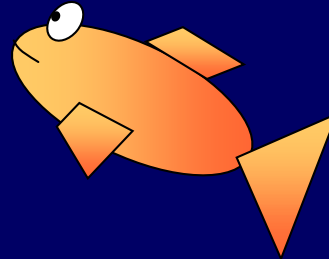


Operation of the ELD:
View from the Environment
Agency ...



Tony Warn (and Caroline Fielder)
IEEM Conference, 16 April 2008

Summary ...

- draft Regulations
- our role



Summary ...

- small impact, nationally
- dramatic in specific cases
- (look at a case study)

What difference to us?

- serious damage
- more remediation
- monitoring
- requests for action
- cost recovery

When serious damage occurs:

- check whether the Regulations apply 
- prevent and remediate
- use existing legislation 

Number of cases...

4000 incidents ...



5-15 candidates

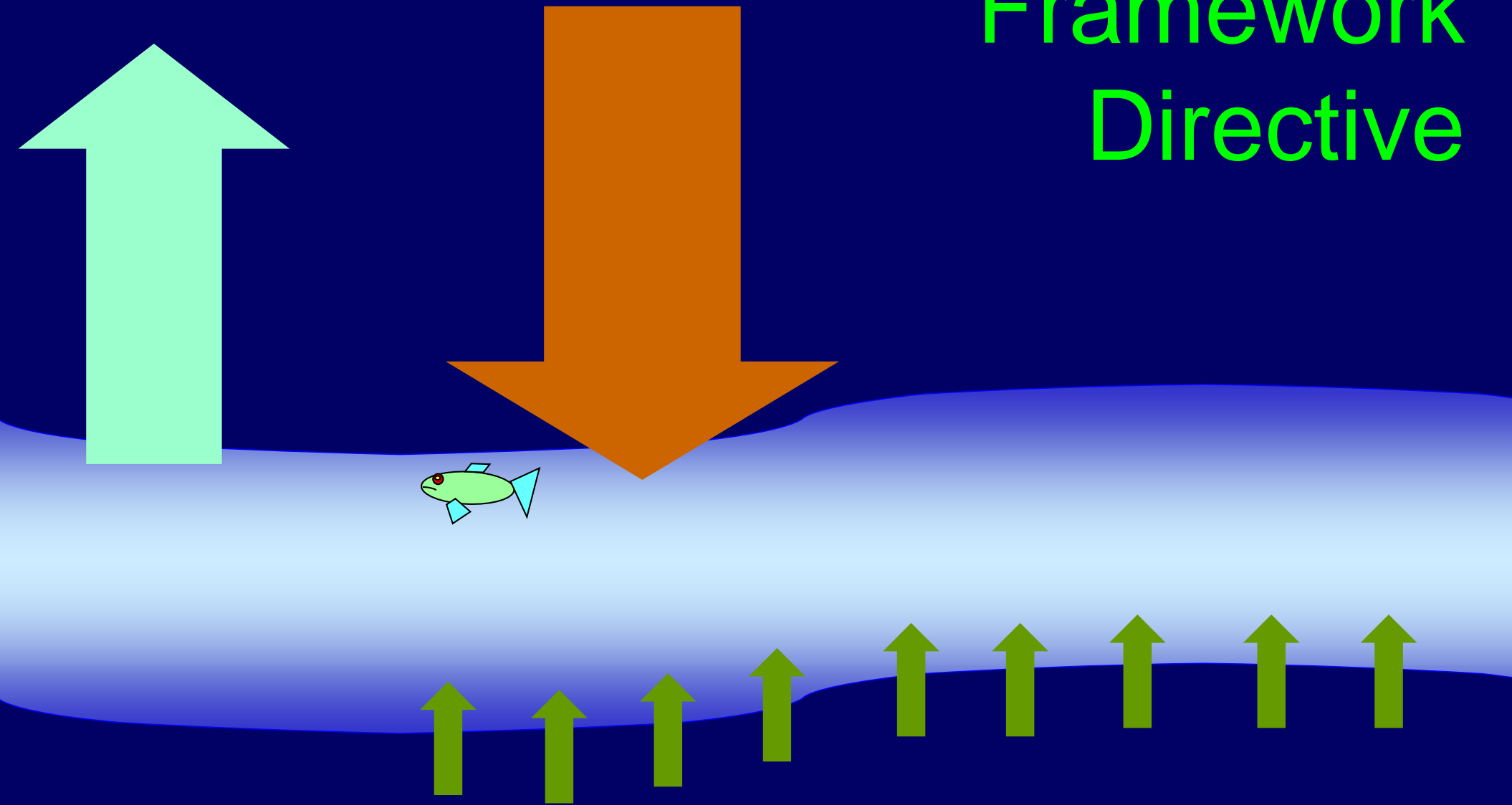


with 0-2 cases every year? .

5-15 candidates per year

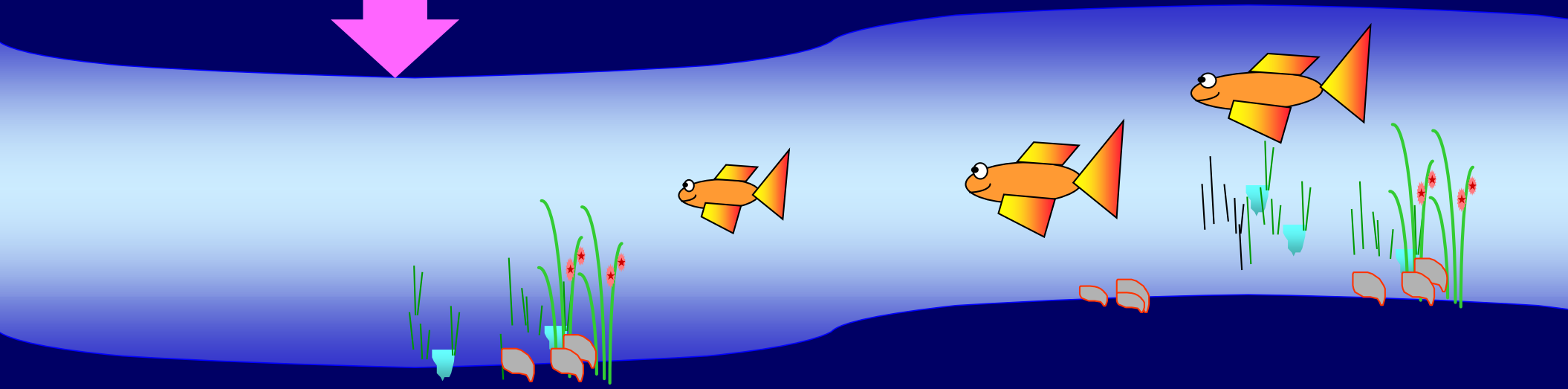
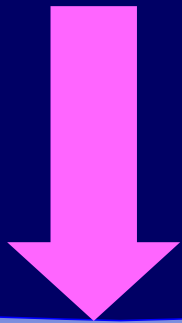
- Category 1
- impact lasts 6 months
- persistent chemicals

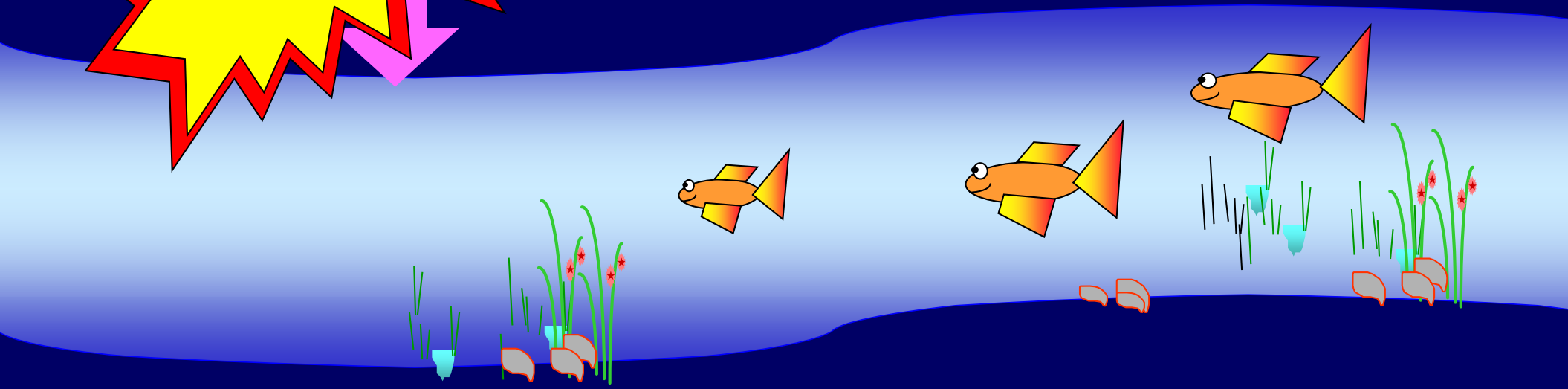
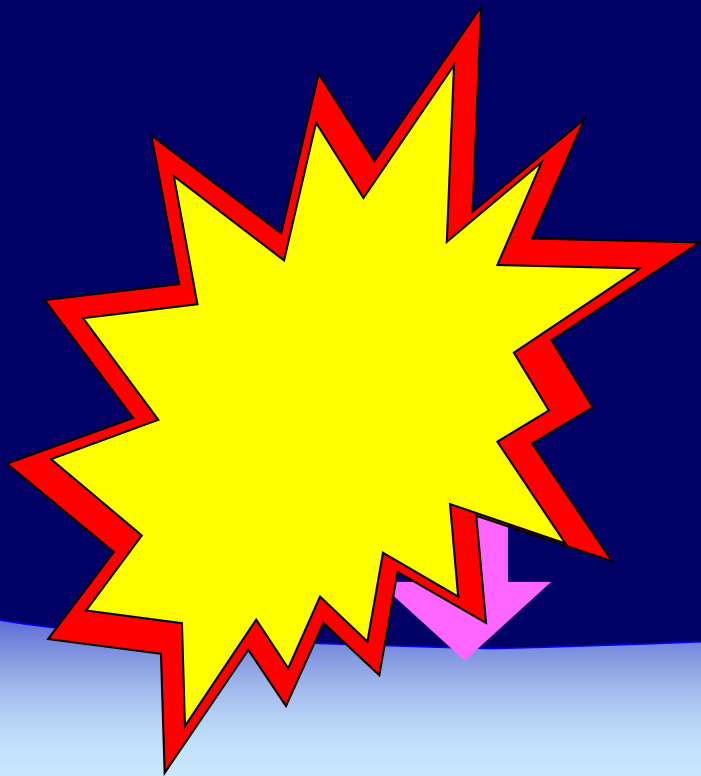
Water Framework Directive



