

Intellectual Capital for Communities in the Knowledge Economy Nations, Regions, Cities and Emerging Communities





World Conference on Intellectual Capital for Communities
- Fourth Edition -



Building Intellectual Capital on Water Management in a Desert Environment

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Alice Springs Australia's Solar Centre





Desert Knowledge Movement

Idea of desert knowledge

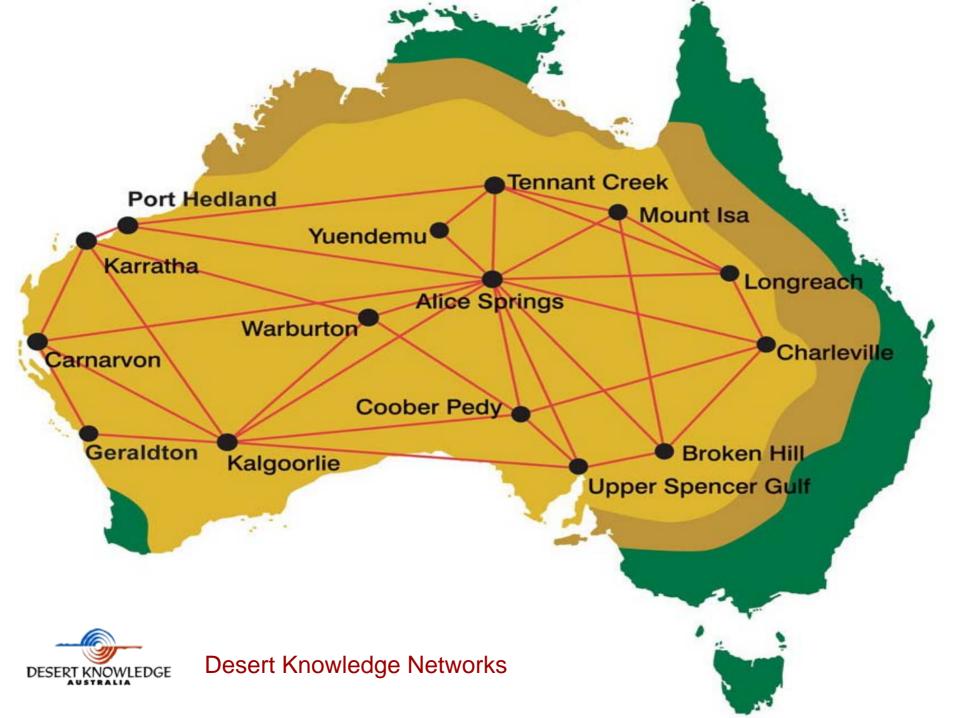
Desert knowledge movement







Desert knowledge partnerships





Idea

Desert know-how

- + Desert ideas
 - + Desert innovation
 - = Desert knowledge

(Formal & informal; Indigenous & non-Indigenous; existing & required/potential)



The Context



The Alice Springs Water Reuse Scheme is a part of the Urban Water Management Strategy, which seeks to identify and evaluate options for the development of water supply and waste management systems into the 21st century.



The Project

- Identify and develop a system to store and reuse waste water from a desert community of 30 000 people (plus 500,000 visitors) in order to:
 - Reduce pressure on potable water supplies
 - Reduce impacts of waste water discharge
 - Create economic, social and environmental benefits from a current liability





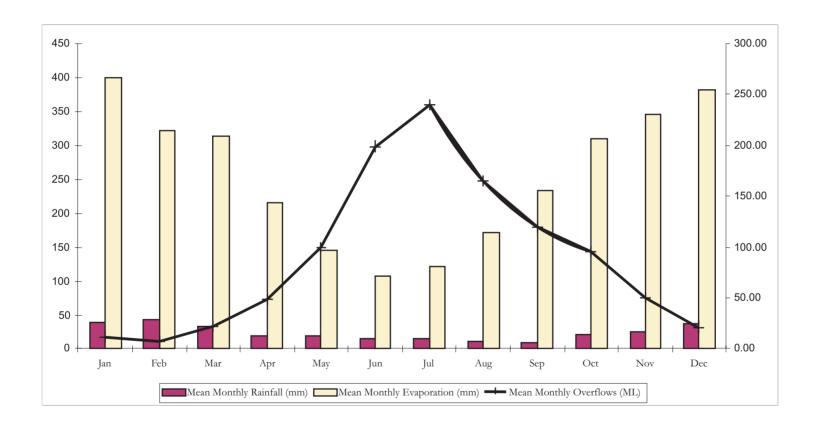


Process of Intellectual Capital Development in Water Management

- Identifying sources of information which address the particular local situation
- Assessing knowledge from global sources on water management
- Negotiating with indigenous people to incorporate their intellectual property within a framework of locally adapted knowledge
- Developing local expertise relevant to communities by integrating elements of water management relevant to the environment
- Rights of access to knowledge and sharing of outcomes
- Appropriately acknowledging and valuing knowledge sources



