

# Desain Regeneratif melalui Pengolahan Air Limbah, Konservasi Vegetasi Alami, Pertanian Perkotaan, dan Perumahan Modular di South Fremantle, Western Australia = Regenerative Design through Wastewater Management, Native Vegetation Conservation, Urban Agriculture, and Modular Housing in South Fremantle, Western Australia

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## Abstrak

Pemutusan antara bentang alam Australia yang kaya akan flora dan faunanya dengan warga negara Australia yang mencakupi demografi yang beragam, membutuhkan desain regeneratif yang mempromosikan sistem holistik. Dalam proyek ini, tindakan regenerasi bekas tambang di South Fremantle, Western Australia bertujuan untuk membangun Kawasan pemukiman menengah yang memadukan satwa setempat dan komunitas regional yang beragam budayanya. Menggabungkan teknologi modern dan teknik manajemen lanskap. Desain dibuat berdasarkan karakteristik alami situs terpilih, seperti implementasi keylines yang mengikuti topografi lokasi, pelestarian tanaman local, pertanian tradisional dan system pengolahan air limbah melalui lahan basah. Sementara proyek perumahan individu berfokus pada penyediaan rumah yang fleksibel, mudah beradaptasi dan modular untuk karaktertisti klien yang mencakup komunitas beragam.

.....Disconnection between the rich flora and fauna of the Australian landscape and the diverse demographic of the Australian citizen calls for a regenerative design which promotes a holistic system. In this project, the act of regeneration of a former quarry in South Fremantle, Western Australia aims to construct a medium residential area. Integrating local wildlife with the diverse demographic of the regional community.

Incorporating modern technology and indigenous landscape management techniques. Designed based on the natural characteristics of the site, such as implementing tree keylines, which follow the original topography of the site, preserving native vegetation plantations, traditional farming and wetland wastewater treatment system are incorporated into the grand scheme of the site. While the individual housing project focuses on providing a flexible, adaptable and modular housing for the vast characteristic of possible clients.