DomeLab + EPICentre

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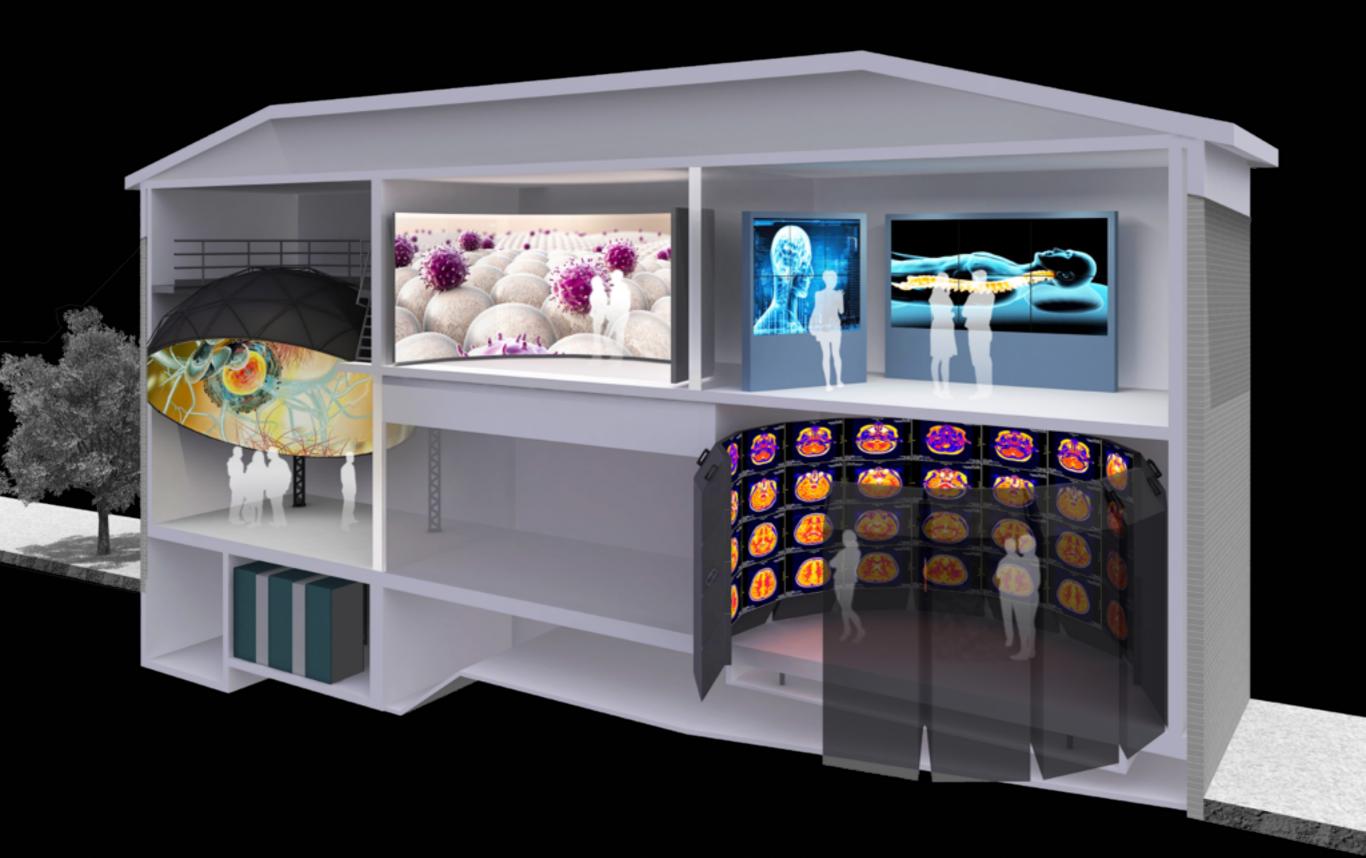
University of New South Wales

Introduction: DomeLab

- DomeLab: ARC Lief funded in 2015
- High resolution "True 4K" touring dome
- 6m diameter, negative pressure dome
- 8 x 2560x1600 pixel resolution projectors, stereoscopic 3D capable
- Single computer or cluster of 4 IGs + head node
- 5.1 sound system
- Camera based automated alignment system

