

# *Spatial Interoperability Demonstration Project (SIDP) - a national initiative*

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SPATIAL  
INTEROPERABILITY  
DEMONSTRATION  
PROJECT



An Australian Government Initiative  
**AUSIndustry**

**OGCA**  
Open Geospatial Consortium Australasia



# Overview

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- > About SIDP
  - o Objectives
  - o Outcomes
  - o Timeline
- > Current Status
- > SEEGrid Partnership
- > Demo – sneak preview
- > The National Roadshow
- > Wrap-up



# SIDP – The Project

> Initiative from

- o ASIBA
- o OGC-A



> Funded by

- o AusIndustry
- o Participants (government, private industry)



**An Australian Government Initiative**



> In partnership with

- o CRC-SI Emergency Management Demonstration Project
- o Minerals Council of Australia (MCA) SeeGRID



# *SIDP: Aims and Objectives*

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- > To demonstrate real benefits of “on-demand access to spatial information” (=Interoperability) to end user organisations in the sectors of:
  - o Emergency Management
  - o Insurance
  - o Utilities
  
- > Demonstrate that on-demand access is technically feasible
  - o Here and Now!
  - o We can solve a lot of stuff with mature technologies that we have today!
    - PCs sold in droves in the 80s and 90s, despite lacking colour screens, USB ports, DVD drives, etc.
  
- > To develop the knowledge, skill base and commercial opportunities for the (Australian) Spatial Information Industry in the area of Interoperability and OGC standards



# SIDP Outcomes

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- > 'Live', real-world demonstrators of applications that use on-demand access to spatial information
- > A Common, Whole-of Government Architecture
  - o Documented, implemented and proven
    - Notional, Technical and Implementation
    - Executive summary
  - o Re-usable for all agencies & jurisdictions
- > Identification of technical and institutional issues to be resolved
  - o prioritised
- > Awareness at all levels of the value of on-demand Access to Spatial Information
- > Increased capacity to implement these solutions (training & education)
  - o Seminars
  - o 'How to' guides
  - o Technical **and Institutional** resources



