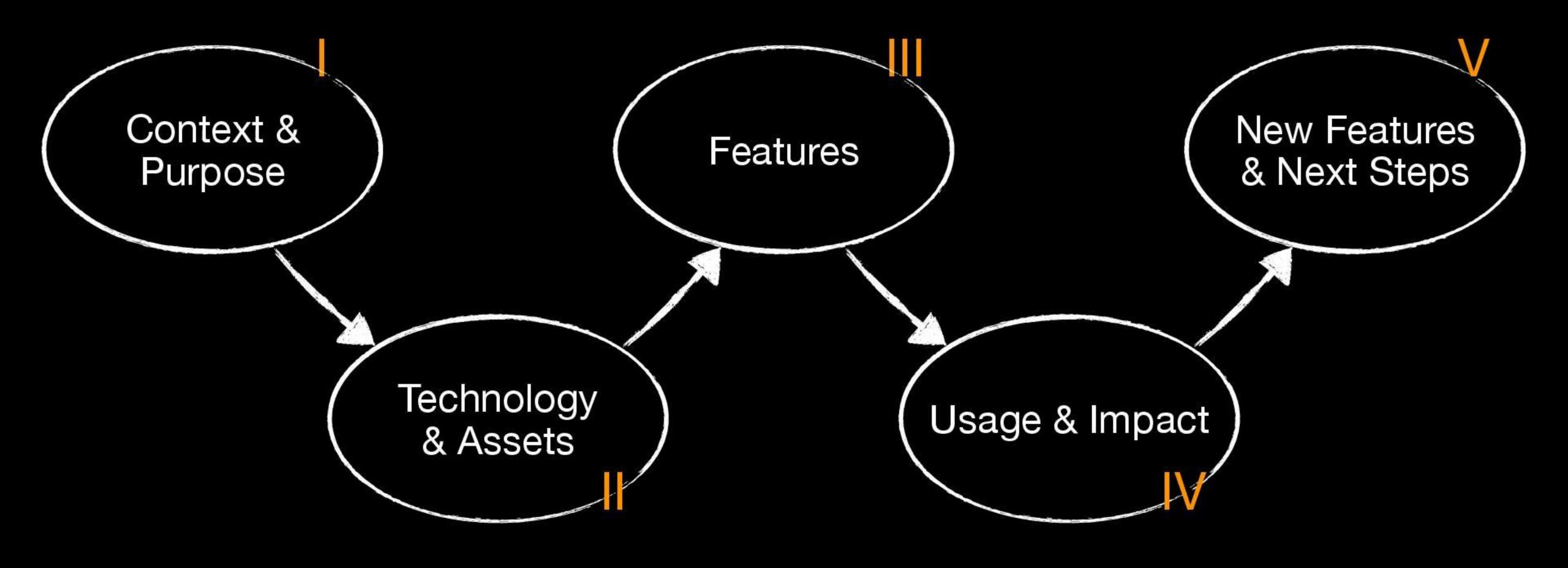


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Roadmap



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The story begins in 2017, the NASA Broadcast Team needed an asset to cut to so they could show the current location of the eclipse.







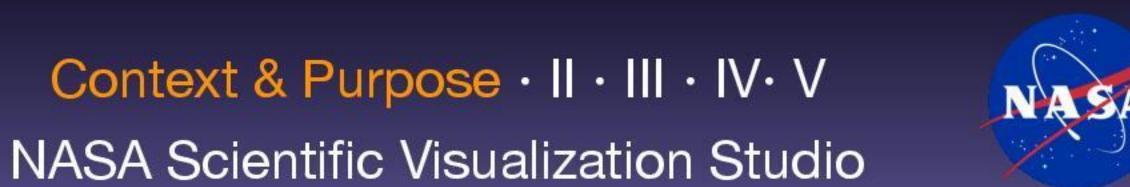




Then, in 2023, the SVS produced a popular static map and we received lots of requests for minor variations.



