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Virtual World Asset Management

The world is changing faster than ever before.

The world's infrastructure and energy sources need to adapt to face the future. In the coming decades, climate change, population growth and urbanization will increase demand for energy, water, large-scale construction, infrastructure and natural resources.

Utilities are Looking to Solve BIG Problems

Ensure Reliability, Safety, Reduce Wildfires, Storms, Floods, Regulations, Compliance, Risk Mitigation and Digital Transformation

SERVICES > LAND ASSET INTEGRITY > ROAMES POWER > ARTICLES >

REDUCING POWER LINE ASSOCIATED WILDFIRE RISKS

REDUCING POWER LINE ASSOCIATED WILDFIRE RISKS

Technology and Innovation | 21 June 2018 | By Fugro Media

Managing and maintaining power infrastructure networks is becoming increasingly demanding for utility providers with extreme weather events, such as prolonged droughts, presenting a complex set of challenges. Fugro's expertise in asset management and innovation has combined to create a unique and comprehensive digital solution to nature's problems.

The challenge of how to manage and maintain critical power infrastructure networks is central both to utilities and the communities they serve. As power cables wind their way across urban and rural environments, nature's impact is not exercised just though weather events but in the less dramatic, but just as inevitable, spread of natural vegetation.

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Need Solutions

Proven – Reliable – Sustainable – Defensible

ROAMES

Roames service combines innovative mapping techniques with cutting-edge data processing, data analytics and cloud computing capabilities to deliver an accurate and dynamic 4D virtual model of assets.

2015 EEI Edison Award Winner

IET AWARDS The Institution of Engineering and Technology

UK ENERGY INNOVATION AWARDS 2016 – FINALIST –

QUEENSLAND SPATIAL EXCELLENCE AWARDS

Over 1.5 Million Networks Miles

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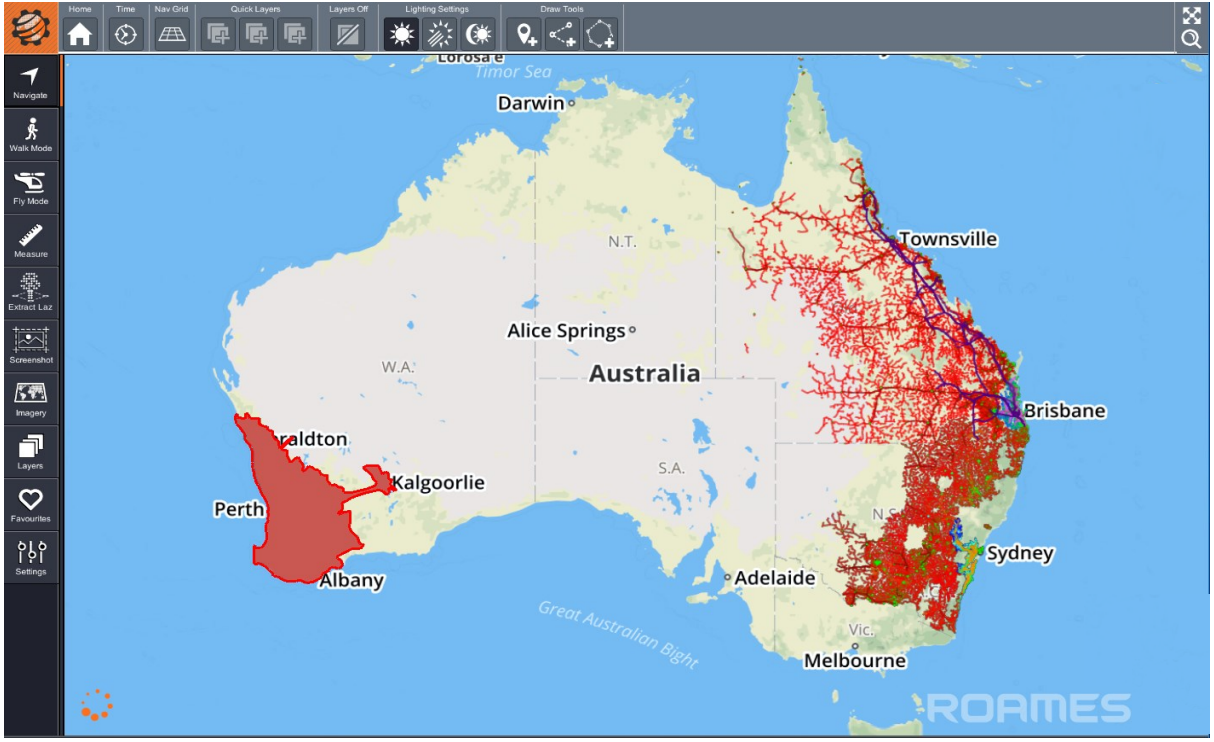
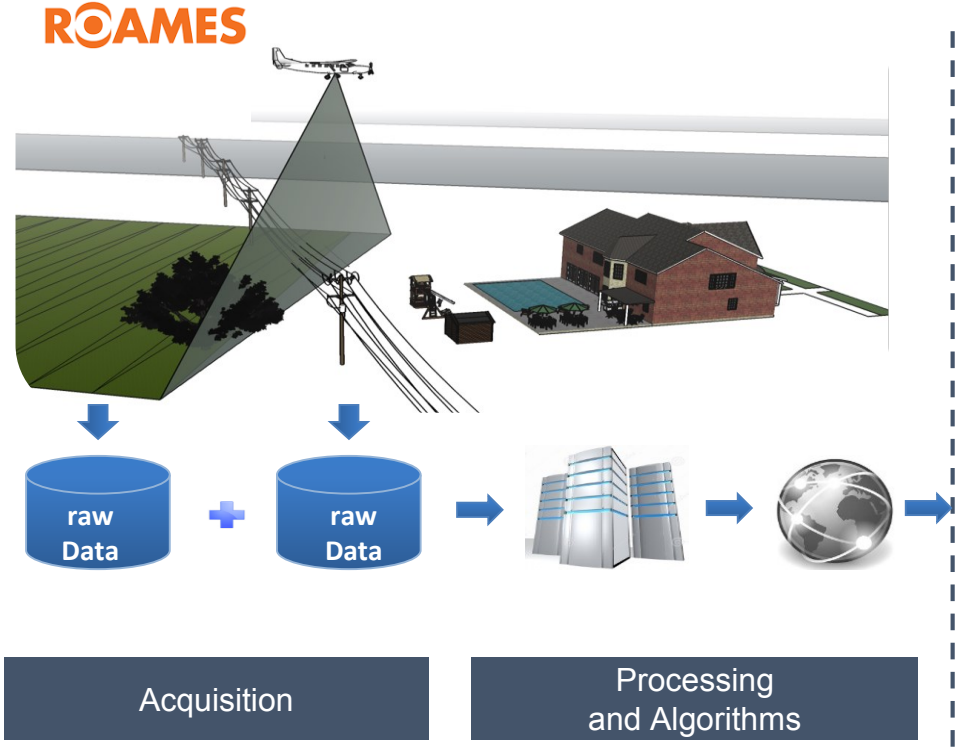
Built for a Utility by a Utility

