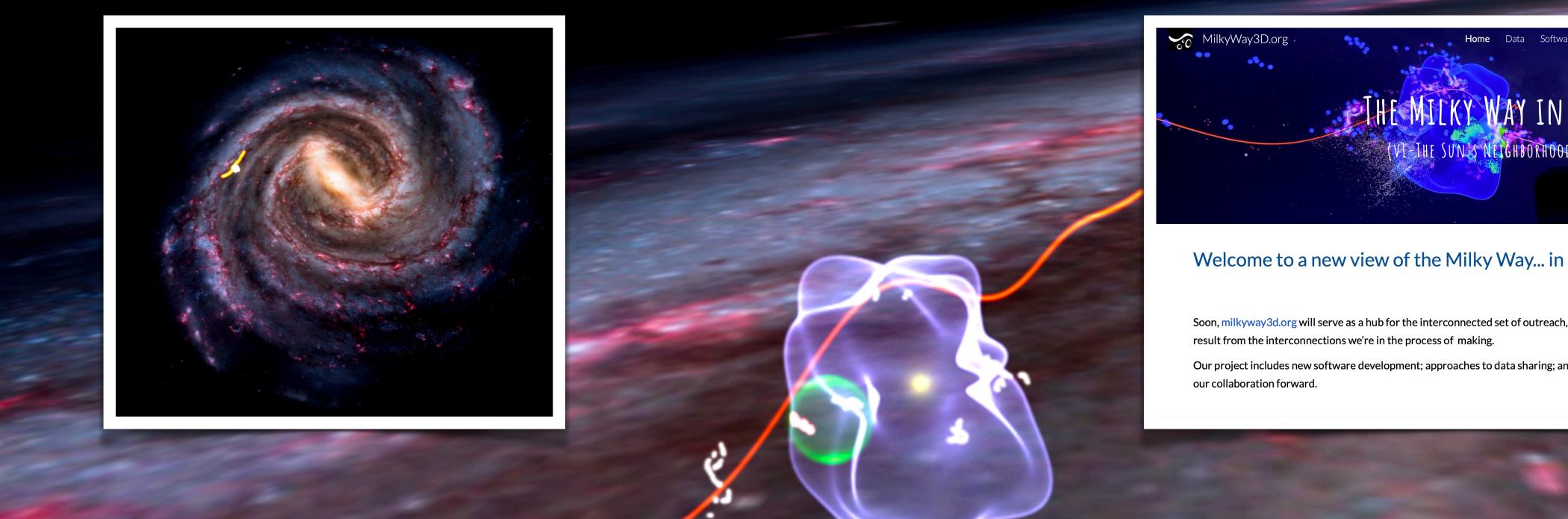
The Local Milky Way, in 3D — milkyway3d.org

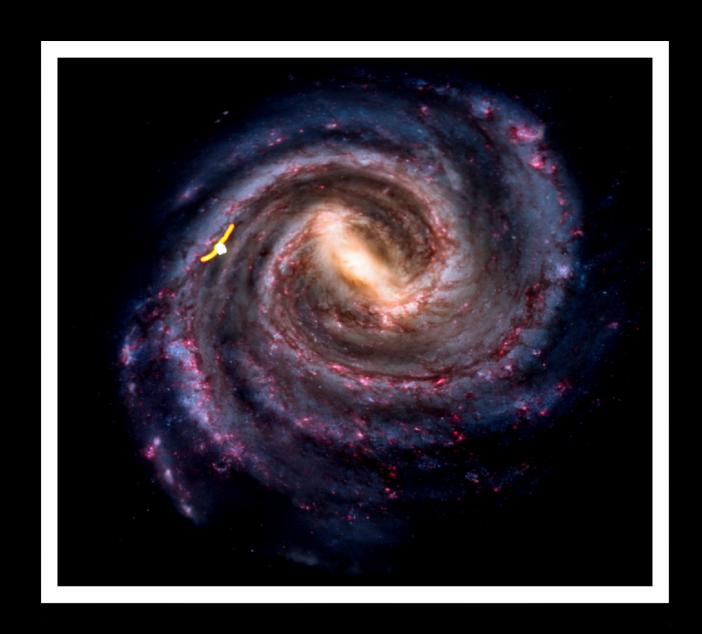




Soon, milkyway3d.org will serve as a hub for the interconnected set of outreach, education, and research resources that will

Our project includes new software development; approaches to data sharing; and scientific research questions propelling

