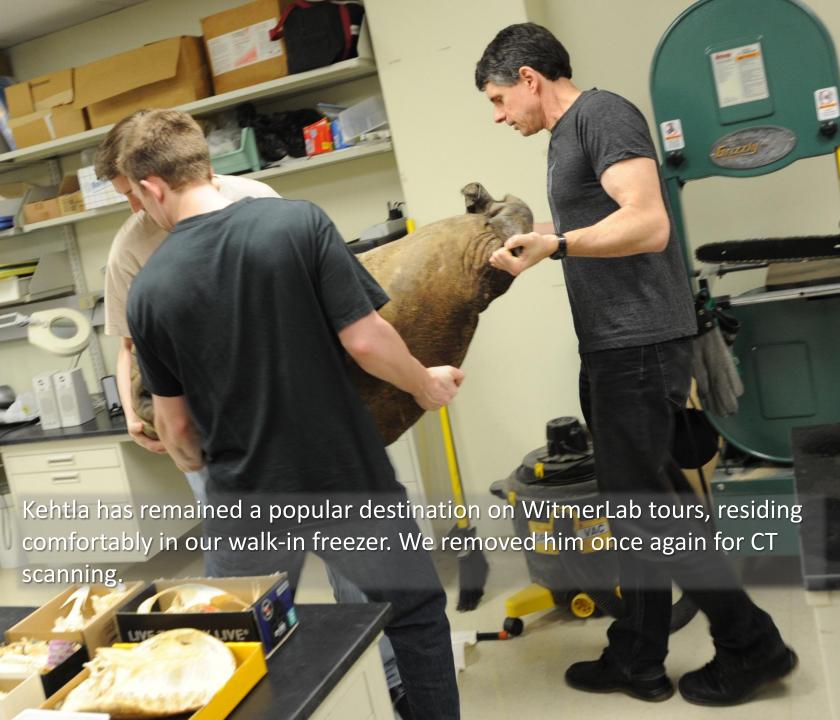


elsewhere. So on March 15th, we returned to O'Bleness Hospital in Athens, OH, to get new, better, more complete CT scan data on Kehtla, our white rhino specimen.

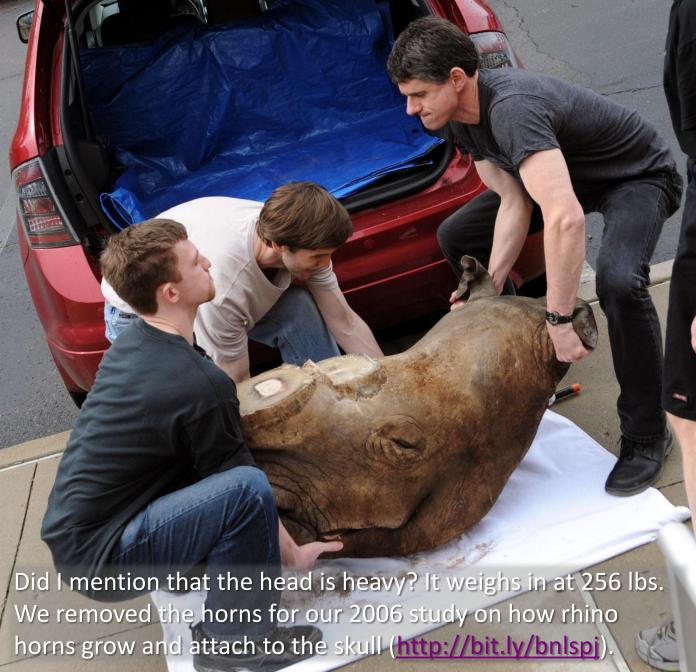


Kehtla was a male white rhinoceros well known to generations of Phoenix, AZ, residents. In 1963, he was brought as a two-year-old from Natal, South Africa, to the Phoenix Zoo. He passed away from cancer in 2003 at the age of 42. At that time, his head was air-freighted to us for anatomical study.













I've been scanning at O'Bleness since 1996 and with Heather Rockhold since 1999. Heather and I have scanned hundreds and hundreds of fossil and modern-day animals. This day we were greeted by local media, invited by the hospital staff who were eager to do their part in helping the rhino effort both by contributing to the science and by publicizing the broader problem.



the nature of the injuries to Themba and Thandi whereby the poachers cruelly sawed off large parts of the face to remove the horns.





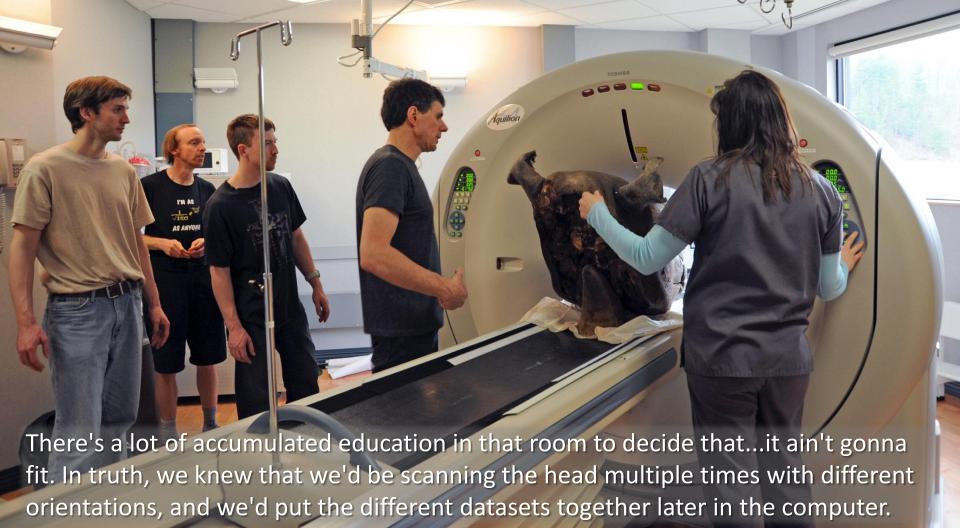
skin, and bony skull.











It's indeed fortunate that we had had to remove the horns for the previous study, or we never would have fit him at all. The slit along the mouth was done during the zoo necropsy, a routine procedure to harvest oral tissues for analysis.





In the control room, we decided that this orientation just wasn't working—it wasn't going to give us the all-important top of the head like we wanted. We had to flip it. We did later scan the head with a similar upright orientation to get the bottom part, but the top of the head was a must-have.





scanner's opening, which means we'll get good data...if the head will fit at all.



Back in the control room, we assessed whether we were getting what we needed. The person at left is Stephanie Stark, a reporter from the *Athens News*. I was very impressed with how the press hung in there for so long to get the story.





The "scout" image on the monitor shows an x-ray like image of the head that helps with positioning. You don't have to be a trained radiologist to see that it's gonna be tight no matter what we do.







Here's Team Rhino, exhausted and dirty but satisfied. We may have the most complete CT scan dataset ever collected for an adult rhinoceros head. We scanned the head completely from front to back with slices only 300 microns (= 0.3 mm = 0.0118 inches) thick. Over 3600 slices!



because Heather Rockhold has been a key part of our team for more than a dozen years, as has O'Bleness Memorial Hospital.