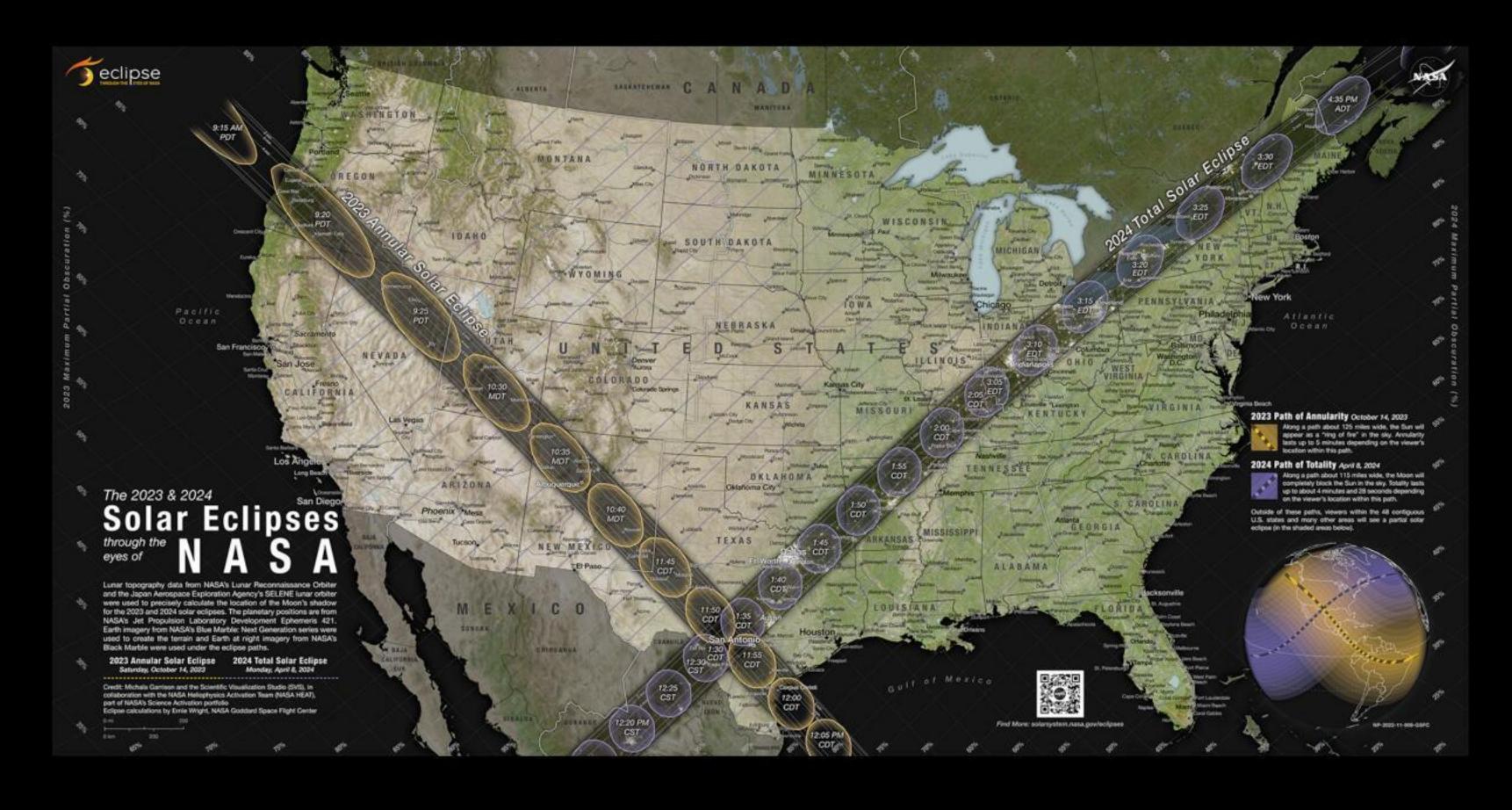








As the 2023 annular eclipse approached, we asked ourselves: could we accomplish two goals at once?











