

National Partnership Agreement on the Digital Regions Initiative: Implementation Plan

PROJECT NAME: NATIONAL BUSHFIRE PREDICTION,
DETECTION, SIMULATION AND EARLY WARNING SYSTEM

Preliminaries

1. The Digital Regions Initiative will co-fund digital enablement applications to improve services in the key sectors of health, education and/or emergency services in regional, rural and remote communities across Australia in partnership with state, territory and local governments.
2. The National Partnership Agreement (the Agreement) provides the overarching administrative arrangements for the Digital Regions Initiative. The Agreement provides for the development of an Implementation Plan for each Digital Regions Initiative funded project, which contains details of the project, including but not limited to milestones, which may, when attained by Landgate, trigger payment from the Commonwealth.
3. This Implementation Plan deals with the project to improve the satellite remote sensing capability, website/mobile based warning systems, simulation technology, and spatial systems of the FireWatch service.

PART 1 – FORMALITIES

Parties

4. This Implementation Plan has been agreed between the Commonwealth of Australia ('the Commonwealth') represented by the Minister for Broadband, Communications and the Digital Economy and the relevant representative for Landgate ("Landgate").

Term of the Implementation Plan

5. This Implementation Plan will commence on the date both Parties agree in writing to the plan and will expire on 30 June 2013, unless otherwise agreed in writing by the Parties.
6. Either Party may terminate this Implementation Plan by providing 40 business days notice in writing. Where this Implementation Plan is terminated, the Commonwealth's liability to make payments under this Implementation Plan is limited to payments associated with performance milestones achieved by Landgate by the date of effect of termination of this Implementation Plan.

7. The Parties to this Implementation Plan do not intend any of the provisions to be legally enforceable. However, that does not lessen the Parties' commitment to this Implementation Plan.

PART 2 – THE PROJECT

Purpose of the project

8. The project will contribute to the objectives and outcomes in the Agreement.
9. The project objective is to develop a national system to protect infrastructure, communities and properties through better bushfire prediction, management, alert systems, and to implement bushfire resilient infrastructure. The purpose of the national system will be to predict, detect and manage bushfires, of which vital information will be relayed to the National Telephone Early Warning System (NTEWS) for telephone warnings.
10. Landgate agrees to deliver the project in accordance with the milestone schedule at Annexure A.

Project management

11. The project will be managed in accordance with the Management Structure specified at Annexure B.

Project delay and changes

12. The Parties as represented by the Project Representatives (as at paragraphs 24 and 25) agree to take all reasonable steps to minimise changes or delay in progressing the project in accordance with the milestone schedule at Annexure A.
13. If a Party as represented by the Project Representatives becomes aware that completion of the project or project milestones will or may be delayed or significant changes occur, that Party must notify the other Party and both will work together in good faith to minimise the delay. Commonwealth funding is allocated to projects approved by the Commonwealth Minister for Broadband, Communications and the Digital Economy. Minor adjustments within projects can be approved through agreement of the Project Representatives subject to any necessary policy and Budget approval processes.

PART 3 – FINANCIAL ARRANGEMENTS

Commonwealth funding for the project

14. The total estimated cost of the project is \$5,610,790.00. The total Commonwealth financial contribution is up to \$2,805,390.00. The project budget summary is detailed at Annexure C. Landgate is not required to pay a refund to the Commonwealth if the actual cost of the project is less than the agreed estimated cost. Similarly Landgate bears all risk should the cost of the project exceed the agreed estimated cost.
15. Under the Agreement, the Commonwealth will make payments to the Landgate through the Western Australian State Treasury in accordance with the Implementation Plan and the achievement of the specified Milestones in Annexure A, to the satisfaction of the Commonwealth.

Reporting

16. Landgate agrees to a three monthly reporting cycle (made up of alternating written reports and project consultations) plus a final written project report to the Commonwealth in accordance with the milestone schedule at Annexure A.
17. Each written report will be based on an agreed template to be provided by the Commonwealth separate to this Implementation Plan and will include:
 - a. an overview of the project progress as at the date of the report. Where applicable, this overview should include, but not be limited to, a brief description of general progress of the project and whether or not the project is proceeding on time and within budget;
 - b. a statement of achievements against the milestones;
 - c. where applicable, any problems encountered, including technical and administrative;
 - d. an income and expenditure statement for the relevant reporting period;
 - e. a statement of the major purchasing activity undertaken during the relevant reporting period consistent with Annexure D; and
 - f. a statement on each of the performance indicators and baseline data measures set out in Annexure E.
18. Each project consultation will be a conversation around:
 - a. an overview of the project progress as at the date of the consultation;
 - b. where applicable, any problems encountered, including technical and administrative; and
 - c. as required, any updates on performance indicators or baseline data measures set out in Annexure E.
19. Landgate agrees to provide a final project report to the Commonwealth based on the agreed template that will be provided by the Commonwealth separate to this Implementation Plan.