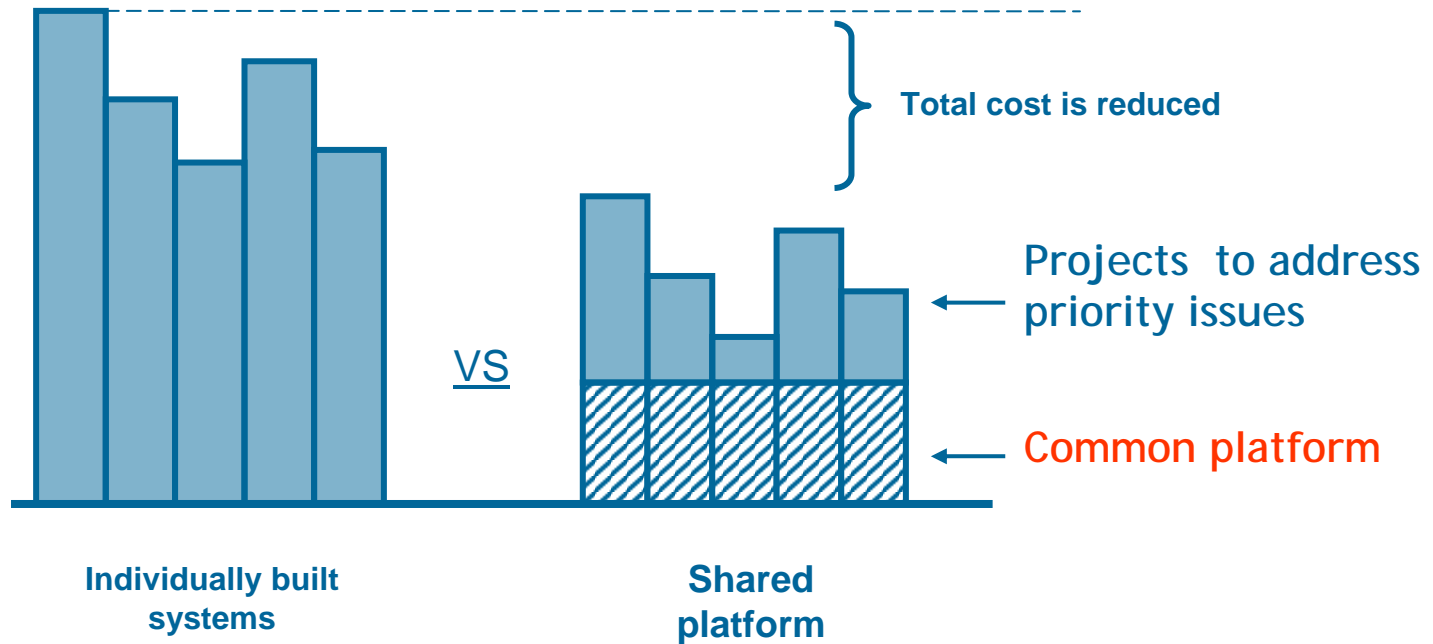
# *Why Interoperability?*

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- > Access to whole of government resources
  - Fundamental data maintained by custodians (“point of truth”)
  - Common Australia-wide Architecture
  - Increased efficiency, reduced cost
  
- > Improved Community Service Delivery
  - Metcalfe’s law (value of the network):
    - access to more and better information
    - Higher quality information products & service delivery
  
- > Supported by all major solution providers
  - Such as CadCorp, ESRI, Intergraph, Ionic, MapInfo, NGIS, Oracle, etc  
(in alphabetical order)



# Re-using shared resources



Source: Phil Beach, WA Dept of Land Information



## *What SIDP is not...*

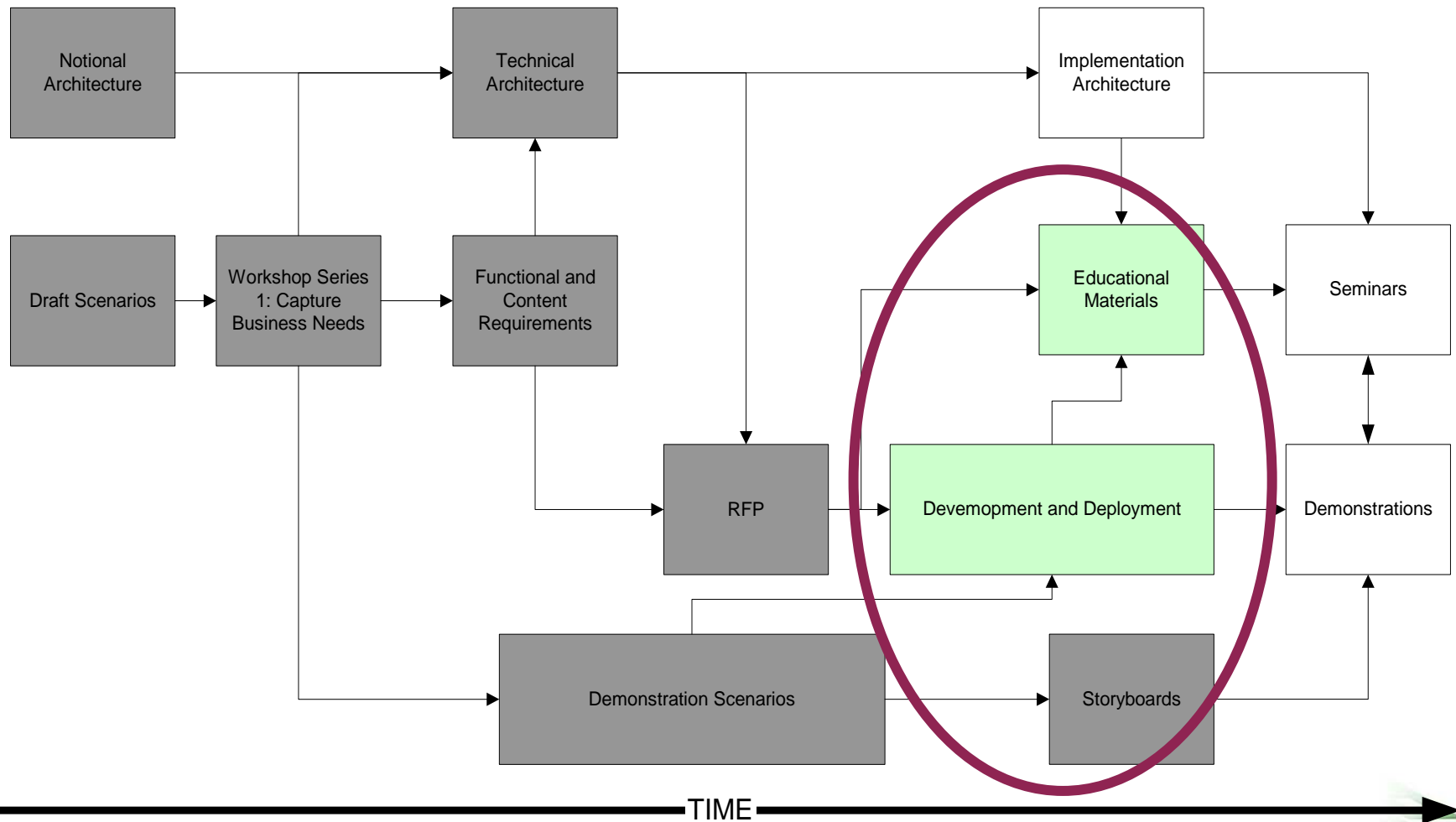
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- > NOT a Technology Push
  - Engaging with the user community early and often
  - Address their real needs
  
