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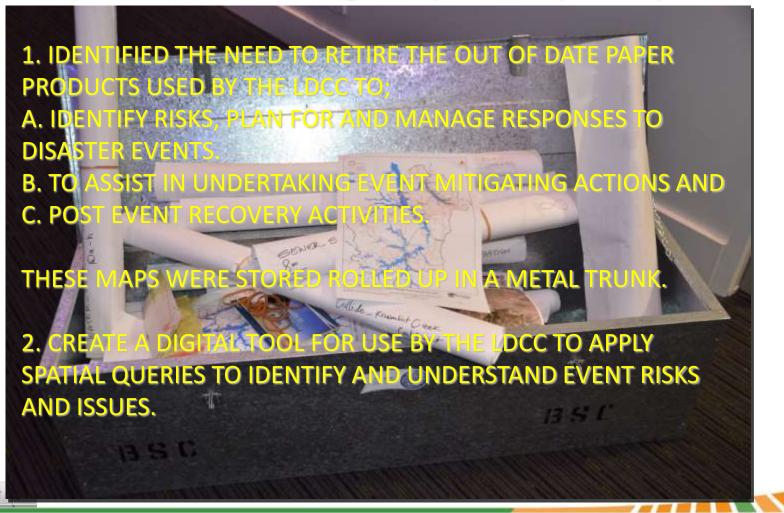
Banana Shire Overview

LOCATED IN CENTRAL QUEENSLAND - 120 KM WEST OF GLADSTONE. LAND AREA OF 28577 SQ. KM. WITH 27-SQ. KM. OF URBAN AREA COMPRISING OF 12 TOWNS/VILLAGES. HOME TO APPROX. 15700 INHABITANTS. THE PRINCIPAL SHIRE TOWN IS BILOELA - HOME TO APPROX. 5300 RESIDENTS, AND HOME TO THE ONLY TWO SETS OF TRAFFIC LIGHTS IN THE SHIRE, 100M APART. BANANAS ARE NOT GROWN IN THE SHIRE. THE SHIRE IS NAMED AFTER A DUN COLOURED STEER





Scope: To replace the existing LDCC paper spatial products with a digital spatial capability





Objective: Develop and install a spatial tool for LDCC spatial analytical activities

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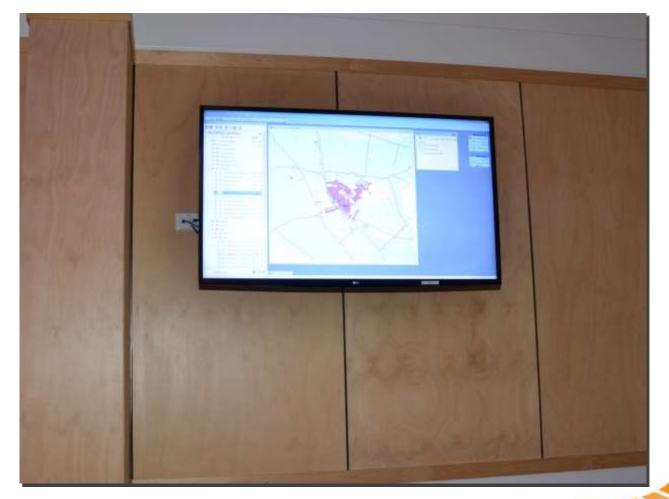
A. PURCHASE A GIS WORKSTATION FOR LDCC USE (SPECIFIC PROCESSOR, RAM AND GRAPHICS CARD REQUIREMENTS) – THE STANDARD CORPORATE LAPTOP WITH ONLY 4GB OF RAM WAS NOT CAPABLE OF PERFORMING THE SPATIAL TASKS REQUIRED.

