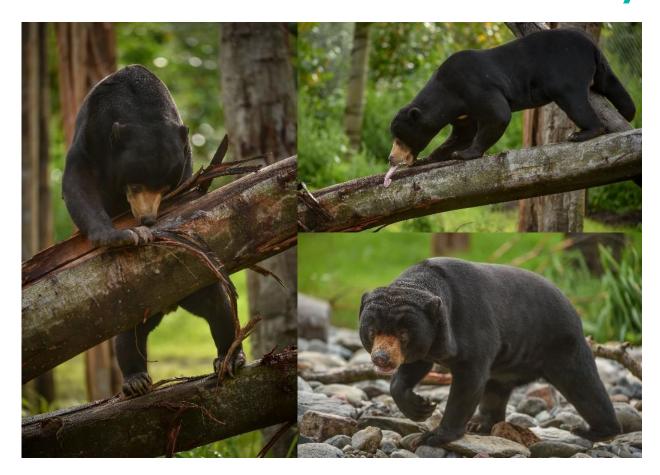


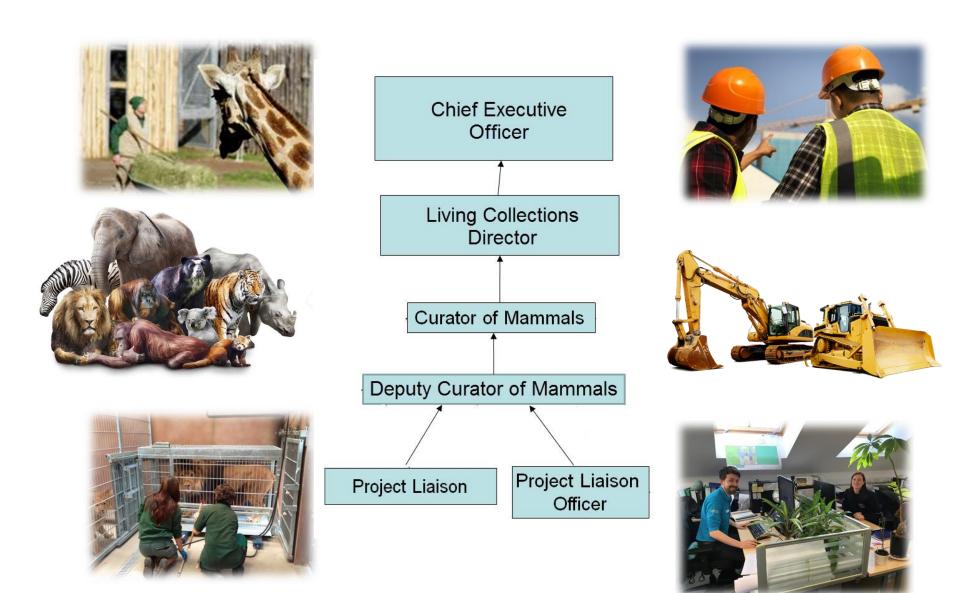
A sun bear success story



Chloe Cain – Project Liaison, Chester Zoo

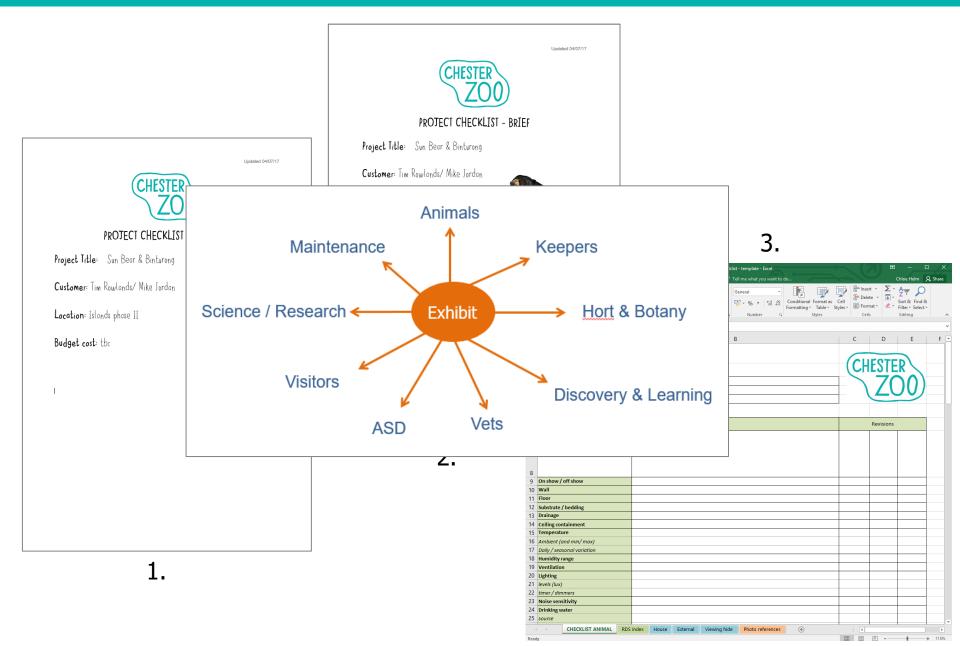
Role





CZ design process





Project checklist - Animals



- Species Information: Group size, social structure, activity times
 Biological needs
 Behavioural needs
 Breeding strategy, foraging, locomotion
- Enclosure requirements: Inside enclosure Outside enclosure
- Details to include:
 - Containment Minimum sizes Environmental conditions Gates, doors and access

