

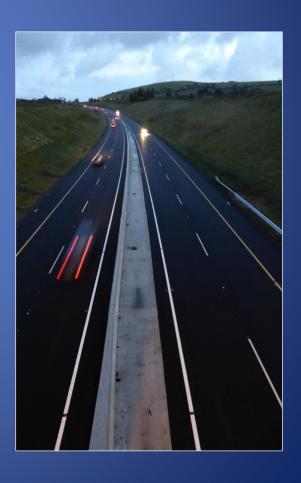


The background

Before During After







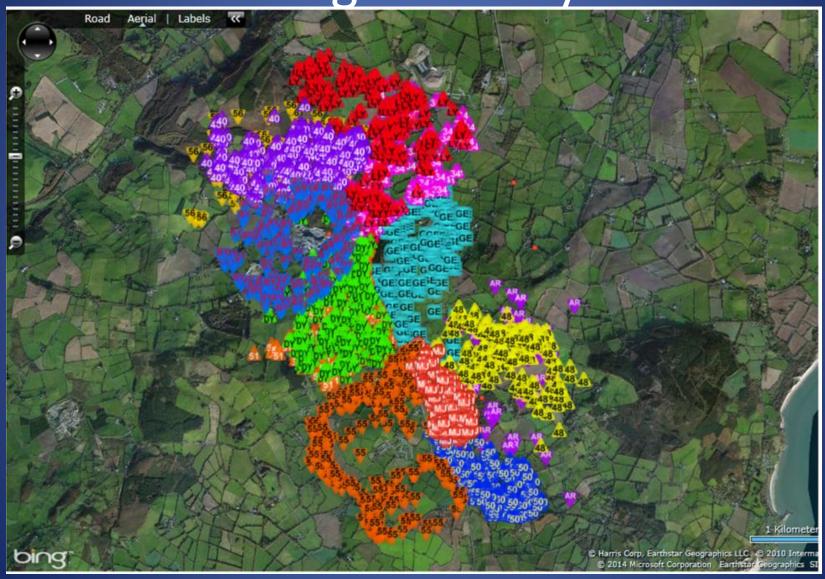




Badger Surveys



Badger Surveys



Issues

"Ecological Problem"

Setts (breeding, social engagement)

 Traditional Paths (movement, feeding)

Safety (people and badgers)

Loss of habitat (home range)

"Engineering Answer"

Artificial Setts

Underpasses

• Fencing

• Ignore!

Sett Destruction



Seismic Activity





Summary of Findings - Setts

- Multiple breeding setts (and breeders) in many groups
- Huge effort to get back to excluded setts
- Artificial setts not always necessary BUT should be evidence based
- Seismic shocks may be significant in breeding season