ROAMES

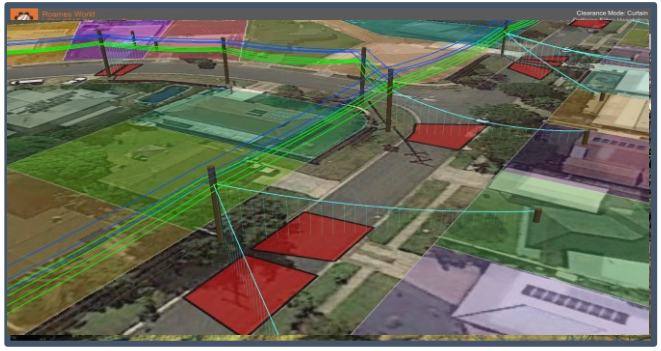
- Bush Fire
- Asset Management
- Vegetation Management
- Risk Management
- Asset Condition
- Tree Specie Solutions
- Disaster Management

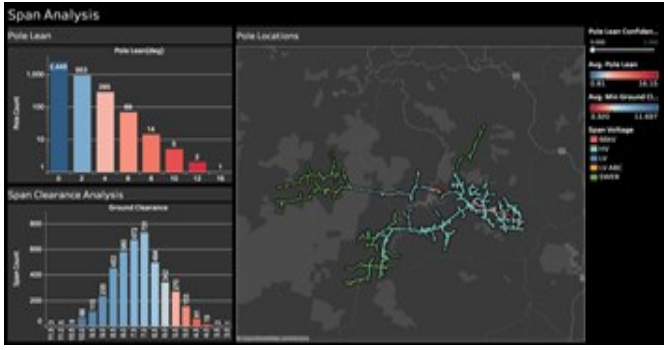


4D Virtual World Asset Management – Digital Utility