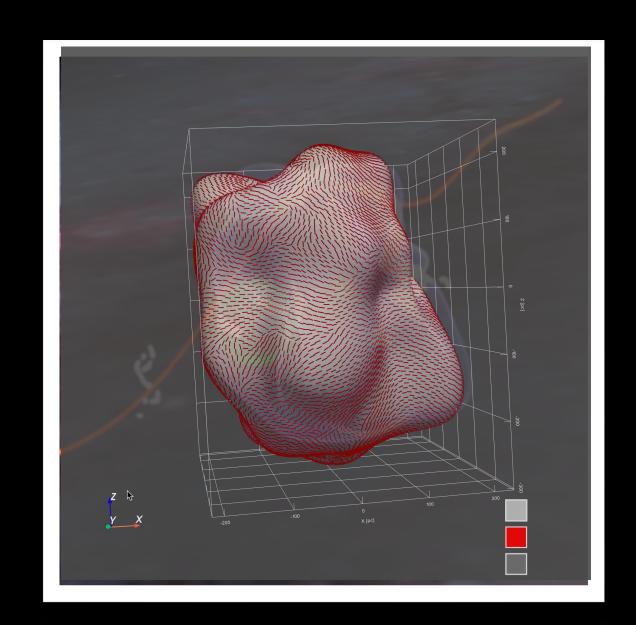
Alyssa A. Goodman Center for Astrophysics | Harvard & Smithsonian



milkyway3d.org would like your

DATA, INFORMATION

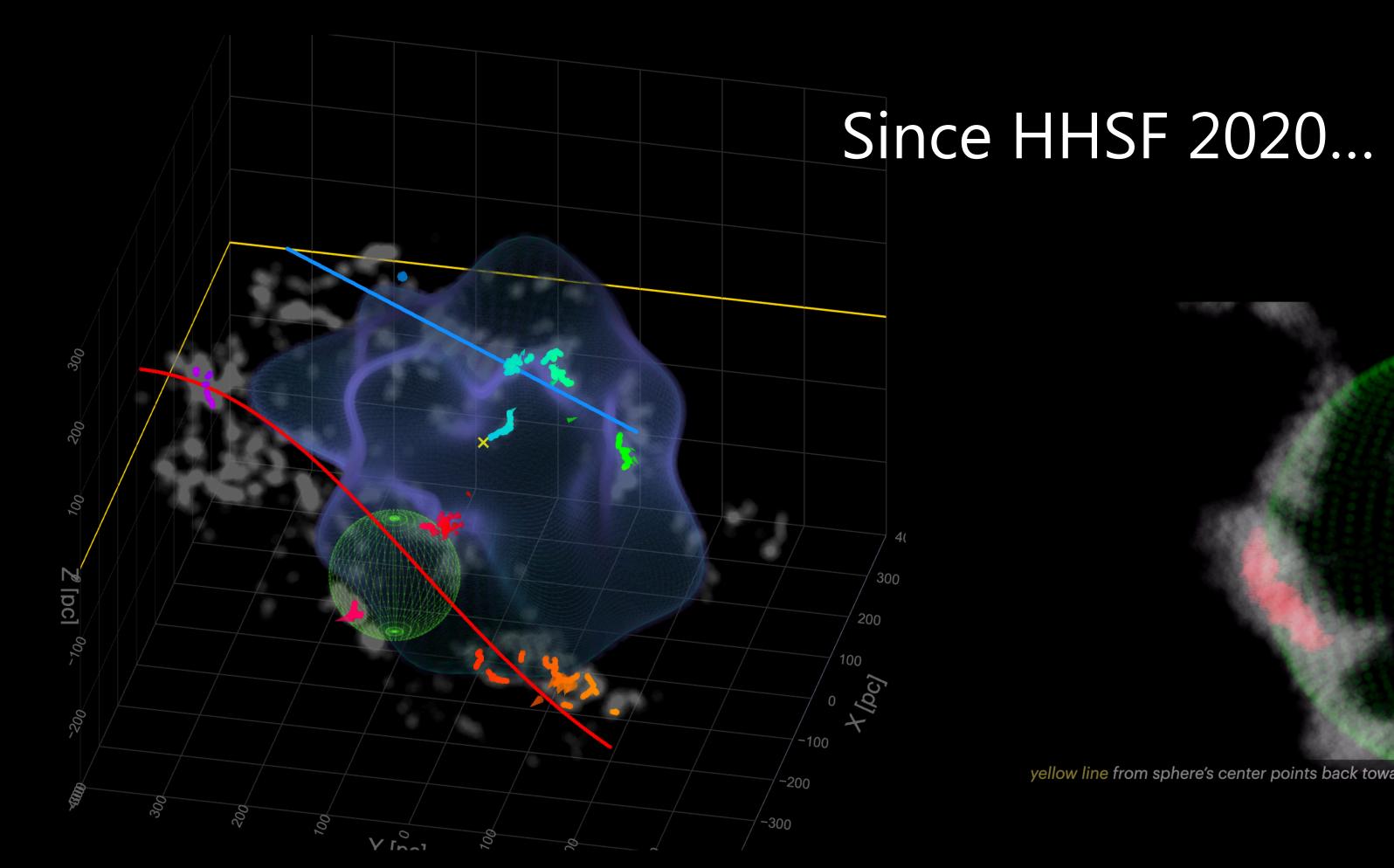
to see our neighborhood in 3D (and 2D, and more).