- > NOT a duplication of past and existing effort
  - SIDP aims to build upon existing initiatives, implementations and structures.
  
- > NOT a “cutting edge” technology development project
  - Use SCOTS components:
    - **Relevant**
    - **Real**
    - **Robust**
  
- > NOT about preaching how to use Spatial Information in Emergency Management





# Progress



# Timeline

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- > April - August 2004; Project Initialisation
  - o Detailed Design of Demonstration Scenarios
  - o Customer Workshops
  - o Requirements Specification
  
- > Sept-Oct 2004; Information Access
  - o Engage Information Providers
  - o Issue RFP for implementation
  
- > Nov 2004 - March 2005; Develop and Deploy
  - o Engage implementers
  - o Develop Demonstrator
  
- > **April - May 2005; Roadshow**
  - o **Workshops & Seminars (8 cities)**
  - o **Education and Training (Manuals, guides, cookbooks)**



# *SIDP – SEEGrid partnership*

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- > Logical fit:
  - o Ausindustry – “Innovation access” funded
  - o Spatial interoperability
- > Complementary:
  - o SIDP: maturing technologies - marketing and education focus
  - o SEEGrid: Technology development – research focus
- > Shared efforts:
  - o SEEGrid team
    - SIDP Technical Architecture (CSIRO)
    - Service (GA) and technology (SCO) provider for demonstrators
  - o SIDP
    - Feature SEEGrid in SIDP National Roadshow



# The SIDP Roadshow

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- > **Demonstrations & seminars in 8 capital cities**
- > **8:00 – 10:00 am      Session 1: EXECUTIVE BRIEFING**
  - Introduction to the “what” and “why” of spatial interoperability
    - **What** is it?
    - **Why** should I bother?
  - Enactment of three live scenarios to demonstrate interoperability at work
- > **10:30am – 1:00 pm    Session 2: SEMINAR**
  - The “how” of spatial interoperability
    - **How** do I implement such a solution?
  - A working session looking at how the scenarios were put together, with particular focus on technical and institutional issues



# *The SIDP Roadshow*

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- > **Hobart**      **20 April**
- > **Melbourne**   **22 April**
- > **Sydney**      **26 April**
- > **Canberra**    **27 April**
- > **Brisbane**     **29 April**
- > **Adelaide**    **2 May**
- > **Darwin**      **4 May**
- > **Perth**       **6 May**
  
- > **More info and registration:** [www.sidp.com.au](http://www.sidp.com.au)



# Meet the SIDP demonstration team...

**ER Mapper**  
Helping people manage the earth

**COMPUSULT**  
LIMITED

**webmap**



**social**  
ONLINE **change**

**SKM**

**mapShed**

**Münchener Rück**  
Munich Re Group

**NGIS**  
Extending the Limits

**MapInfo**

**ionic**  
SOFTWARE

**Map Werkes**  
Geospatial Portal Solutions

authorized  
**CubeWerx**  
distributor

**TERRA**  
pages  
Show me where. Take me there.

**ESRI Australia**

**OMNILINK**

**crc•si**

**Solid Earth and Environment**  
GRID

**CSIRO**

**Curtin**  
University of Technology

**kay**  
consulting



Department of  
**Infrastructure, Planning and**  
**Natural Resources**



**Australian Government**  
**Bureau of Meteorology**



**Department of Lands**  
Reliable from the ground up

**CFA**



Department of Land Information  
Government of Western Australia



PSMA Australia LIMITED



**Australian Government**  
**Geoscience Australia**

# Early February: Prototype deployment

- > Most participants
- > Two days locked in a room (7 & 8 February)
  - o Add coffee and muffins
- > Outcome:
  - o Successfully implemented significant parts of the demo scenarios
  - o Gathered feed-back
  - o Identified priorities & recommendations for second development cycle



