Warts and All

Communicating the conservation needs of amphibians in a competitively marketed world.

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Introduction:

Globally, the decline of biodiversity has been staggering, with extinction rates estimated at up to 1000 times the background rate^[1,2]. **Amphibians** are regarded as one of the most **vulnerable** animal-groups on the planet^[3], despite being underrepresented in scientific reporting^[4], receiving less funding^[5] and being bypassed in political and media spheres^[6].



Raising the profile of amphibians globally is essential, but there is also consensus that animals that do not fit a conventional charismatic model are more likely to be overlooked in the public domain, or even actively **vilified** in public media^{[7,8,9].} Thus, it is necessary to understand how topics that are more difficult to communicate in nature can be presented in engaging ways to an audience. This research has been used to aid the Mountain Chicken frog.

Aim: To obtain a better understanding of how difficult, uninteresting or overlooked science subjects can be better communicated to an audience in order to inspire empathy and interest.



Mini-Interviews at Bristol Festival of Nature

- 3 question interviews using toys
- Members of the public Bristol Festival of Nature

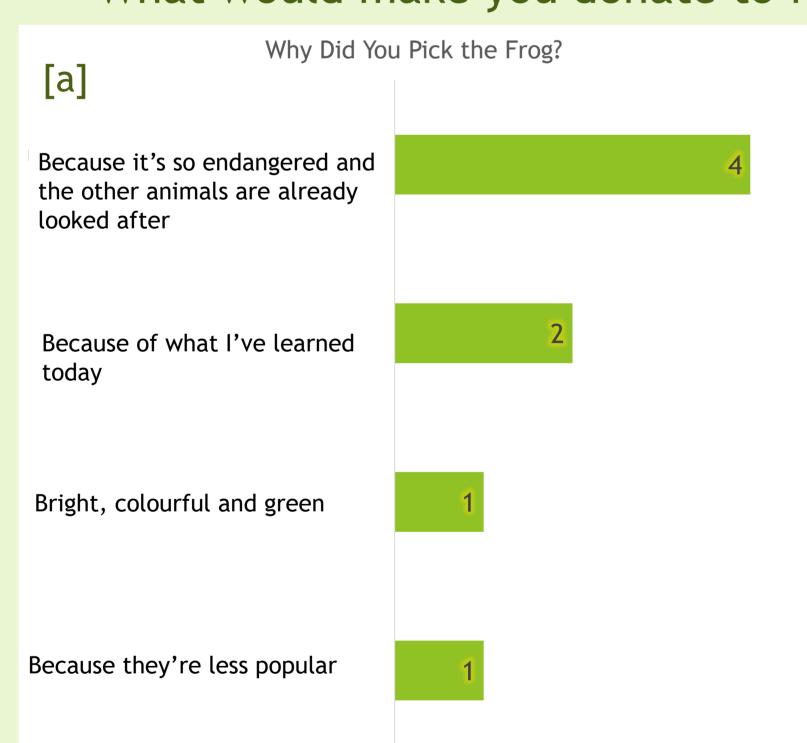
Semi-Structured Interviews

- 13 question interviews
- Researchers and communicators in areas of science considered 'hard-to-sell'
- Purposive, targeted sampling, then snowball sampling

Results:

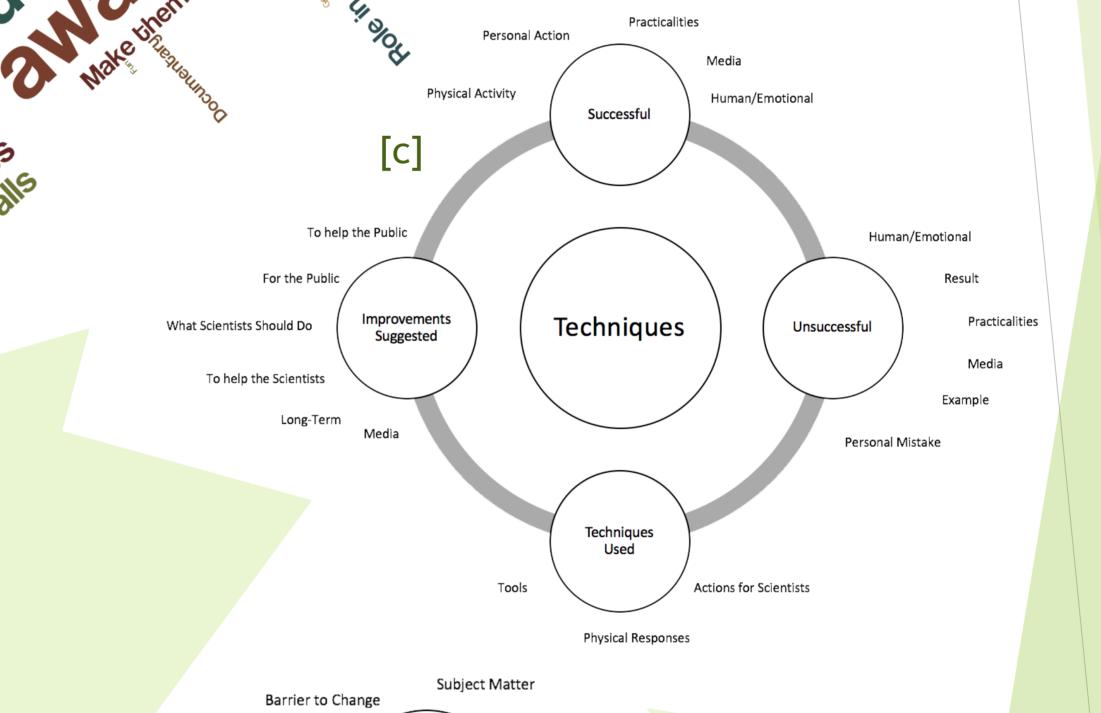
Mini-Interviews: Bristol Festival of Nature

