



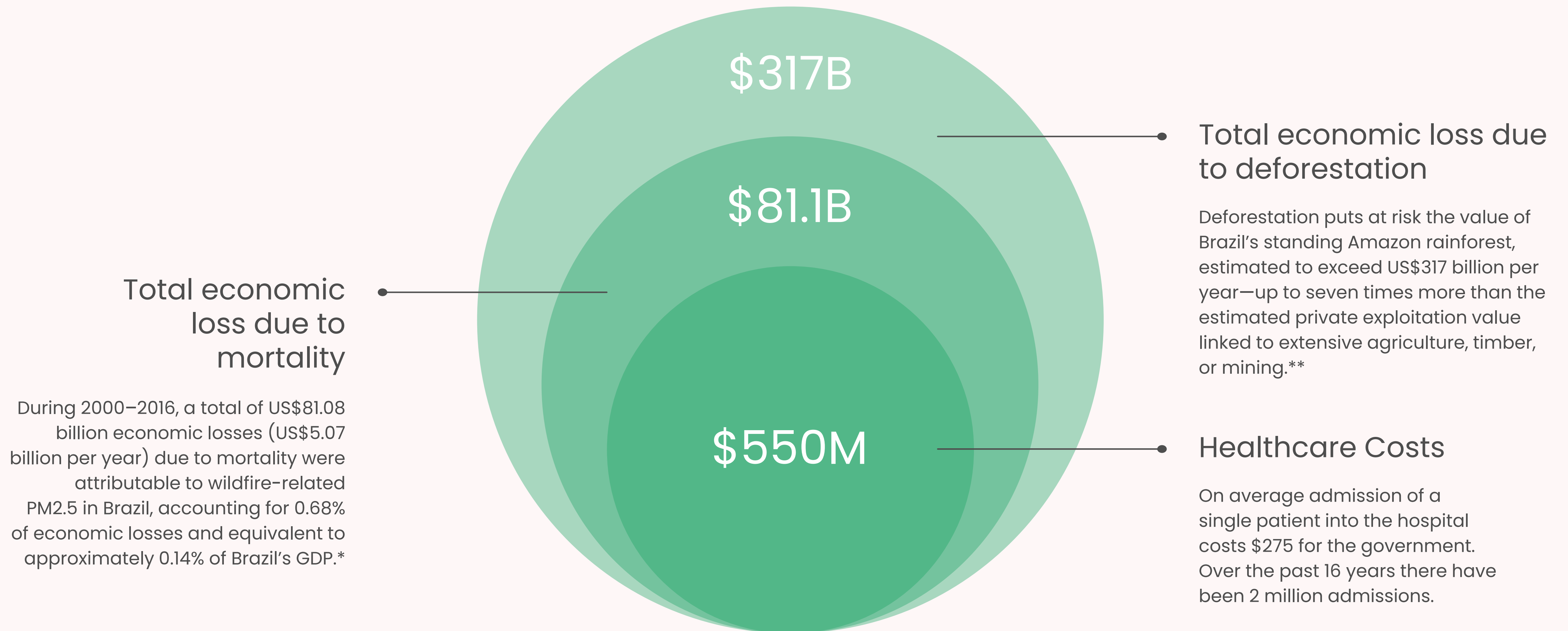
Transforming Brazil's Future through Wildfire Innovation

Presented by Team: Leuven friends

For START Hack 2024
Case presented by G20 Global Land
Initiative and the Universitat
Politècnica de Catalunya

