

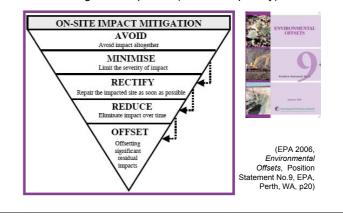
### **1. Mitigation Hierarchy and Offsets Principles**

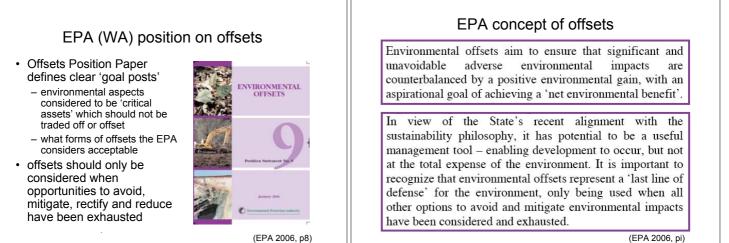
· environmental offsets are intended to be used as a last resort mitigation measure

Simple definition of offsets

(Dept of the Environment & Water Resources, Australia) actions taken outside of a development site that compensate for the impacts of that development

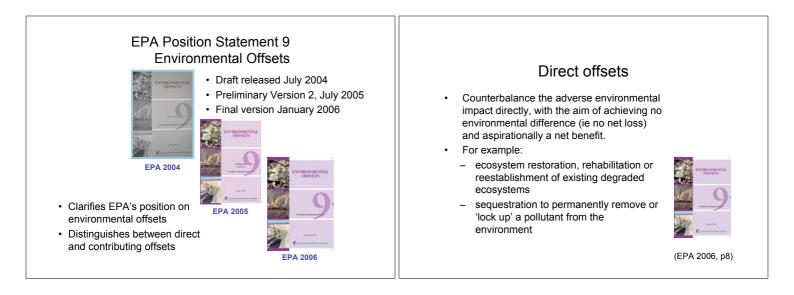
Hierarchy of environmental protection strategies mitigation sequence (in order of priority)

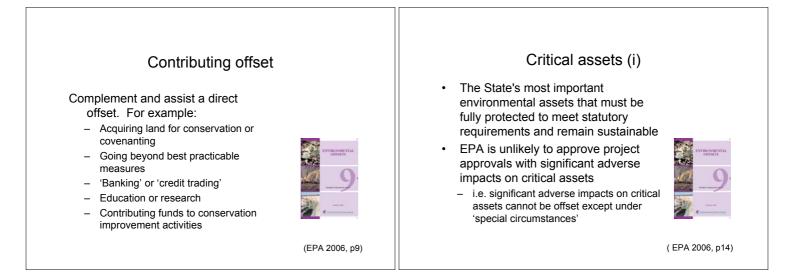


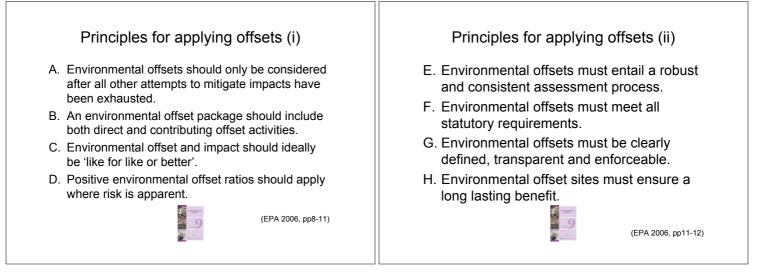


(EPA 2006, pi)













EPA (WA) concerns ab	out use of offsets	More ethics/values aspects
The EPA is also concerned about perceptions that packages are being used to make otherwise 'u impacts 'acceptable' within government. It is aw proposed in the guise of sustainability tools, are son conservation of our State's most valuable env cumulative effects of this type of decision-making in both the quality and quantity of the State's prior of the view that this approach is neither sustai environment. It is also aware there may be equity government. The challenge now is to find the means	nacceptable adverse environmental are that some environmental offsets, letimes over-riding the protection and ironmental assets. Over time, the would contribute to a gradual decline ity environmental assets. The EPA is able nor focused on protecting the issues that need to be addressed by	<ul> <li>have an improvement in environmental quality?</li> <li>environmental quality for whom?; who decides?</li> <li>waste dump/contaminated site that provides good habitat for snakes could be a biodiversity refuge (pers. comm. Ruud Cuperus, The Netherlands, 2006)</li> <li>What about authenticity/things being in their 'natural' place?</li> <li>'Swiss cheese effect' for national parks/natural areas(?)</li> <li>Can you offset loss of a species?</li> </ul>
	( EPA 2006, p1)	<ul> <li>Is 'like for better' possible? (trading up)</li> <li>e.g. offset loss of common (low significance) habitat with rare or threatened habitat?</li> </ul>

## 3. Practitioner Perspectives on the Effectiveness of Offsets Application in WA

Hayes, N and A Morrison-Saunders (in press) The Effectiveness of Environmental Offsets in EIA – Practitioner Perspectives from Western Australia, Impact Assessment and Project Appraisal

