Urban Creek Recovery in a Regional Approach

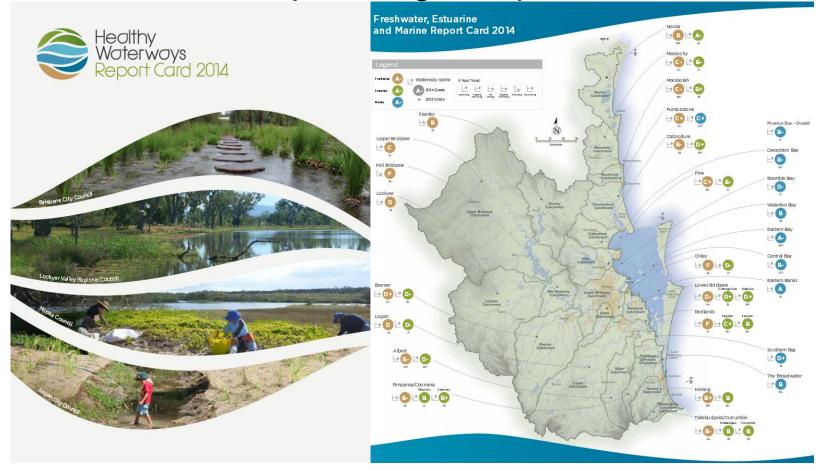
Matthew Fullerton



How do we manage rivers?



Information for planning and prioritisation





Monitoring and Modelling

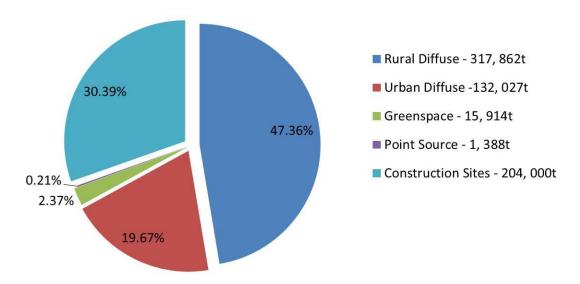
Healthy Waterways Monitoring Progam - Environmental Component

	FRESHWATER CATCHMENTS	RIVER ESTUARIES	MORETON BAY
Key pressures and management measures Used for model inputs to track progress towards targets	 Riparian, wetland & gully extent Land use (eg agricultural land management) 	 Point source discharge loads Diffuse loads 	
Models To predict waterway condition	Source model (catchment)	Receiving water quality model	Receiving water quality model
Monitoring Used to validate waterway condition	 Aquatic invertebrates Fish Rates of primary productivity & respiration Water quality Load-based monitoring of sediments and nutrients 	 Riparian, wetland & mangrove extent Chlorophyll a Toxicants Water quality Field monitoring (Physical/chemical, nutrients, chlorophyll a) Continuous sensors 	 § Seagrass & wetland extent & condition © Coral © Nuisance algae ✓ Fauna Mud content of sediment Water quality Field monitoring (Physical/chemical, nutrients, chlorophyll a) Underway sampling from vessels I Continuous sensors



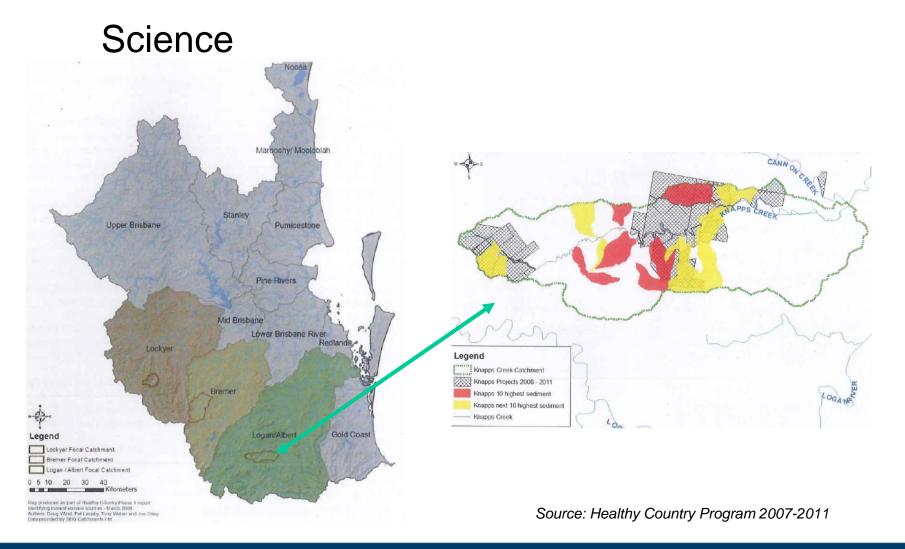
Modelling

Estimated Annual Sediment Contribution



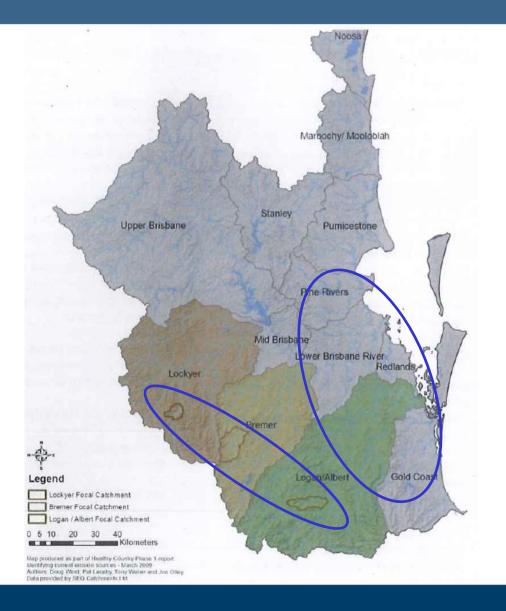
Source: Healthy Waterways Integrated Urban Water Scientific Expert Panel







Personalisation





Personalisation





Urban river recovery





Urban river recovery





Bundamba Creek





Bundamba Creek





