



Application for Membership in the International Asteroid Warning Network (IAWN)

15 of february 2025

Dear IAWN Steering Committee,

We express our interest in joining IAWN and contributing to its global efforts in near-Earth object (NEO) detection, tracking, and characterization.

Light Bridges operates and manages advanced optical telescopes at the Teide International Observatory in Tenerife, Spain. Our facilities include the **Two-meter Twin Telescope (TTT)**, comprising a 2-meter and 2×80 cm Ritchey-Chrétien robotic telescopes, equipped with high-precision tracking, rapid slewing capabilities, and sCMOS and CCD instrumentation for astrometric and photometric observations. The telescopes are registered with **Minor Planet Center (MPC) codes Y65, Y66, and Y68**.

The telescopes we manage are described at ttt.iac.es and provide:

- **Wide-field coverage and rapid response** to follow up on newly discovered NEOs and imminent impactors.
- **High-sensitivity photometric and astrometric tracking**, leveraging excellent seeing conditions ($\sim 0.7''$) at Teide Observatory of the Instituto de Astrofísica de Canarias.
- **Automated scheduling and AI-based observation planning**, maximizing efficiency for NEO monitoring and characterization.

We support the principles and operational framework of IAWN and are committed to the open and timely sharing of our observational data. Our scientific team, led by **Dr. Miquel Serra-Ricart (Chief Scientist Officer)** with the support of **Dr. Antonio Maudes (CEO)**, is eager to collaborate with IAWN to strengthen global capabilities in planetary defense.

Sincerely,

Dr. Antonio Maudes
Co-founder and CEO
Light Bridges S.L.