Asset Analytics and Visualization





Asset Matching

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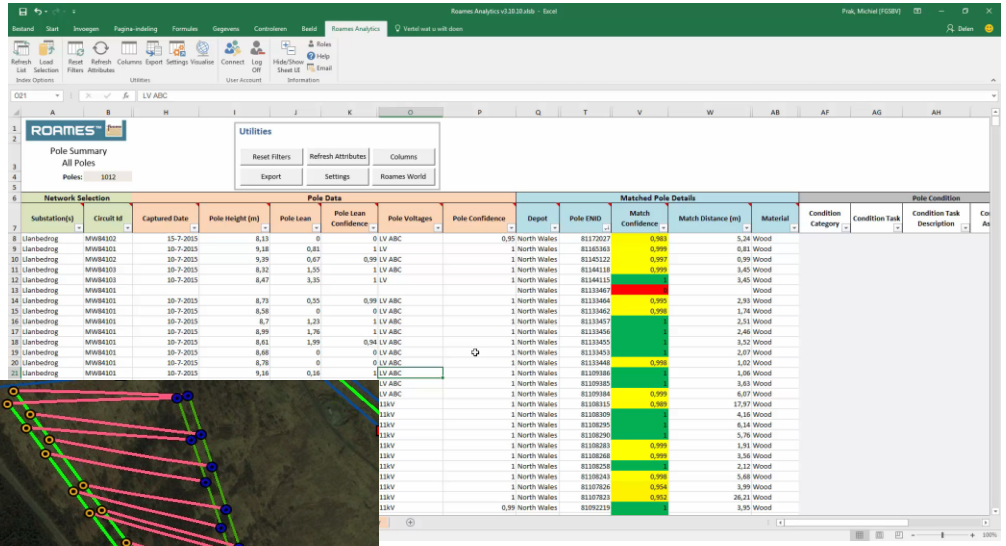
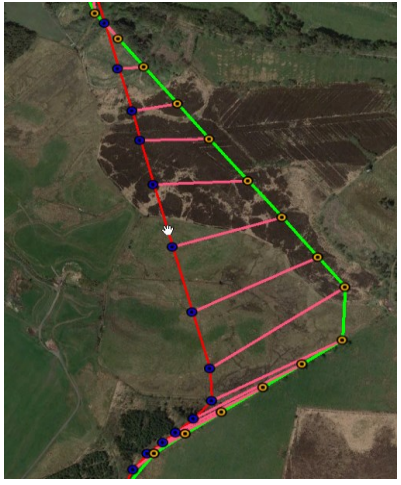
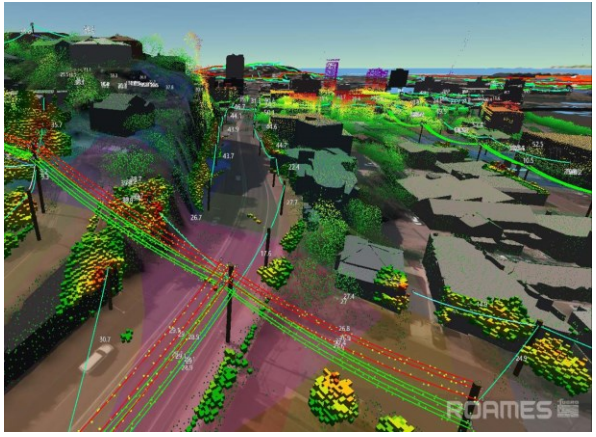
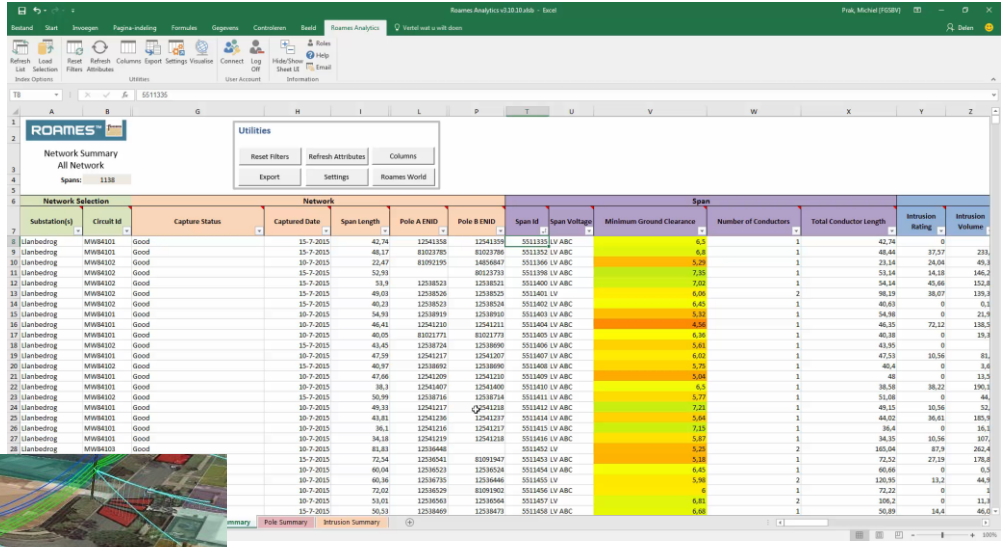
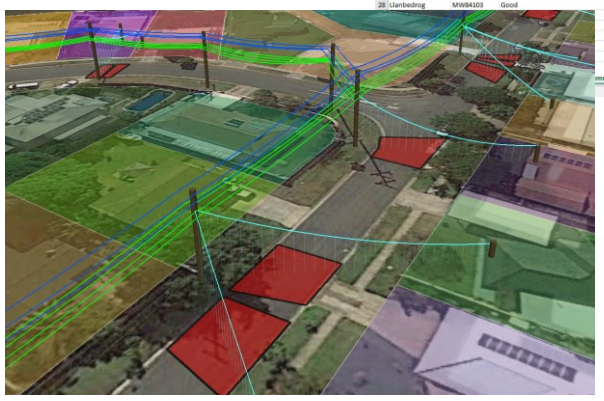




