

33rd IAA SYMPOSIUM ON SPACE AND SOCIETY (E5)
Interactive Presentations - 33rd IAA SYMPOSIUM ON SPACE AND SOCIETY (IP)

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KOSMOS 2.0, AN UPGRADED AND CUTTING-EDGE VERSION
OF THE ARTISTIC & SCIENTIFIC MONUMENTAL INSTALLATION KOSMOS

Abstract

You live here, but you've never really take a grand tour of your property: "KOSMOS" is Space for All!

In Reunion Island, KOSMOS is an artistic **model of the Solar System** in exact scale both size and distance, which includes the Sun and thirteen planets and dwarf planets. All are represented with little spheres made of colored glass. Each of them is positioned into a classy glass stele, located into public places of interest (as Museum, Park, Airport,...). The installation was inaugurated in 2016, visited and acclaimed by many families.

The Sun, with a diameter of 2,5m, is the center of the installation, and the thirteen planets and dwarf planets revolving around it spread over 50km distance. Mercure with a diameter of 8mm, is at 100 meters from the Sun, and dwarf planet Eris, with a diameter of 4mm, is at 26km from the Sun. Jupiter -diameter 25cm- is 1,4km away from the Sun.

Please visit <<https://www.xavierdaniel.fr/kosmos>>

The Earth, our own little balanced ecosystem-planet, 270 meters from the Sun has a diameter of 2cm. So, KOSMOS enables a paradigm shift and intuitively shares scientific knowledge and awareness with all audiences. The scope of interaction of today's mankind with its environment is the entire solar system. Observing KOSMOS makes people wonder about their own place on this planet, our common home.

KOSMOS 2.0 aims to implement an upgraded version of the first KOSMOS model. Using a combination of three new technologies that will be presented during IAC session, this innovative educational medium will help people understand and be attracted to the human space adventure through solar system. **This new artistic shape would be a world premiere:**

Would you be interested by travelling through solar system?

- Be a god: feel the Sun at your fingertips
- Be a photon: evaluate physically the light speed
- Be halfway between as scientist: experiment space missions with Augmented Reality

KOSMOS 2.0 could be a great educational support for schools/students but also for specific space events. One can imagine cultural mediators who explain observations in real time, animate the event, or prepare pre-recorded voice-over for a kind of "Celestial Mechanics for Dummies".

Presenting KOSMOS at the IAC could help to find partnership, support and funds to perform this project. It is about bringing together advanced technics that already exist as a future form of audiovisual production for educational programs, and for all.