Lightning Talk

# Remote Sensing in Mexican Overwintering Sites

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Ambiomas Acciones y Respuestas Adaptativas





# Project carried out in 2023 and 2024 in collaboration with:



Interest in implementing new methods/technologies for the diagnosis and monitoring of the monarch butterfly overwintering forest

# Why drones?

Baseline for monitoring and early warning system Better understanding of the territory Detailed information at the local scale

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Google satélite

**b** Bing **Bing satélite** 

Dron (7 cm/pixel)

## Step-by-step methodology



# Two years of work: 2023 and 2024

**Two flights per year:** May and october (before and after the rainy season)

# Seven overwintering sites (65.86 hectares in total):

- El Rosario
- Sierra Chincua
- C.I. Carpinteros
- Nicolás Romero
- La Mesa
- Piedra Herrada
- Jiquipilco

### **Overall project results**

### High-resolution RGB image

### Multispectral/NDVI image



### Obtaining NDVI values at the tree level







Months