Risk Management







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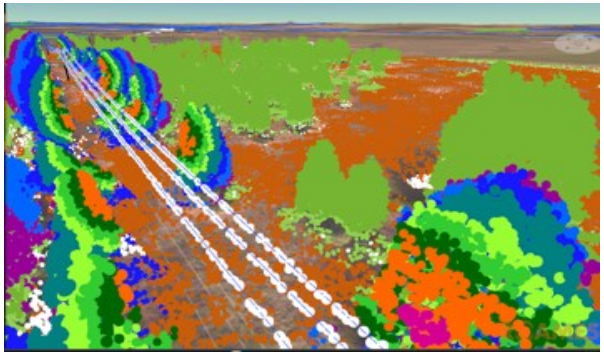
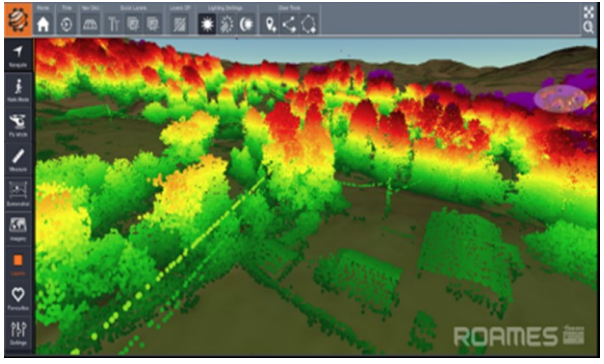
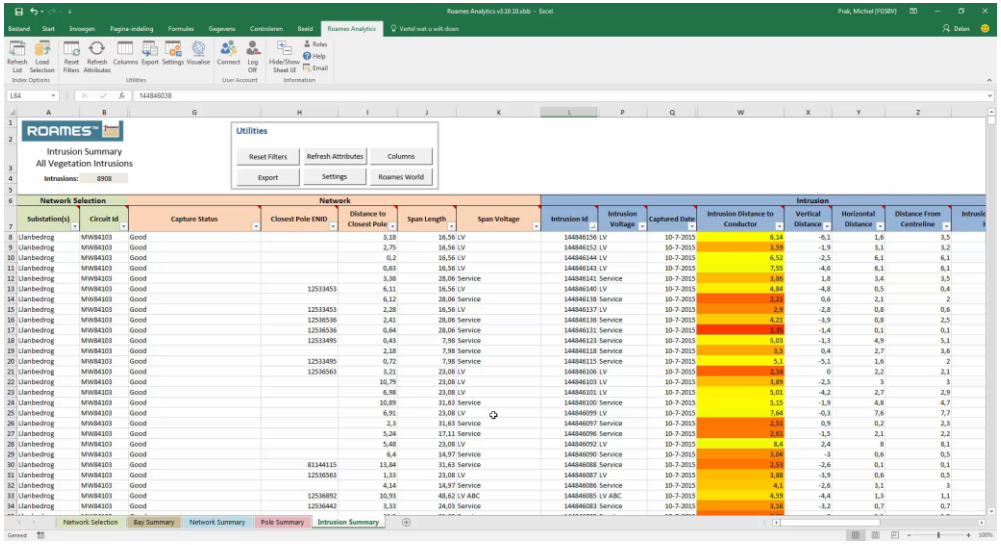
Vegetation Management