Major Purchasing Activity

20. Assets contributing towards the project are listed at Annexure D. Details of asset purchases of \$10,000 or more will be provided with each written project report.
21. Proposed sub-contracts (if any) of \$10,000 or more to be entered into for the project are listed at Annexure D.

Promotion, Acknowledgment and Publicity

22. The Parties will reach prior agreement on the nature and content of any events, announcements, promotional material or publicity relating to activity under this Implementation Plan, and how the roles and contributions of the Parties will be acknowledged and recognised appropriately.

Project Representatives

23. The officers responsible for undertaking the management of the activities in accordance with the terms of this Implementation Plan are:

Commonwealth officer

24. Position: Assistant Secretary, Digital Initiatives Branch
 Organisation: Department of Broadband, Communications and the Digital Economy
 Address: GPO Box 2154, Canberra ACT 2601

Participating Authority officer

25. Position: Climate Change Business Development Manager
 Organisation: Landgate
 Address: 1 Midland Square, Midland, WA 6055

Signed for and on behalf of the Commonwealth of Australia by the Minister for Broadband, Communications and the Digital Economy, Senator Stephen Conroy.

Stephen Conroy

Dated:

Signed for and on behalf of Landgate by the Minister for Lands, Brendon Grylls

Brendon Grylls

17/05/2010

Dated:

Signed for and on behalf of Landgate by the Chief Executive, Landgate, Mike Bradford

Mike Bradford

Dated: *12 May 2010*

Annexure A

(Paragraphs 10,12, 15 & 16)

The Milestones

National Bushfire Prediction, Detection, Simulation and Early Warning System

- This Annexure specifies each reporting period for the project and milestones (including indicators of completion / evidence for payment requirements) that Landgate must achieve.

See table on following page. Note - the shaded row indicates a payment is due against the achievement of the milestone.

The key elements are:

- **Reporting period** - is the simplest way for the Commonwealth to monitor the activity and the funding. Landgate is required to agree to a three monthly reporting cycle made up of alternating written reports (three months) and project consultations (next three months) in accordance with this milestone schedule.
- **Milestone** - is a significant event that indicates progress towards meeting the aims and objectives of the Implementation Plan.
- **Completion date** - is the date that each stage of the project has to be completed in order to meet the milestones of the project.
- **Evidence of completion** - is a measurement of the performance of each stage of the project during the reporting period.
- **Funding** - the total cost for each deliverable/milestone should add up to form the project budget.

The key acronyms used in this annexure are:

- FWEW - FireWatch Early Warning
- PPP - Prediction & Planning Probabilities
- PPT - Prediction & Planning Tool
- FFT – Fire Fighting Techniques

Annexure A continued

Reporting Period	Milestones	Completion date	Evidence of completion	C'wealth Funding \$	Landgate and Partner Contributions \$	Total Cost \$
Establishment Payment	Implementation Plan signed	May 2010	Implementation Plan signed	360,893.00	912,310.00	1,272,203.00
Consultation		30 June 2010		\$0	\$0	
Report 1 Written Date Due: 28 Oct 2010	<ol style="list-style-type: none"> 1. Demonstration of bushfire simulation 2. Simulator prepared for online environment 3. Simulator linked to ArcGIS environment 4. User & stakeholder consultation commenced 	30 Sept 2010	<ol style="list-style-type: none"> I. Demonstration of bushfire simulation II. Java-based simulator installed and operational III. ArcGIS-Simulator interface operational IV. Consultation workshop with Fire & Emergency Services Authority (FESA) WA completed 	800,000.00	378,820.00	1,178,820.00
Consultation		31 Dec 2010		\$0	\$0	
Report 2 Written Date Due: 20 April 2011	<ol style="list-style-type: none"> 5. Beta version of simulator operational for WA 6. Beta version of FFT operational for WA 7. Establishment of FWEW Website 	31 March 2011	<ol style="list-style-type: none"> V. Beta version of simulator released for WA VI. Beta version of FFT released to FESA for WA VII. FWEW Website accessible internally 	281,802.00	378,820.00	660,622.00
Consultation		30 June 2011		\$0	\$0	
Report 3 Written	8. Online access to FWEW Simulator possible	30 Sept 2011	VIII. FWEW Simulator User Interface Operational	461,067.50	378,820.00	839,887.50

