




MARINE ESTATE MANAGEMENT AUTHORITY

Working together to manage our marine estate

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SHAUN MORRIS & SUSAN DAVISON – NORTH COAST LOCAL LAND SERVICES

NSW marine estate management strategy
Mitigation of Diffuse Pollutants via Management of Riparian Zones Riverbanks and Roads

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NSW Marine Estate Management Strategy 2018-2028 - Initiative 1: Improving water quality and reducing litter

Aims to mitigate against the impacts of diffuse pollutants (nutrient and sediment loads)

LLS delivering against three sub-actions:

- Sub-action 1.3.2 riparian rehabilitation
- Sub-action 1.3.4 bank protection (erosion control)
- Sub-action 1.3.6 erosion from rural roads/tracks.

LLS coordinating a \$9.75M program over 2 years

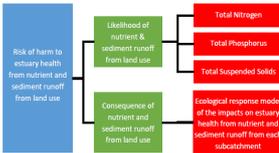
- North Coast LLS \$4M (Richmond pilot) – Lead Coordinator
- Hunter LLS \$2.5M
- South East LLS \$3.3M



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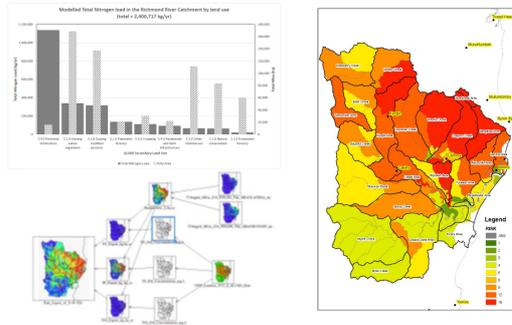
Richmond River Pilot Project – Evidence approach

- Multi-criteria Analysis Shell for Spatial Decision Support (MCAS-S)
- Endorsed by the Risk Based Framework (RBF) developed by OEH and Ecohealth results
- Prioritised sub catchments based on:
 - sediment and nutrient loads by land use using a load export analysis
 - 'likelihood' & 'consequence' of an impact on marine environmental assets




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Richmond River Pilot Project – Evidence approach



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Site Selection - Erosion

- EOI for priority sites to key stakeholders
- Proximity to protected aquatic communities
- Rate of erosion (~500mm/yr compared to natural rates ~50mm/yr)
- Geomorphic condition (recovery potential)
- Suitability for habitat enhancement
- Capacity for ongoing commitment to land management



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Site Selection - Roads and Tracks

- EOI for priority sites by key stakeholders
- Proximity to protected aquatic communities
- Length of road and orientation
- Proximity to other sub action initiatives
- Commitment to ongoing maintenance



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Site Selection - Revegetation

- Sites selected and landholders engaged directly by North Coast
- Includes bush regeneration and revegetation works
- Parameters include proximity of drainage lines to Macadamia farms
- Proximity to other sub action initiatives
- Landholders commitment to widening riparian widths, stock fencing and ongoing maintenance



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Progress so far - Erosion

- Sites for Yr 1 and Yr 2 selected
- Yr 1 site deed executed
- 30 logs and 30 reefballs used in Yr 1 works
- Soil Con engaged to undertake work – Stage 1 completed end of July
- Achieved 600m of stabilisation over two sites



Progress so far – Roads and Tracks

- Grant executed with Ballina Shire Council to prevent 1300 tonnes of road base material entering Emigrant Ck per flood
- Includes significant in-kind (\$)
- 5 Council managed sites complete
- 1 private road site complete
- Exceeded Yr 1 target (4 sites)
- 3200m of road sealed



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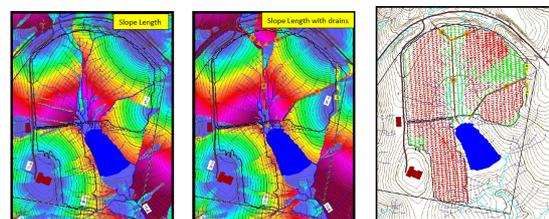
Progress so far - Riparian

- Sites for Yr 1 selected, selection of Yr 2 sites underway
- Over 20 kms/35Ha completed
- 15 land management deeds finalised
- Yr 1 target achieved – on track for Yr 2



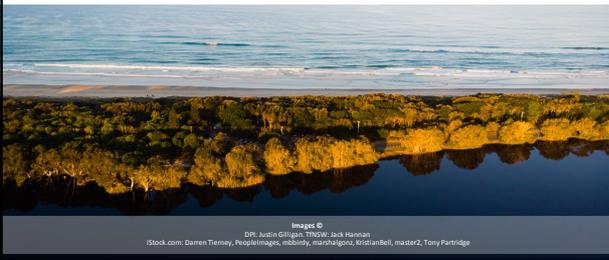
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Progress so far – Riparian – LIDAR Value adding



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Questions?



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