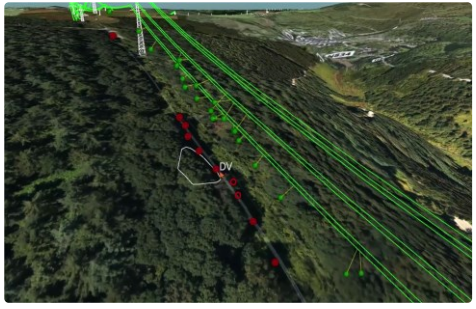


Table 15: Basic classification scheme

Code	Classification Description	Colour	Red	Green	Blue
2	Ground		201	93	9
5	Vegetation greater than 2 metres		118	181	49
6	Vegetation ground to 2 metres		148	208	80
8	Model key points		201	93	9
41	Unknown feature code		255	255	255
50	Offending vegetation class A1	Red	255	50	0
51	Offending vegetation class A2	Dark Red	204	0	0
52	Offending vegetation class A3	Violet	214	0	147
53	Offending vegetation class A4	Orange	255	102	0
54	Class 1 – Vegetation beyond the minimum vegetation clearance by between 0 and 0.5m.	Dark Green	0	102	0
55	Class 2 – Vegetation beyond the minimum vegetation clearance by between 0.5m and 1.0m.	Green	51	204	51
56	Class 3 – Vegetation beyond the minimum vegetation clearance by between 1.0m and 1.5m.	Light Green	153	255	51
57	Class 4 – Vegetation beyond the minimum vegetation clearance by between 1.5m and 2.5m.	Teal	0	128	128
58	Class 5 – Vegetation beyond the minimum vegetation clearance by between 2.5m and 3.5m.	Blue	26	26	255
59	Class 6 – Vegetation beyond the minimum vegetation clearance by between 3.5m and 4.5m.	Light Blue	0	102	255
60	Class 7 – Vegetation beyond the minimum vegetation clearance by between 4.5m and 5.5m.	Purple	153	0	153

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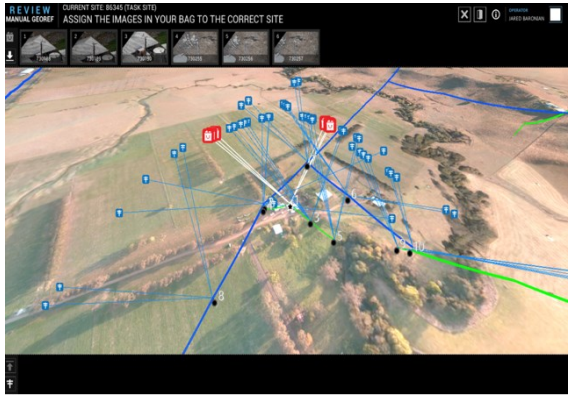
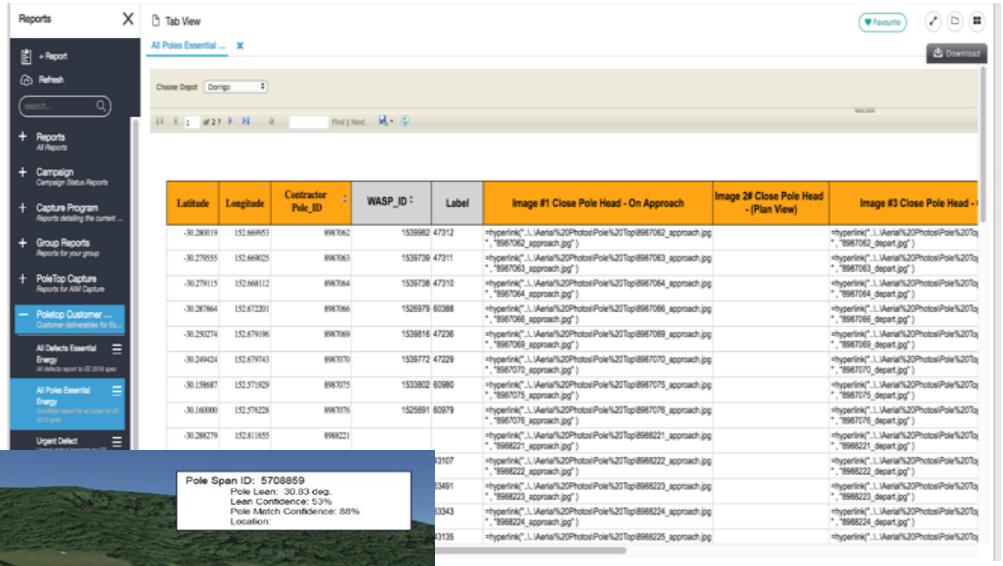
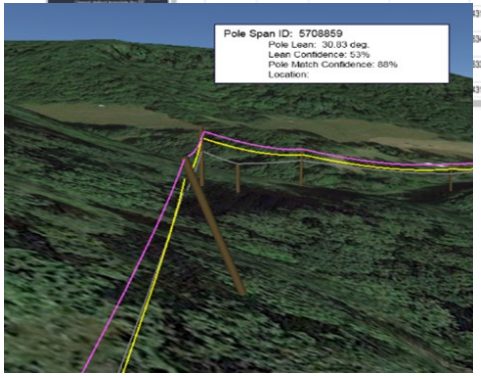
Asset Condition Assessment