The Economic Impact of Wildfires

Financial Loss Estimations Presented are for the entire period of 2000–2016

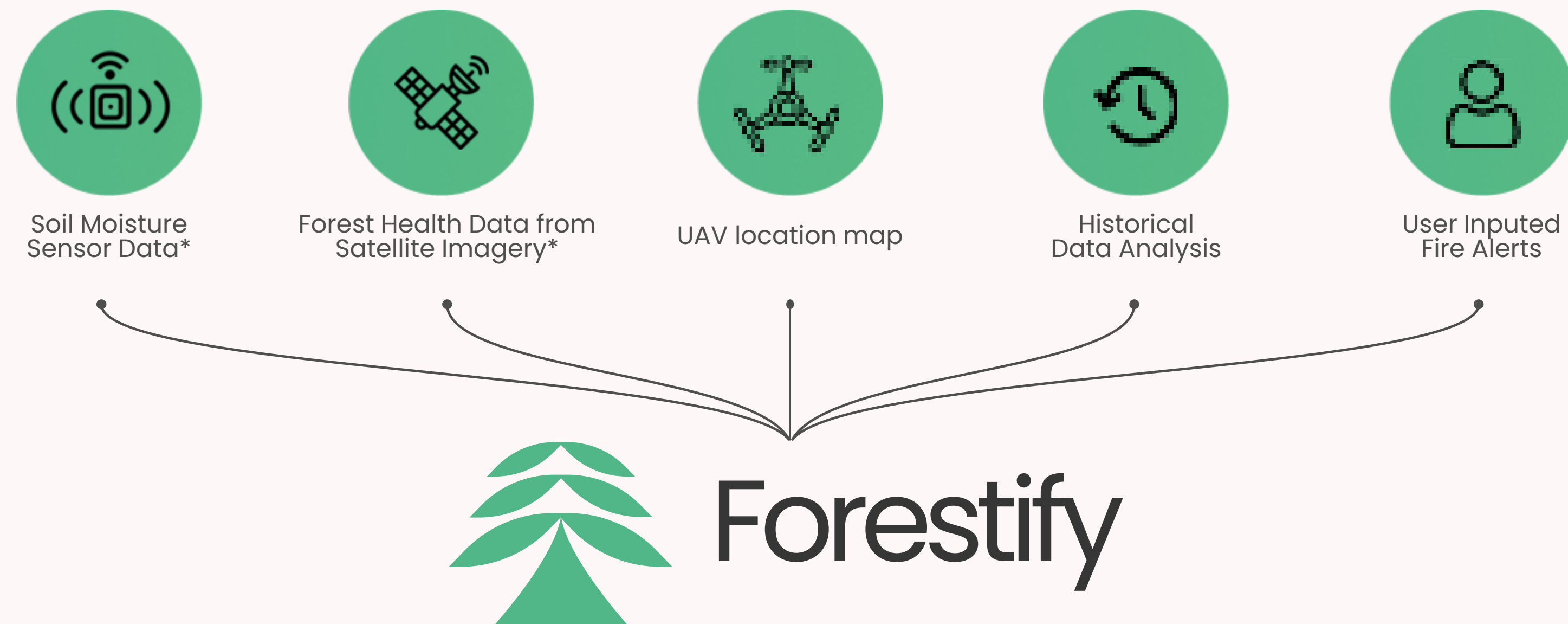


*Source: Wildfire-related PM2.5 and health economic loss of mortality in Brazil by Yao Wu a, Shanshan Li – <https://doi.org/10.1016/j.envint.2023.107906>

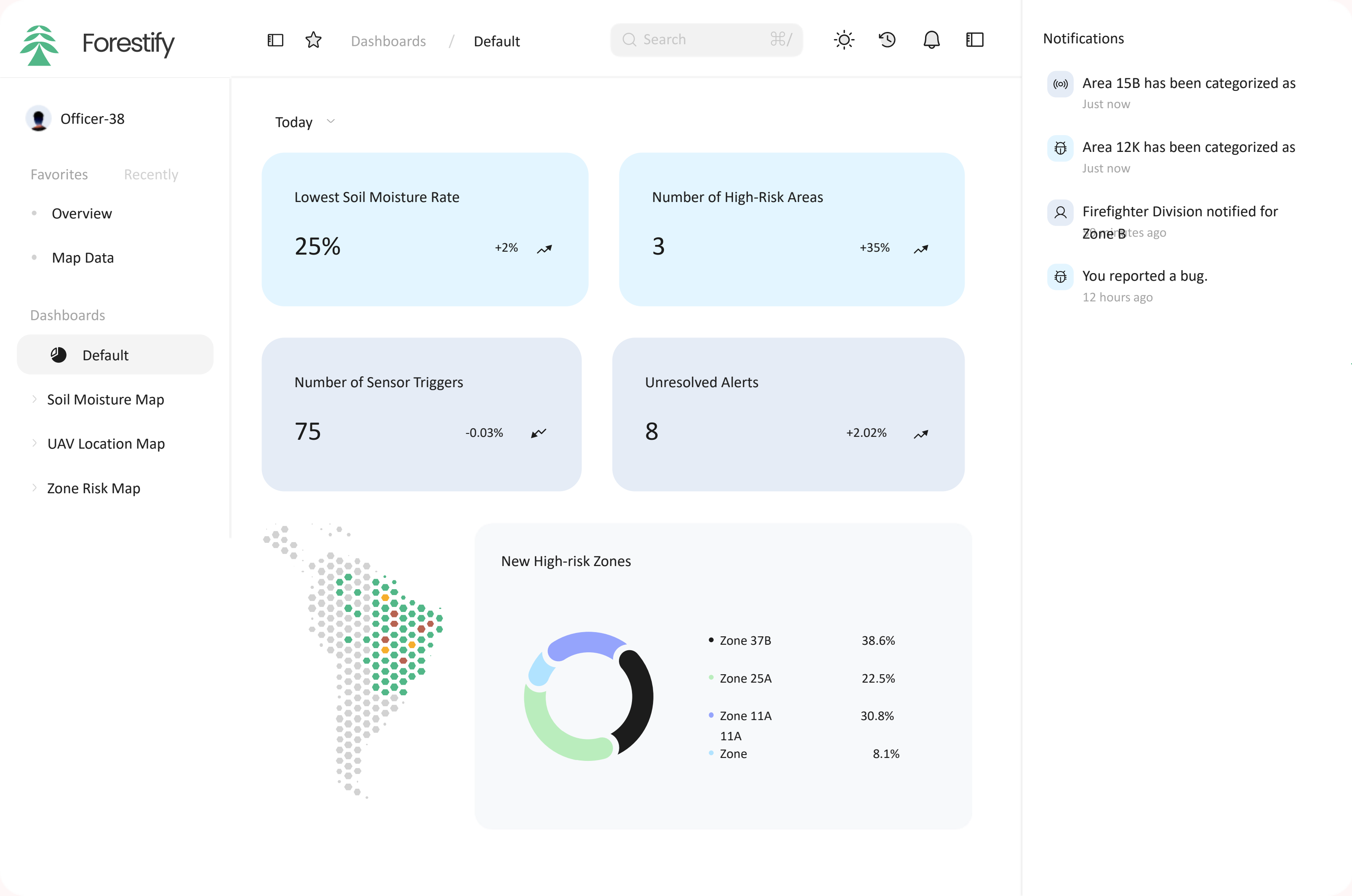
** A Balancing Act for Brazil's Amazonian States – report by WorldBank:

All-in one monitoring system for wildfire prevention

Future implications: not only crisis management, but also forest management tool for carrying out maintenance works in dried areas to prevent wildfires.



Dashboard of Wildfire Risk

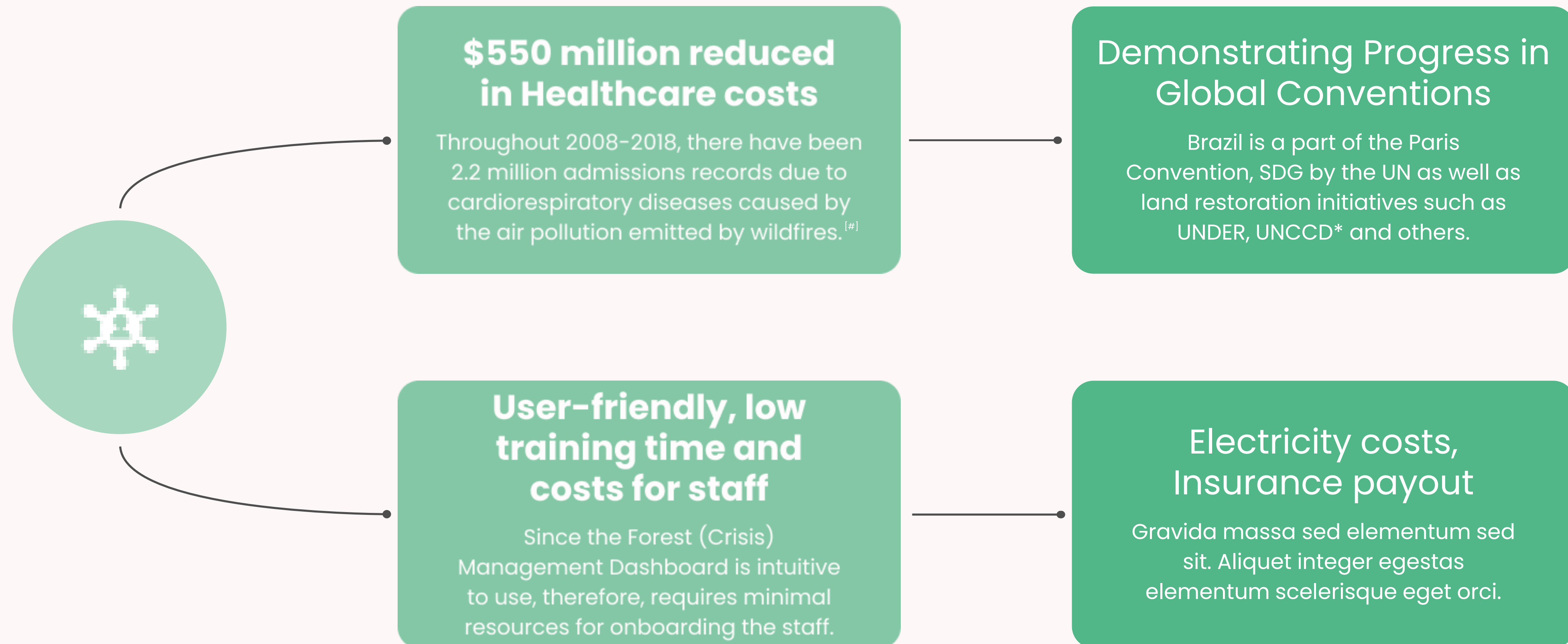


user-friendly

powered by
deep learning

interoperable

What's In It For You?



