



# *Coastal and estuarine managed realignment – design issues*

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# Benefits

- Can offer sustainable flood management solution
- Reduces coastal squeeze and thus loss of habitat
- Potential for habitat (re-)creation
- Potential to use less resources than hard defences
- Cost savings can be considerable



# Issues



- Relatively few schemes adopted
- Cost savings often not clearly defined
- Limited experience amongst coastal engineers
- Some poor past examples
- No guidance available


# Background



- Environment Agency, Defra and English Nature promote approach
- Lessons learned need to be shared
- Good practice guidance required



# Project objectives

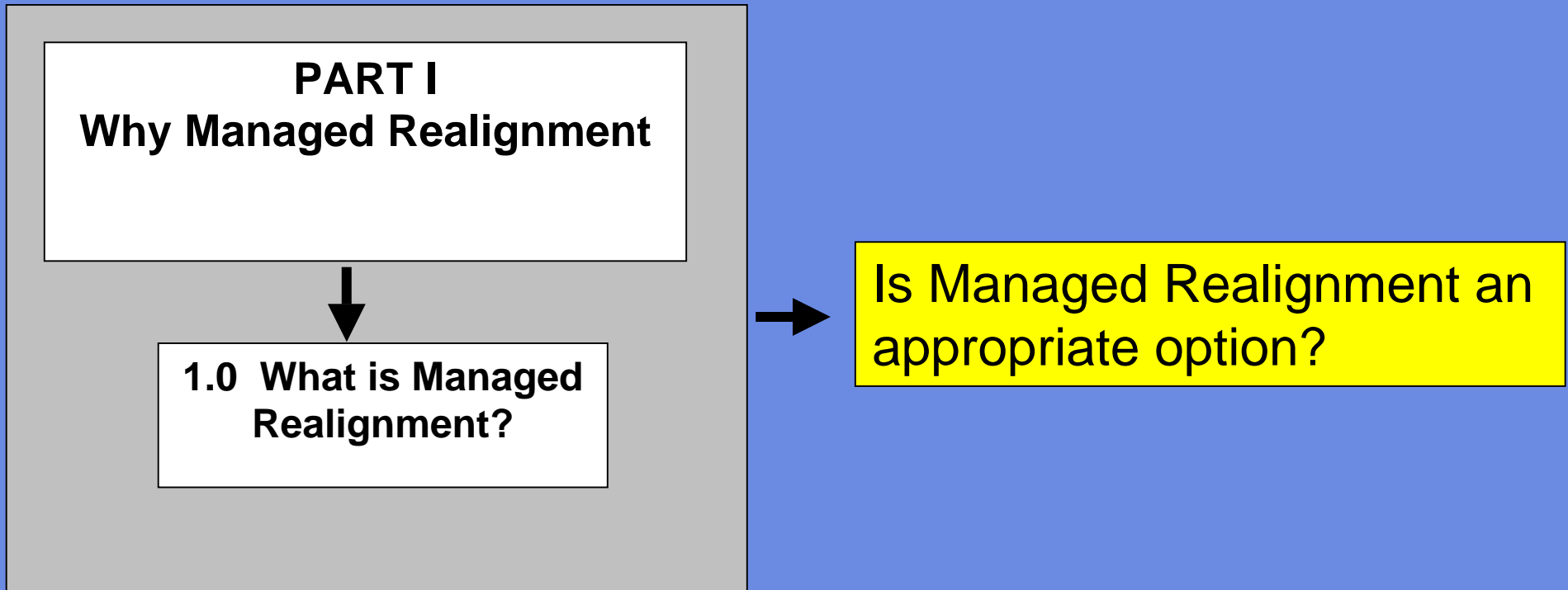


Coastal and estuarine  
managed realignment  
- design issues

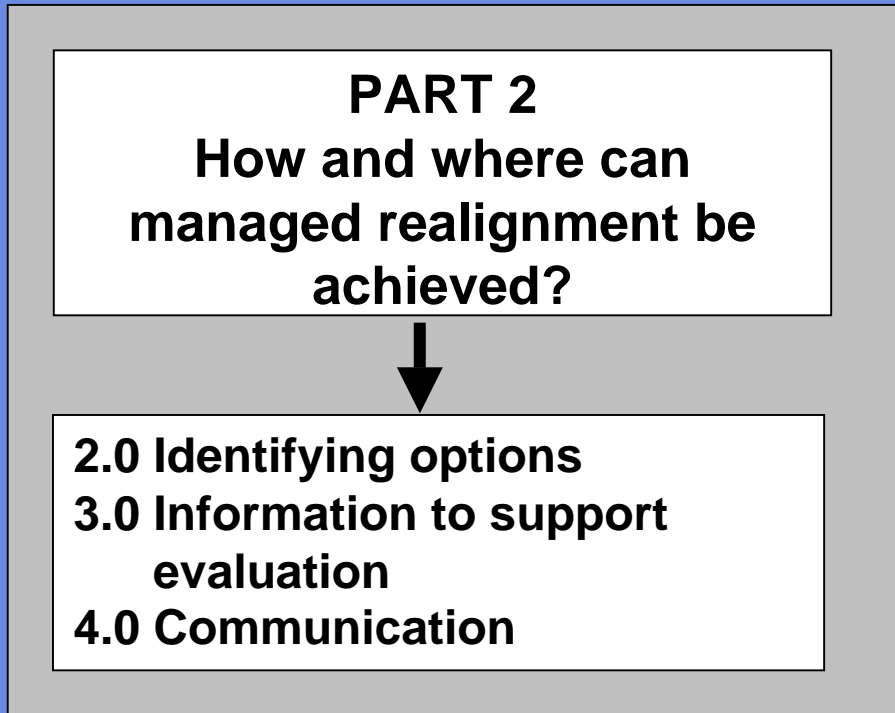
- Improve the design and implementation of MR projects
- Facilitate wider and correct use
- Increase confidence in MR
- Encourage sustainable schemes
- Help conserve and enhance natural coastal environments



