

In 2018, InfiniteVision Optics launched the AVIA project:

**Vision Enhancement after cataract surgery using a genetically programmed Artificial Intelligence to calculate the optical adjustment of the PreciSight® intraocular implant.**

This project is supported by the European Union and the region Grand Est at a level of € 67,000 and € 44,000 respectively.

The objective is to improve the vision of the patients with cataracts by improving the computational accuracy of the optics of the exchange lens of the PreciSight® intraocular implant. The strategy chosen to achieve this goal is to move from a calculation method using a ray tracing derived multivariate regression formula to a computational method taking advantage of an evolutive artificial intelligence system.

To this end, IVO collaborates with the CSTB team of the ICUBE laboratory of the UNISTRA, specialist in the field of genetically programmed artificial intelligence.