Introduction: EPICentre

- Enhanced Perception and Interaction Centre
- UNSW initiative with a focus on visualisation for medical research
- Building is currently being renovated, expected handover in July
- Will contain a number of visual machines and research laboratories



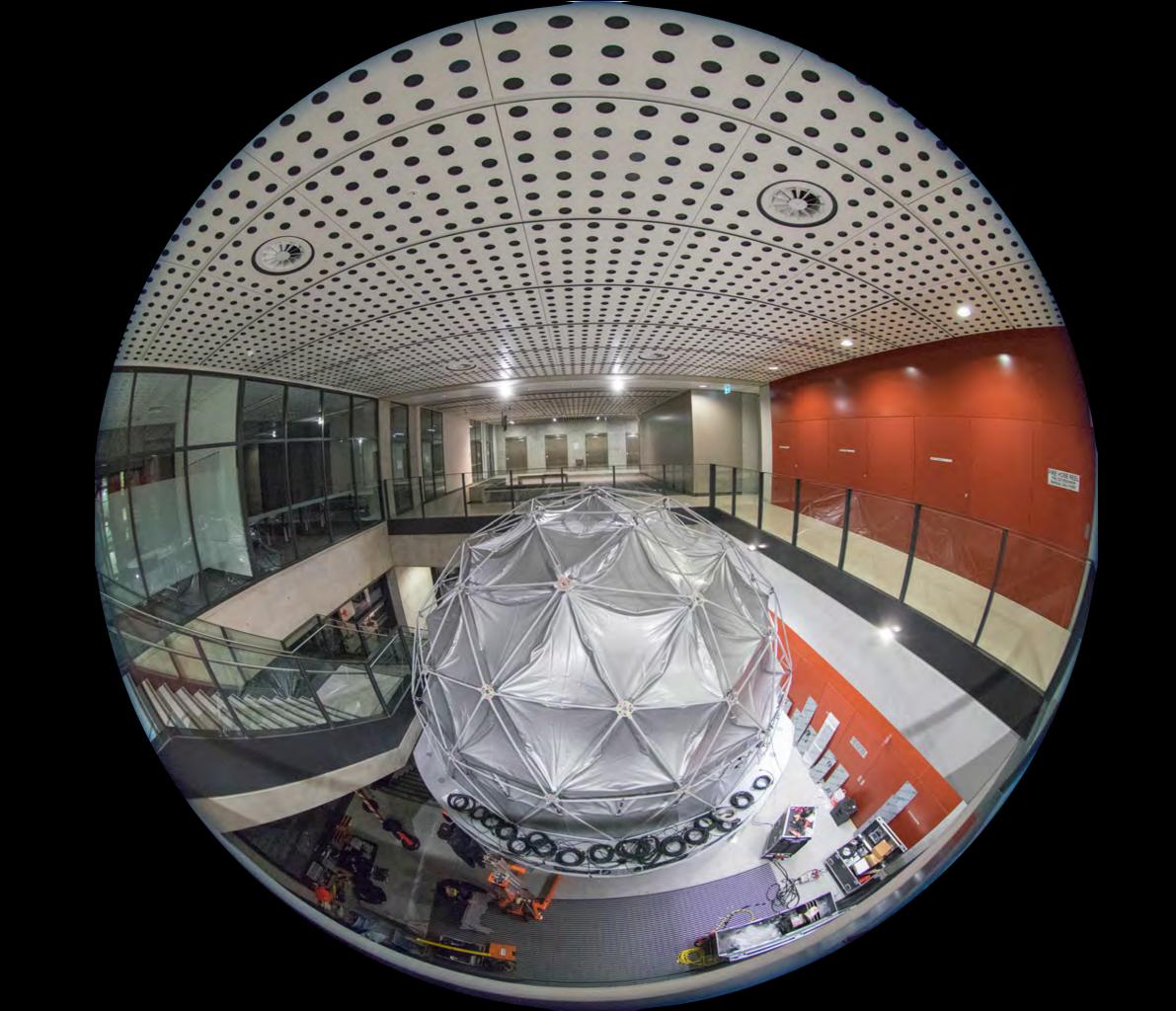
Cylinder

- Centrepiece infrastructure is the cylindrical display
- 56 panels (14 columns of 4 rows each), each HD resolution and stereoscopic 3D capable
- Total of I20MPixels in 3D, three times the resolution of the CAVE-2 (True MPixels, not projector MPixels)
 Addresses many of the other issues with the CAVE-2
- 32 channel audio system capable of creating high order ambisonic sound fields
- 12 camera tracking system for viewer and 3D interactive device tracking
- Driven from a cluster of 28 computers + head node