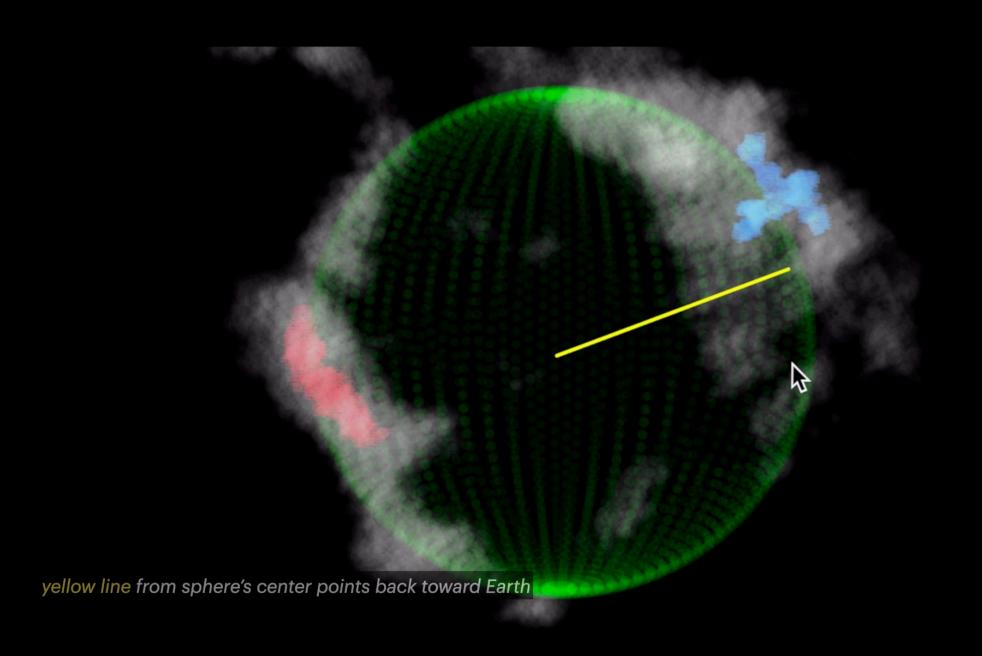


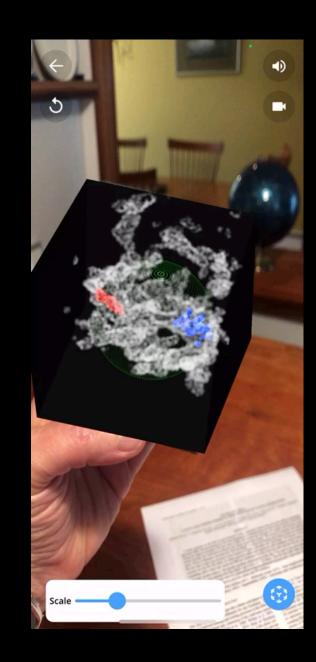
And we promise

VISUALIZATION

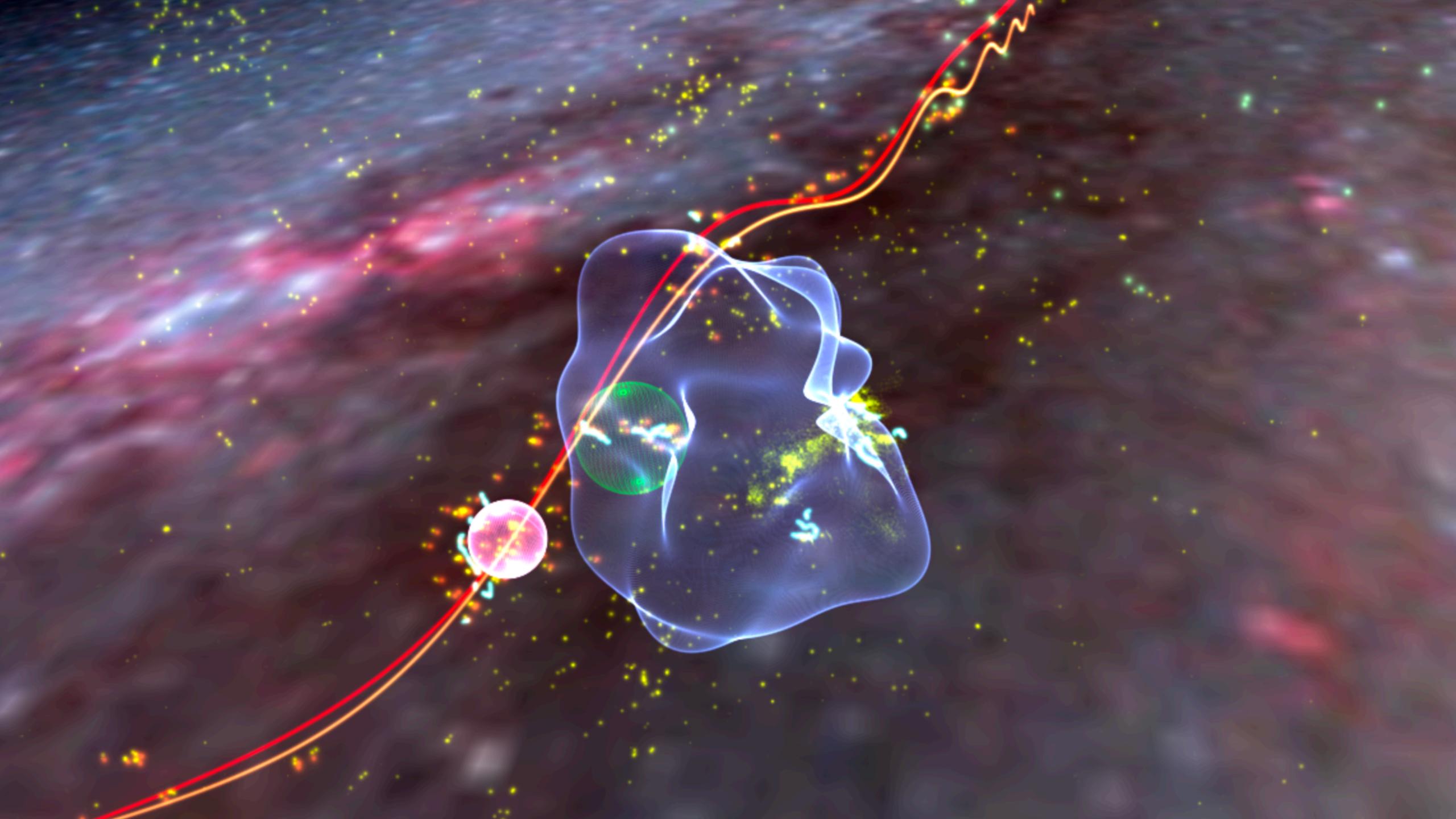
choices matter.