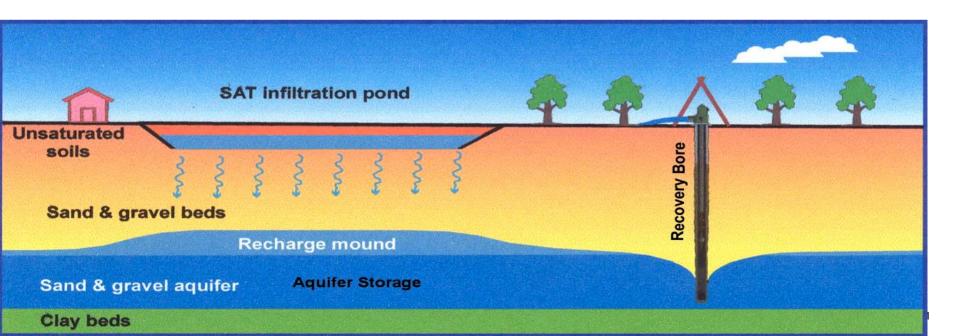
Water in an arid environment





Soil-Aquifer Treatment?

 Soil-aquifer treatment or geopurification involves infiltrating storm or waste water through the soil to the aquifer below and is a form of artificial recharge.





Key Project Elements

- Site selection
- Surveys of archaeology, flora and fauna
- Hydrogeological investigation
- Research into Soil Aquifer Treatment
- Compilation of a Geographic Information System
- Development of infrastructure and process for water quality improvement including a Dissolved Air Flotation treatment facility
- Construction of pipeline and infiltration basins
- Statutory Approvals including Public Environment Review, Aboriginal Areas Protection Authority Certificate, Health Approval, Groundwater recharge and extraction licence



Community Engagement

- Site visits and briefings
- Regular public displays
- Consultation with traditional owners
- Presentations

- Mail outs
- Open line to project manager
- Fact sheets
- Website



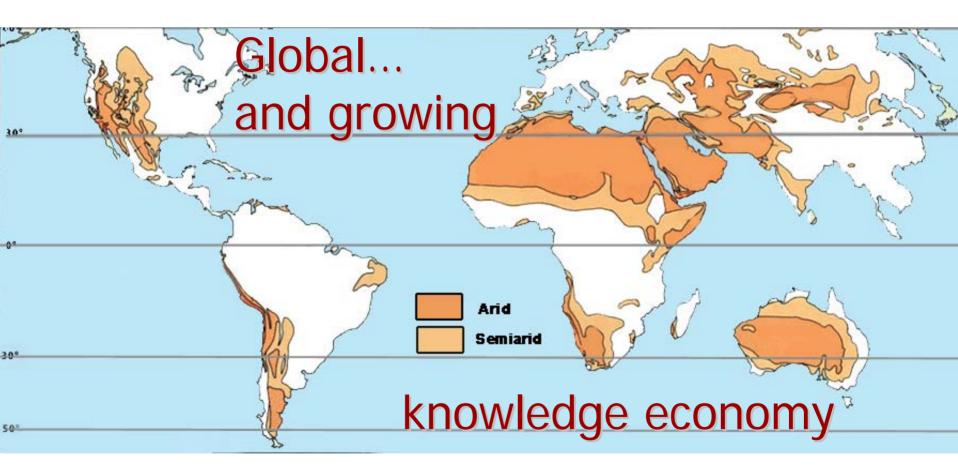


Community Ownership Approach to Intellectual Property Rights

- Incorporating Intellectual Capital into regional best practice and national guidelines for managed aquifer recovery and reuse for agriculture rather than patenting
- Intellectual Property from this project consists of expertise developed in regional project teams which can be applied to other projects efficiently and effectively
- Acknowledge and address specific Intellectual Property ownership rights
- The outcome is public availability of knowledge while building local capacity



Opportunity...



One billion people

1/3 earth's land surface



Other Complementary Projects



Linked to Alice Springs Solar City

Desert Knowledge Precinct Solar Demonstration Facility

- Initially 12 companies comparing a large number of technologies
- Project managed by the Centre for Appropriate Technology
- Scheduled completion end 2008



Acknowledging Water Reuse in the Alice Project Partners

- A joint initiative of the Northern Territory Power and Water Corporation and the Department of Primary Industry, Fisheries and Mines with expert assistance from:
 - Department of Natural Resources Environment and the Arts
 - Department of Planning and Infrastructure
 - Department of Health & Community Services
 - CSIRO
- Power and Water has invested more than A\$11 million and NT Government has made a significant contribution







Business and Innovation Centre





2008 Desert Knowledge Symposium and Business Showcase

Developing Desert Directions: Rethinking the Future

Monday, 3 - Thursday, 6 November 2008 Alice Springs Convention Centre 93 Barrett Drive Alice Springs, Northern Territory 0870

Critical Dates

Abstract Submission Deadline: Submission Notification: Early Bird Registration Deadline: Accommodation Booking Deadline: Friday, 13 June 2008 Friday, 1 August 2008 Friday, 19 September 2008 Wednesday, 1 October 2008

2008

Desert Knowledge Symposium and Business Showcase

www.desertknowledge2008.com











Where to find more information

- www.desertknowledge.com.au
- http://www.powerwater.com.au/aboutus/water_reuse.
 htm
- http://www.nt.gov.au/dpifm/
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