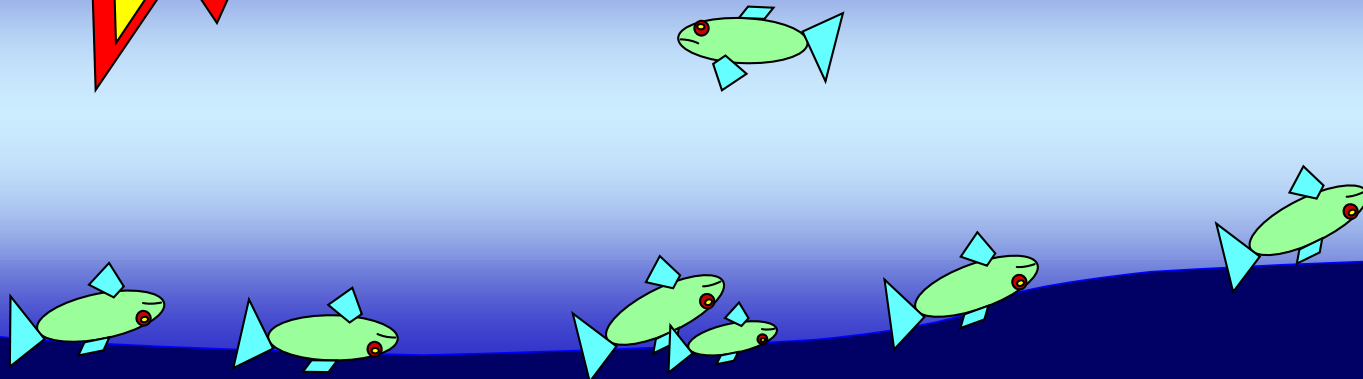
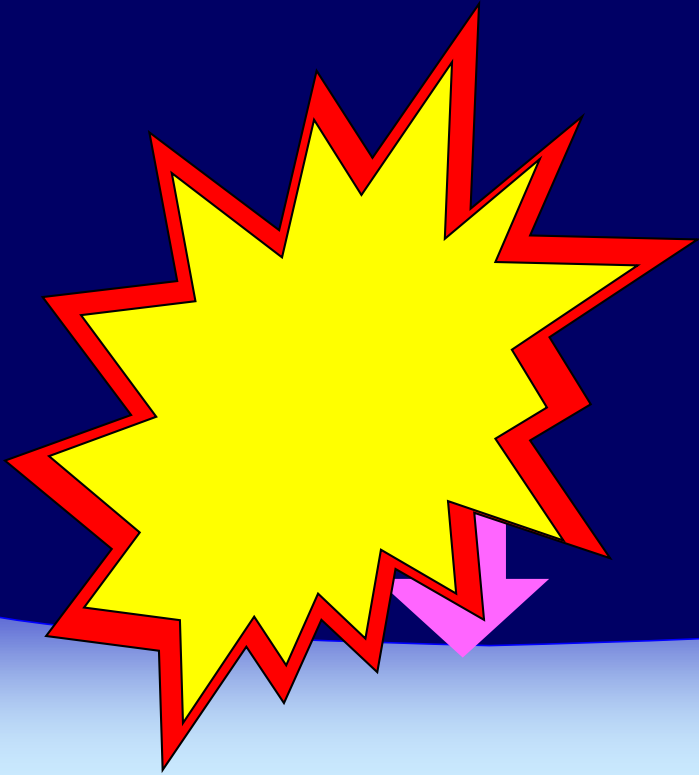
Achieve Good Status

£20 million

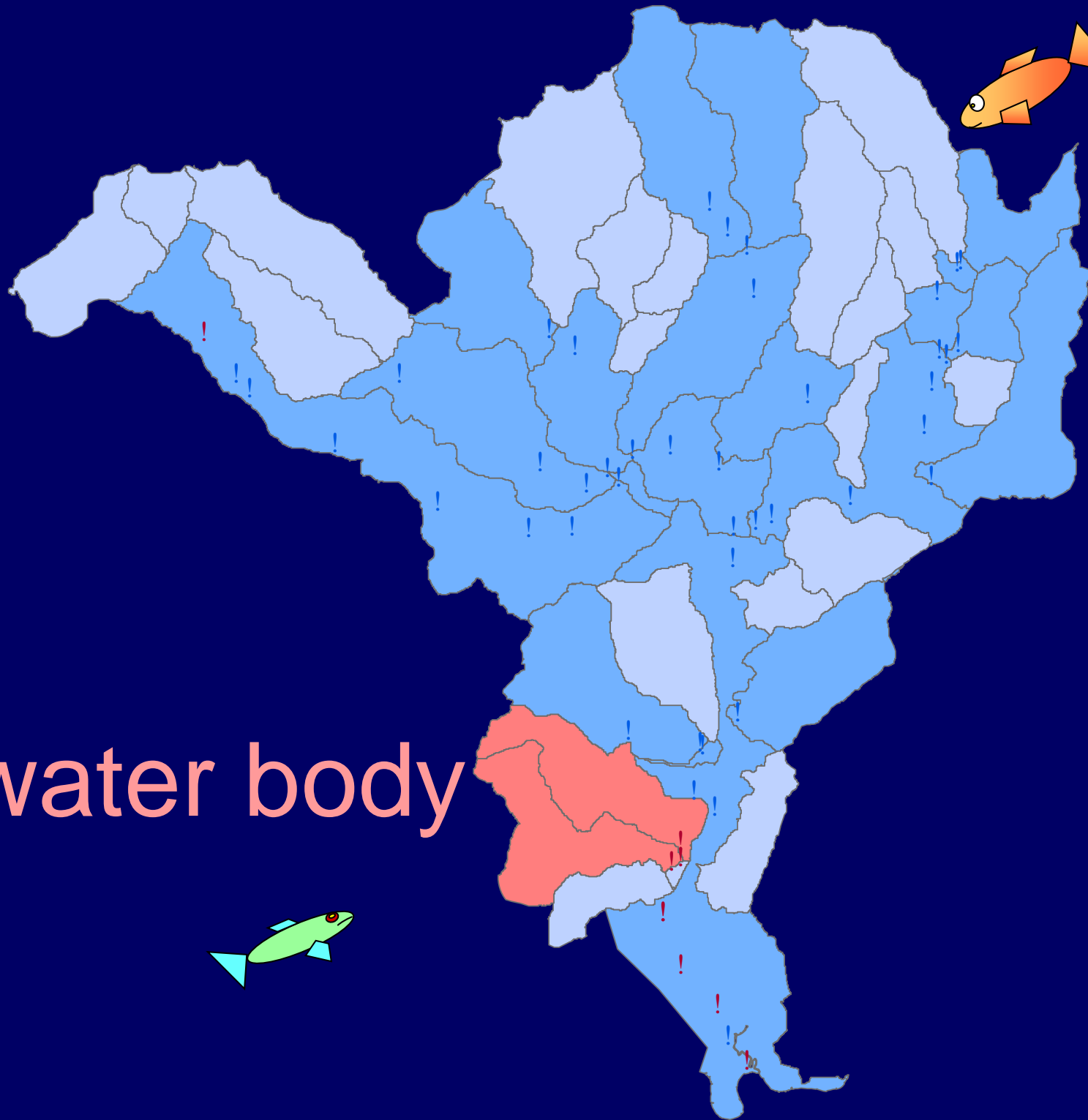




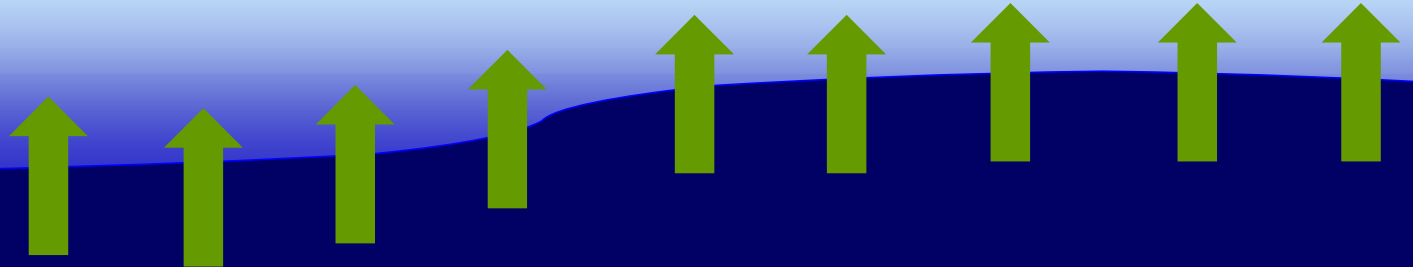
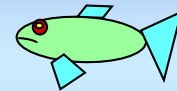
Now Bad Status



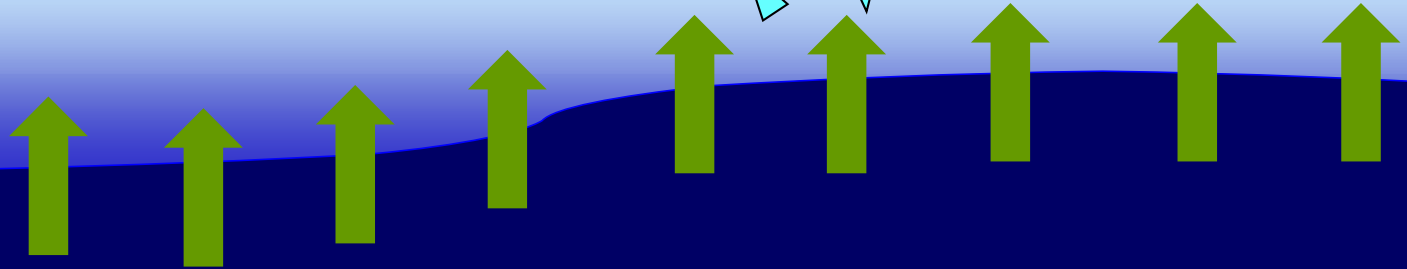
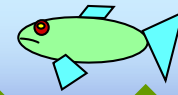
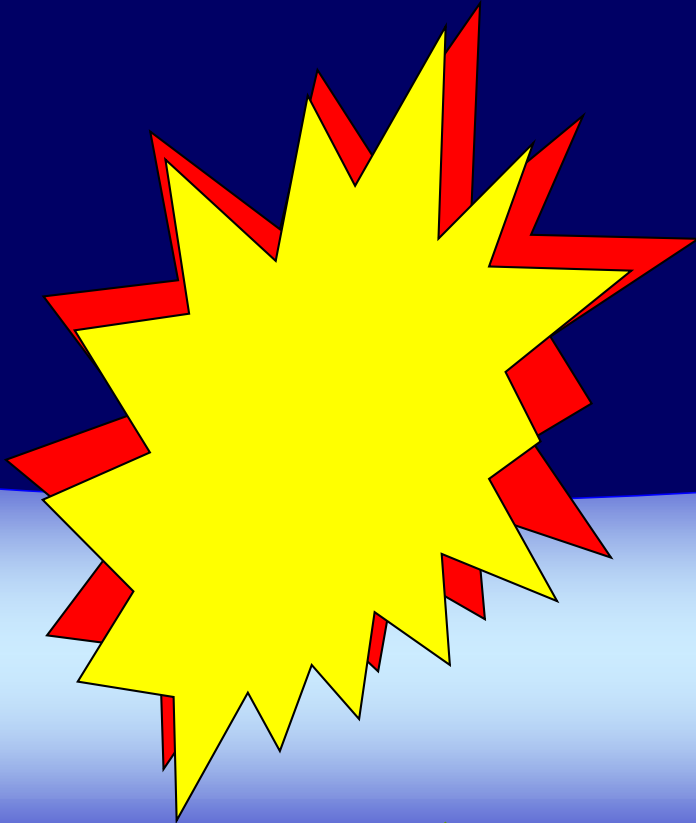
failed water body