The basemap +



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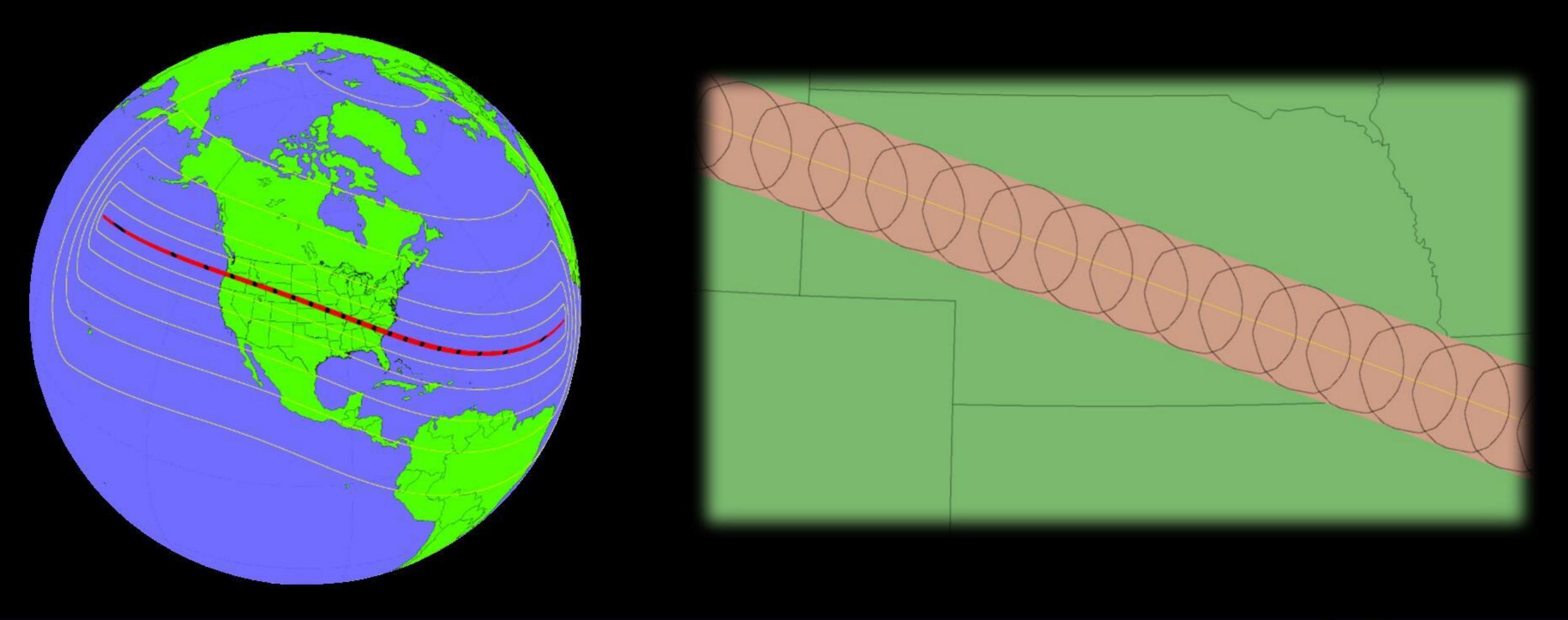
I · Technology & Assets · III · IV · V

NASA Scientific Visualization Studio





The basemap + data layers



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I · Technology & Assets · III · IV · V NASA Scientific Visualization Studio





The basemap + data layers + interactive web technologies

interaction with



mapping with



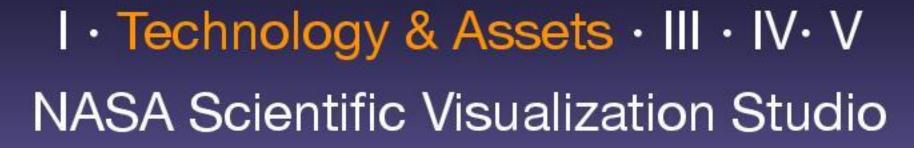




The basemap + data layers + interactive web technologies = a tool that empowers users and meets the needs of the NASA broadcast team











The Eclipse Explorer can: toggle different components of the map.



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The Eclipse Explorer can: display the position of the eclipse at different times.