# Demonstration Scenarios

- > 1 – Insurance company dealing with the aftermath of a hailstorm in Liverpool NSW
- > 2 – Managing response to a bushfire in SA/VIC
- > 3 – (CRC-SI – EMDP)  
A bushfire threatens power lines in WA





# *Scenario 1: Insurance company dealing with the aftermath of a hailstorm in Liverpool NSW*



# Setting the scene

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- > Type of Incident
  - Damage assessment as the result of a major hailstorm
- > Demonstrator Scene
  - National disaster claims centre for Metropolitan Insurance Company (MIC) where they are managing claims in response to a major storm event. Claims include damage to property from hail, water and flooding.
- > Incident Site
  - Liverpool NSW
- > Actor
  - Nicole – national claims manager
  - Assessors
- > Objective
  - Warn policy holders of imminent storm
  - Respond quickly, proactively & effectively



## *What Nicole does*

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- > Receives severe thunderstorm warning from BOM
- > Reviews affected area
- > Take preventive measures
- > Tracks actual storm track, hail damage and flooded areas
- > Before & after image analysis
- > Identifies anomalies, prioritises claims for further assessment



# *Scene 1 – Warning comes in*

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*Actor: Nicole*

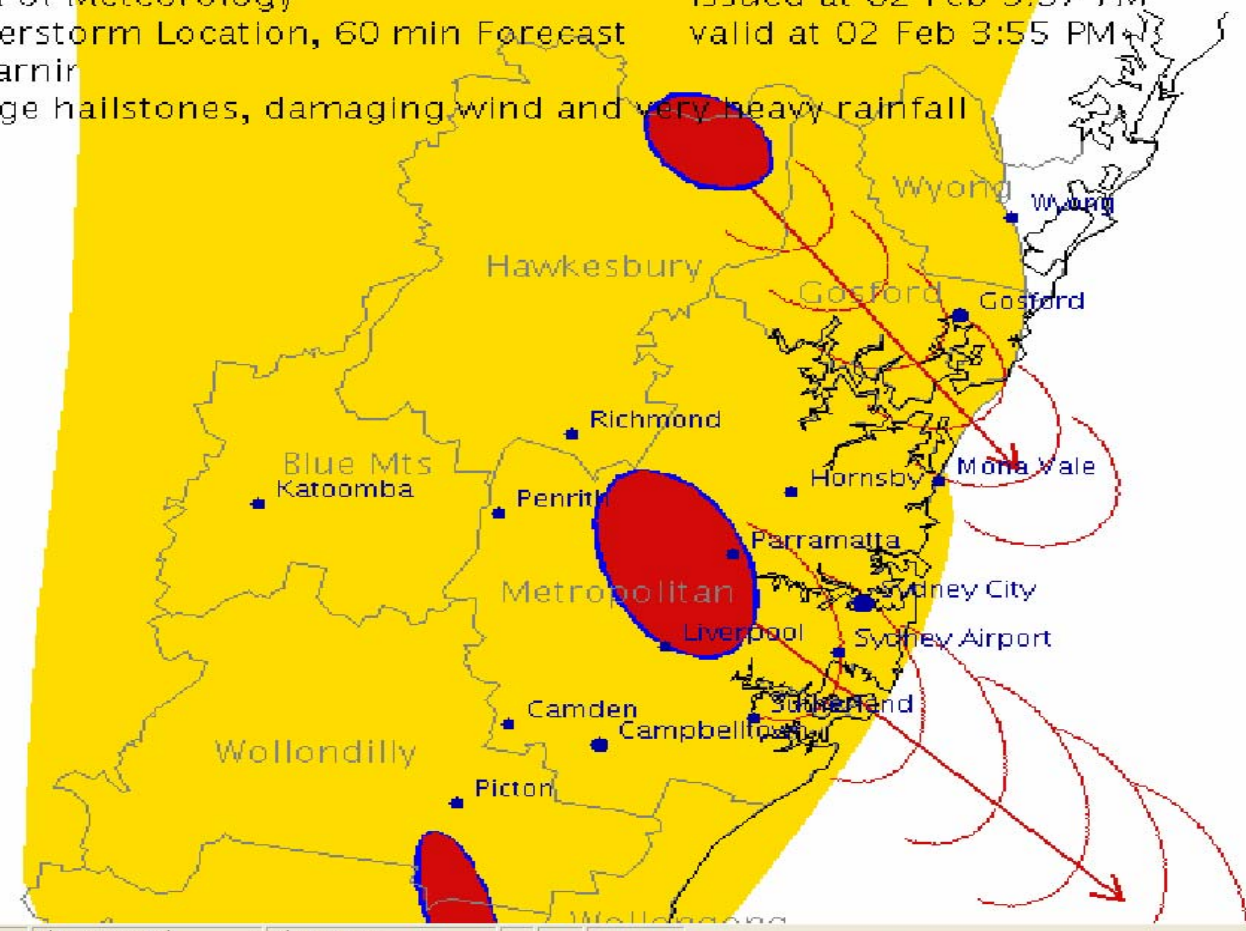
*Tool: Web client (Compusult Web Enterprise Suite)*