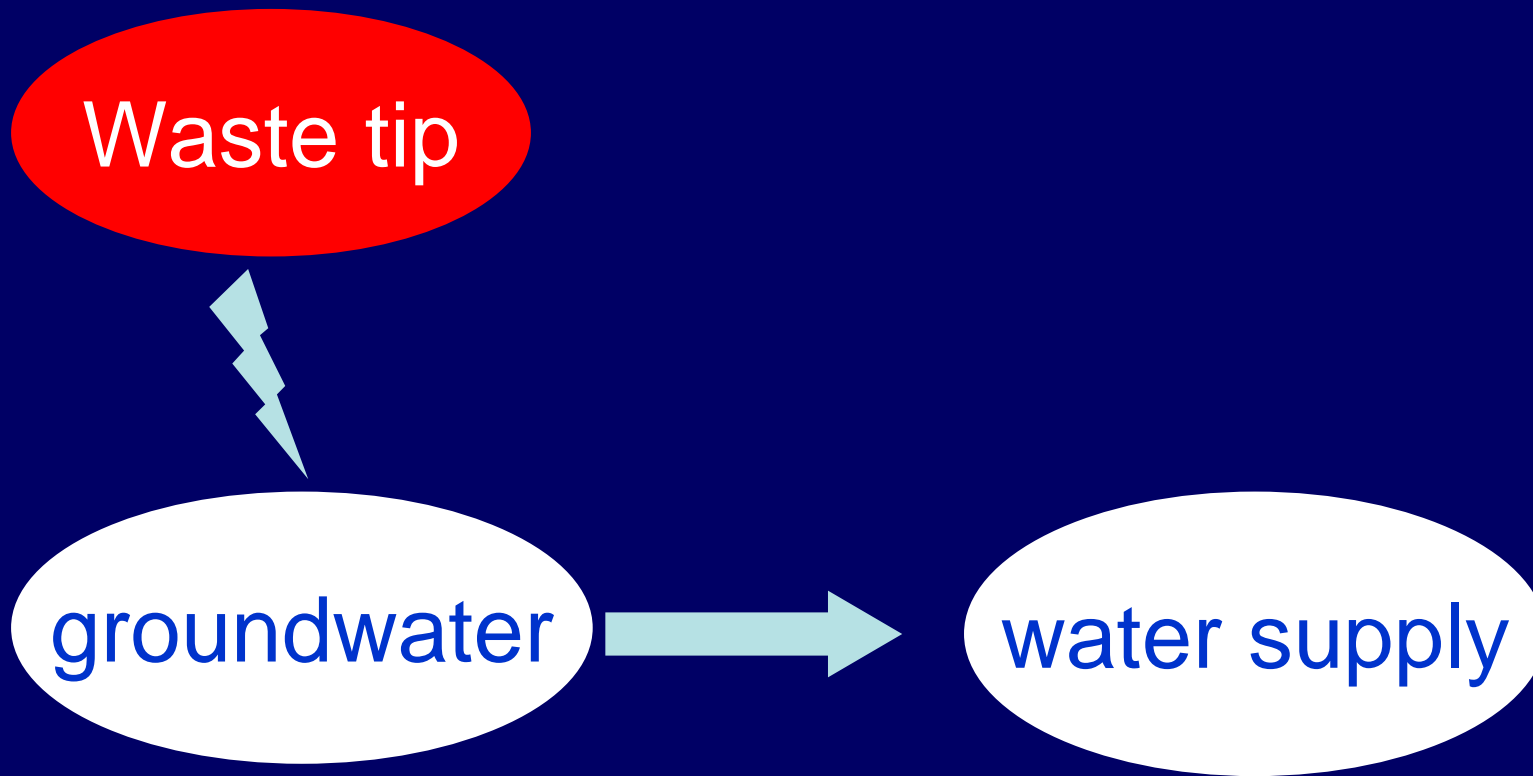


Incident on “Bad Water”

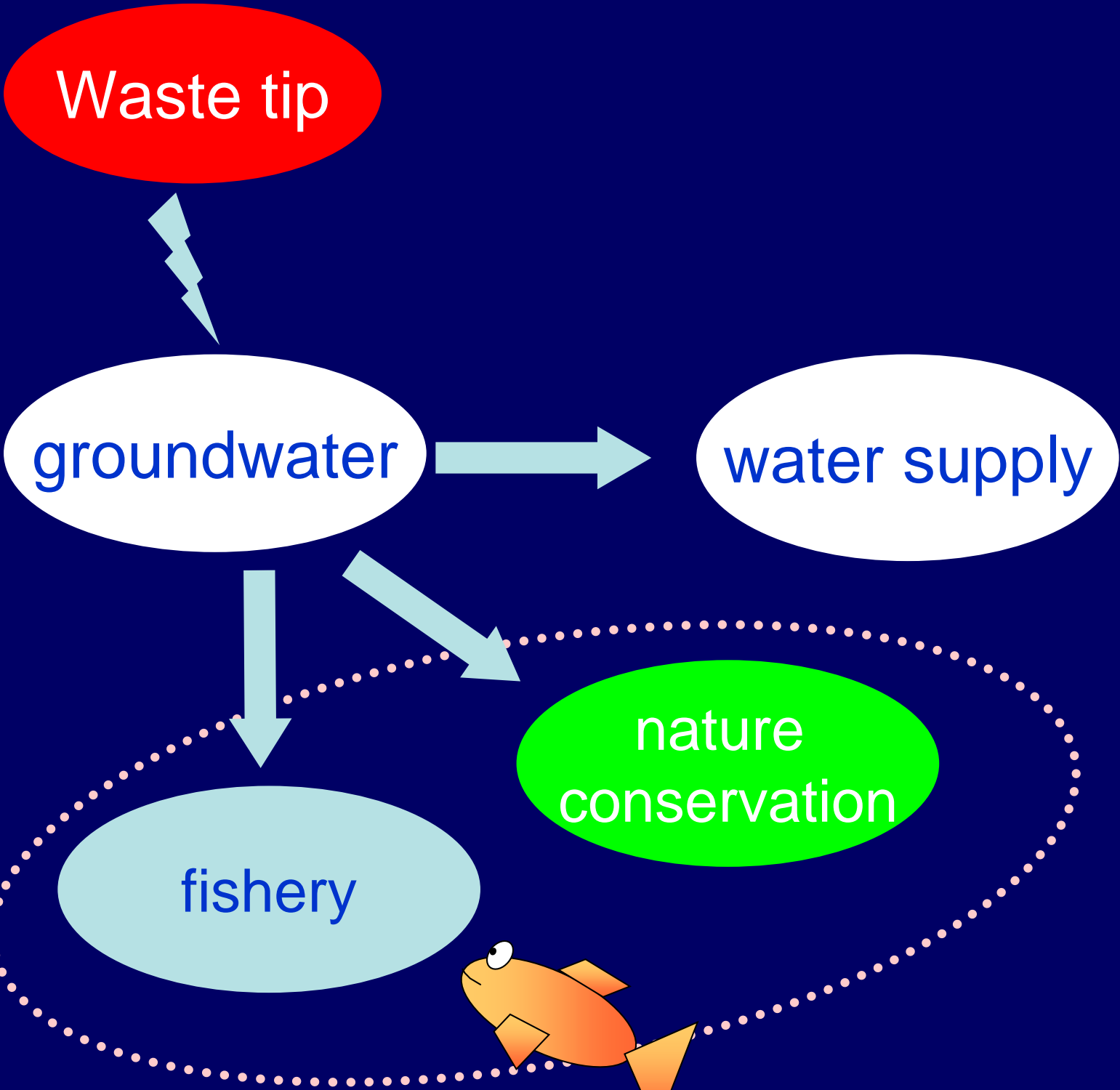


“Bad” for another
reason





Helpston



Original ...