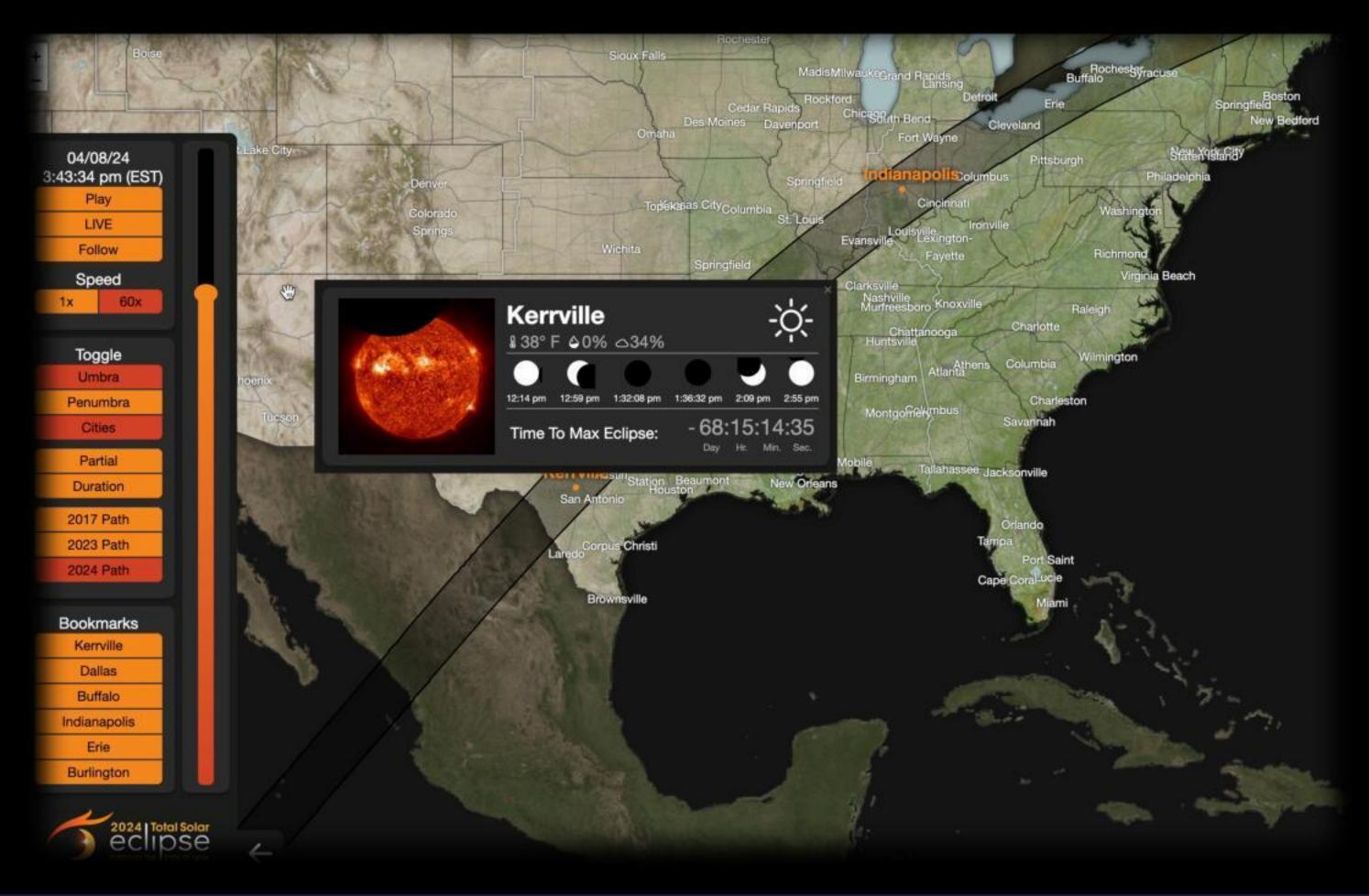


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The Eclipse Explorer can: simulate the view of the eclipse from major cities.



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The Eclipse Explorer can: jump to specific phases of the eclipse.