Off show/quarantine area Breeding facilities Areas for retreat Crating areas Environmental enrichment Weighing facilities

Project checklist - resources



$ZooLex \ {\tt www.zoolex.org}$



www.iucnredlist.org/



HUSBANDRY GUIDELINES FOR THE BLACK EYED LEAF FROG (Agalychnis moreletii) Ben Baker, Assistant team manager of lower verbehates and invertebrates at cheter Zoo EAZA Best Practice Guidelines Black rhinoceros (*Diceros bicornis*)



Picture: Black rhino at Chester Zoo

Editors: Dr Mark Pilgrim and Rebecca Biddle MBiolSci., NEZS Chester Zoo Contact information: Chester Zoo, Cedar House, Caughall Road, Chester, CH2 1LH, 01244 389 879 Email: <u>b.biddle@chesterzoo.org / m.pilgrim@chesterzoo.org</u> Name of TAG: Rhinoceros TAG TAG Chair: Dr. Friederike von Houwald

Edition: 1





Our Bears





Milli

Toni

Designing for sun bears





Our Sun Bears were rescued from the illegal wildlife trade

They were taken to the Cambodian Government's Phnom Tamao Wildlife Rescue Centre and cared for by Free the Bears, a charity dedicated to helping Asia's bears. Now our Sun Bears are part of the EEP helping to save their species from extinction.

The European Endangered Species Breeding Programme (EEP) co-ordinates the movement of species

The purpose is to keep the population physically and genetically healthy.

Having a healthy zoo population makes the species more viable to reintroduce back into the wild. But we need to make sure their natural habitats are safe and healthy before this can happen.

Toni was rescued in 2004 from a wildlife trader in Cambodia

There were lots of other rescued cubs in the Centre at that time for him to mix with. Even early on he showed his playful nature.

As he grew older he became well known at the Centre for refusing to be shut indoors. The keepers would spend

for returning to be sinu indoors. The keepers would spend hours each day trying to tempt him into his den so they could clean the forest enclosure. But Toni would always keep at least one foot outside, preventing them from closing the door to the dens.

He was chosen as a good candidate for the EEP and left Cambodia for the UK in 2013.

Milli was seized from a military general who was keeping her as a trophy pet

Once she had grown out of the initial cub stage, she had a chain put round her neck and was left outside chained to a tree

She wash't fed properly and her fur turned brown. As she grew the chain cut deeper into her neck and the yet team had to cut it off when they rescued her. She hadn't been treated kindly and visibly shock whenever anyone went near her. It took almost two weeks following her rescue before she realised the keepers didn't mean her any harm. But then she started playing like a cub again and cried whenever they left the area.

She was chosen to join the EEP and travelled to the UK with Toni in 2013.

Toni and Milli joined us here in 2015 and we're passionate about raising awareness of the plight of sun bears.







Concept and feasibility: 2015 Outline proposals: Jan-Feb 2016 Detailed design: March-July 2016 Tender: Summer 2016