- herbicide
- 30 years damage
- no operator
- £ millions ...

describe the project



set up the management



talk to the **statutory interests**



screen the damage



decide the effort



assess the damage



get **money for the studies**



agree options for primary action



options for compensation



get **money** to study the actions

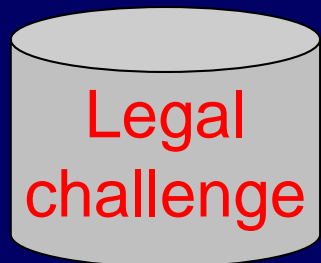


develop the options



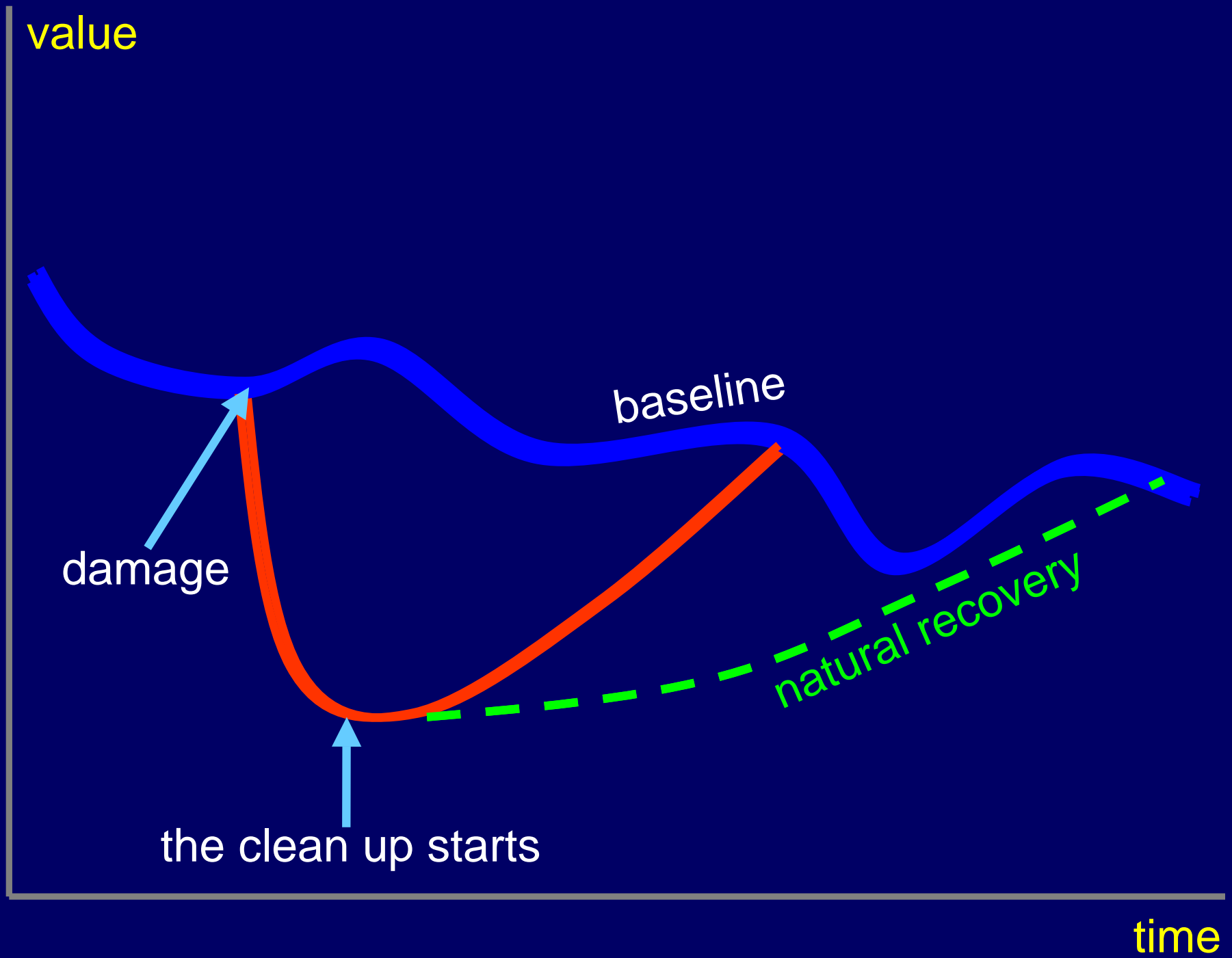
Damage ...

- how big ?
- how wide ?
- who did it ?
- how long will it last ?
- what's the baseline ?

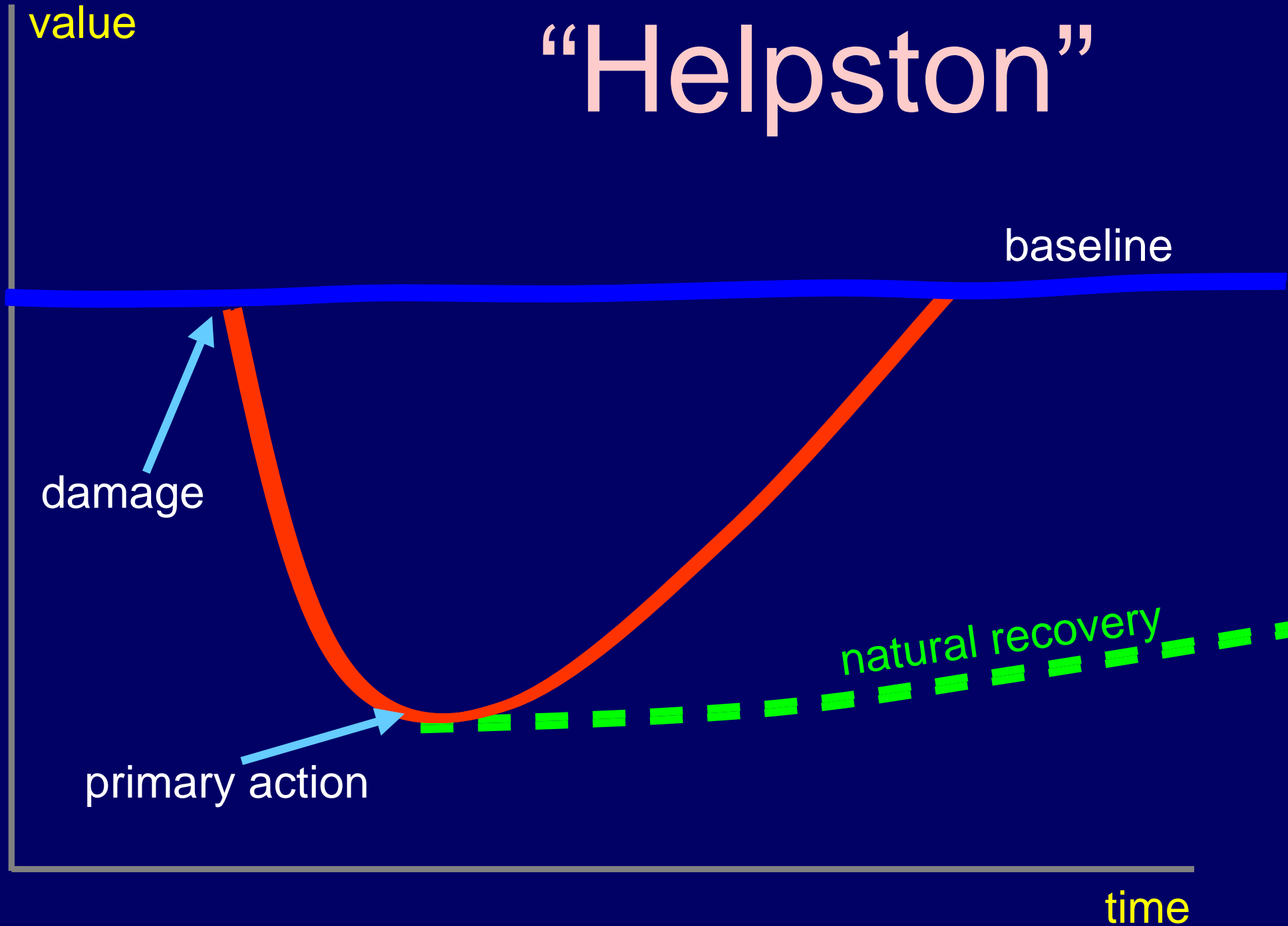


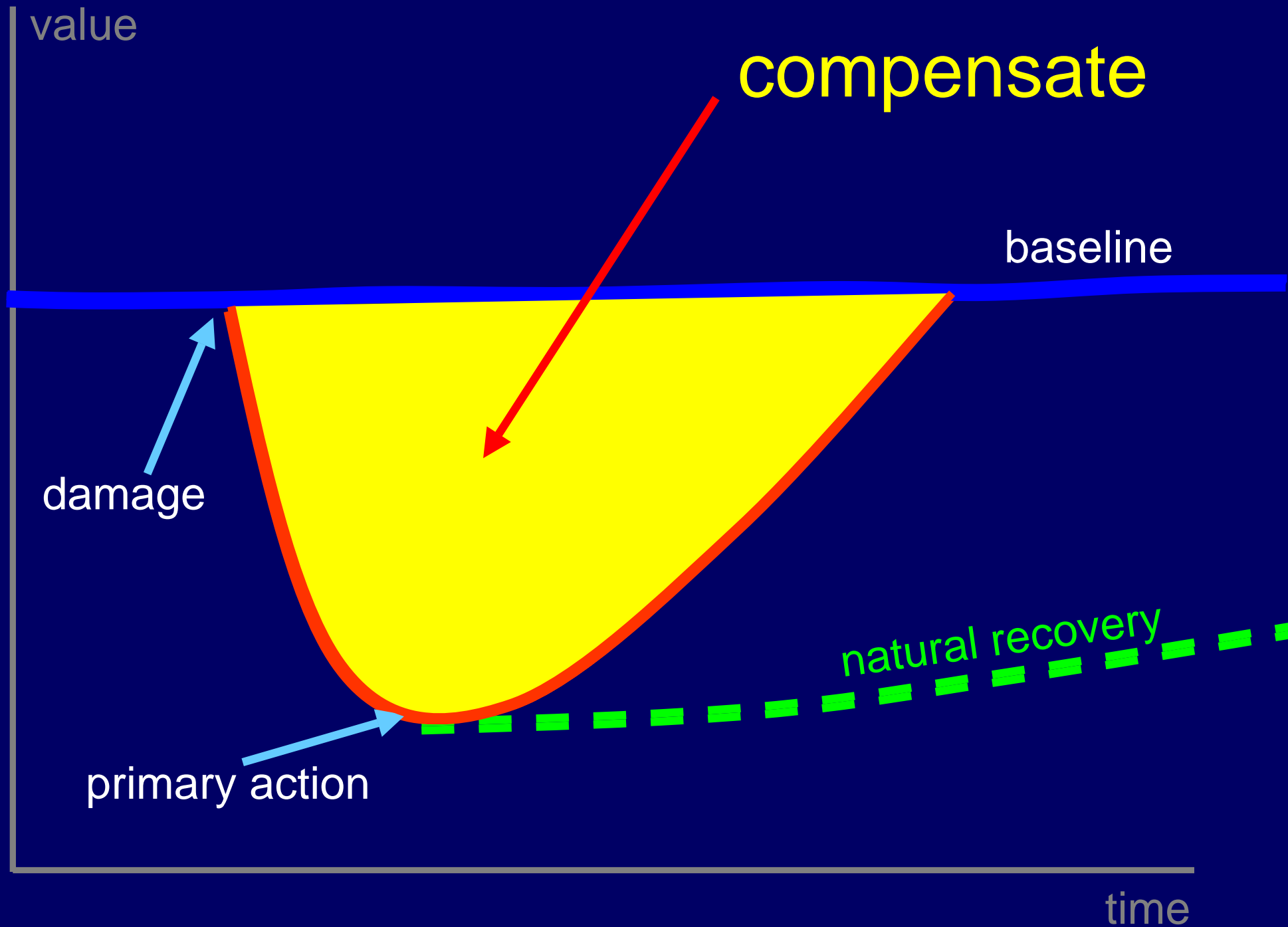
Baseline ...