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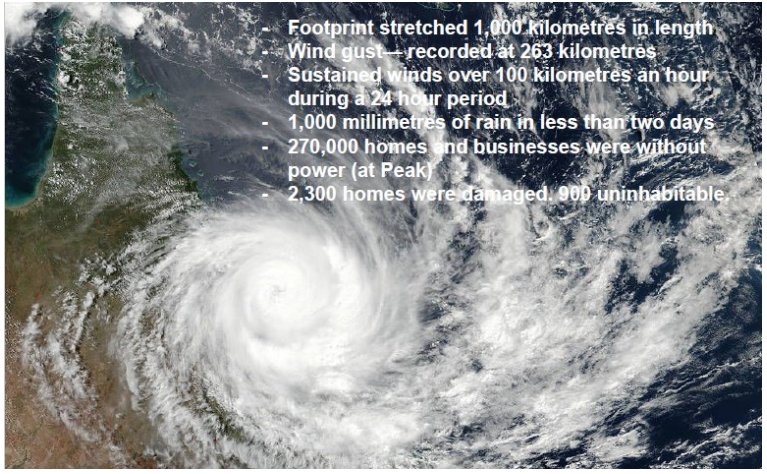
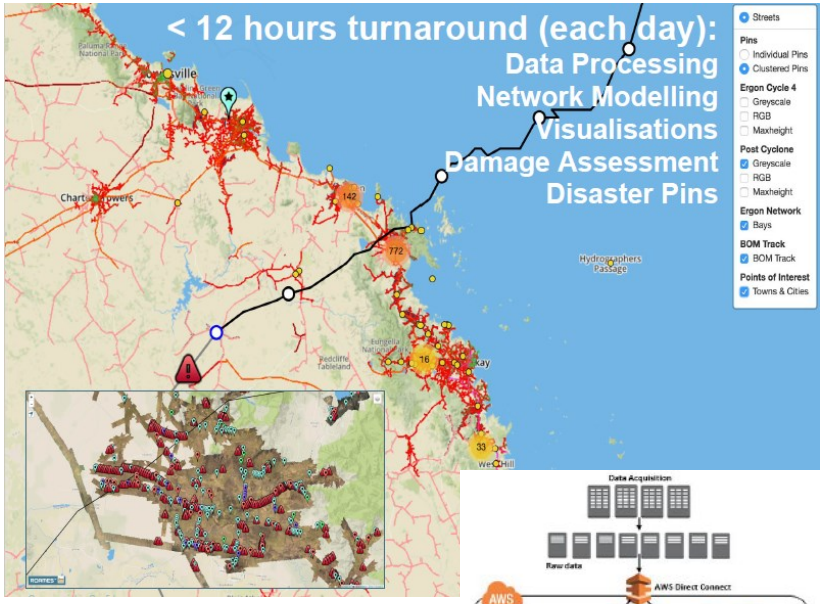
Disaster Management Solutions

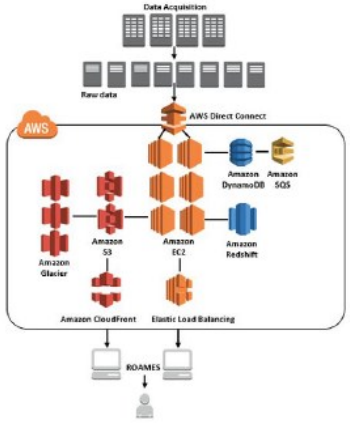
FUGRO'S ROAMES SOLUTION SUPPORTS ERGON ENERGY'S RESPONSE TO CYCLONE DEBBIE

Soon after Tropical Cyclone Debbie struck Queensland, Australia, Fugro deployed its Roames solution to detect the damage to the electricity distribution network and support Ergon Energy's recovery efforts.

