

71,896

NHPs are used for research annually

\$39.5 mil Primate Pre- Clinical Study Market

What is STEREOTYPY?

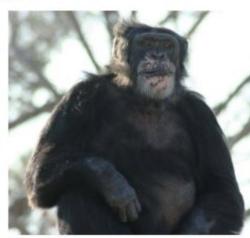
- Repetitive behaviors noticed in primates
- Due to stress, social settings, and new stimulus
- It helps researchers develop better treatment strategies
- Helps improve primate's psychological health

Dr. Collins, please save our chimps!

Cindy A. Buckmaster, PhD, CMAR, RLATG

In December 2011, Dr. Francis Collins Director of the National Institutes of Health (NIH), accepted the Institute of Medicine's recommendation to restrict biomedical research with NIH-supported chimpanzees to include only that which is necessary to advance public health when there are no other means for doing so. A tidal wave of emotions swept through the research community following this announcement. Some of us were furious and despondent, concerned about the effects of this decision on our future medical needs. Others were cautiously relieved, grateful for the contributions these incredible animals have made to human and animal well being over the years, and satisfied with the Institute of Medicine's well-considered recommendation to remove them from invasive studies that could be done without them. It has been nearly five years since Dr. Collins' announcement, and most of us have come to accept his decision. This is not surprising. The 3Rs and NIH Guidelines already require an absolute necessity for animals of any kind in biomedical studies. Chimpanzees are no different from any other animal in this regard. What makes chimpanzees special is that a panel of experts determined that we could continue our current quest for treatments and cures without them. If we do not truly need them, we should not use them. And Dr. Collins' decision to retire them from biomedical research was a good one. Animal rights groups from all over the country celebrated Dr. Collins' announcement, claiming a role in influencing his decision. I do not believe they played a role at all. Science is science, and this is not their strong suit, Nevertheless, they spun it as an animal rights accomplishment to the public to keep the money rolling in, because they

had plans for our chimps.



Over the next few years the focus turned to removing chimpanzees from research institutions and relocating them to sanctuaries in the United States. Yalk about doing so seemed to intensify last tune when the

No US sanctuary is staffed or equipped to care for chimpanzees like MDAKC, not one!

US Fish and Wildlife Service classified all US chimpaneess, including those in research, as endangered. Five months later Dr. Collins announced that the NIH planned to send all NIH-supported chimps to US sanctuaries. In my view, this decision

of the United States, who conviof thousands of American citize mit letters to the NIH urging ti to remove chimpanzees from settings as quickly as possible. posted in 2013, the CEO of the Society of the United States conhts followers for their hard work ing their effort by stating that co forth by a NIH working group ma that "not one laboratory could b ered ethologically appropriate" panzees. This is not true. In fact our chimps would fare better if allowed to retire in place. And these precious creatures have all fered and died because the NIH

The MD Anderson Keelin (MDAKC) in Texas has been

Meet Our Team



Ananth Dharmavaram (ad2379)

Amritanshi Saxena (as4289)

Asmodeus Wang (rw744)

Yatin Satija (ys2347)



Meet Josh!

Age: **45 yo**

Works at: XYZ Organization

He manages a team of **20 junior** scientists



Challenges Faced

Time spent in monitoring behavior of NHPs*

Need for accurate data collection

Psychological health of NHPs*

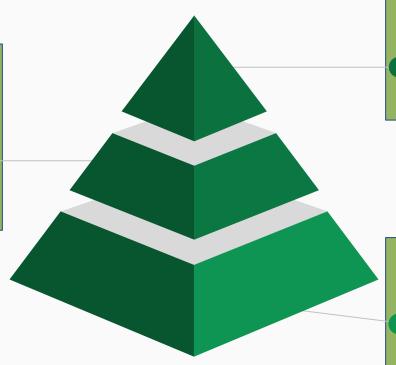
INTRODUCING STEREOTYPY-CAL



Solution

Challenge 2

Since there is flawless data collection, the accuracy for stereotypy detection is improved



Challenge 3

With the accurate detection of stereotypy behaviors, researchers can take

 necessary measures to take care of the NHPs

Challenge 1

It addresses the challenge of manual work by monitoring the NHPs 24/7

DEMO







Enclosure

Animal - 1



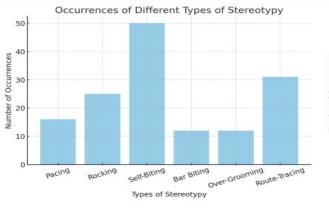
· Behavior Detected: Rocking

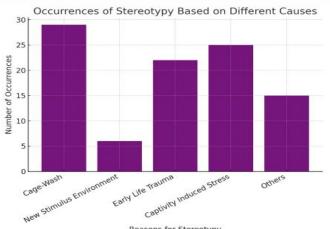
· Duration: 10:15:54

· Start Date: 27th January 2025

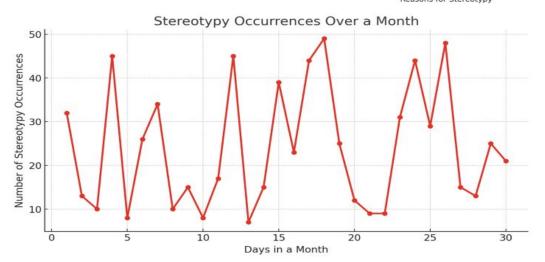
Reasons for Stereotypy:

Environment Social Issue **New Stimulus** Ok Enter input





Reasons for Stereotypy





Cost of monitoring Stereotypy behaviour manually

~ \$40,000 / yr

Cost of monitoring after our solution is implemented

~ \$6,000 / yr

Cost Savings

Upto

85%



Thank you!

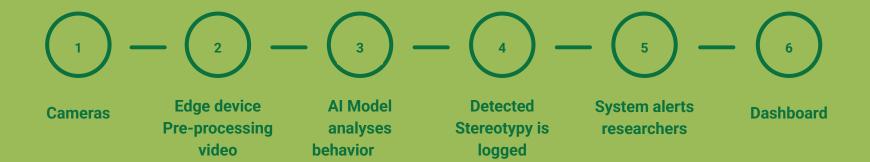
Ву,

Team Primates



Appendix

System Design



Cost Breakdown Structure

Fixed Costs (Per unit):

Hardware setup (Camera + edge device) - \$500

Additional cost to pay:

Al Model Development - \$1500 (One -Time) Software and Dashboard Development -\$3000 (One-Time) Regulatory and Legal Compliance: \$1500 (One-Time)

Model:

Subscription based: \$6000

- Maintenance Charges
- Data Storage
- Compliance Renewals and Training
- Cloud Processing
- Model retraining