- if the damage had not happened ...



“Helpston”





value

compensate

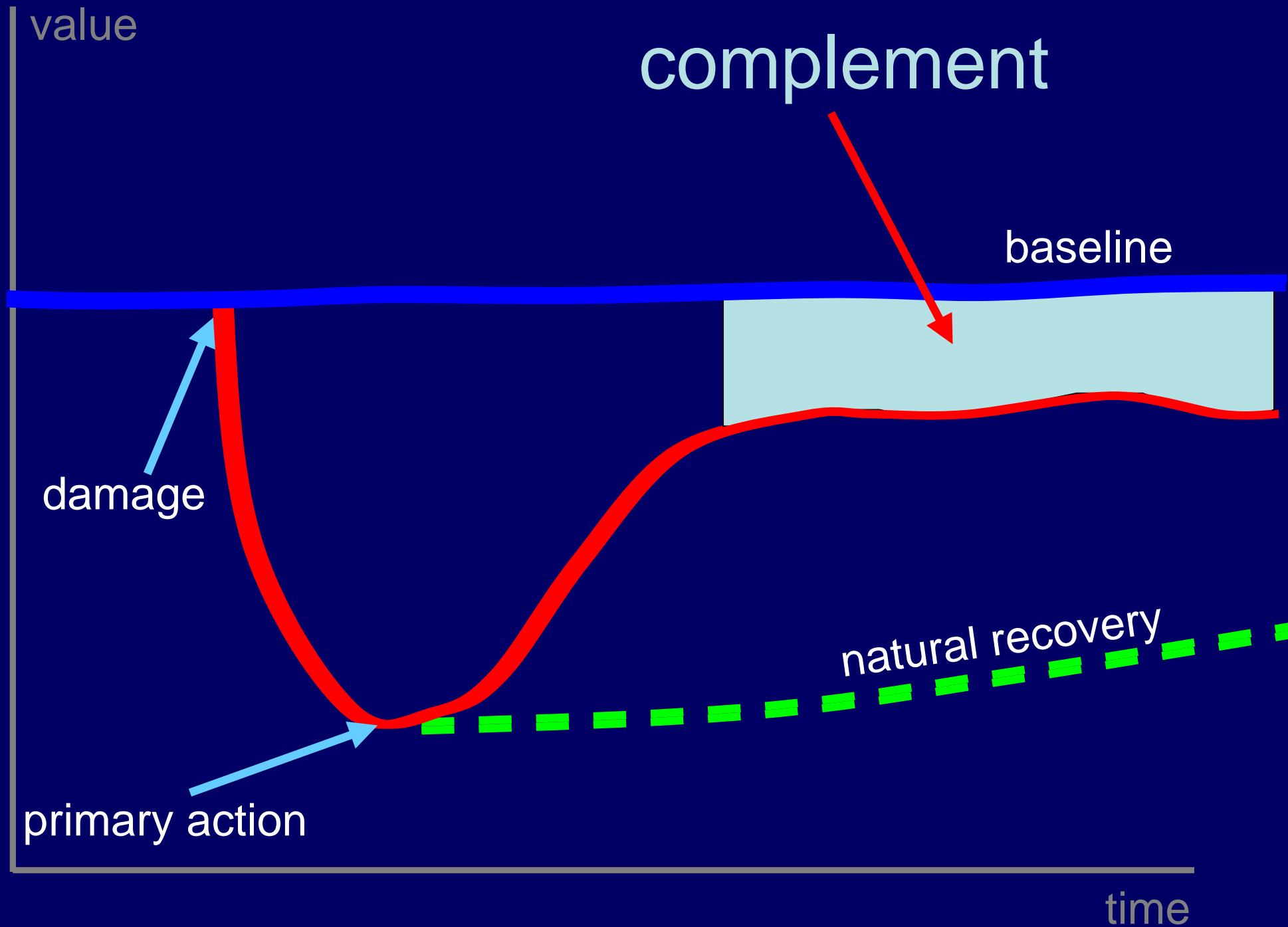
baseline

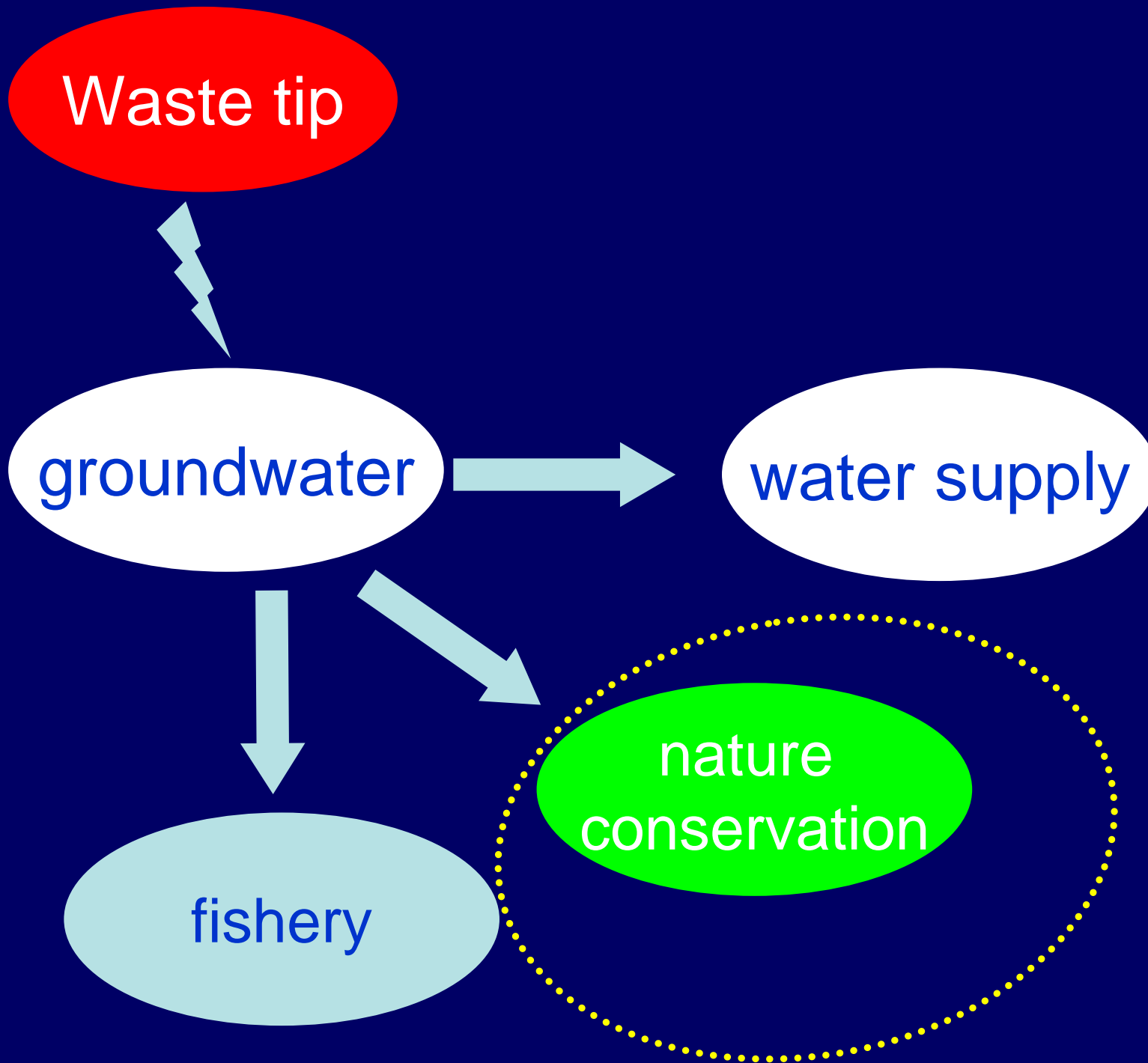
damage

primary action

natural recovery

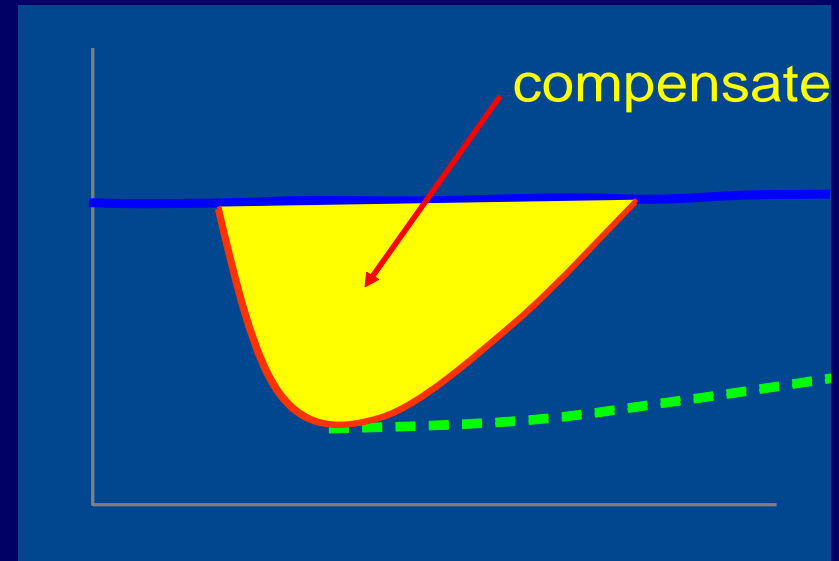
time

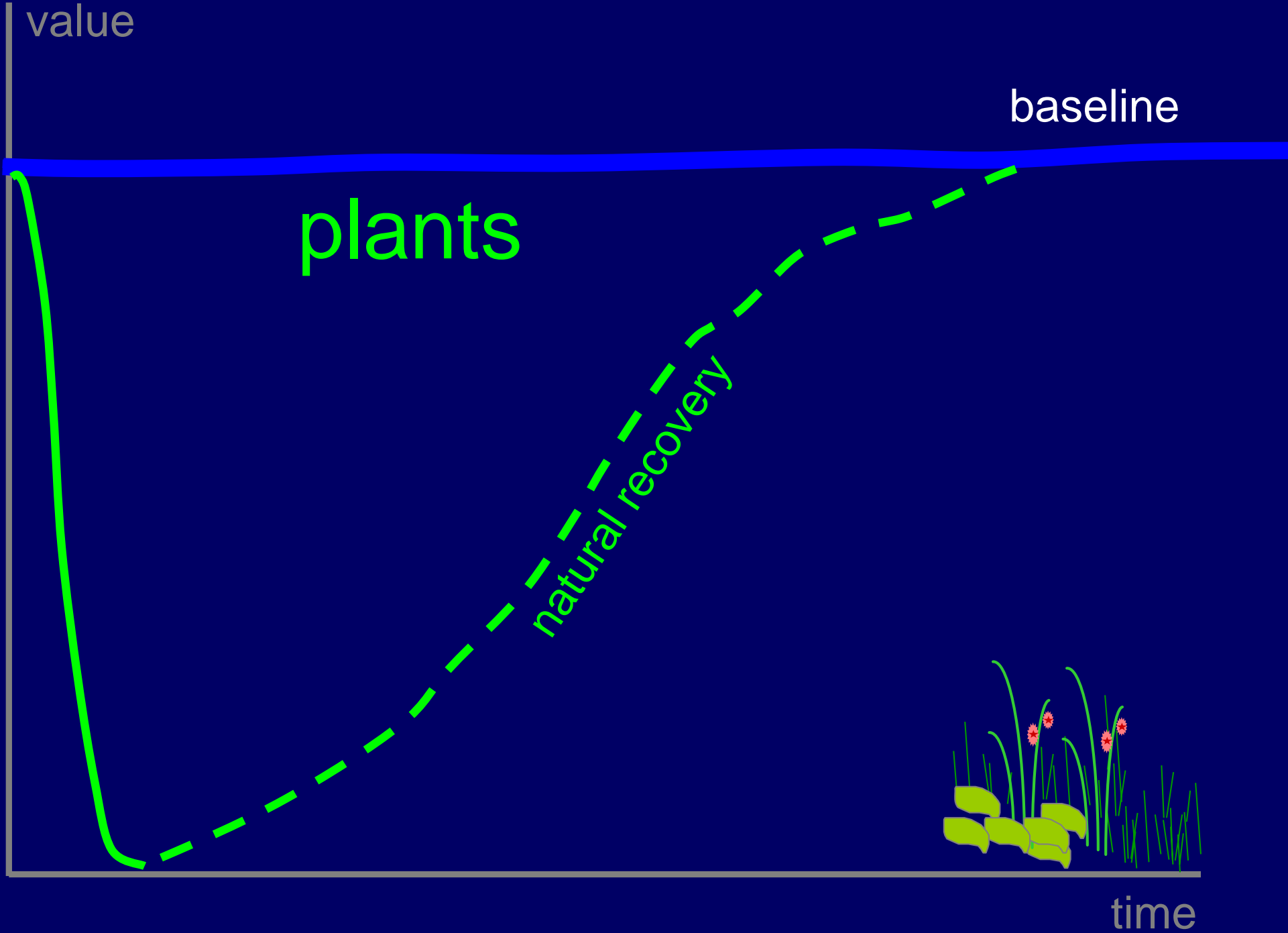




losses ...