Brisbane, Australia
07 Apr 2017







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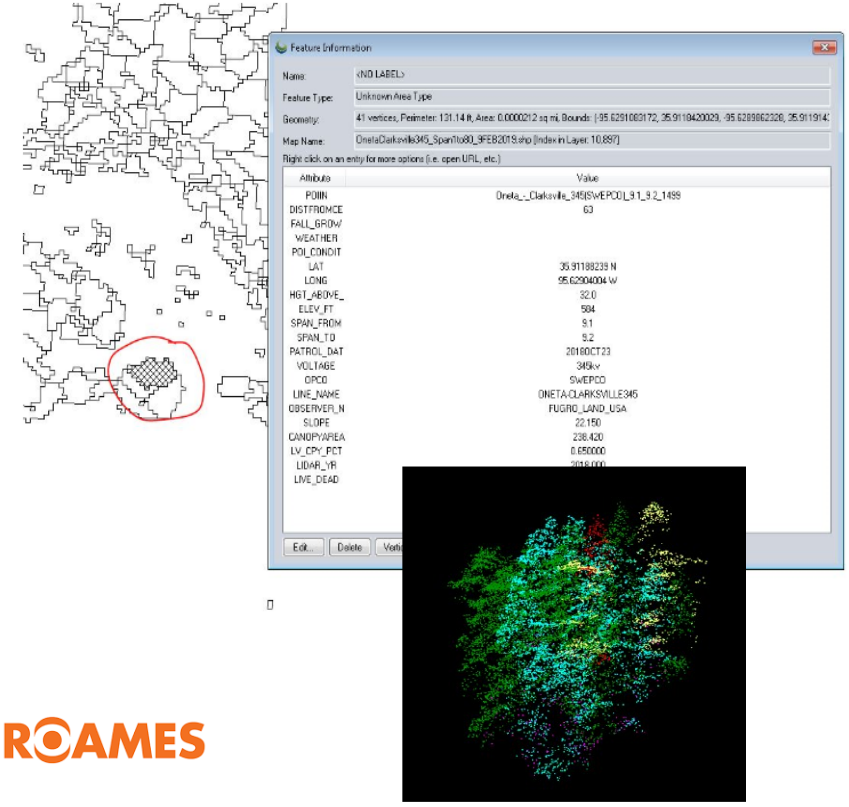
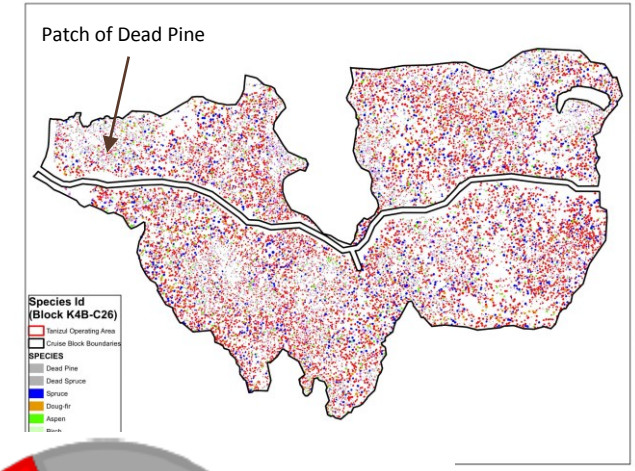
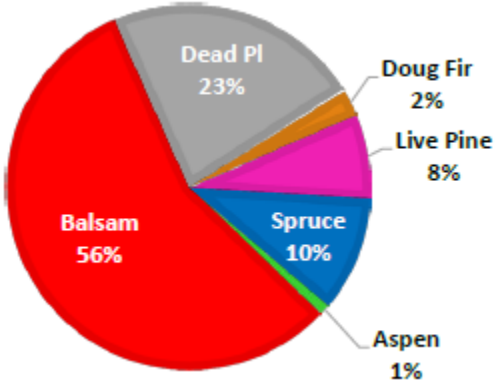
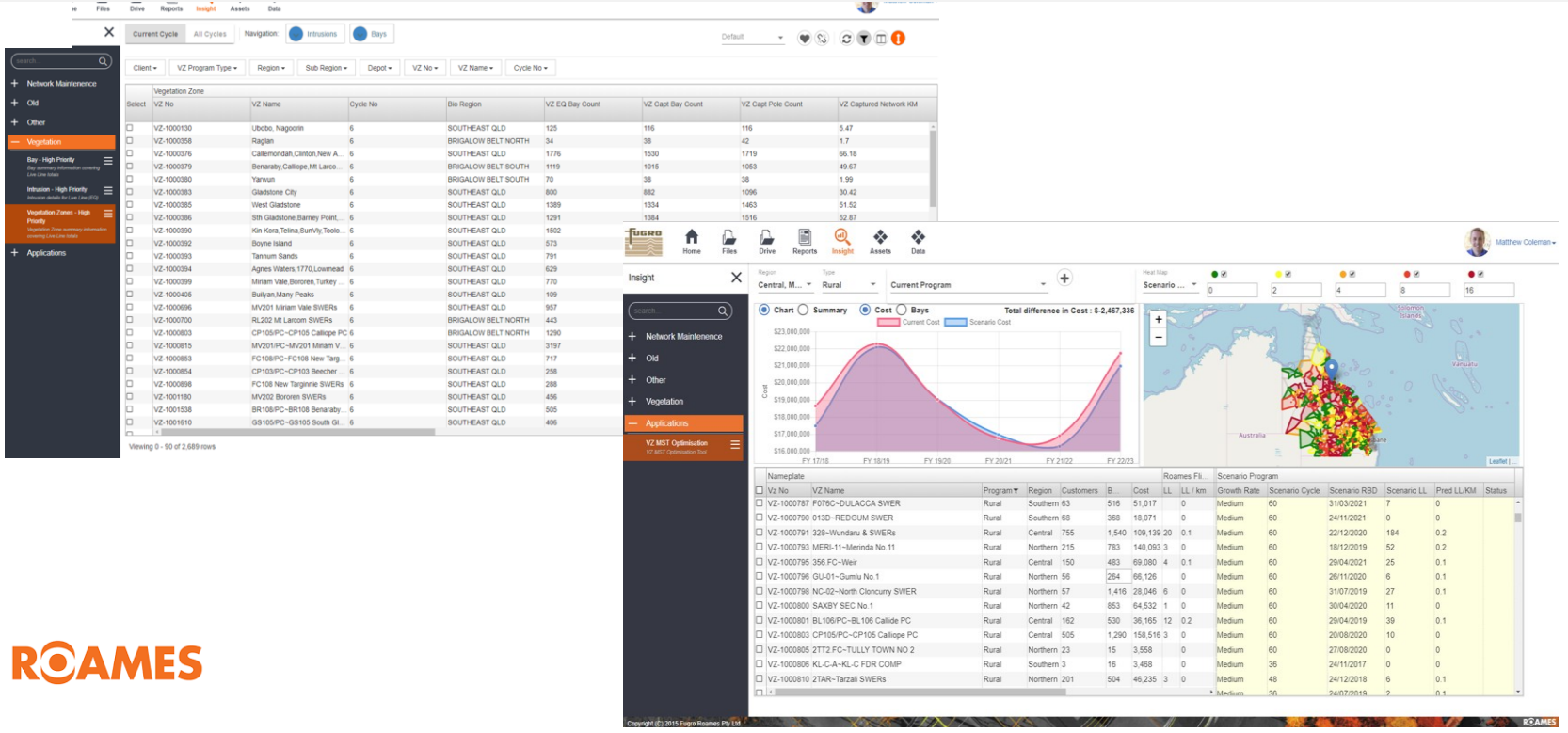
Tree Specie Solutions