Reporting Period	Milestones	Completion date	Evidence of completion	C'wealth Funding \$	Landgate and Partner Contributions \$	Total Cost \$
Date Due: 28 Oct 2011	9. National User & Stakeholder Consultation Workshop held 10. Beta version of PPP operational for WA		IX. FWEW National User & Stakeholder Consultation Workshop delivered X. Beta version of PPP released for WA	\$0	\$0	
Consultation		31 Dec 2011		\$0	\$0	
Report 4 Written Date Due: 28 April 2012	11. FWEW Simulator for WA accessible online 12. Establish pathway for national expansion of FFT ArcGIS Desktop 13. Establish pathway for national expansion of PPP 14. Online access to FWEW PPT for WA possible	31 March 2012	XI. FWEW Simulator Released for WA XII. Strategic Plan for national Expansion of FFT ArcGIS Desktop in place XIII. Strategic Plan for national Expansion of PPP in place XIV. FWEW PPT Released for WA	461,067.50	378,820.00	839,887.50
Consultation		30 June 2012		\$0	\$0	
Report 5 Written Date Due: 31 Oct 2012	15. FWEW Simulator for Whole of Australia accessible online for user evaluation 16. FWEW FFT for Whole of Australia released for user evaluation 17. FWEW PPP for Whole of Australia accessible online for user evaluation 18. FWEW PPT for Whole of Australia accessible online for user evaluation	30 Sept 2012	XV. Beta Version of FWEW Simulator Released for Whole of Australia XVI. Beta Version of FWEW FFT released for Whole of Australia XVII Beta Version of FWEW PPP Released for Whole of Australia XVIII Beta Version of FWEW PPT Released for Whole of Australia	420,000.00	350,000.00	770,000.00
Consultation		31 Dec 2012				

Reporting Period	Milestones	Completion date	Evidence of completion	Cwealth Funding \$	Landgate and Partner Contributions \$	Total Cost \$
Final Report Date Due: 31 March 2013	19. Online access to FWEW Simulator for operation nationally possible 20. FWEW FFT available for operation nationally 21. Online access to FWEW PPP available nationally 22. Online access to FWEW PPT for operation nationally possible 23. FWEW Simulator linked to National Early Warning System 24. Delivery of National Full FWEW System Training to users 25. Submission of FWEW Final Report	28 Feb 2013	XIX. FWEW Simulator and Website Released Nationally XX. FWEW FFT Released Nationally XXI. FWEW PPP Released Nationally XXII. FWEW PPT Released Nationally XXIII. FWEW Simulator Delivers Data as Specified into National Early Warning System XXIV. National Full FWEW System Training Course Delivered (Perth & Canberra) XXV. FWEW Final Report submitted	20,560.00	28,810.00	49,370.00
			Total Funding	\$ 2,805,390.00	\$2,805,400	\$ 5,610,790.00

Management Structure

National Bushfire Prediction, Detection, Simulation and Early Warning System

Project Partners

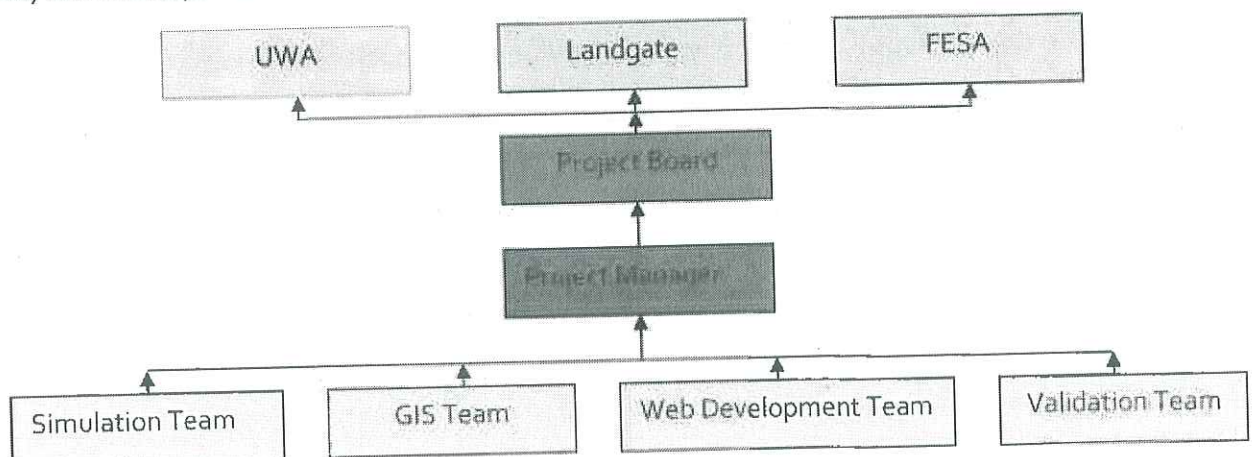
The project partners are:

- Landgate (the Western Australian Land Information Authority) is a statutory authority operating under the Government of Western Australia. Landgate was established with the proclamation of the Land Information Authority Act 2006 on 1 January 2007.
- FESA (the Fire and Emergency Services Authority of WA) is a statutory authority operating under the Government of Western Australia. THE Fire and Emergency Services Authority was established with the proclamation of the Fire and Emergency Services Authority of Western Australia Act 1998 on 1 January 1999.
- UWA (the University of Western Australia) was established under and is governed by, the University of Western Australia Act 1911. The Senate is the University's governing body, empowered with the authority to make statutes, regulations and by-laws.

Governance and Monitoring Progress of Project

Landgate will be responsible for managing the overall project.

Under the Prince2 Project Management methodology which will be used to implement this project, a Project Board will be appointed to provide governance over the project and to monitor the progress of the project. The Project Board will also provide ongoing scrutiny to ensure the milestones are achieved within the planned timeframes. If any milestones are not achieved within their stated timeframe the Project Manager will have to deliver to the Project Board an exception report outlining the cause of the delay and the steps that will be taken to deliver that milestone.



Budget Summary

National Bushfire Prediction, Detection, Simulation and Early Warning System

	2009/2010	2010/2011	2011/2012	2012/2013
Digital Regions Initiative funding (excl GST)	\$ 360,893.00	\$ 1,081,802.00	\$ 922,135.00	\$ 440,560.00
Lead Applicant	Landgate			
Cash	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Other Contributions	\$ 492,050.00	\$ 484,100.00	\$ 484,100.00	\$ 242,050.00
Subtotal	\$ 492,050.00	\$ 484,100.00	\$ 484,100.00	\$ 242,050.00
Project Partner	Fire and Emergency Services Authority of WA			
Cash	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Other Contributions	\$ 319,260.00	\$ 73,540.00	\$ 73,540.00	\$ 36,760.00
Subtotal	\$ 319,260.00	\$ 73,540.00	\$ 73,540.00	\$ 36,760.00
Project Partner	University of Western Australia			
Cash	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
Other Contributions	\$ 100,000.00	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
Subtotal	\$ 100,000.00	\$ 200,000.00	\$ 200,000.00	\$ 100,000.00
TOTAL OTHER CONTRIBUTIONS	\$ 911,310.00	\$ 757,640.00	\$ 757,640.00	\$ 378,810.00
TOTAL CASH	\$ 360,893.00	\$ 1,081,802.00	\$ 922,135.00	\$ 440,560.00
TOTAL PROJECT COST	\$ 1,272,203.00	\$ 1,839,442.00	\$ 1,679,775.00	\$ 819,370.00
OVERALL Digital Regions Initiative Funding	\$ 2,805,390.00			
OVERALL Other Contributions (Lead Applicant)	\$ 1,702,300.00			
OVERALL Other Contributions (Others)	\$ 1,103,100.00			
OVERALL Cash Contributions (Lead Applicant)	\$ 0.00			
OVERALL Cash Contributions (Others)	\$ 0.00			
OVERALL PROJECT VALUE	\$ 5,610,790.00			

Annexure D

(Sub paragraph 17.e, Paragraphs 20 & 21)

Major Purchasing Activity

National Bushfire Prediction, Detection, Simulation and Early Warning System

The following major purchasing activity in regard to expenditure of \$10,000 or more provides details of what Landgate will purchase, install or enhance in order to meet the aims and objectives of the project.