- plants
- spiders
- educational visits





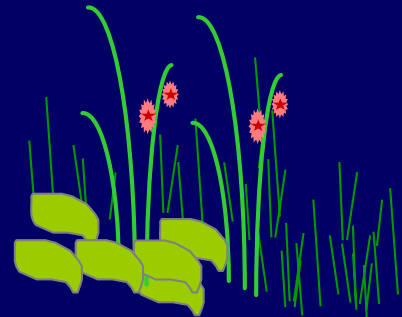
value

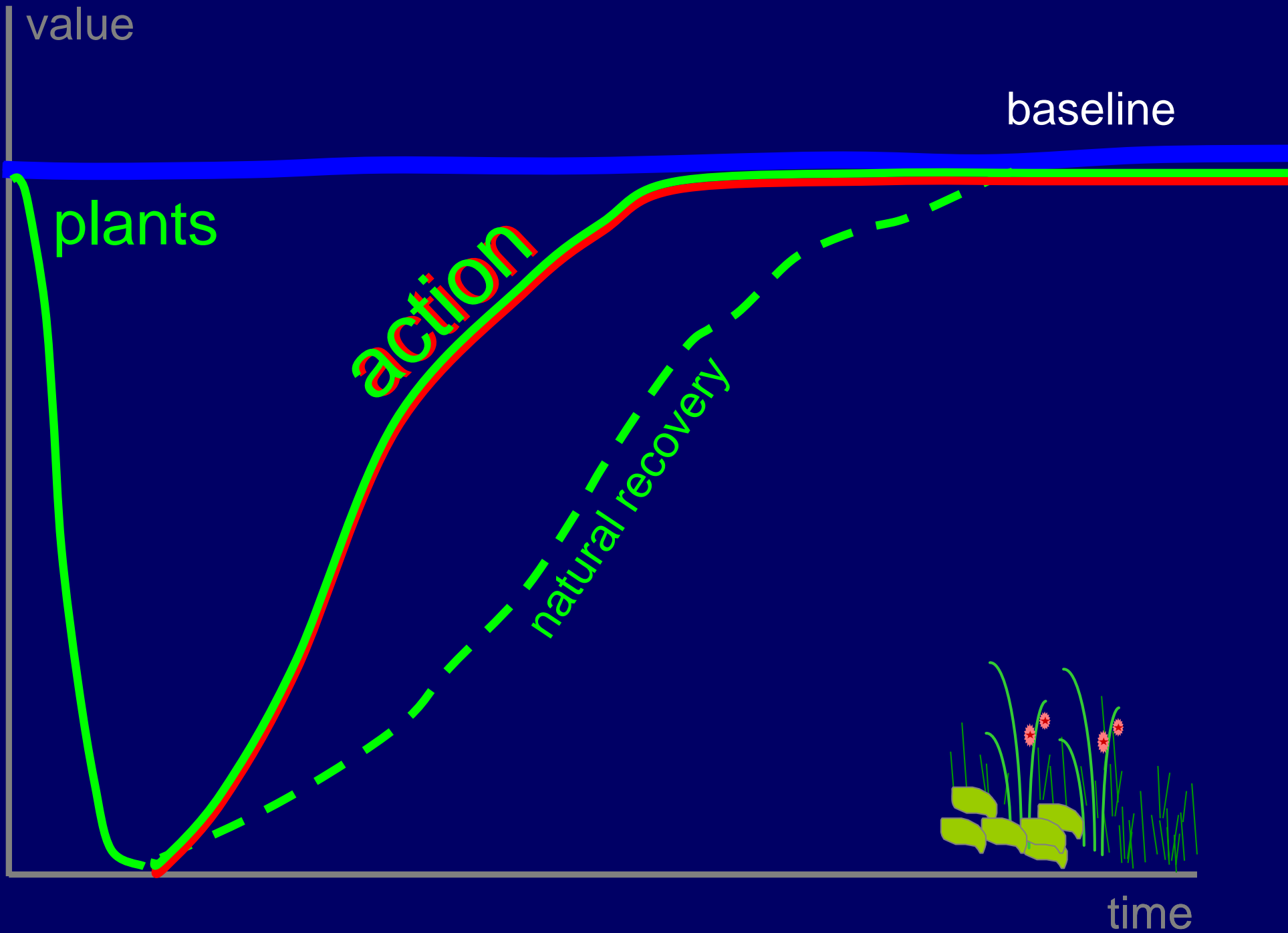
baseline

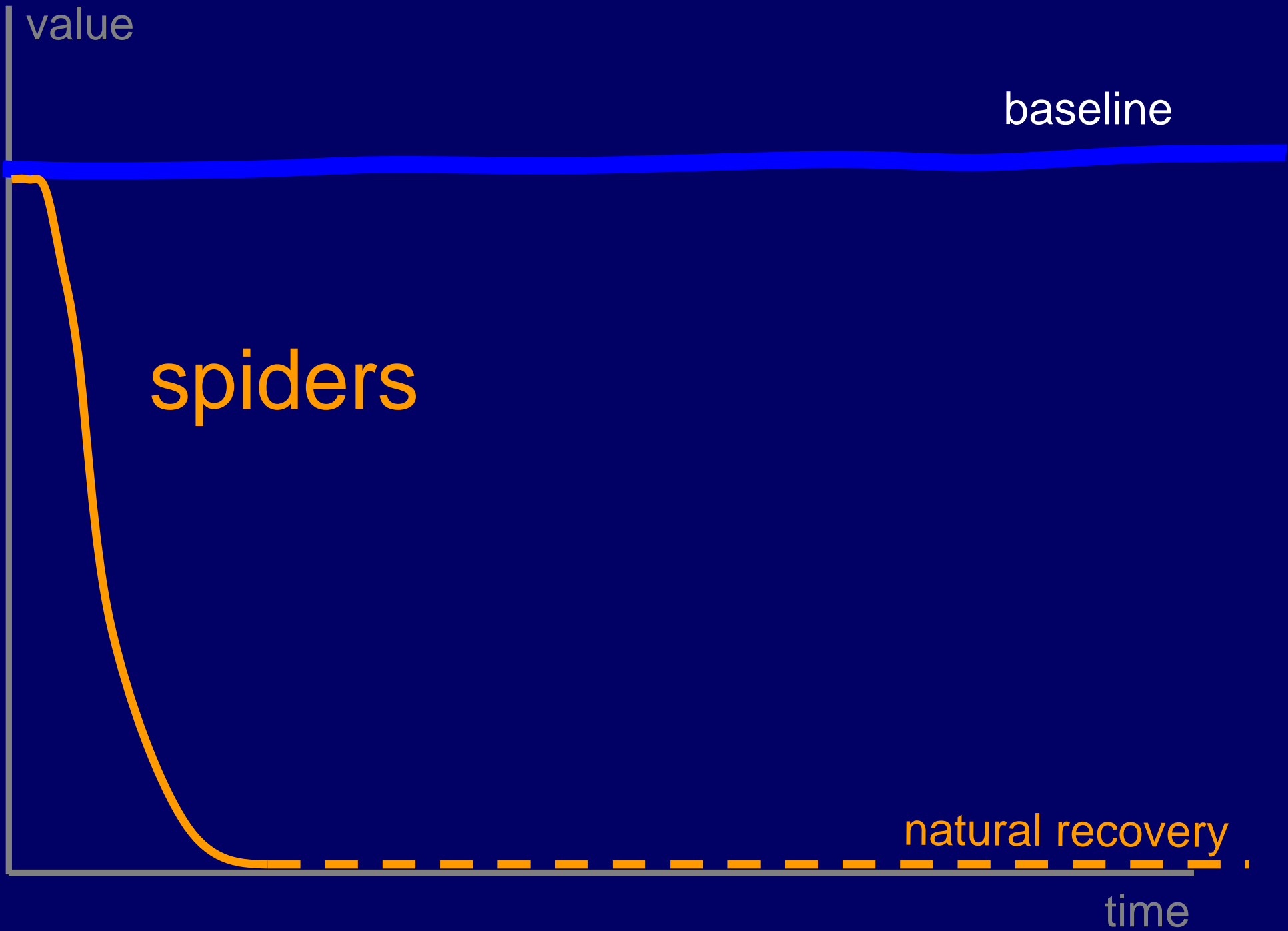
plants

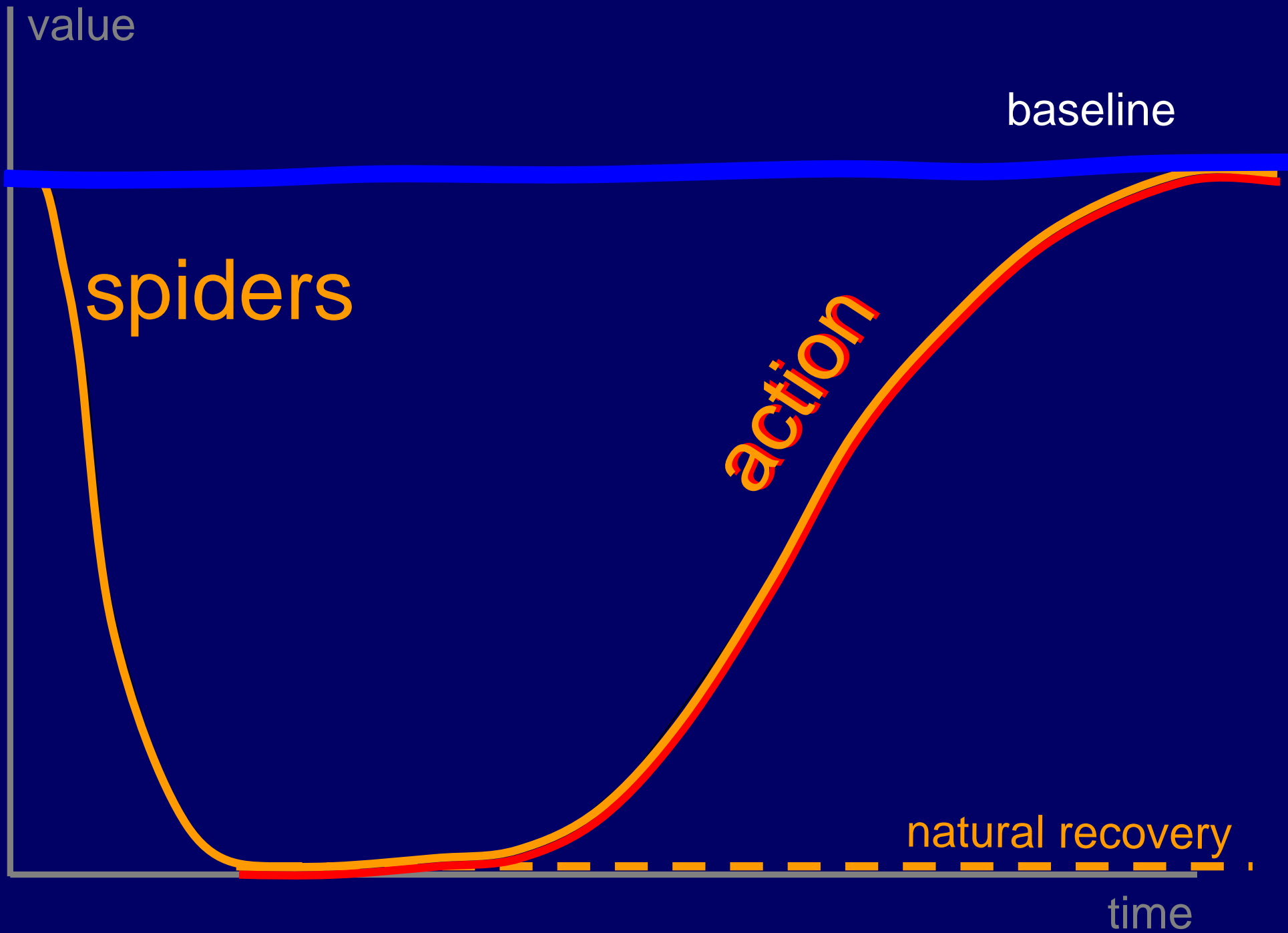
natural recovery

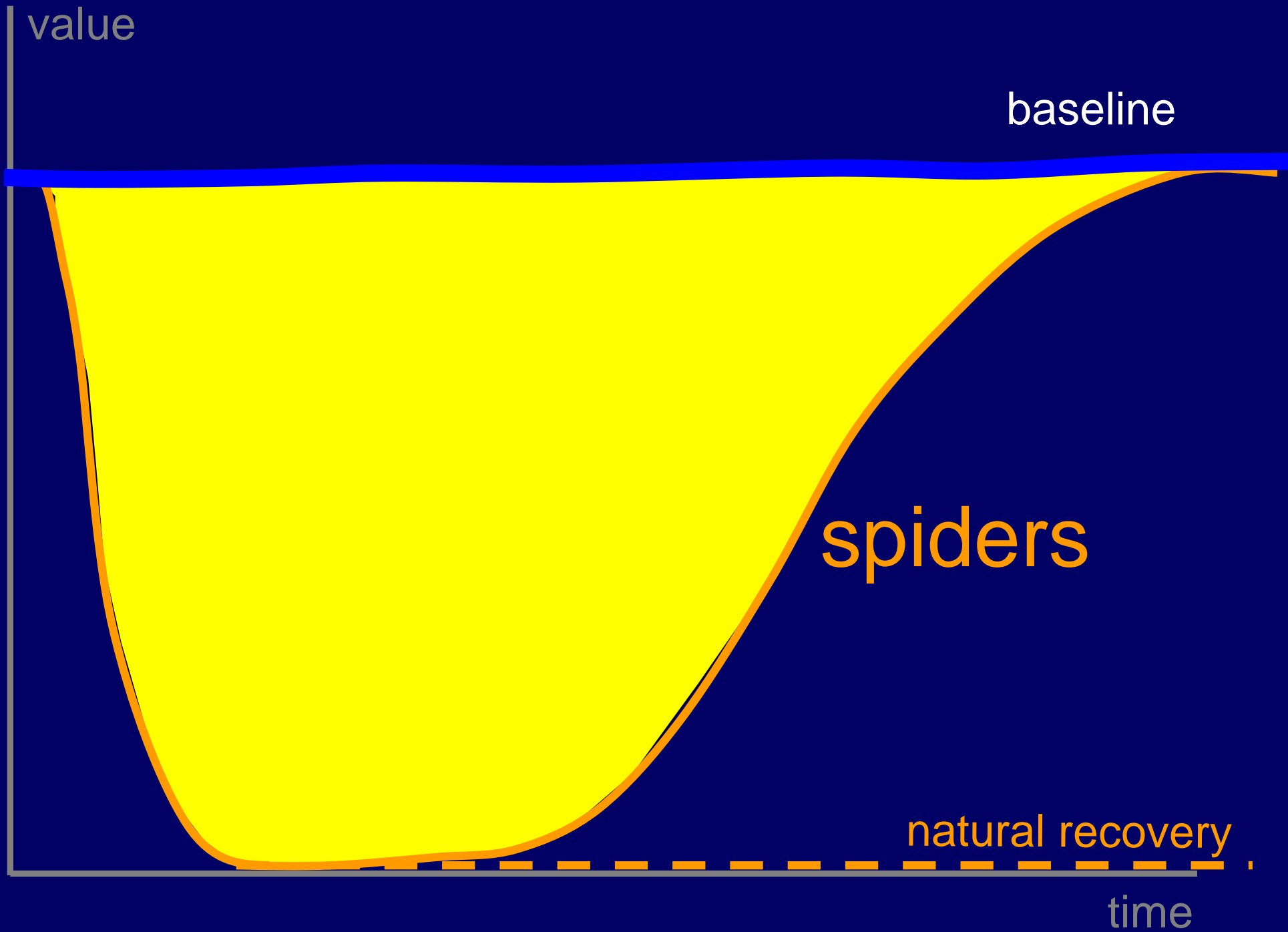
time











Discounted losses ...

- 86 spiders

compensation ...

- more spiders on existing sites
- improve similar habitat elsewhere
- information boards, footpaths, visitor centre

