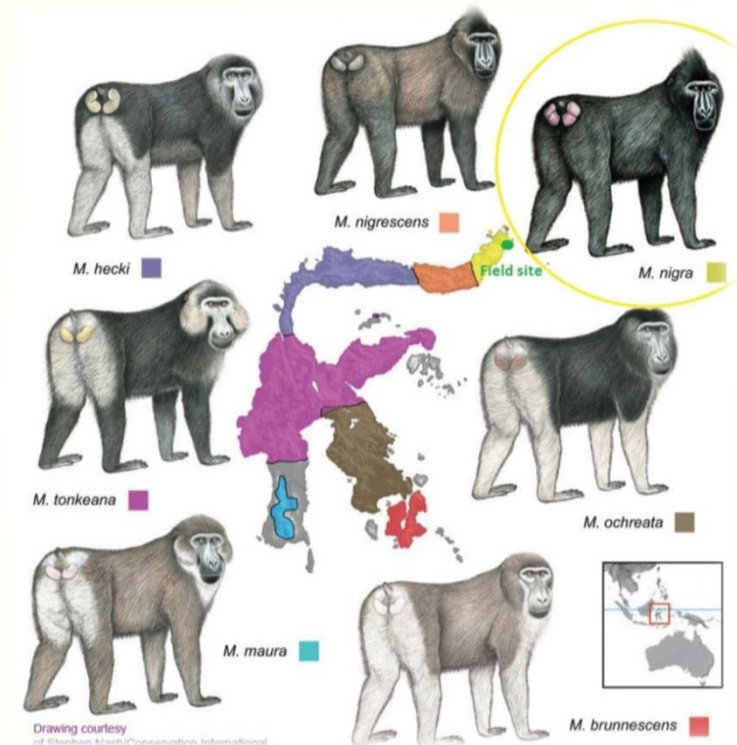


Importance of conservation education for the crested macaque (*Macaca nigra*) in North Sulawesi (Indonesia) and the potentiality of a participatory educational tool: the forum theatre.

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Sulawesi, an Indonesian island, is one of the 25 biodiversity hotspots for conservation priorities due to its location within the Wallacea region (Myers et al., 2000). Among the 7 endemic macaque species of the island, the crested black macaque (*Macaca nigra*), endemic to North Sulawesi, is considered **Critically Endangered** (IUCN red list A2cd ver 3.1, 2008; CITES Appendix II). In the past three generations, the crested macaque population has been reduced by more than 80% due to habitat loss and hunting pressure (Supriatna & Andayani, 2008). To stop this drastic decline, the Tangkoko Conservation Education programme (TCE), education programme of the Macaca Nigra Project, implements conservation education activities since 2011 for local communities surrounding several protected forests of North Sulawesi.

From the assessment of conservation education programmes via questionnaires...

From 2014 to 2015, TCE has delivered questionnaires to pupils from 5 classes of Batu Putih, Duasudara and Pinangunian villages, situated at the edge of the Tangkoko forest. The aim of this study was to assess TCE's effectiveness on children's knowledge, attitudes and habits up to one year after their participation in the programme:

- T0: baseline, before the programme (N= 16, M=10.18 years, SD=0.75)
- T1: short term = 30 days the programme (N= 15, M=10.80 years, SD= 1.08)
- T2: medium term = 6 months after (N= 16, M =11.37 years, SD= 0.95)
- T3: long term = 1 year after (N= 16, M=11.81 years, SD= 0.91)

The graphs below represent 16 pupils, present at each time point (Mathilde Chanvin's data).

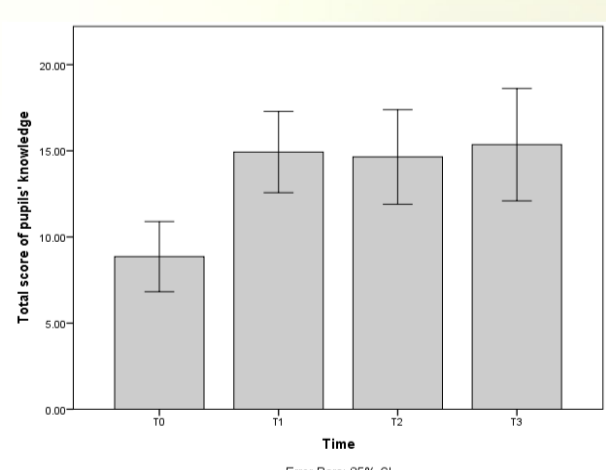


Fig. 1: Pupils' knowledge score over time.