*Source: Goals and Commitments for the Restoration Decade - <https://www.mdpi.com/2071-1050/14/19/12270>

Cost breakdown of investing in forest management system

Investing

Cost Estimations associated with investing in a Forest Management Infrastructure:

- Sensor Installations across High-Wildfire-Risk areas: 1.000.000 sensors x \$25/sensor = \$25.000.000 sensor (best in cost effectivity) - variable cost*
- Drones, installation of sensors costs, development of the platform (\$45M) fixed cost - platform is scaleble



VS

Not Investing

According to the data estimations from the research paper "Wildfire-related PM2.5 and health economic loss of mortality", the research suggests over \$5.1B economic opportunity loss due to the damages associated with the wildfires.



*Source: Early Wildfire Detection Technologies in Practice—A Review, Ankita Mohapatra, Computer Engineering Program, California State University

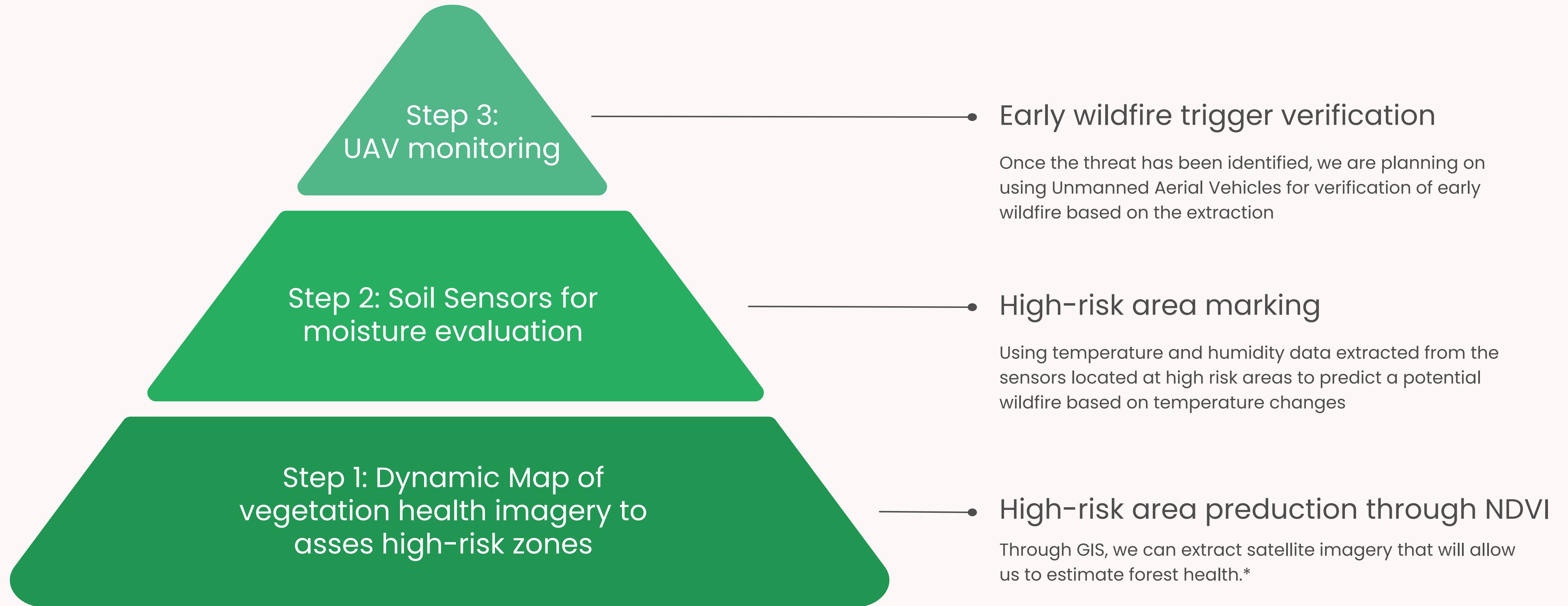


Ignite Change, not Flames

Scan to go to our Wildfire Impact Dashboard to learn more about how small changes can make a difference

linktr.ee/forestify

Appendix: Forecast, Verify, Act



*Source: Satellites Limitations in Early Wildfire Detection – <https://www.exci.ai/real-time-satellites-limitations/>