scaling ... (exchange rate)

- I same type and quality
- II same type, worse quality
- III comparable type and quality
- IV monetary equivalent



- £100,000 per km per year for conservation
- £ 20,000 per km per year for Good Status rivers

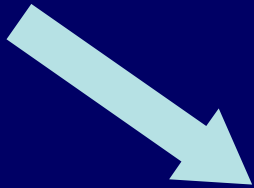
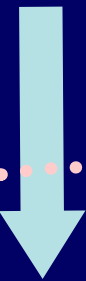
Waste tip



groundwater

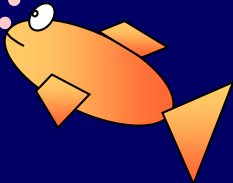
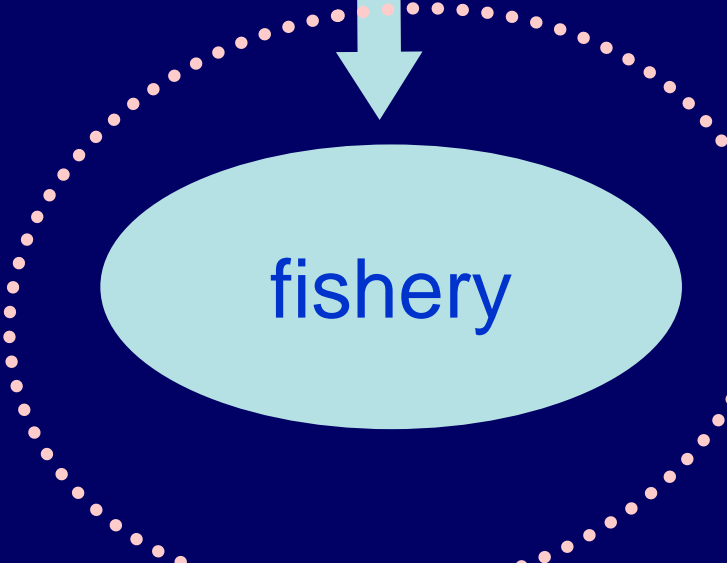