Shire Towns Banana Baralaba Biloela Cracow Dululu Goovigen Jambin Moura Taroom Thangool Theodore Wowan



IN ADDITION

A LARGE SCREEN TV WAS PURCHASED AND MOUNTED ON THE LDCC WALL TO ENABLE ALL MEMBERS OF THE LDCC (AROUND 15) TO VIEW THE SPATIAL DATA AND ANY SPATIAL QUERY RESULTS.

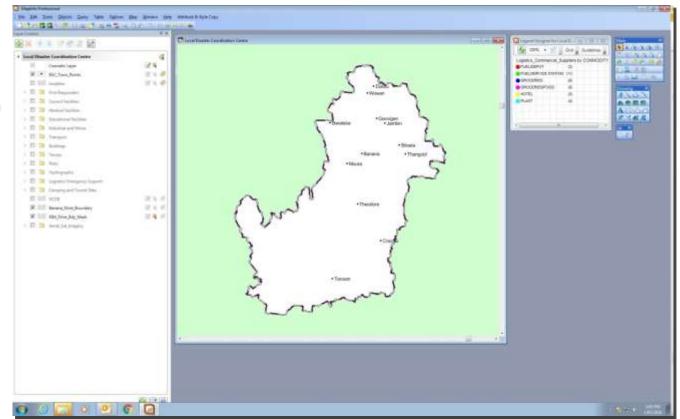






B. CREATE A SINGLE LDCC MAPINFO WORKSPACE WITH ALL THE REQUIRED SPATIAL DATA NEEDED FOR ANY LDCC SPECIFIC SPATIAL QUERIES.

CONCURRENTLY WITH C.







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C. CREATE THE DATA SETS TO BE USED BY THE TOOL – CURRENTLY 37 LDCC SPECIFIC DATA SETS HAVE BEEN CREATED, BUT NOT COUNTING THE ORIGINAL CORPORATE DATA SETS USED AS BASE LAYERS.

THE ORIGINAL PAPER PRODUCT DATA CONSISTED OF BASIC INFORMATION; A RANGE OF BSC DATA – ROADS, SEWER AND WATER RETICULATION INFRASTRUCTURE AND SOME GEOSCIENCE AUSTRALIA AND STATE DATA – 10M CONTOURS SHIRE COVERAGE AND LANDING FIELDS





pitney bowes

The Spatial Tool



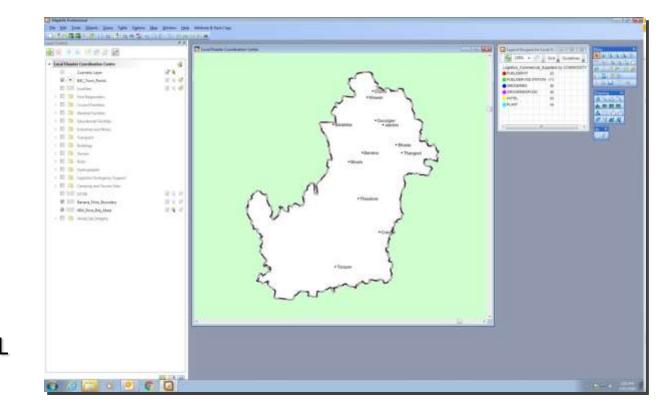
THE BSC CORPORATE DESKTOP SPATIAL SOLUTION IS PITNEY BOWES MAPINFO PROFESSIONAL.

THE LDCC MAPINFO INSTALLATION IS A VERSION 12 EXAMPLE RUNNING ON A 64-BIT WINDOWS OS WITH AN 17 PROCESSOR AND 32GB OF RAM.