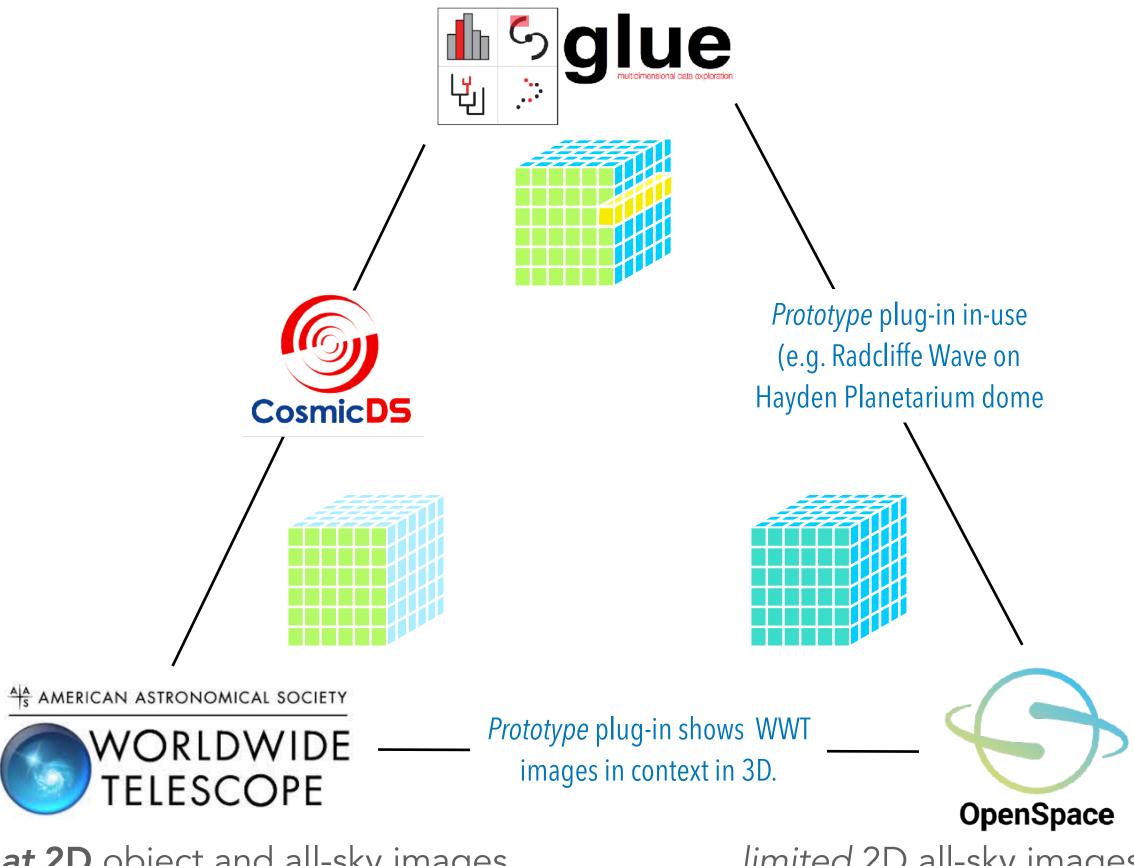




Zucker et al. 2022 Bialy et al. 2021

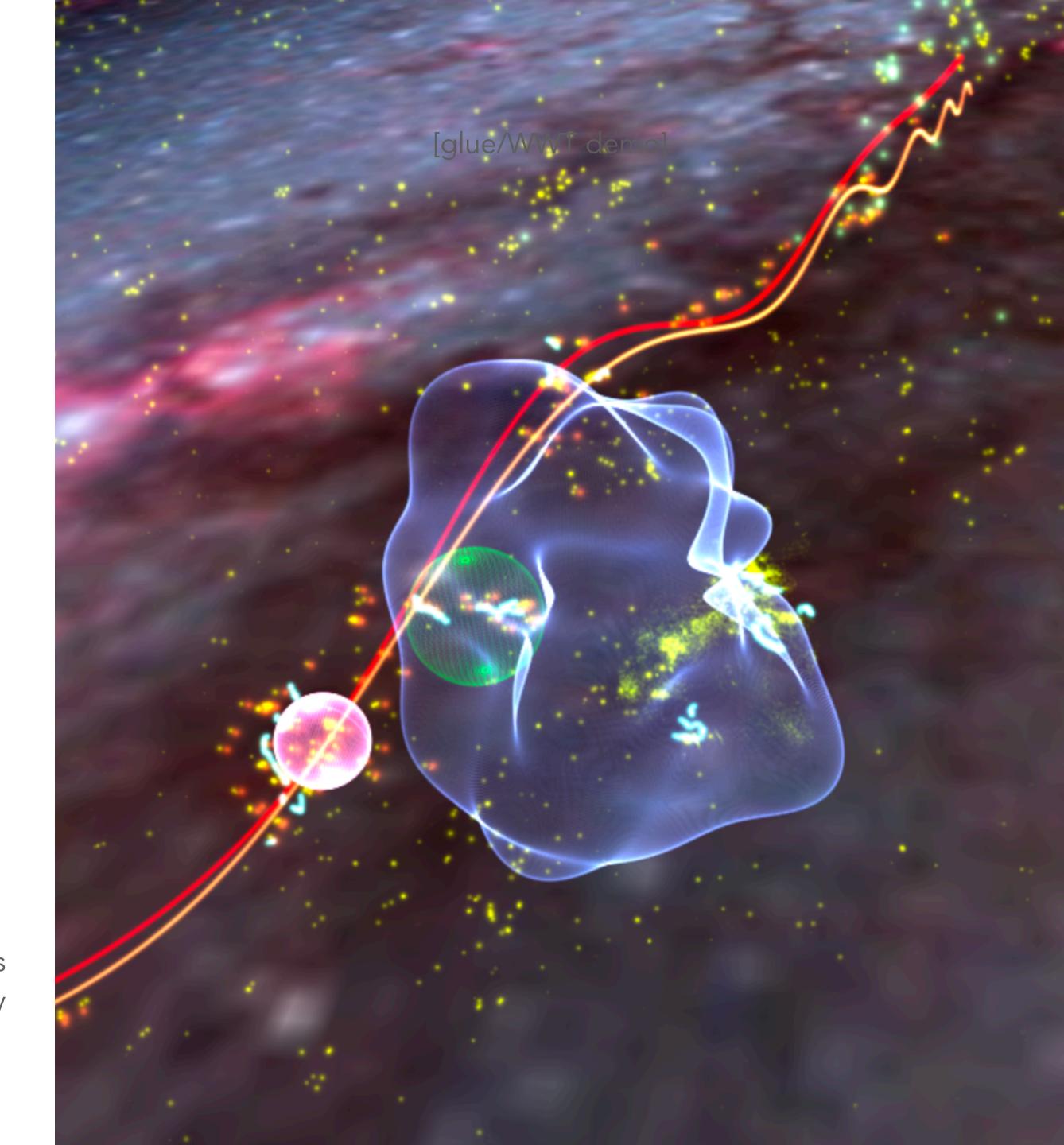


great 1D, 2D and 3D data manipulation, flexible architecture facilitating plug-ins, data transfer, and interactive data exploration; "glupyter" flavor runs in web pages