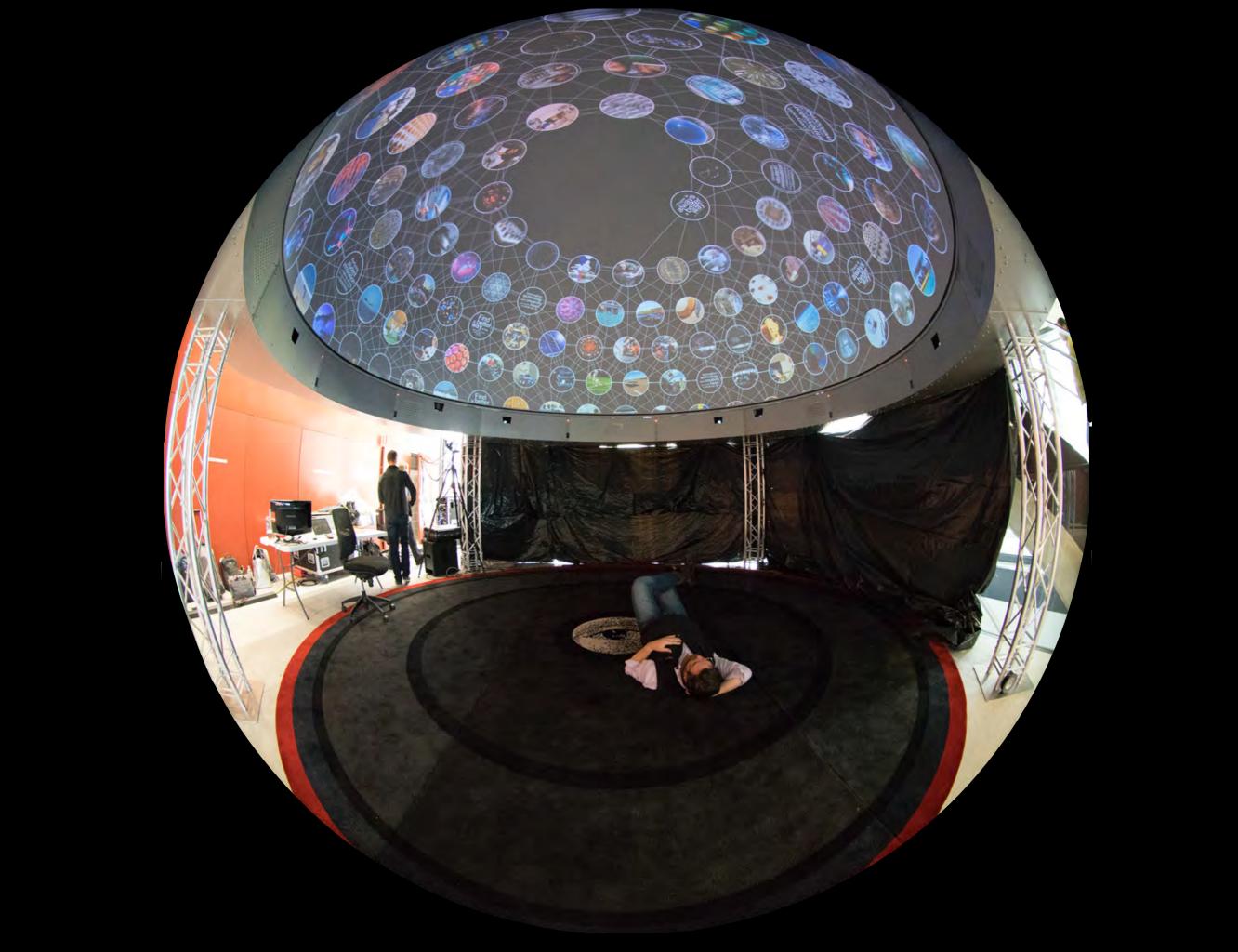
DomeLab: Michael Crouch Innovation Centre