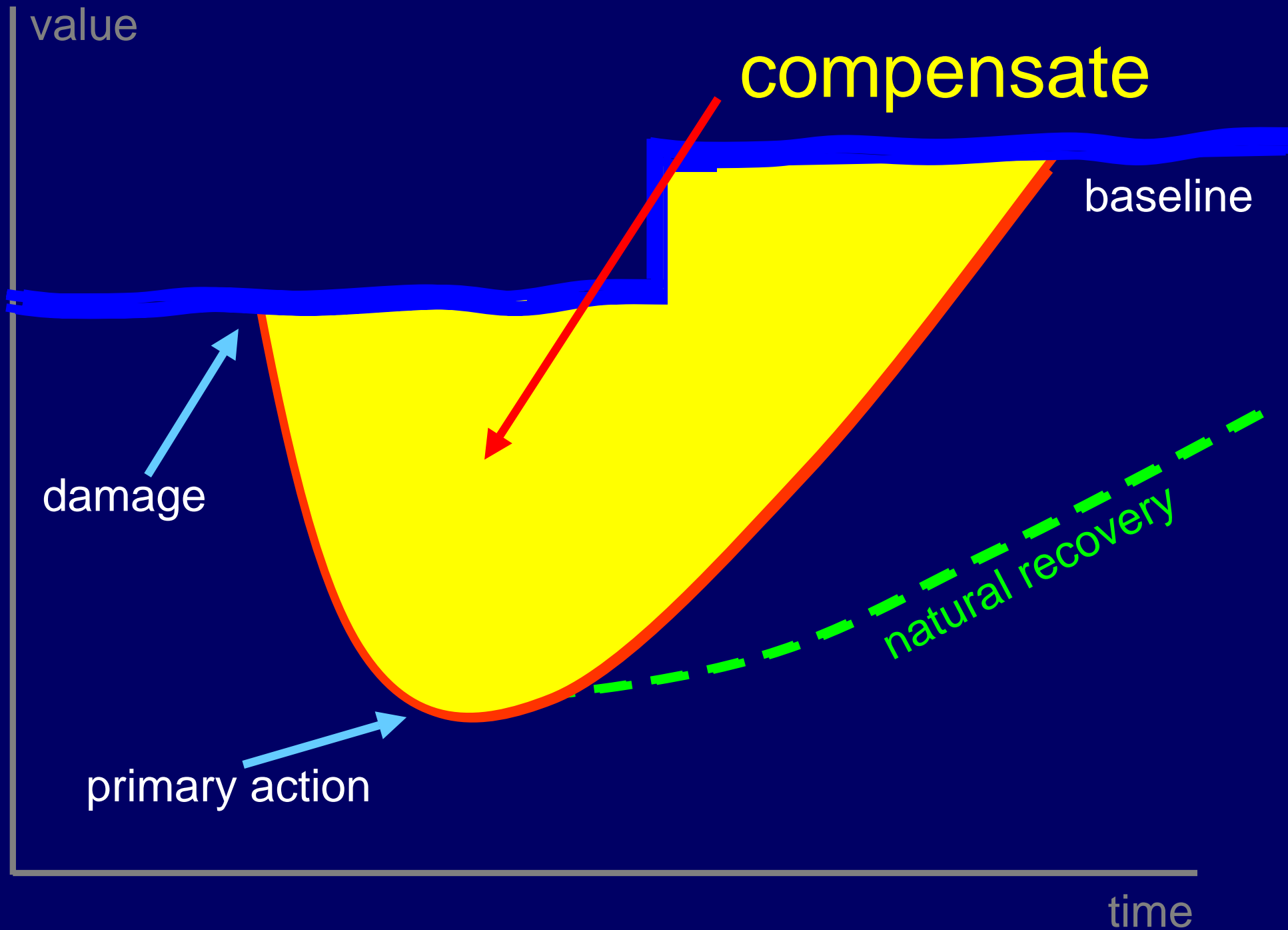
water supply



nature conservation

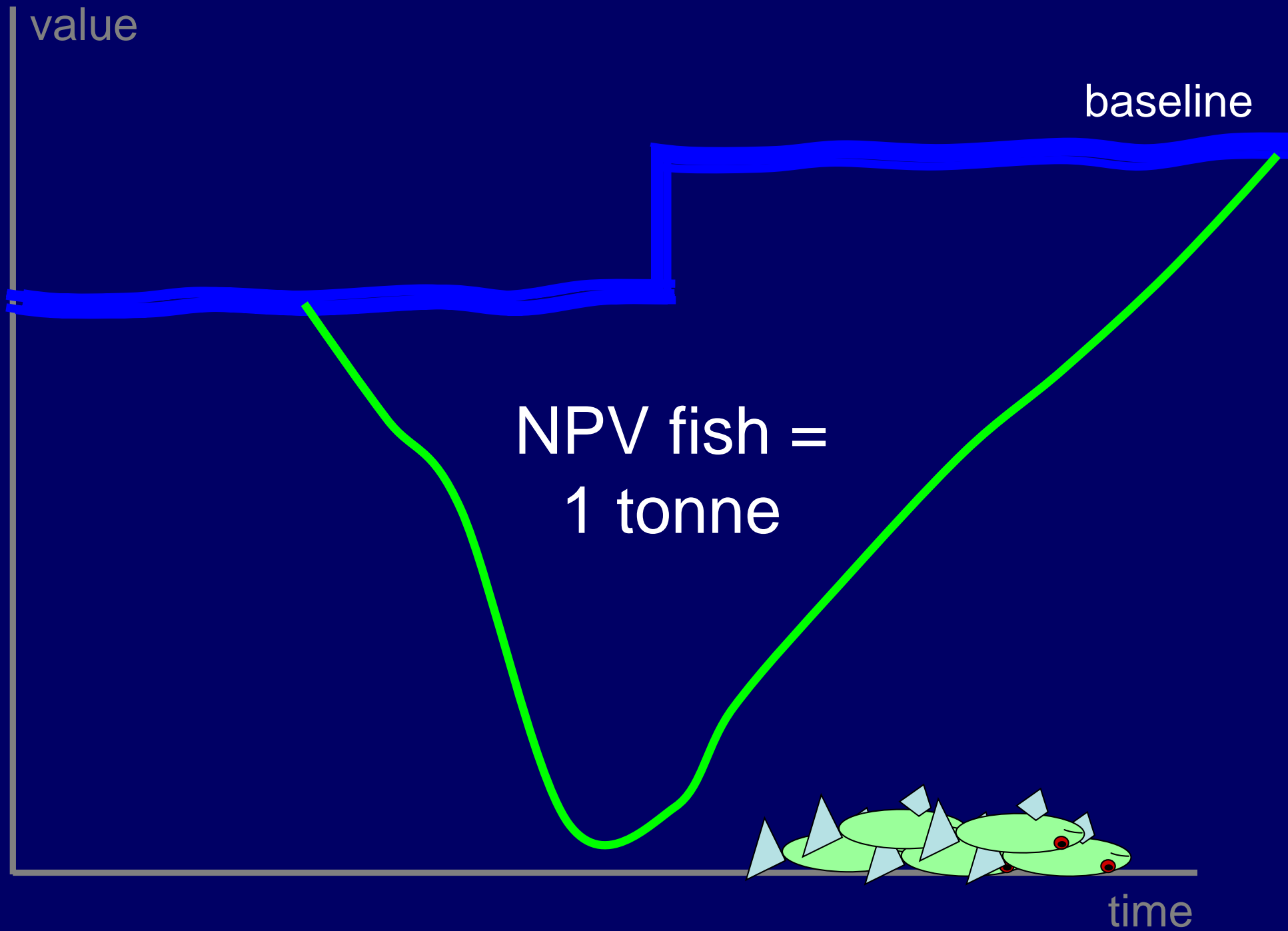
fishery





losses ...

- 3 kilometres
- 3000 coarse fish
- 9000 visits



compensation ...

- off-channel ponds
- improved access (£)
- stocking similar waters

describe the project (£5,000)



screen the damage



decide effort and cost



assess damage (£25,000)



agree options for primary action (£5000)



options for compensation (£40,000)



develop final options (£25,000)



works (£100,000)

£200,000

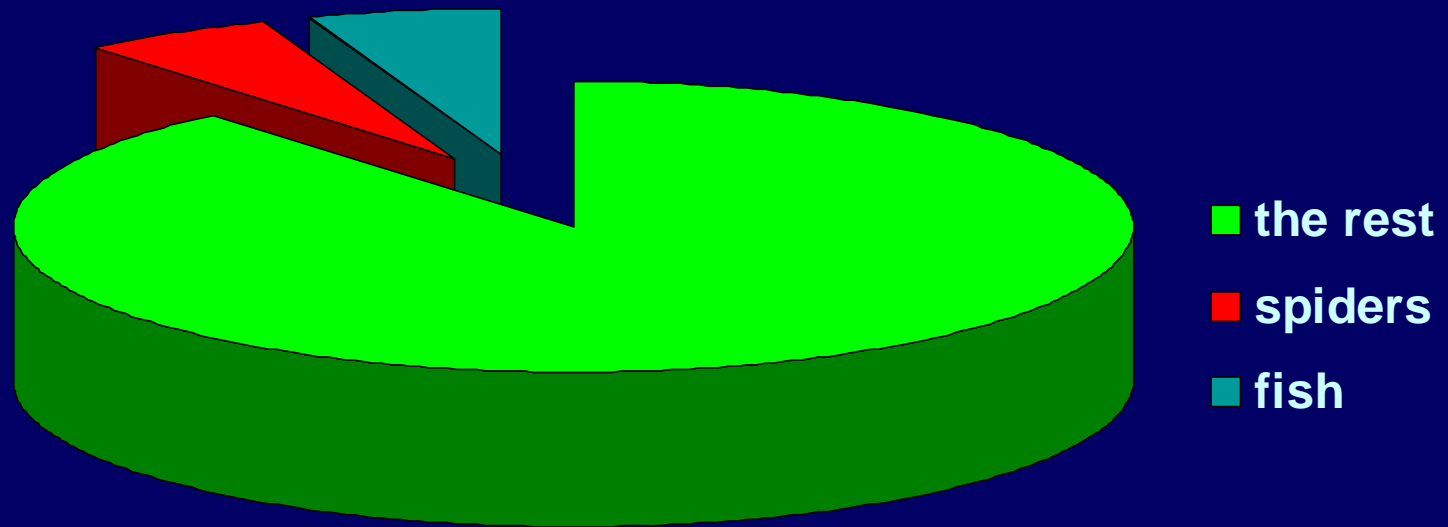
Environment Agency - £25,000

Steering Group - £15,000

Studies - £60,000

Works - £100,000

Cost added by the Directive ...



£200,000 could
be £2,000,000 if:

- lots of operators
- dispute on cause, baseline etc

Summary ...

- small impact, nationally
- dramatic in specific cases

Implementation ...

- contingency
- incident response
- learn through case work

Summary ...

- draft Regulations
- our role

Thank you

Tony Warn (and Caroline Fielder)
IEEM Conference, 16 April 2008