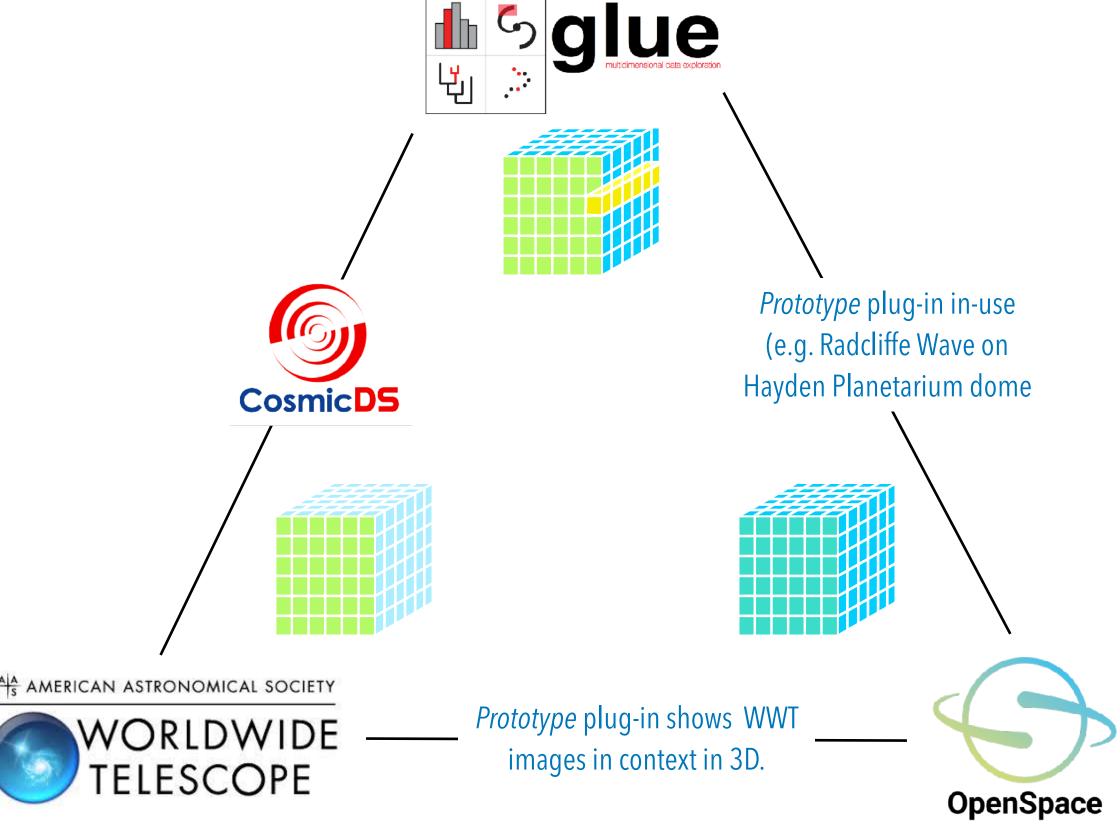


great 2D object and all-sky images
limited 3D functionality

limited 2D all-sky images great 3D functionality



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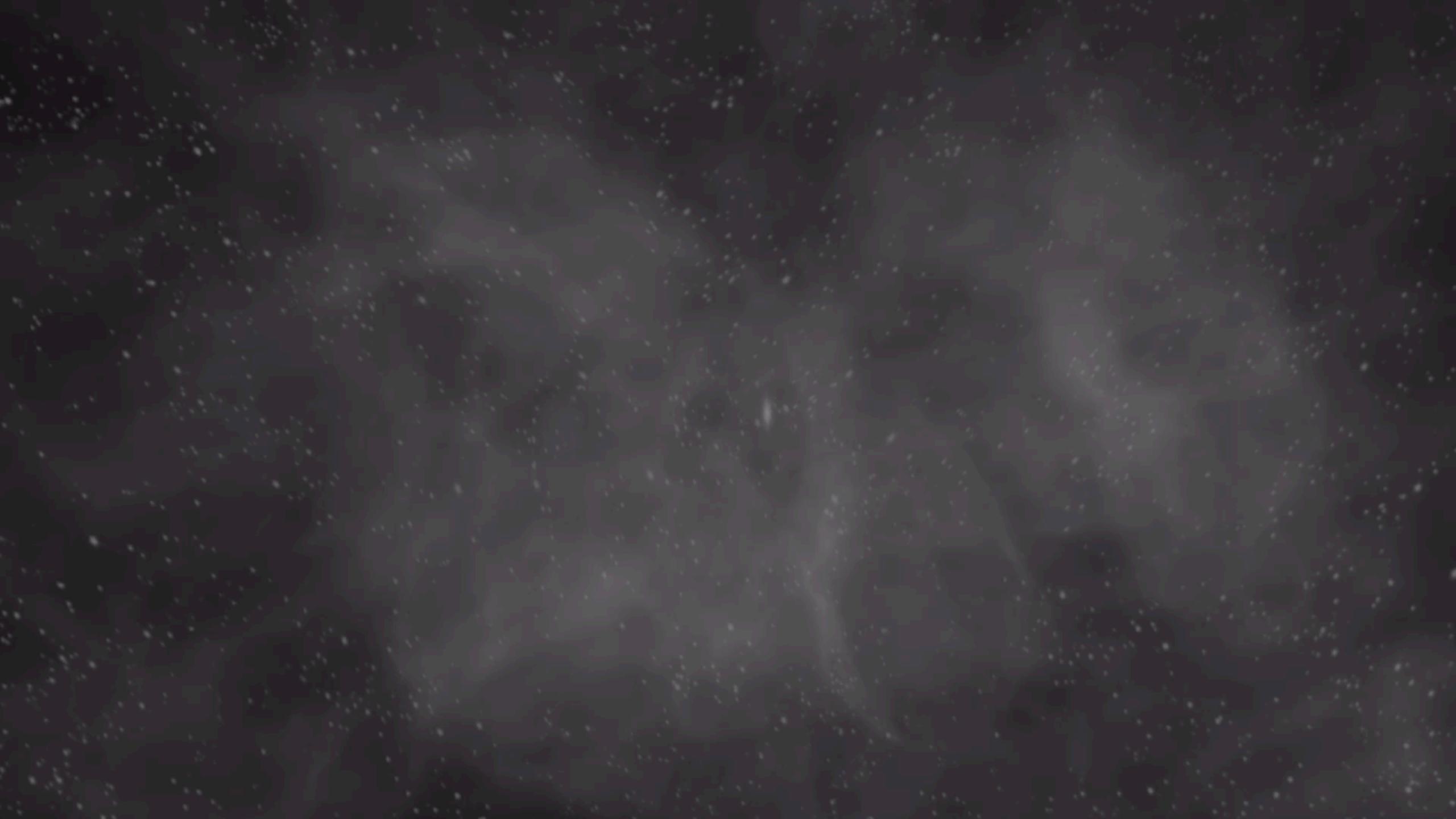
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limited 2D all-sky images great 3D functionality