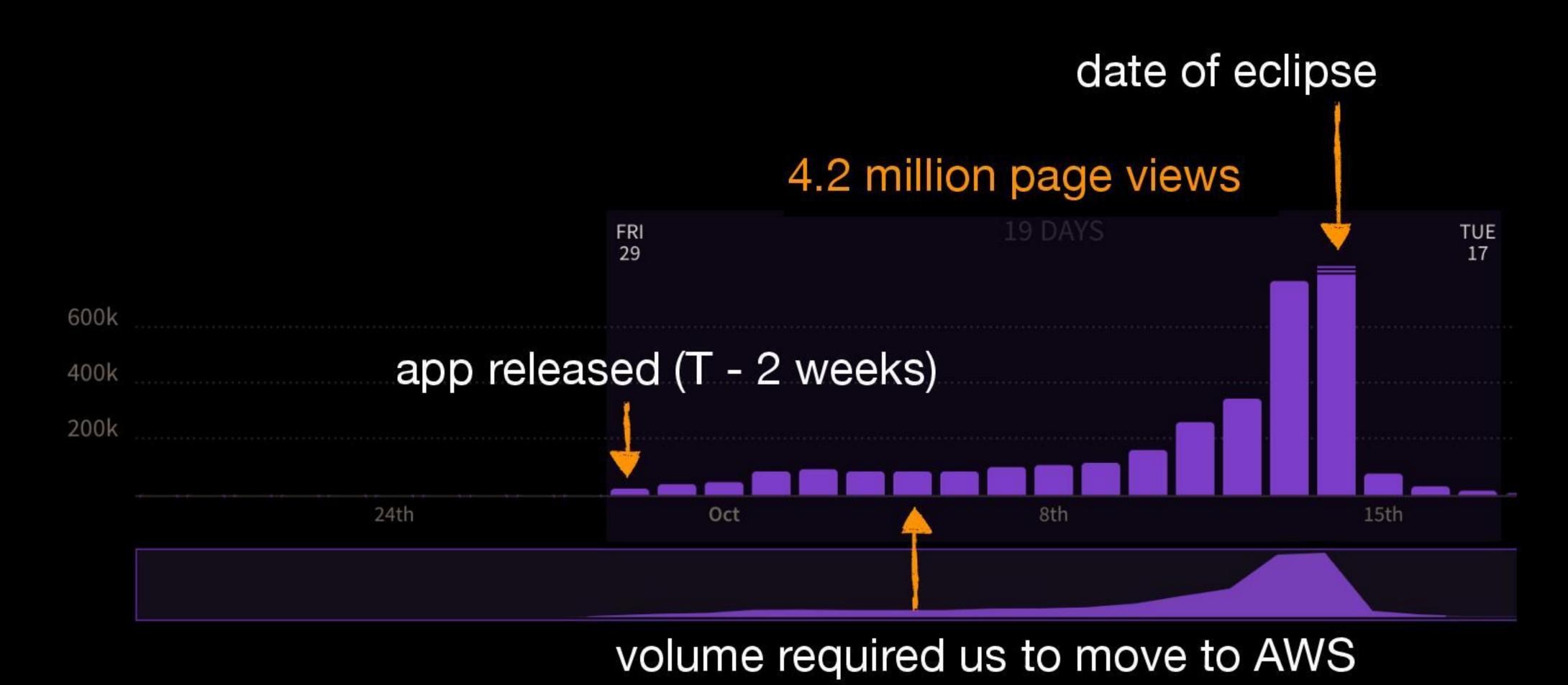


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Interest built up exponentially as we approached the date of the eclipse.



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I · II · III · Usage & Impact · V

NASA Scientific Visualization Studio





On the day of the eclipse, the app enabled talking points for the broadcast that otherwise wouldn't have been possible.



e.g. penumbral coverage at specific times





Preparing for the upcoming total solar eclipse on 04/08/24 and next steps for the long term future of the Eclipse Explorer.

- Allow users to generate detail cards based on:
 - zip code lookup
 - dropping a pin
- Add data for the 2017 eclipse (and other historical North American solar eclipses)
- Lunar eclipses (?)







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