Analytics and Artificial Intelligence @ Your Toronto Zoo December 1, 2025 toronto **GUARDIANS**

TZTD

Toronto Zoo Transformation Division

We drive the physical, digital, environmental and financial transformation of your Toronto Zoo.



transformation through delivery of a \$300+ million 10-year capital plan and renewed campus plan that sets the standard for modern, accredited zoos of the future



Catalyze digital
transformation through
current and secure
systems, data driven
decision-making and
sustainable
technologies that
advance conservation
and guest experience



Realize environmental transformation reflecting our values as a leading conservation science organization that achieves net zero emissions, waste and water consumption by 2030



Prioritize **financial**transformation through
revenue optimization and
diversification,
conservation-focused
investment and spend for
impact enabled through
modernized and inclusive
procurement practices.





Focus: Digital Transformation



Analytics and Artificial Intelligence (AI)

@ Your Toronto Zoo



Data → Insight → Advantage

- TZ is rich in various assets world-class expertise, singular passion for our mission but we have not fully leveraged one of our most valuable resources: our data
- In the age of Big Data and AI, safeguarding and activating data is now **mission-critical**
- Fully realizing our data's value means being innovative,
 proactive, and a leader responsibly and sustainably
- Data-driven organizations are more nimble, versatile, effective, and resilient
- The path forward: **Data** → **Insight** → **Advantage**



Would you survive a zombie apocalypse with blinkers on?



The Way Forward

Tailored Strategy

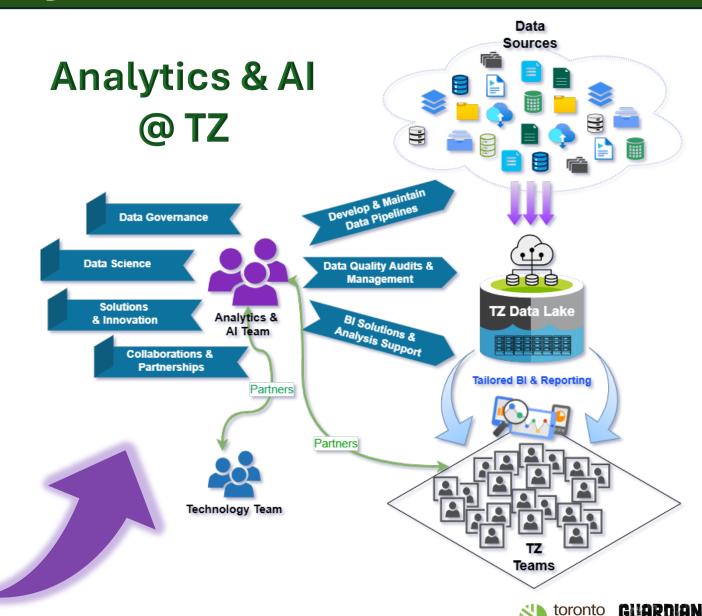
- Core Values & Principles
- Governance & Policies
- Processes & Protocols
- Build/Expand Infrastructure

Operational Supports

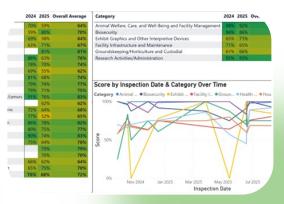
- Access to data
- Access to tools
- Refine/improve business processes
- Expert support

Culture & Competencies

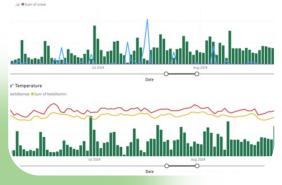
- Data Literacy
- Cross- & Multi-Skilling
- Iterative & Sustainable Innovation
- Community Engagement & "Citizen Data Science"