A MAPINFO WORKSPACE WAS CREATED THAT CONTAINS ALL THE LDCC SPECIFIC SPATIAL DATA



LDCC WORKSPACE CONTAINING ALL THE BSC DATA SETS CREATED AND DATA SOURCED FROM EXTERNAL SOURCES EG. QLD GOVT QSPATIAL PITNEY BOWES



A RANGE OF BASE DATA – SHIRE BOUNDARY, TOWNS WITH LDCC SPECIFIC DATA GROUPED UNDER LOGICAL HEADINGS: FIRST RESPONDERS, COUNCIL FACILITIES, MEDICAL FACILITIES EDUCATIONAL FACILITIES, INDUSTRIAL AND MINES, TRANSPORT BUILDINGS, TERRAIN, RISKS HYDROGRAPHIC, LOGISTICS EMERGENCY SUPPORT CAMPING AND TOURIST SITES



ALL DATA ARE EITHER POINTS, LINES OR POLYGONS.

POINT FEATURES, INDICATING THE LOCATIONS OF, INCLUDE; FIRST RESPONDERS: POLICE STATIONS AMBULANCE STATIONS FIRE STATIONS AND SES.

COUNCIL FACILITIES: EVACUATION CENTRES DEPOTS COMMUNICATIONS INFRASTRUCTURE

Local Disa	ster Coordination Centre	<
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	BSC_Town_Points	國道。
	localities	11 年 -
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P 🔟 🛅	Council Facilities	
) 🔟 📋	Medical Facilities	
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Þ 🔳 🗎	Industrial and Mines	
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þ 🔳 🗎	Risks	
Þ 🗉 🛅	Hydrographic	
Þ 🖪 🗎	Logisitics Emergency Support	
	Camping and Tourist Sites	
	DCDB	10 14
7	Banana_Shire_Boundary	1 4
1	KIM_Shire_Bdy_Mask	1 4





MEDICAL FACILITIES: HOSPITALS

EDUCATION FACILITIES: PRIMARY SCHOOLS SECONDARY SCHOOLS CQ UNIVERSITY STUDY CENTRE/TAFE

INDUSTRIAL AND MINES: CALLIDE POWER STATION QLD NITRATE FACILITY COTTON GIN SEVERAL LARGE OPEN CUT COAL MINES - COAL FOR EXPORT AND POWER STATION SUPPLY CRACOW GOLD MINE







Local Area Contests

Via Capanet or Bocky Base Heart workth hoard

Ensure that the flood lights can be turned on for night operations. This HE3 deever also creation information on

Interpretation of the American Street Street, Street,

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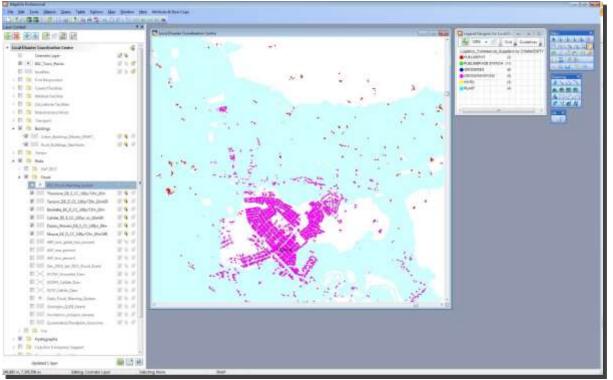
TRANSPORT: ROADS **RAILWAY NETWORK AIRPORTS HELICOPTER LANDING SITES** - WITH HOTLINK TO HLS DESCRIPTIONS

1.4.8



BUILDINGS: GEOVISION BUILDING POLYGONS URBAN AND RURAL TWO DIFFERENT ELEVATION ATTRIBUTE SETS

TERRAIN: CONTOURS VARIOUS DATA SETS 10M WHOLE SHIRE COVERAGE INDIVIDUAL TOWNS AT 1M

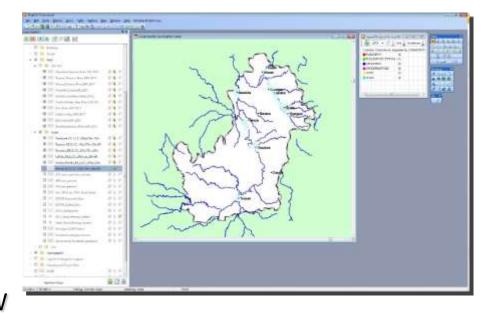


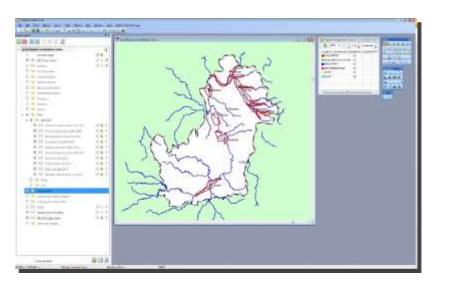




RISKS:

MINIMAL FIRE, EARTHQUAKE OR LANDSLIP RISK. MAJOR IMPACTS FROM FLOOD EVENTS EITHER FROM RIVERINE - DAWSON, DEE AND DON RIVERS, CALLIDE CREEK AND TRIBUTARIES OR CALLIDE DAM OVERFLOW IMPACTING DOWNSTREAM COMMUNITIES





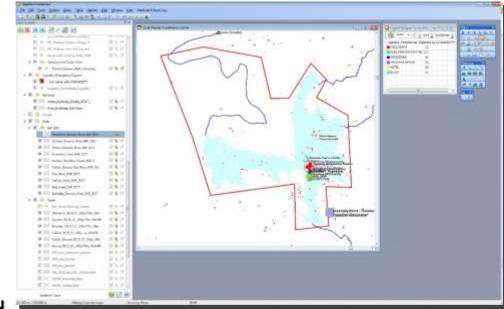
MAJOR FLOOD STUDY COMPLETED WITH RESULTANT DEFINED EVENT MODEL POLYGONS THESE MODEL EXTENTS USED TO CREATE EMERGENCY ALERT POLYGONS (EAP) FOR RESIDENT WARNINGS BY TEXT MESSAGE NOTIFICATION FROM STATE

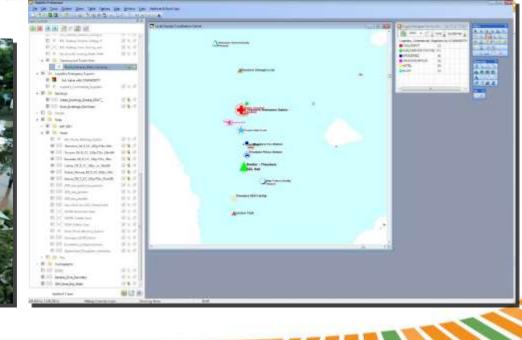


THEODORE: DEFINED FLOOD EVENT POLYGON BUILDING POLYGONS POINT FEATURES

Image below: December 2010 - For the first time in Queensland history, an entire town was evacuated when Theodore flooded. Photo Daryl Wright