- > Weather alert comes in
- > View threat map





Bureau of Meteorology issued at 02 Feb 3:57 PM  
Thunderstorm Location, 60 min Forecast valid at 02 Feb 3:55 PM  
and Warning  
for large hailstones, damaging wind and very heavy rainfall



## Scene 2 – Prevention

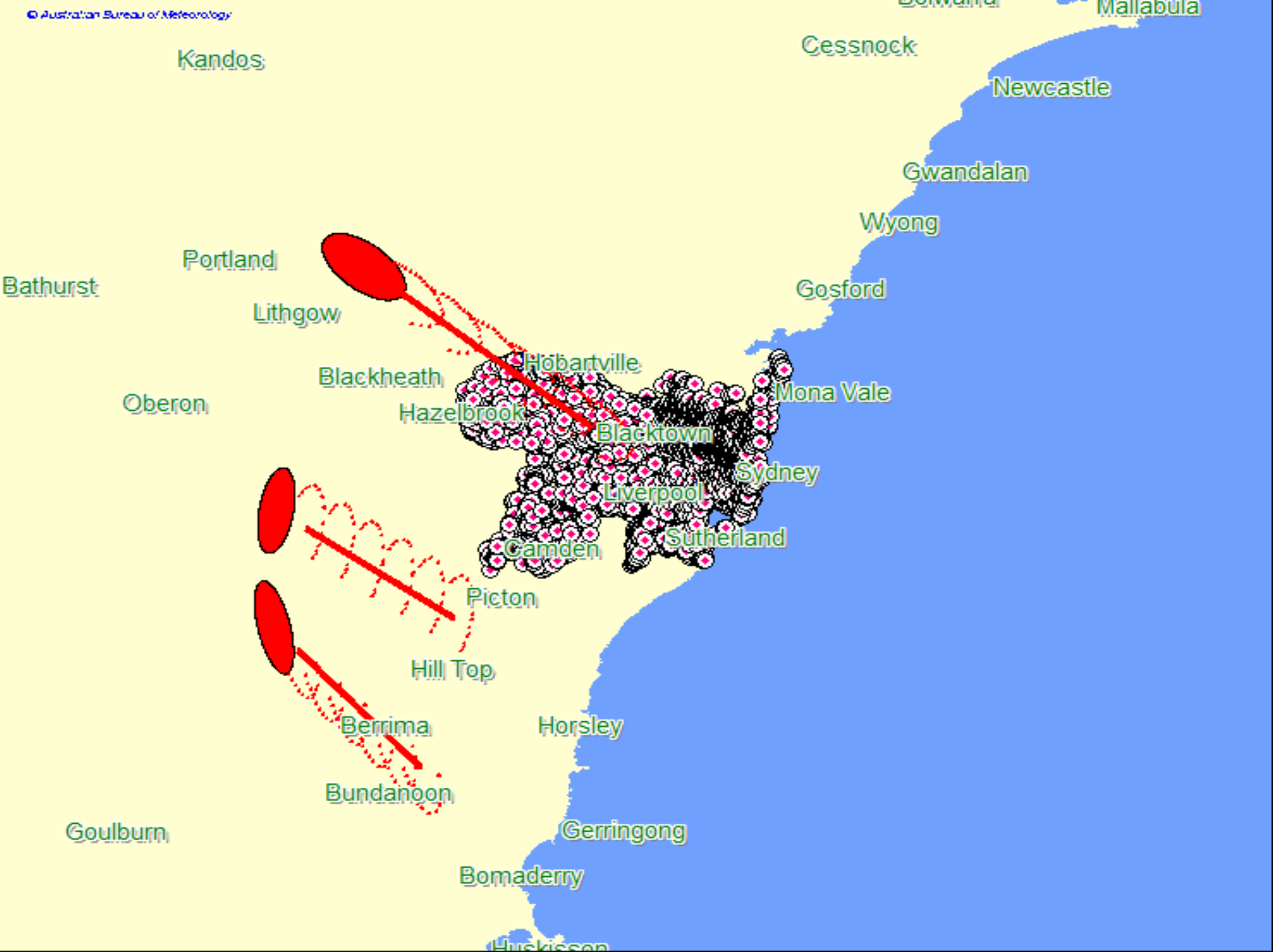
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*Actor: Nicole*