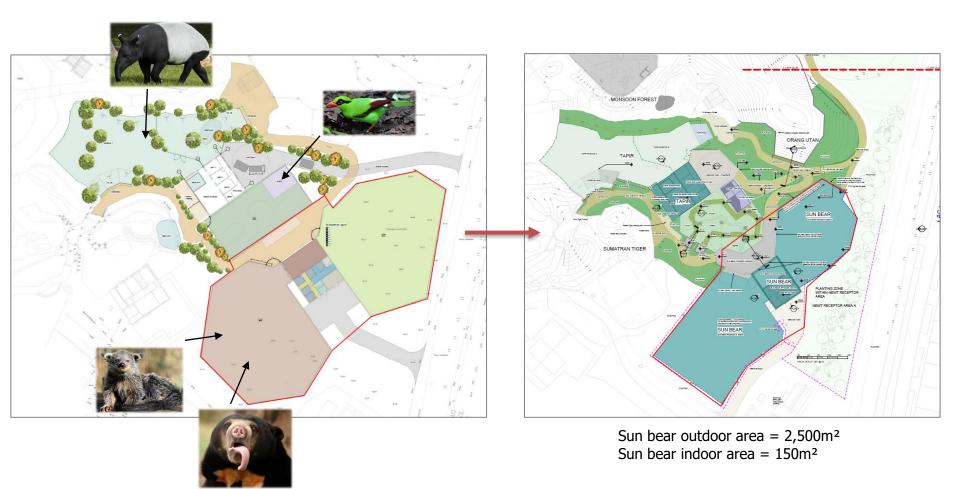
Construction: Started Aug 2016



Open to public Aug 2017

Design development





Concept to developed design





Project challenges





- Binturong access routes
- Potential for conflict
- Keeper slide operation



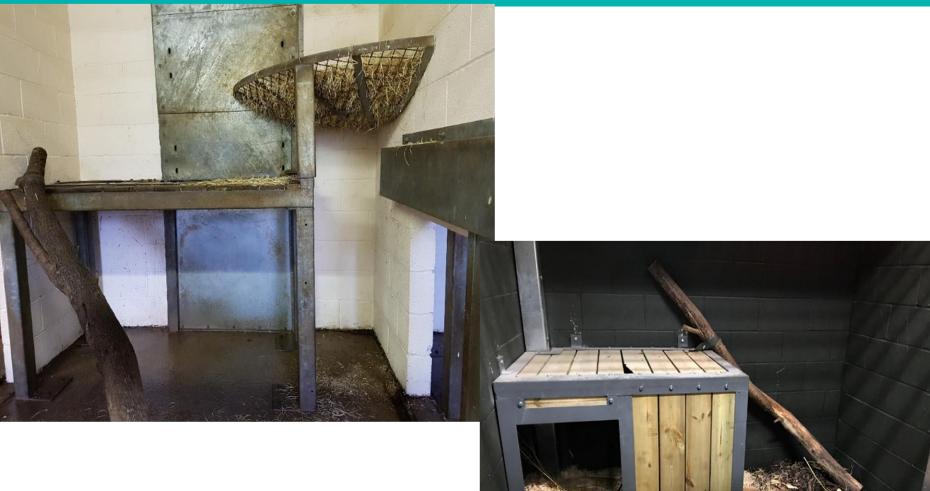
Sun bears – indoor enclosure





Sun bears – indoor enclosure

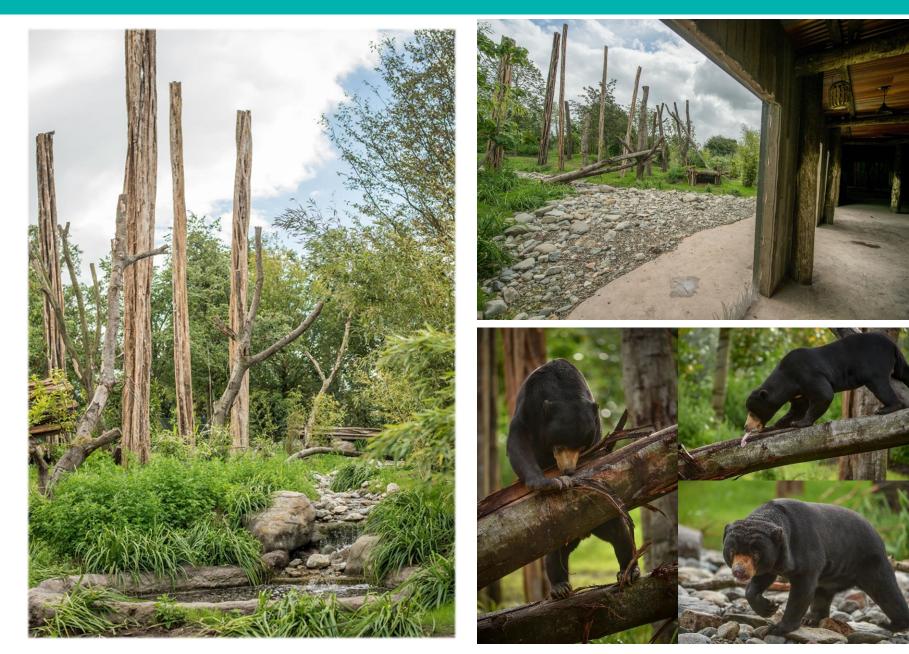






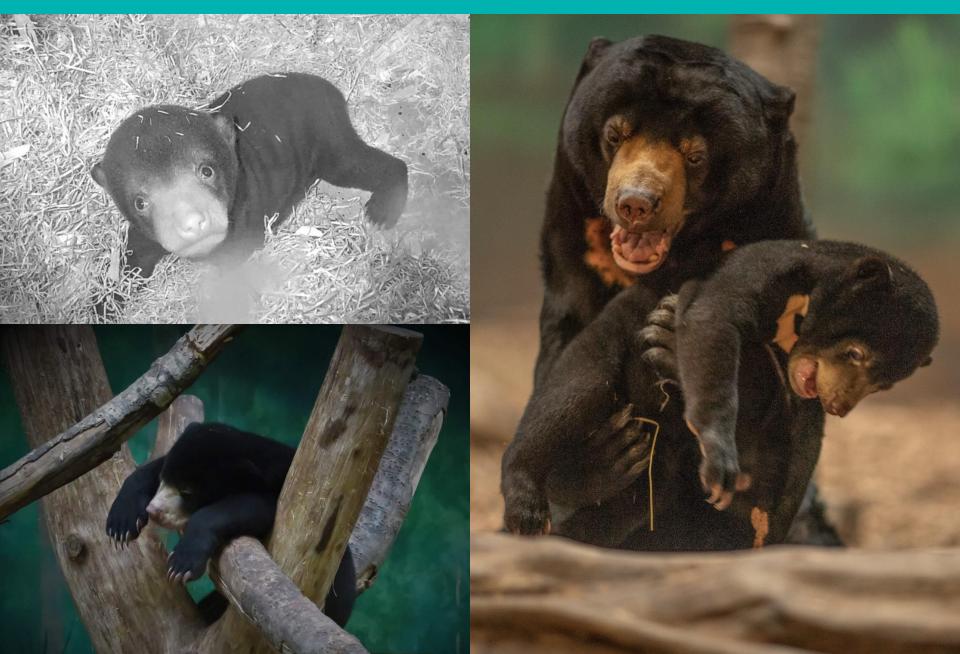