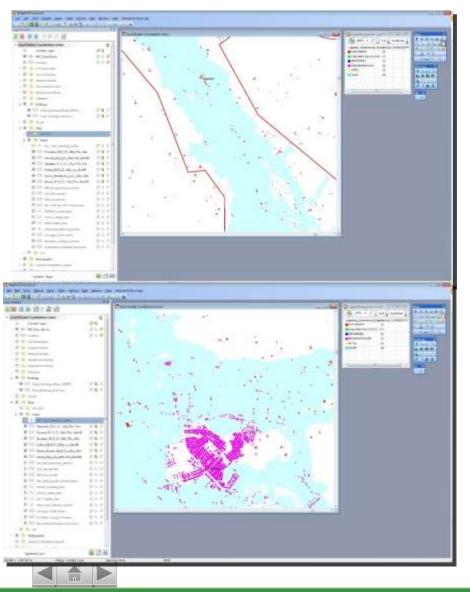








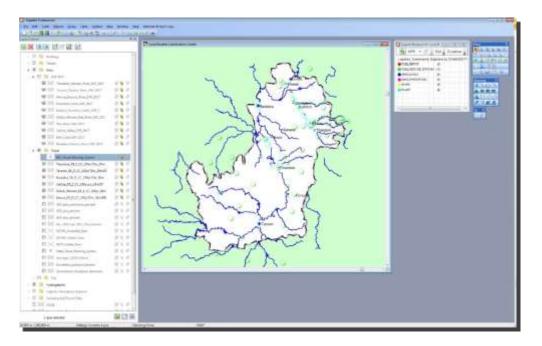




NOW USING THE PITNEY BOWES GEOVISION PRODUCT, SPATIAL QUERIES ON HOW MANY BUILDINGS MIGHT BE IMPACTED, AND THEREFORE PEOPLE, BY A DEFINED EVENT, CAN NOW PROVIDE AN ACCURATE ANSWER



WaterRIDE IS COUNCIL'S TOOL FOR FLOOD MODELING AND COUNCIL HAS BEEN INSTALLING ITS OWN RAIN AND RIVER HEIGHT GAUGES TO GATHER DATA, AS WELL AS USING DATA FROM EXISTING BOM GAUGES, TO PROVIDE ACCURATE REAL TIME DATA FOR THE FLOOD MODELLING TOOL SO AS TO PROVIDE RESIDENTS WITH MORE TIMELY WARNINGS ON ANTICIPATED FLOOD HEIGHTS







SPATIAL VISION FOR THE FUTURE

CREATE MORE DATA SETS EG. POINT FEATURES INDICATING ALL THE KNOWN ROAD FLOODING SITES

3D CAPABILITY

CONVERTING ALL DATA TO SPATIAL OBJECTS IN A SQL SERVER





WaterRIDE:

waterRIDE is an offering from Digital Enterprise, the digital arm of the independent global advisory firm Advisian.

Advisian is part of the WorleyParsons Group.

waterRIDE is the ultimate Floodplain Management software allowing anyone to manage flood risks easily and visually.

waterRIDE enables you to utilise flooding information to determine the specific impact on you, your community, or your business.

The word waterRIDE is an acronym for water resources integrated development environment, representing the original concept.

waterRIDE has evolved to encompass a number of other fields where visualisation and analysis of time-varying spatial data is relevant. Whilst access to numerical modelling results remains a key focus, the tools are increasingly being used for presentation of GIS data and parametric models, and for field data capture.

Images courtesy of waterRIDE network

<u>http://waterride.net/</u>



How is it used?



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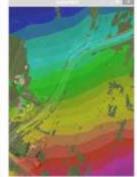
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COUNCIL'S LDCC USES THE GUARDIAN SYSTEM FOR DISASTER MANAGEMENT AND INCIDENT MANAGEMENT.

THE GIS SPATIAL TOOL ASSISTS THE LDCC TO MANAGE ITS RESPONSE.

Guardian:

The Guardian software suite is a QIT Plus company disaster management software and incident management solution.

Guardian Control - Local incident coordination

and

Guardian Disaster Dashboards - Public incident information portal

Images courtesy of QITPlus

https://www.gitplus.com/#workProcess



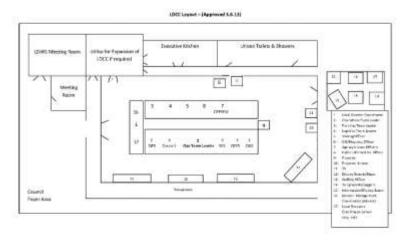






Banana Shire Council Council Chambers LDCC CONFIGURATION

Diagram of Local Disaster Coordination Centre Activation configuration



Banana Shire Council Council Chambers Configured for Local Disaster Coordination Centre TC Iris Alert activation









Banana Shire Council

Disaster Management Dashboard

http://emd.banana.gitplus.com/

Images courtesy of Banana Shire Council

Banana Shire Council

Tourism web site

"Sandstone Wonders"

https://sandstonewonders.com/

BANANA SHIRE INFORMATION



sandstone Wonders

