**Canopy Maturation**

The 3D video sequence illustrates the canopy maturation process across the same AOI, revealing vertical vegetation development over four years (2022–2025). By leveraging temporal LIDAR point clouds, the visualization highlights how existing vegetation has evolved not just spatially but structurally through significant height gain. There is a significant change in height visualized by the colour pallete. Warmer colors (yellow to red) indicate maturing tree canopies (increase in vegetation height) , while cooler tones (blue/green) represent low vegetation or undergrowth. This gradual transformation reflects healthy ecological growth