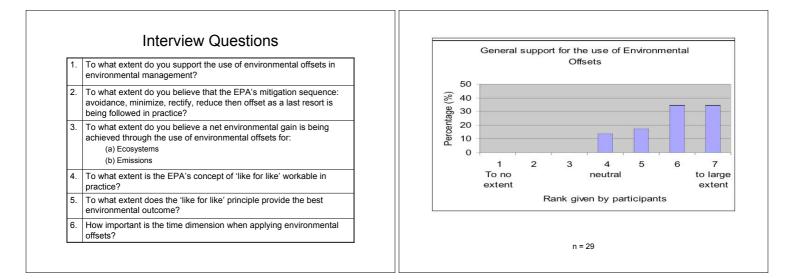
### Study aims and method

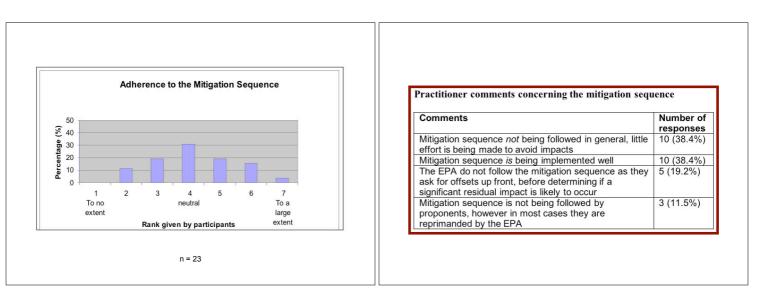
#### Determine:

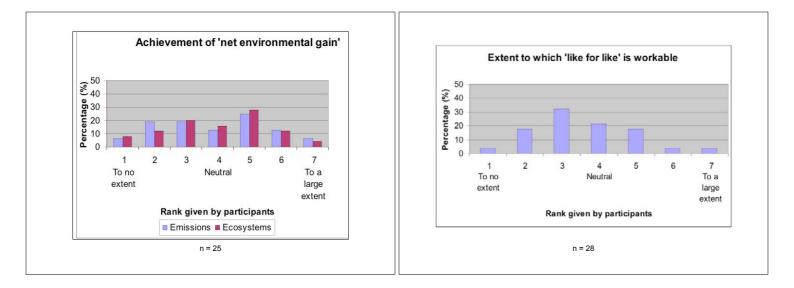
- degree of support for use of environmental offsets in EIA extent to which EPA (2006) principles are being achieved
- in practice

### Interviews with 29 EIA practitioners (WA)

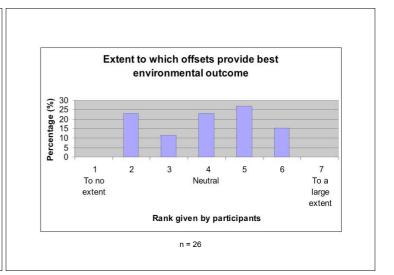
- government agencies (6)
- EIA regulators (6)
- consultants (9)
- industry proponents (8)



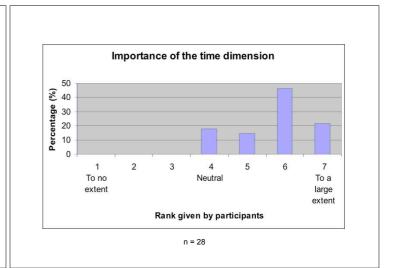




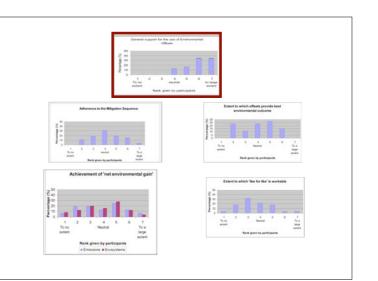
Practitioner comments	Number of responses
'Like for like' is difficult to implement	17 (60.7%)
'Like for like' is workable in practise	6 (21.4%)
Difficult to define 'like for like' and compare values	5 (17.8%)
Difficult due to lack of comparable land, especially in highly constrained areas.	4 (14.2%)



ractitioner comments concerning 'like for like' contribution to nvironmental outcomes Practitioner comments	Number of
	responses
May not provide the best environmental outcome, need for more flexibility	7 (26.9%)
'Like for like' principle is important as it identifies where else the threatened ecological community exists. It is not an offset if it is not 'like for like'	6 (23.1%)
A strategic or prioritised set of natural assets needed to identify where offsets can provide the best outcome.	5 (19.2%)
How is the 'best environmental outcome judged?'	3 (11.5%)
'Like for like' principle does not provide the best environmental outcome	3 (11.5%)



Practitioner comments	Number of responses
The time lag between when the impact occurs and the offset begins compensating for the impact is an important consideration	21 (75%)
The timeline for the implementation of offsets must be clear and within realistic boundaries, considering the companies ability to create income and the clearly defining when liability ends.	7 (25%)
Offsets should be put in at the same rate at which the impact occurs or ideally be provided up front.	5 (17.8%)



# Conclusions

Strong in principle endorsement for use of offsets but considerable concerns about practice...

- implementation does not live up to theoretical expectations
   mitigation sequence not always followed
- 'net environmental gain' not always achieved
- workability of like for like' is challenging and extent to which it produces best environmental outcome is questioned.
- dealing with time lag and timeline of implementation of high importance to resolve