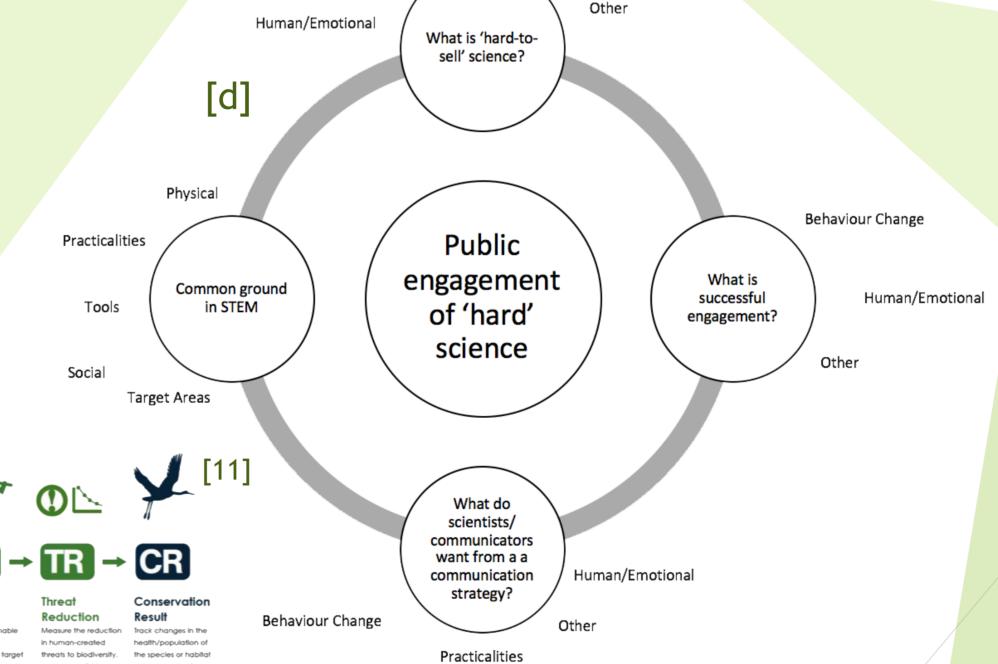
- 54 mini-interviews conducted
- Charismatic species more popular
- Seven people chose the frog, giving 8 reasons for their decision^[a]
- "What would make you donate to frog conservation?"[b]



Semi-structured Interviews:

- 15 interviews completed
- 69 codes emerged from the dataset
- 22 code groupings/themes could be distinguished
- Human/Emotional and Behaviour Change were most predominant across the interviews^[c, d]





Conclusions:

- Human/Emotional and Behaviour Change themes strong throughout.
- Important to be clear on your aims and use existing techniques to build engagement strategies.
- Know your audience and what you want to achieve.
- Work closely with marketing to streamline science into easy-to-engage material.

- Limitations

- * Broad questions, lots of material covered
- * Hard to distinguish what people considered as engagement
- * Frog toy not realistic, and festival audience already engaged
- * Would have liked more time to explore and interpret data

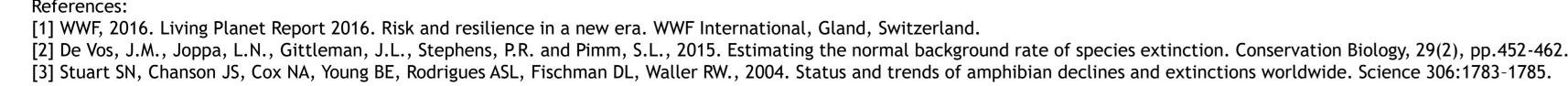
Recommendations:

- -Clear, actionable message.
- -Empower people through actions.
- -Put shared information in context.
- -Be memorable and relatable.
- -Convey certainty in the science and its recommendations^[10, 11].









[4] Cronin, D.T., Owens, J.R., Choi, H., Hromada, S., Malhotra, R., Roser, F. and Bergl, R., 2014. Where has all our research gone? A 20-year assessment of the peer-reviewed wildlife conservation literature. International Journal of Comparative Psychology, 27(1). [5] Mahoney, J., 2009. What Determines the Level of Funding for an Endangered Species?. Major Themes in Economics. [6] Czech, B., Krausman, P.R. and Borkhataria, R., 1998. Social construction, political power, and the allocation of benefits to endangered species. Conservation Biology, 12(5), pp.1103-1112.

[7] Driscoll, J.W., 1995. Attitudes toward animals: Species ratings. Society and Animals, 3(2), pp.139-150. [8] Dunn, R.R., 2005. Modern insect extinctions, the neglected majority. Conservation Biology, 19(4), pp.1030-1036. [9] Smith, R.J., Verissimo, D., Isaac, N.J. and Jones, K.E., 2012. Identifying Cinderella species: uncovering mammals with conservation flagship appeal. Conservation Letters, 5(3), pp.205-212.

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[10] Donovan, J., 2015, August. If You Can Explain Radiation, You Can Explain Anything! Lessons Learned from Communicating a Challenging Topic. [Environmental Health]. In 2015 National Conference [11] Butler, P., K. Green, and D. Galvin, 2013. The Principles of Pride: The science behind the mascots. Arlington, VA: Rare.