Major Purchase Items

	Description
Year (2009-2010)	
	Satellite Receiving Station Depreciation Costs
	Product: Archive of Annual Burnt Area Map of Australia
	Office Rental for Project Team and Servers
	Product: Bushfire Threat Analysis Licence
	Product: Fuel Load Data
	Annual licence fee for Bushfire Simulator
	FireWatch Fire Hot Spot Processing Server (Operational Processing Server)
	Bushfire Prediction Planning Tool Processing Server (System Development Server)
	Emergency Management Simulator Server
	Public Simulator Server (Web Server for Simulated Development)
	Public Web Server (Landgate Corporate Map Viewer System Hardware)
	Emergency Management Web Server (Web Server for Operational Simulation Processes)
	SMS Gateway Server (National Early Warning System Interface System Hardware)

Year (2010-2011)	
	Satellite Receiving Station Depreciation Costs
	Office Rental for Project Team and Servers
	Annual licence fee for Bushfire Simulator
Year (2011-2012)	
	Office Rental for Project Team and Servers
	Annual licence fee for Bushfire Simulator
Year (2012-2013)	
	Satellite Receiving Station Depreciation Costs
	Office Rental for Project Team and Servers
	Annual licence fee for Bushfire Simulator

Sub-Contracts **NIL**

Annexure E
(Sub-paragraphs 17.f & 18.c)

Performance Indicators and Baseline Data Measures
National Bushfire Prediction, Detection, Simulation and Early Warning System

Agreed performance indicators in accordance with the Digital Initiatives Guidelines are:

Performance Indicator	Measure
<p>Performance Indicator 1</p> <p>The extent to which regional, rural and remote communities are positively impacted by Digital Regions Initiative</p>	<p>PI 1.1) Physical location and classification of communities that <u>will benefit</u> from FWEW as identified in the project proposal.</p> <p>(PI 1.2) Physical location and classification of communities that <u>have benefited</u> from the funded project as measured by postcodes of communities serviced by FWEW in project progress reports and/or at the end of the project.</p> <p>(PI 1.3) Description of benefits and impacts in relation to original proposal – presented as brief case studies in project progress reports and at the project end.</p>
<p>Performance Indicator 2</p> <p>Improvements in the delivery of emergency services enabled by digital technologies supported by Digital Regions Initiative projects</p>	<p>PI 2.1) Description of service delivery benefits by sector at the project end.</p> <p>(PI 2.2) Examples of how growth of new or improved services/applications as presented in project progress reports and/or at the project end can be measured.</p> <p>(PI 2.3) Examples of how the impact of new or improved applications and service delivery outcomes presented in project progress reports and/or at the project end can be measured, including.:</p> <ul style="list-style-type: none"> ▪ Number of bushfire simulation maps generated and sent ▪ Number of bushfire prediction planning tool users ▪ Time efficiencies: Report at project end on average response time taken to generate bushfire prediction maps after detection of bushfire

<p>Performance Indicator 3 Extent to which Australian Government investment is leveraged by Digital Regions Initiative projects</p>	<p>PI 3.1) The number location and type of additional activities/applications that have occurred through the project beyond the scope of the implementation plan as measured at the project end.</p> <p>(PI 3.2) The level of additional investment and benefits that has occurred beyond the scope of implementation plans and as a result of funded projects over the life of the DRI program as measured by cash and other contributions expenditure reports at the project end.</p> <p>(PI 3.3) Description of additional benefits achieved by project through opportunities created by the NBN as measured by the interaction of users using broadband and mobile services at project end.</p> <p>(PI 3.4) Description of how the longer term sustainability of the project will be assured at the project end.</p>
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Baseline data measure	Measurement as at project commencement
<ol style="list-style-type: none"> 1. Deliver Critical Bushfire Information to Save Lives. Improve Tactical Fire fighting responses to minimize property loss. 2. Build bushfire resilience into existing and future infrastructure and assets 3. Expand the Operation of the Bushfire Simulator to the Whole Country. 	<p>This project leverages upon the WA Government's FireWatch service, which has been monitoring bushfires across all of Australia for 12 years and is currently used by emergency services agencies in WA, NT, SA and Qld.</p> <p>NB: FireWatch does not currently have a predictive or simulator capacity, nor does it generate bushfire prediction maps nor does it send SMS bushfire alerts.</p> <p><i>Baseline - ZERO</i></p>