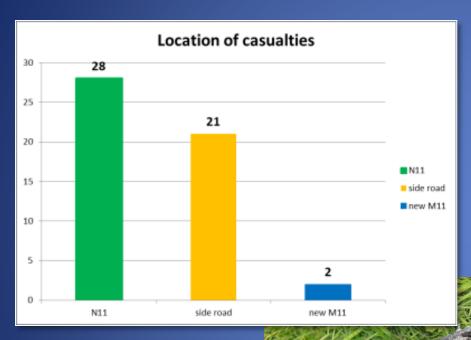
Movement – Underpasses & Fencing

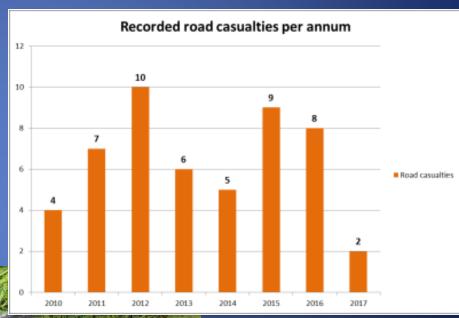


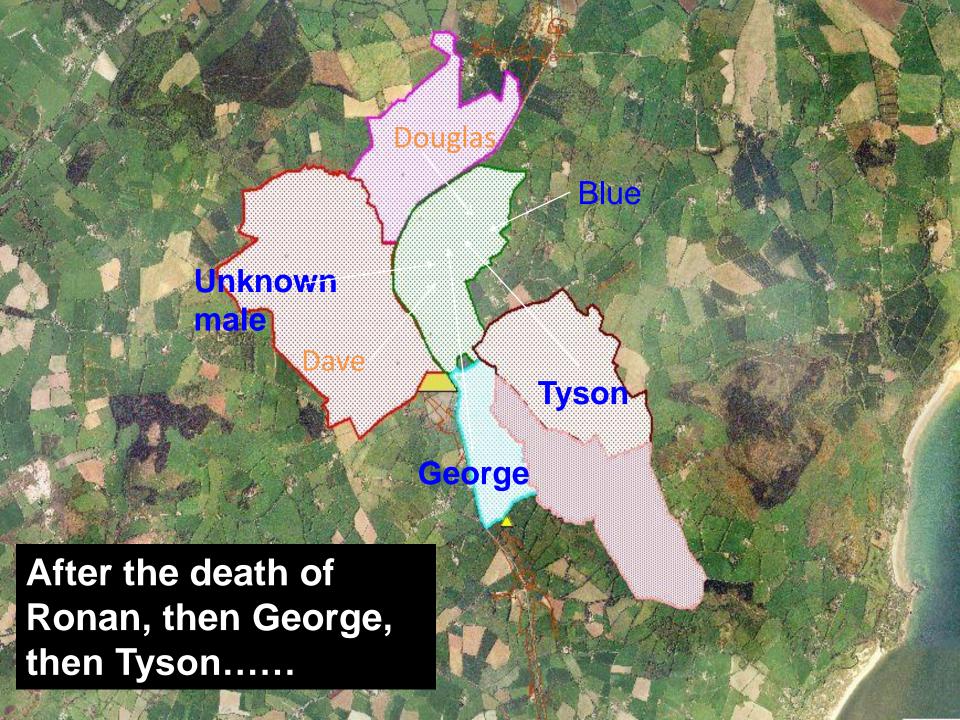
Emergency gates



Road Traffic Accidents







Findings - movement

- Underpasses used immediately
- Small but significant increase in nightly movement DURING works
- RTAs may be 10% mortality generally
- RTAs cause huge social upheaval in badger groups

Loss of habitat

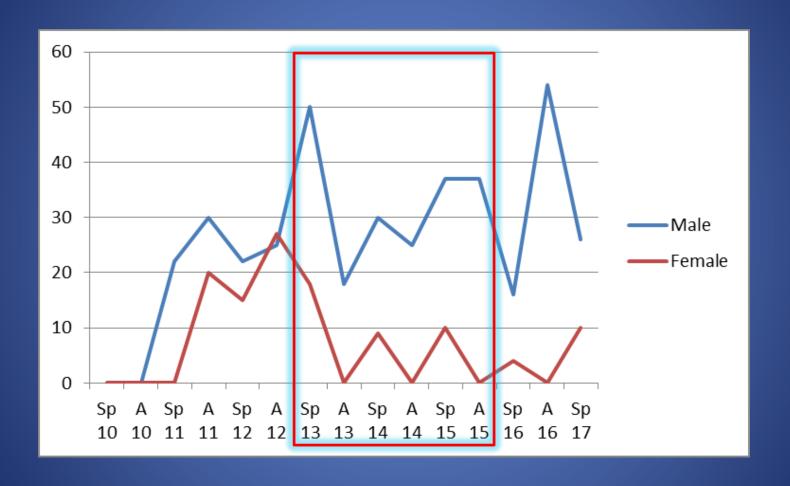


Bite wounds – a measure of disturbance



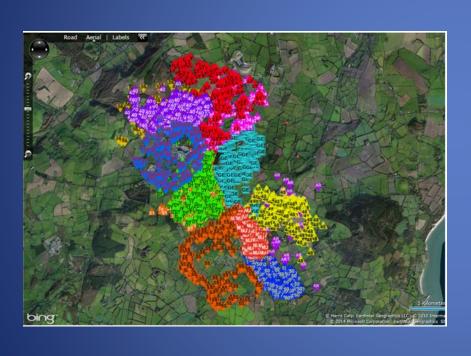


Bite Wounds – Stress?



Male Average 26%; Female Average 7%
Note Severity of wound not taken into account

Recommendations - Survey



 Need longer and deeper studies prior to road

- Need to find setts
- Need to find social group boundaries
- Use technology

Recommendations - Fencing



- Mammal proof fencing for entire length, not just near underpasses
- Fencing checked for damage into the future
- Gates, bridges
- Deer

Recommendations - Underpasses



- Must be where badgers need them (CUTS)
- Thought required re where badgers pop out!
- Internal social group links crucial
- Avoid streams in front of entrance

Recommendations - Setts



- Artificial setts not always needed
- Proper protection during construction vital
- Timing of rock breaking

Thanks from Team Badger



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