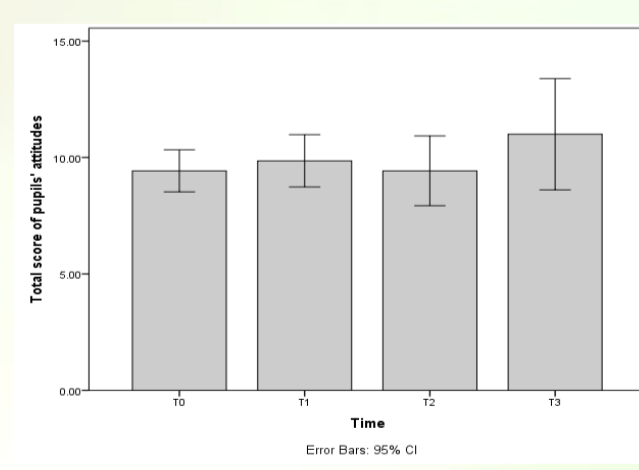


Fig. 2: Pupils' attitudes score over time.

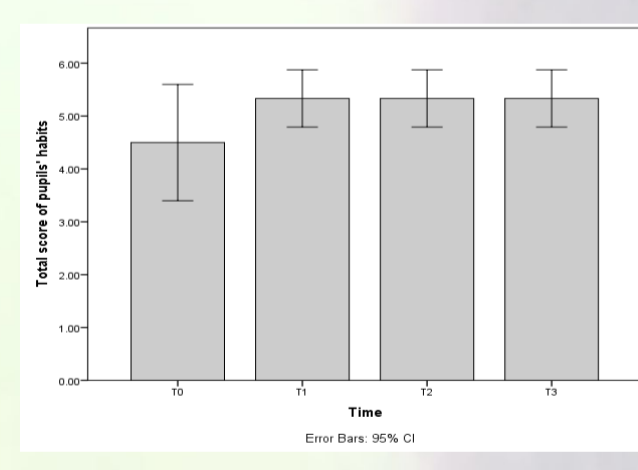


Fig. 3: Pupils' habits score over time.

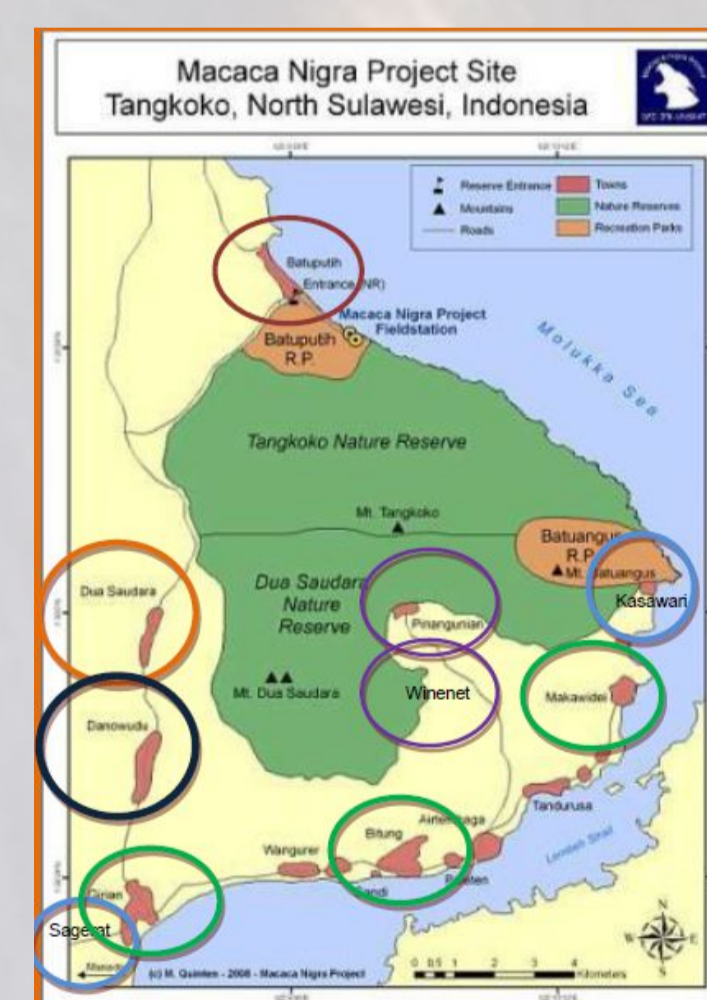
❖ **Knowledge, attitudes and habits have increased over time but only knowledge has a statistically significant result (ANOVA, $p=0.002$)**

❖ **Positive change in knowledge is thought to help inducing a change in attitude and habits in the long term (Aipanjiguly et al., 2003).**

... To the implementation of another educational tool: the forum theatre

Forum theatre was created in Brazil by Augusto Boal (Day, 2002) to promote social and political change through participatory reflexion.

Forum theatre combines a passive way of learning via the first play where a problem is presented, with an active phase via the second play where the public is asked to participate in the debate, come on stage and play their suggestions.



- 3 month field-work (May to July 2016)
- Implemented in 15 villages and towns around protected forests
- Combined with a short movie presenting the species (diet, habitat, threats)
- Expected to reach about 1500 people
- Assessment with pre and post evaluation exercise using free-listing interview technique

❖ **Involving local communities (children and adults) in the process of finding effective solutions to ensure that the positive behavioural changes towards the species can lead to the survival of the crested macaque.**