Sun bears – external enclosures





Breeding

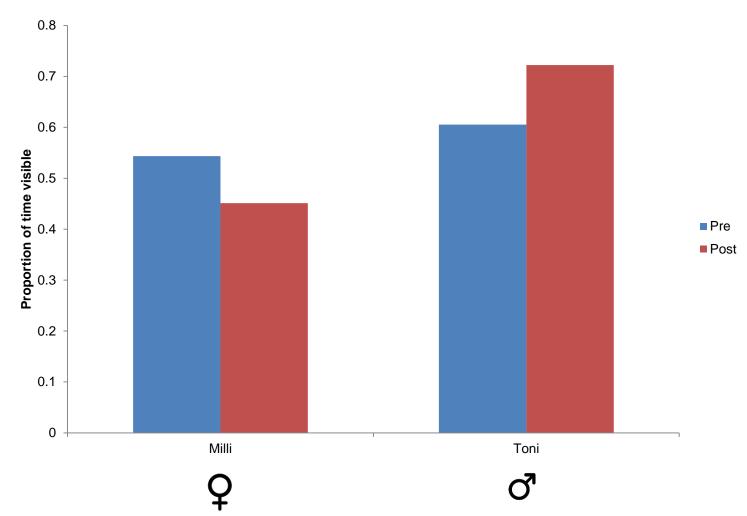




Analysis



Visibility:

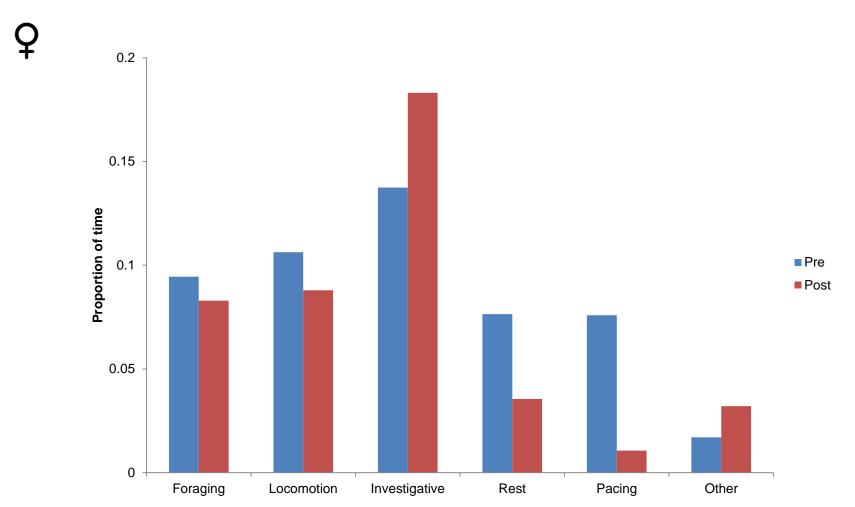


(Williams et al, In prep).

Analysis



Behaviour: Milli



(Williams et al, In prep).

Analysis



Behaviour: Toni റ് 0.3 0.25 0.2 Proportion of time Pre 0.15 Post 0.1 0.05 0 Foraging Locomotion Investigative Rest Pacing Other

(Williams et al, In prep).

Thank you!



