has driven a number of infrastructure projects, undertaken to mitigate coastal erosion. These include installation of rockwalls and redirection of stormwater drainage pipes.

8) Please explain the **resources** that your city or region can commit to the World Cities programme (e.g. people, time, co-financing, support to the involvement of the business sector, synergies with other initiatives, etc.).

As the only Australian Capital City located in Northern Australia, Darwin is extremely isolated from Australia's other capital cities which predominately occur in the south and along the East coast of the continent. This provides us with extensive experience in engaging with and maintaining relationships from afar and hence we are experienced in delivering and contributing to initiatives remote from our partners and co-collaborators.

The City of Darwin would be able to provide staff resources and sharing of research, not only from ourselves but from the broader Northern Territory, through our relationships with the Northern Territory Government and Charles Darwin University.

The City of Darwin would also be able to contribute through our national links, such as the Council of Capital City Lord Mayors (CCCLM).

Please note that any co-financing would need to be endorsed by our elected official.

9) What is the **added-value** of your participation in this initiative for your city or region?

We believe that the World Cities program would provide the City of Darwin with valuable learning, not only for our organisation but also for our staff. As a smaller city the opportunity to broaden our international relationships and tap into experts in the field across the globe would be invaluable.

10) Please mention the person to act as **contact point** for the programme activities (name, title, responsible department).

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OPEN SECTION

E&I03/10

Environment & Infrastructure Committee Meeting – Tuesday, 21 March 2017

10.2 OFFICERS REPORTS (RECEIVE & NOTE)

Nil

11. INFORMATION ITEMS

Nil

12. GENERAL BUSINESS

13. CLOSURE OF MEETING