*Tool: Desktop Client (MapInfo)*

- > Suspend acceptance of new policies in affected areas  
Identify policy holders at risk in affected areas
- > Calculate total insured value at risk
- > Issue SMS warning to policy holders at risk





Kandos

Cessnock

Newcastle

frmLookup : Form

# Metro Insure

## Customer Management System

Search field:  Search for:

Policy	Name	Address	Suburb
20001	S WAVRYK	18 ONSLOW ST	GRANVILLE
20002	P D MUMBY	39 LINCOLN L	STANMORE
20003	N SAITO	14 STUART ST	CANLEY VALE
20004	S WHITE	20 MALTA ST	FAIRFIELD EAST
20014	A POTHIER	25 CUMBERLAND RD	AUBURN
20017	D M WOODS	30 SPINEBILL PL	INGLEBURN
20018	J T PHILP	5 GORDON RD	AUBURN
20019	A HUSSAIN	103 COWPASTURE RD	WETHERILL PARK
20020	N WINTERS	39 MONA ST	AUBURN
20023	G E HULME	12 COBHAM ST	INGLEBURN
20030	C A SAXBY	2 KARA ST	SEFTON
20033	G RISBY	54 ORCHARD RD	BASS HILL
20034	D B LYNCH	52 PLATEAU RD	BILGOLA
20035	R P BANKS	8 COOK ST	SUTHERLAND
20036	A KLYUYEV	8 ROBINSON CL	LURNEA
20039	C E UPTON	63 SURFERS PDE	HARBORD
20046	B HAWKINS	3 RALPH ST	CABRAMATTA
20049	G M SMITH	68 HOLMWOOD L	NEWTOWN
20050	J A HAYES	26 CARBEEN AV	ST IVES
20051	S HAUSMANN	5 WILBUNG RD	ILLAWONG