Applied Analytics & Al



\$3.3.58K \$3.3.4M | Sale State | Sale | Sale

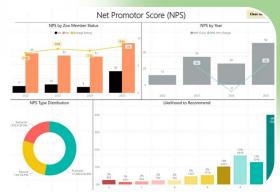




Monitoring & Improving Performance

Identifying Gaps & Opportunities

Modelling & Simulations





C) Pace

D) Object

Manipulation

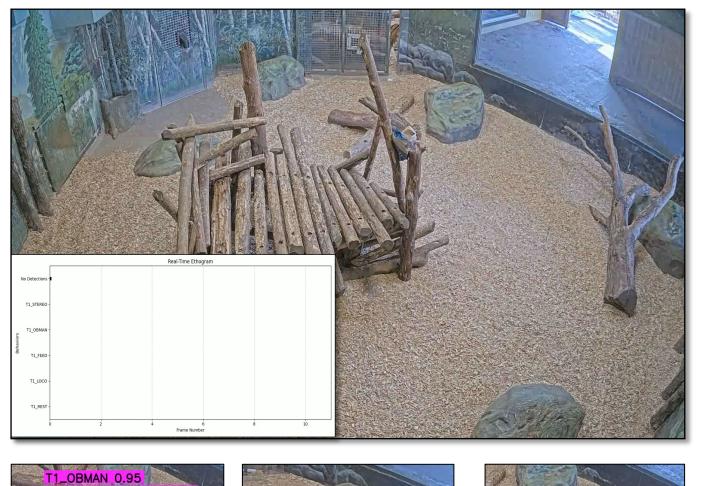
Understanding & Enhancing Guest Experience

Supplementing Staff
Availability &
Capabilities

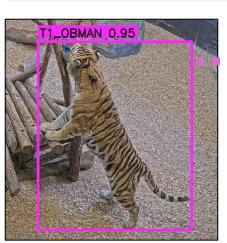
Al-driven Automation & Advanced Workflows

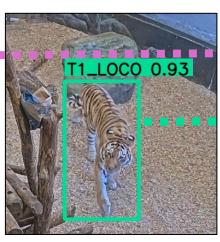


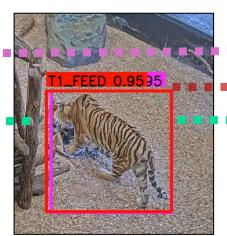


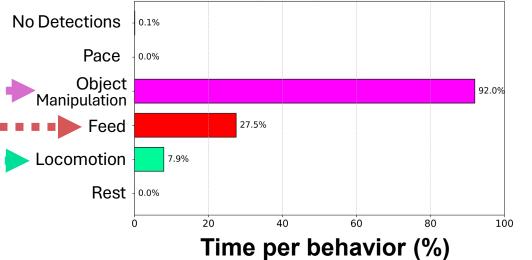


Automated monitoring tools can provide detailed reports of activity budget for *pre-recorded footage* and *live CCTV streams*.