Big Data and Predictive Analytics



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Realized Benefits

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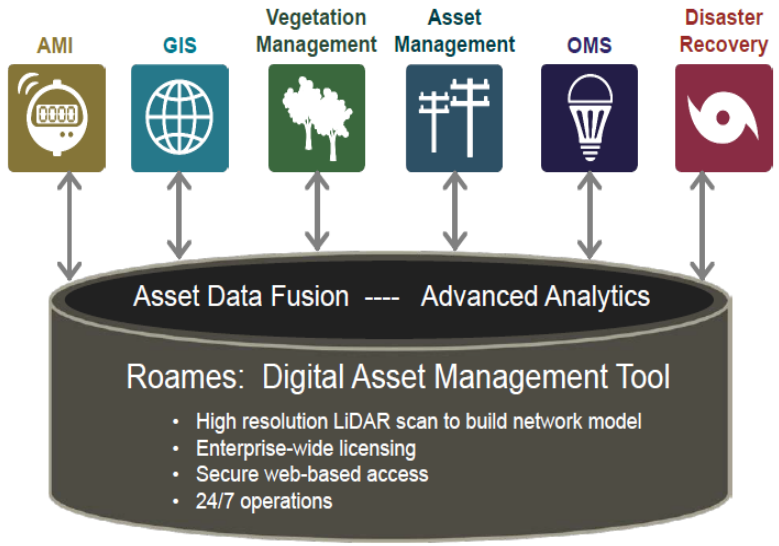
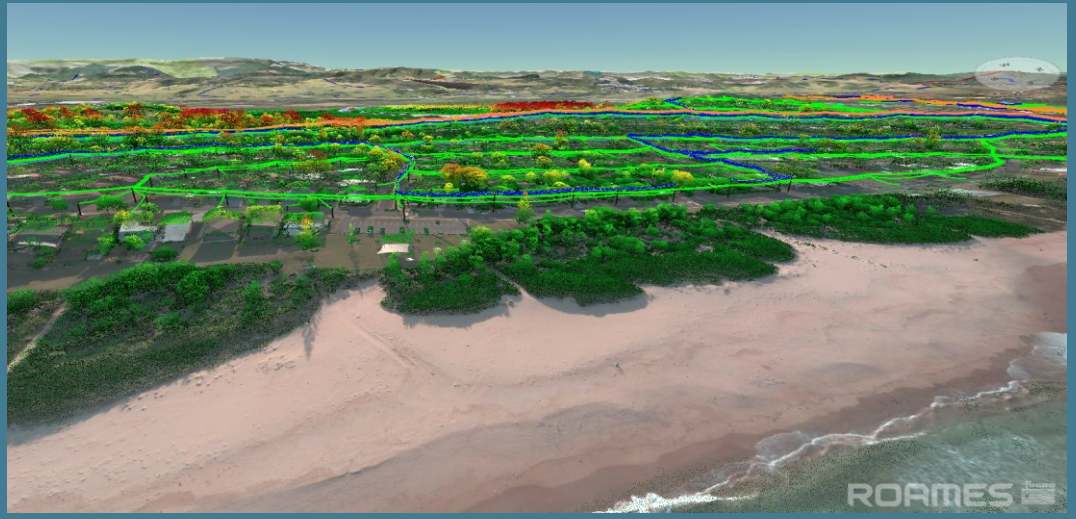
- Increase Reliability
- Increase Safety
- Reduce Risks
- Reduce Costs
- Deliver at Scale
- Annual Audit of Network



Creates a Single Version of Truth for the Enterprise

QUESTIONS / DISCUSSION



Anthony D. Palizzi
Fugro USA Land, Inc.
Regional Manager Power, Americas
a.palizzi@fugro.com
+1 303.378.0684