

# Space-S1 ADN, ADN VR

NEANIAS Open Event

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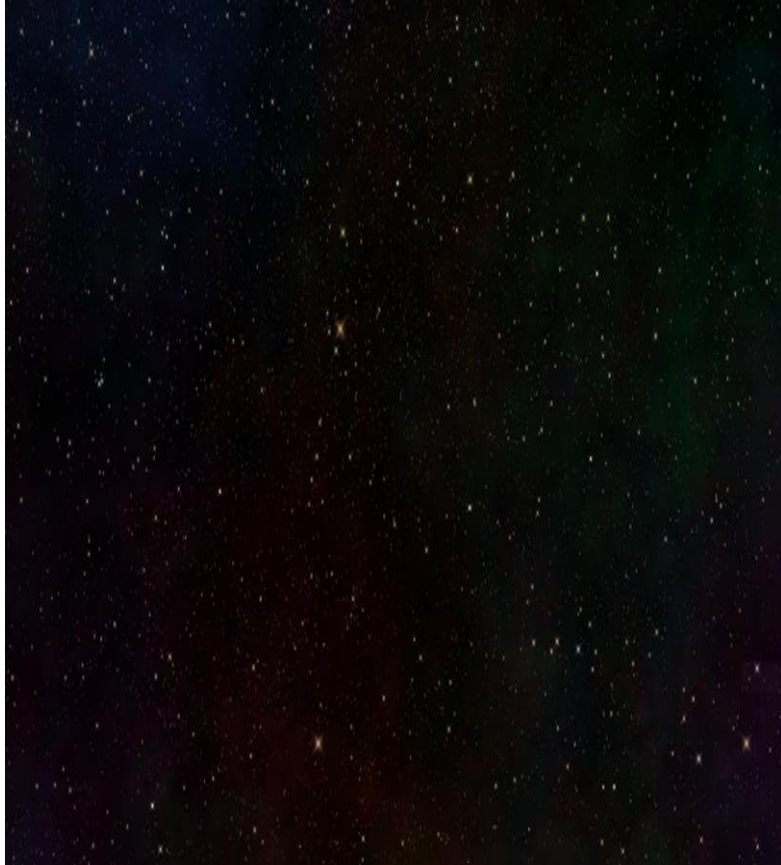
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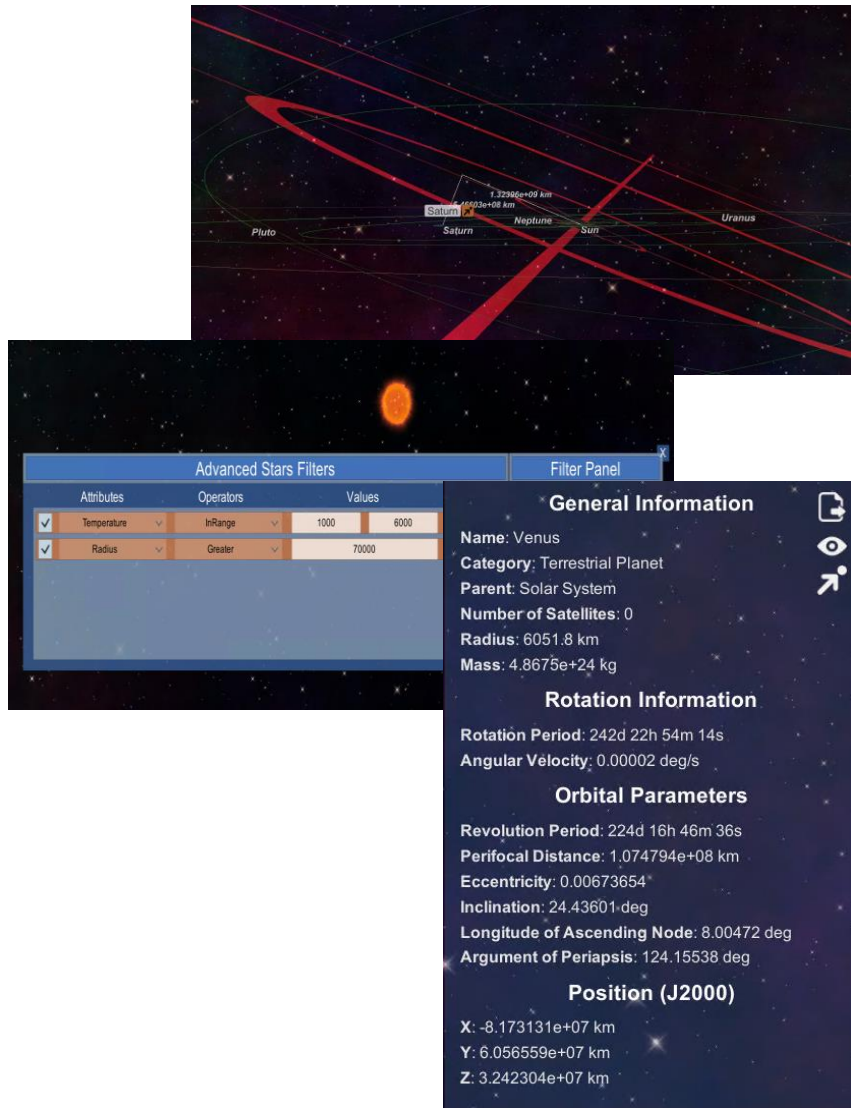
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# ADN and ADN VR– Astra Data Navigator

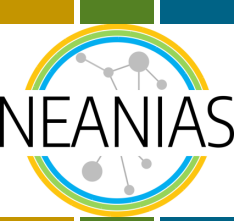


- The AND (AND VR) service aims to recreate data from various star catalogs in a 3D virtual environment, in the most accurate and realistic way possible.
- ADN (AND VR) allows the loading of catalogs containing data relating to celestial objects (such as planets, satellites or asteroids), and provides a correct time simulation thanks to the use of SPICE Kernels.