# What does the guide provide?

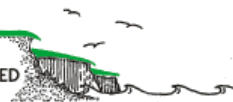
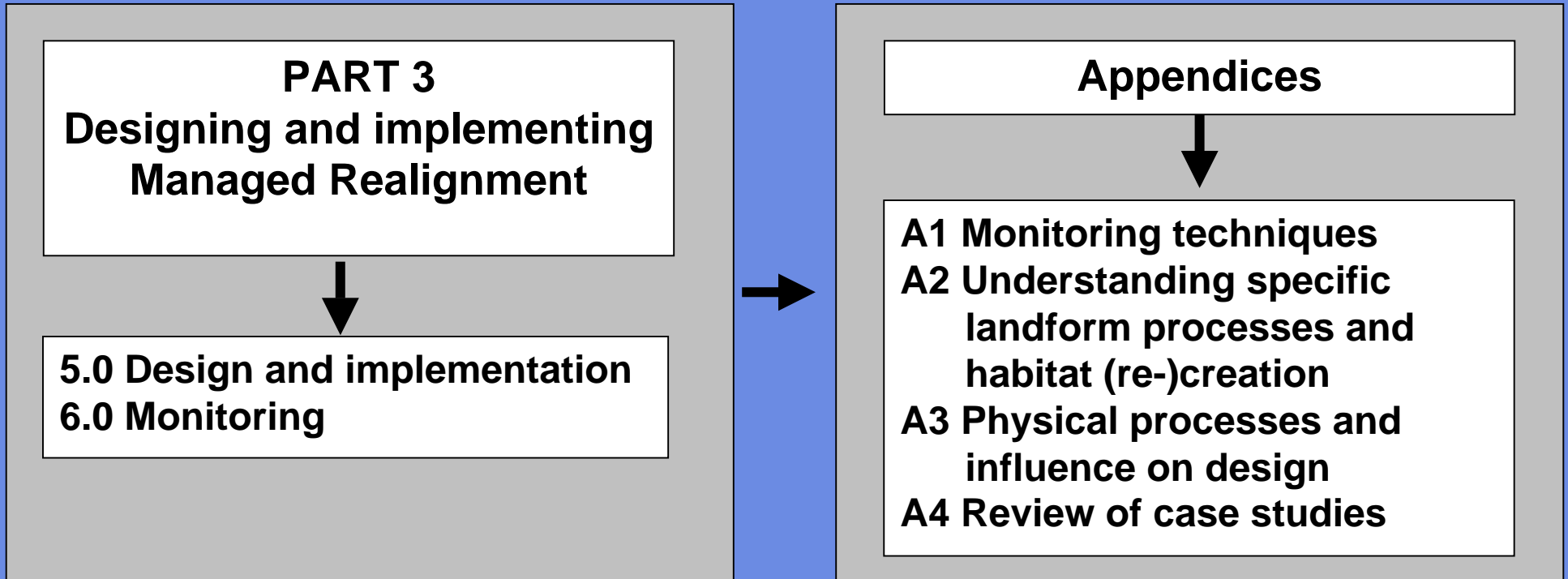


# What does the guide provide?



Has a suitable Managed Realignment option been decided for the site?

# What does the guide provide?



# Key conclusions



## Part 1: Why MR?

- For a variety of purposes
- Objectives of scheme and characteristics of location determine approach
- Beware of multiple drivers – pros and cons
- Community opposition needs careful management

# Key conclusions



## Part 2: How and where MR can be achieved

- Design is a dynamic process
- Criteria for defining success/failure should be agreed at an early stage
- Ongoing consultation is key to success
- Must plan for time and cost of obtaining required consents, permissions, licences

# Key conclusions



## Part 3: Designing and implementing MR

- Design process is iterative
- Design should involve a range of specialists
- Tools exist to help assessment, for both coastal and estuarine schemes
- Most schemes will need a monitoring system
- Higher risk schemes usually need more monitoring



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