The "Perseus-Taurus Superbubble" a demo of the need for 2D-3D contextualization functionality



This video was composited using the WWT and OpenSpace, making some use of prototype plug-ins, but 2D and 3D imagery was aligned manually by experts. As a generalizable STEM concept, it explains the deceptive "forced perspective" made possible in when objects at very different distances, in 3D, appear to touch in 2D.





Welcome to a new view of the Milky Way... in 3D!

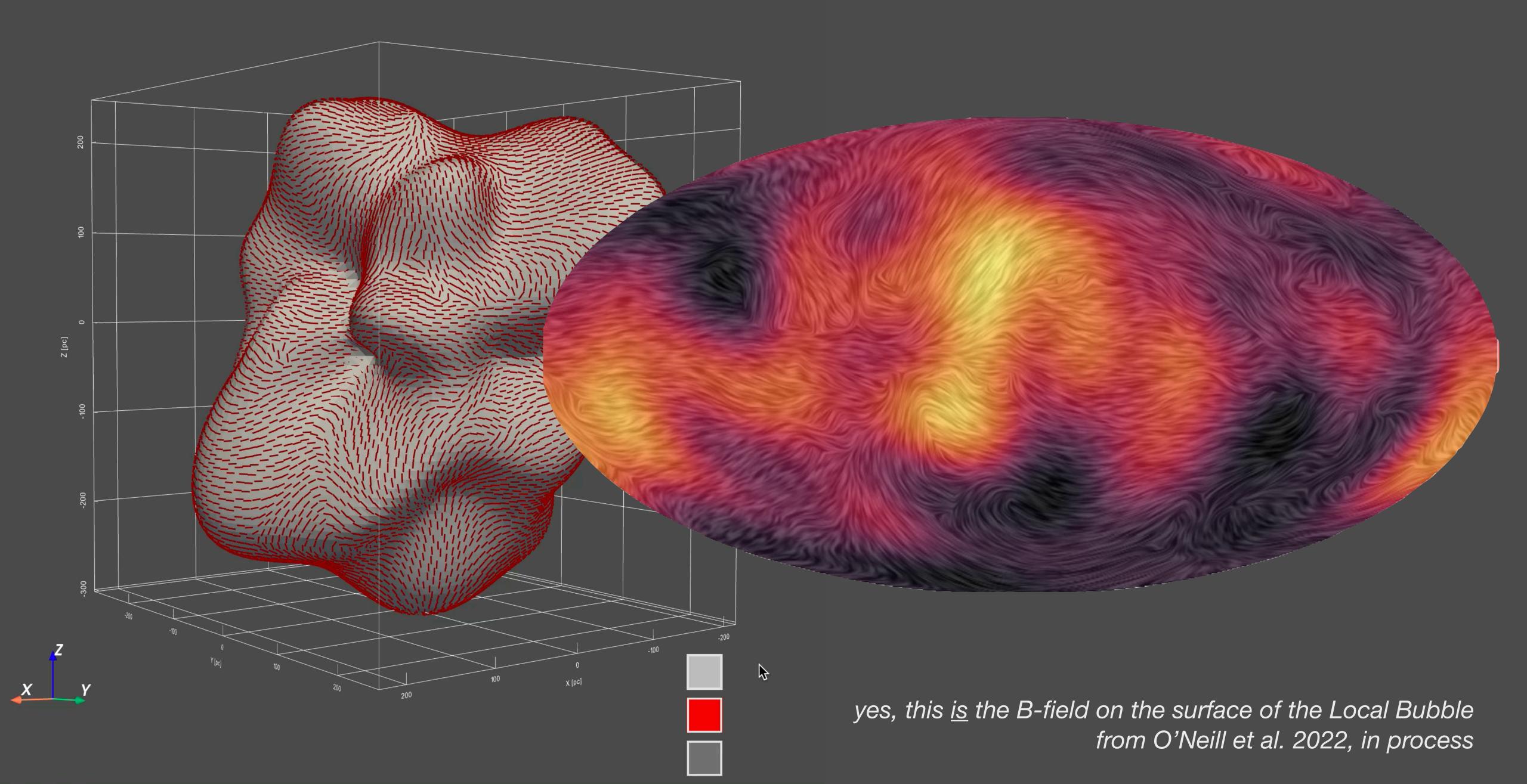
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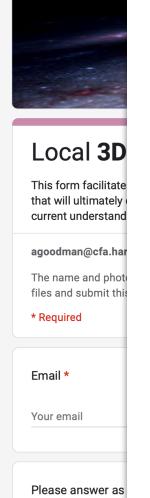