Bathurst

Oberon

Goulburn

Huskisson

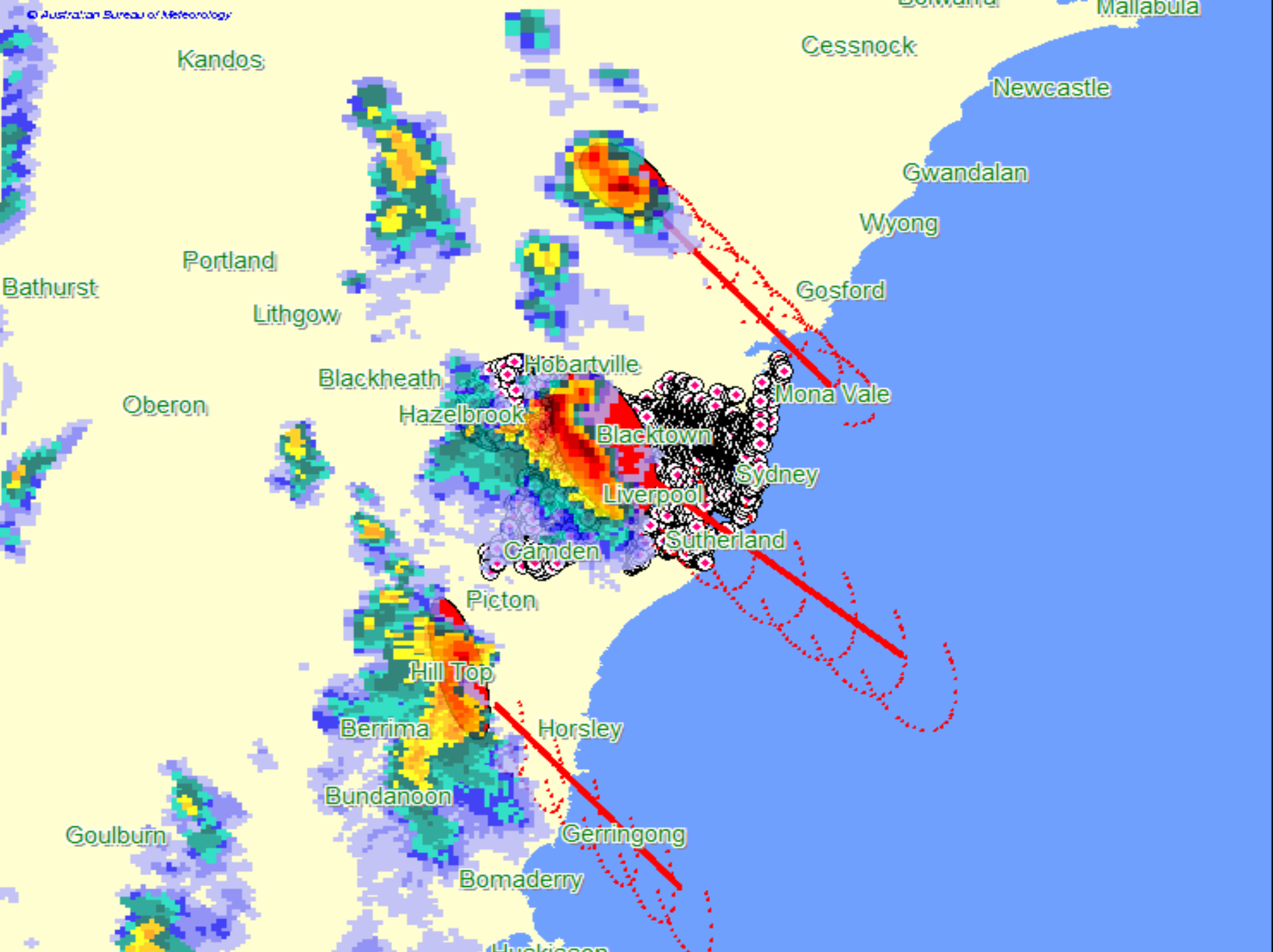


## Scene 3 - Managing claims after the storm

5 pm

- > The storm hits the area. Brian continues to monitor continuous updates from BOM
- > Reports indicate some areas have been hit harder causing hail damage to roofs and cars. Heavy rain has caused water damage and flooding





# Key benefits

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- > Re-using “On-Demand” resources
  - Image Archive service (WebMap)
  - Weather service (BOM)
  - Cadastral service (PSMA – MapWerks)
  
- > Benefits
  - Faster preventive action
  - More efficient claims management
  
  - Minimise risk exposure
  - Protect company assets
  - Better service delivery
  - Lower premiums
  
- **\$300,000 - \$500,000 saved in first 30 minutes of the incident**



# Way forward

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- > Finalise Building & Deployment of demonstrators, develop educational materials (Dec 04 - Mar 05)
- > Roadshow: April – May 2005
  - o 8 Capital Cities
  - o Workshops & Demonstrations (“What & Why”)
  - o Seminars (“How”)
  - o More info and registration
    - [www.sidp.com.au](http://www.sidp.com.au)
- > Ongoing online resource: One year+
  - o Live Demonstrations
  - o Fact sheets
  - o Training Materials
  - o Etc.



# Summary & Wrap up

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- > SIDP will raise awareness about the
  - o **What** (what does it do?)
  - o **Why** (what are the benefits?), and
  - o **How** (how do I do implement this?)of on demand access to spatial information
  
- > Method:
  - o Doing real-world demonstrations (Relevant, Real & Robust)
  - o Training Seminars
  - o Create educational materials
  
- > National Roadshow from 20 April 2005
  
- > Follow progress on our website:

[www.sidp.com.au](http://www.sidp.com.au)



*Any Questions?*

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SPATIAL  
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