# ADN – Main features



- Create a virtual environment able to navigate from stars catalogues counting over 1.8 billion stars (GAIA).
- Procedurally generate stars based on the real parameters retrieved from the catalogues.
- Real representation in terms of space time through the use of Spice Kernels.
- Search and filters of catalog objects.
- Provides information in user-friendly way.



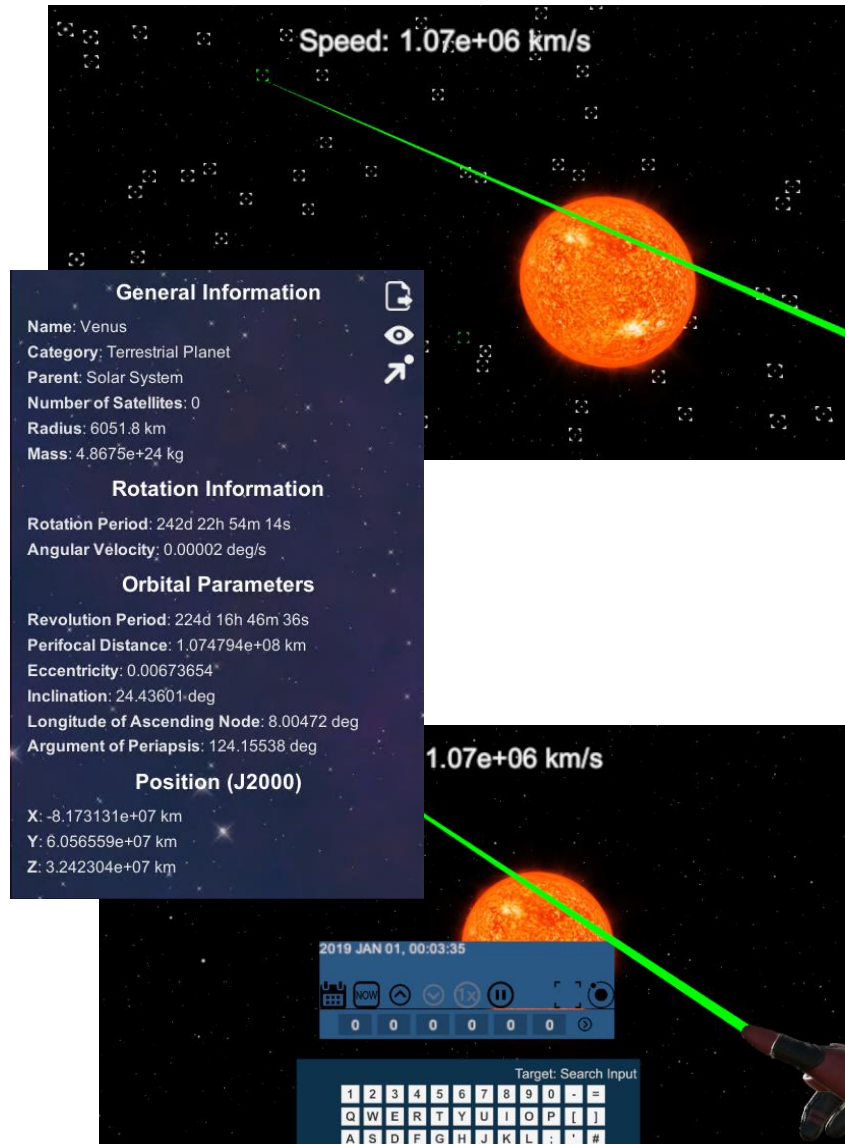
# ADN DEMO

# ADN VR

- Is build with the collaboration of the University of Portsmouth.
- ADN VR uses the ADN software to create a viable port into Virtual Reality using a Head-Mounted Display.
- Aim is to create a more personal and engaging space exploration experience. Allowing users to navigate within the 3D virtual space environment.



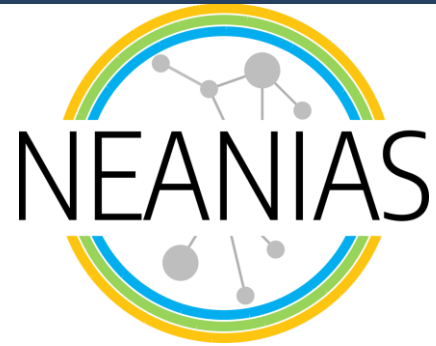
# ADN VR– Main features



- Navigate – allows users to navigate the data in real time and observe different celestial objects
- Search – allows users to search for different celestial objects
- Warp – enables users to quickly travel between celestial objects
- Voice recognition – allows the user to toggle between the different functionalities using voice commands
- Laser pointer – used for interaction with the different menus and celestial objects.



# ADN VR DEMO



Novel EO/SC Services for  
Emerging Atmosphere,  
Underwater & Space  
Challenges



NEANIAS receives funding from  
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# Thank you

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