VISUALIZATION OPTIONS REVEAL DIFFERENT ASPECTS OF DATA, INFORMATION (19)









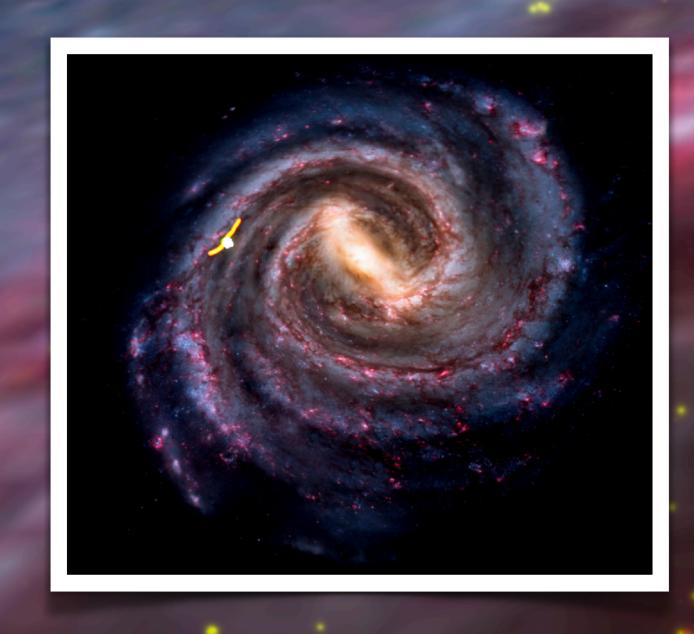
have access to the

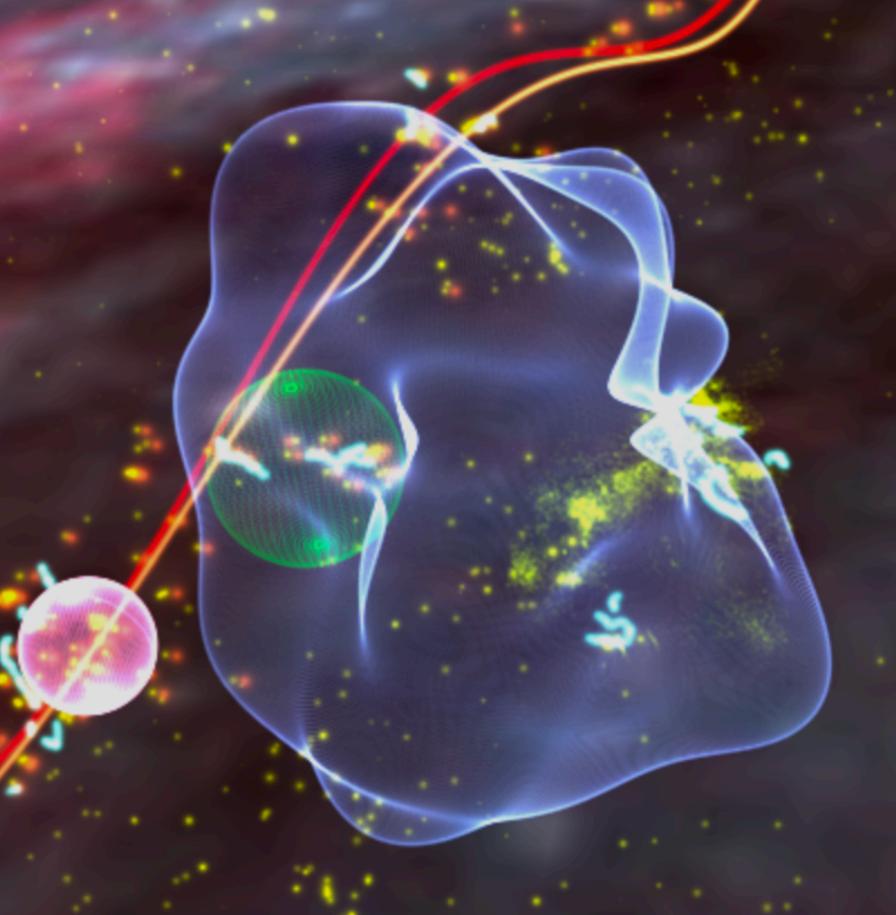
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