



# BIOVITAE®

S T R E E T

## FOR CLEANER AIR

**Biovitae Street is an innovative outdoor lighting system installed on public light poles that reduces pollutants in the air.**

It **reduces air pollution** through a photocatalysis reaction that exploits the combination of the **Biovitae** lighting system and **Titanium Dioxide Rutile** (TiO<sub>2</sub> rutile). The device reduces pollutants in the air both during the day, using sunlight, and at night thanks to the LED light frequencies of the Biovitae strip integrated in the device.

**The BIOVITAE + TiO<sub>2</sub> system transforms microorganisms responsible for internal and external pollution rendering them harmless.**

Experiments have shown that 1,000 square meters of photo-catalyzed surface is able to treat 480,000m<sup>3</sup> of air in about 24h.

A **Biovitae Street** stand with 100 flanges of size 20x20 develops a total active area of 8sqm on both sides and therefore can treat 3,840m<sup>3</sup> of air every day (24h).

10 street lamps with 2 **Biovitae Street** units (the number of supports may vary according to need) can treat about 76,800 m<sup>3</sup> of air, which corresponds to a football field of 10 meters in height.