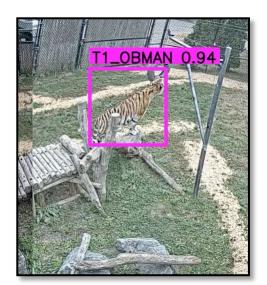


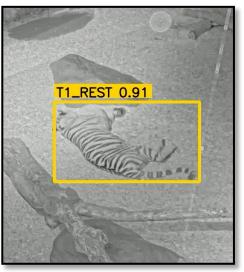




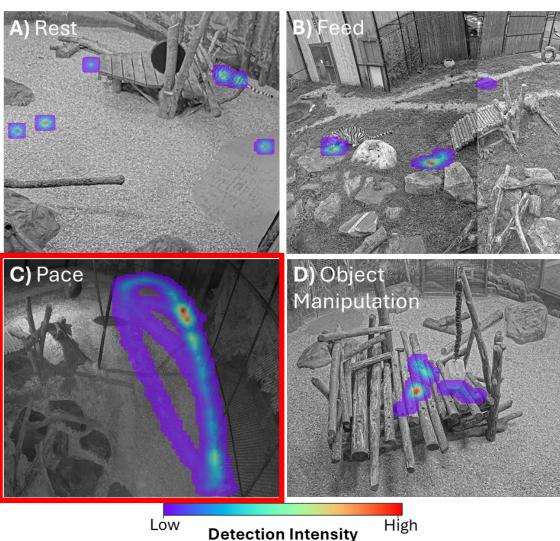


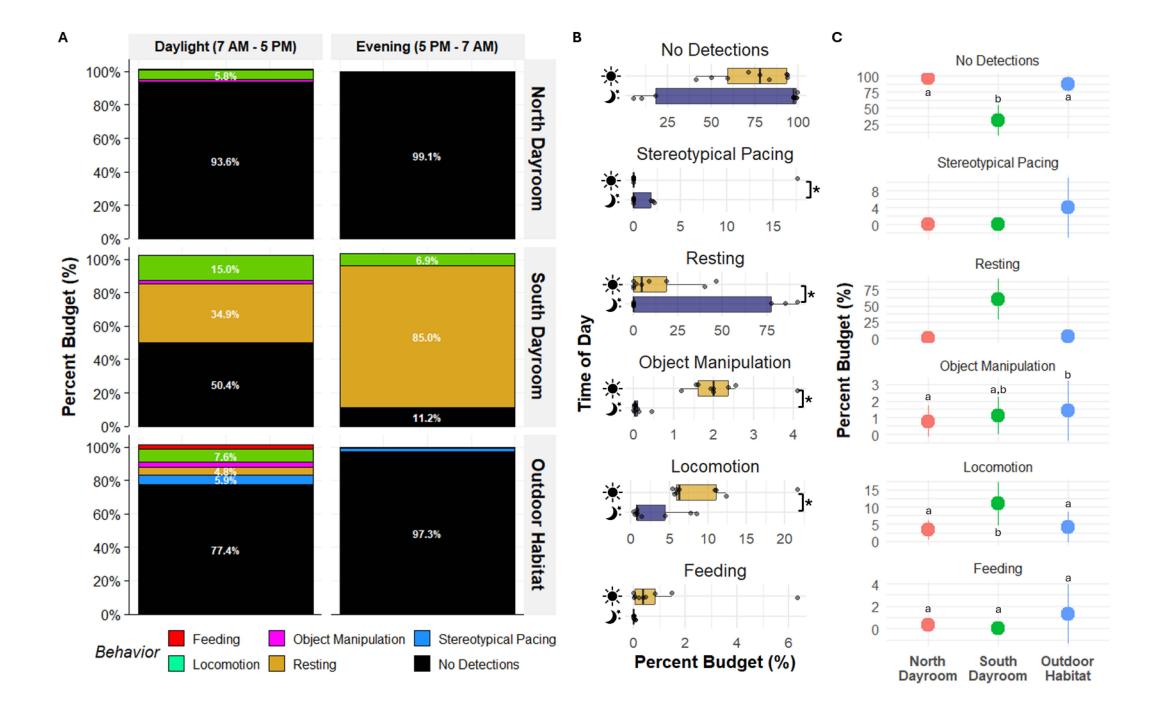
Space use heatmaps are a simple yet effective tool to identify areas of the habitat that are preferred or under-utilized.



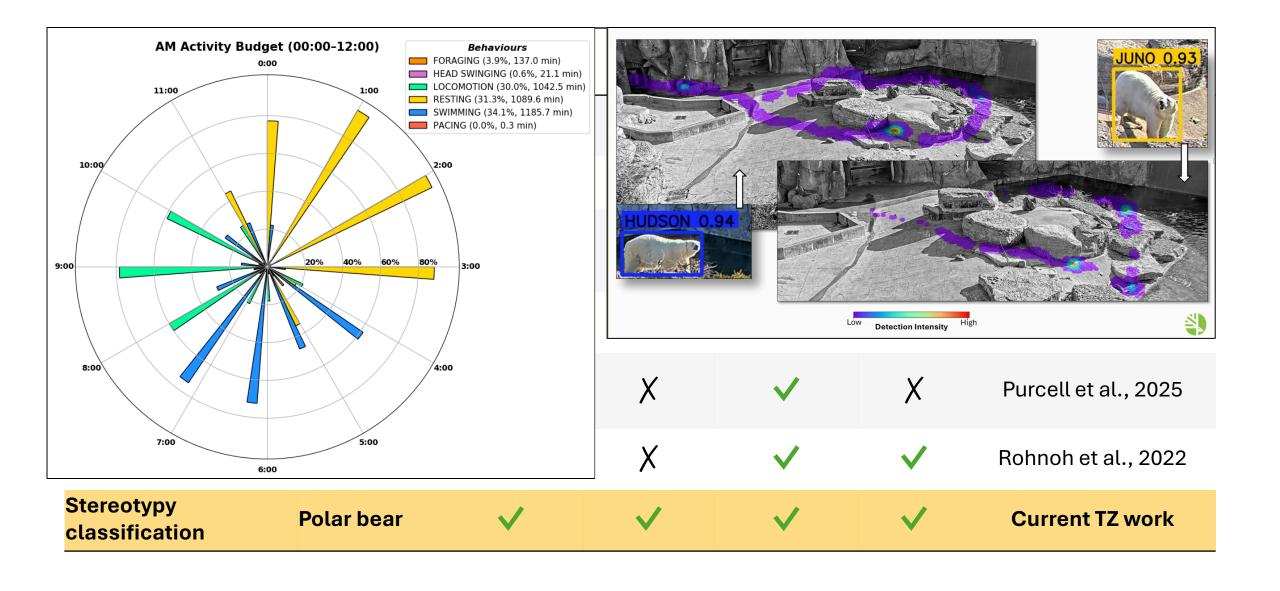








ZooAl Functionalities





Thank you!