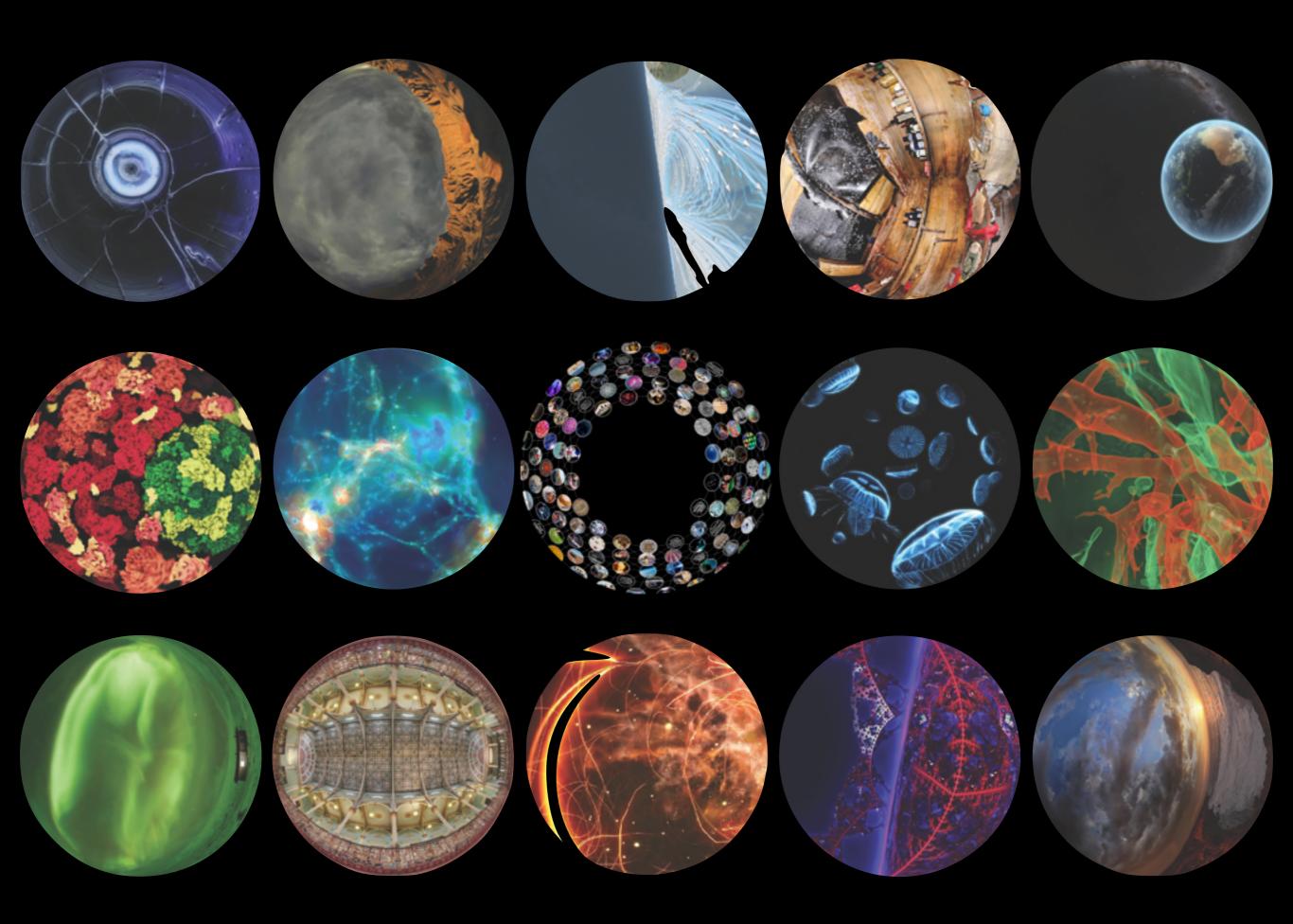














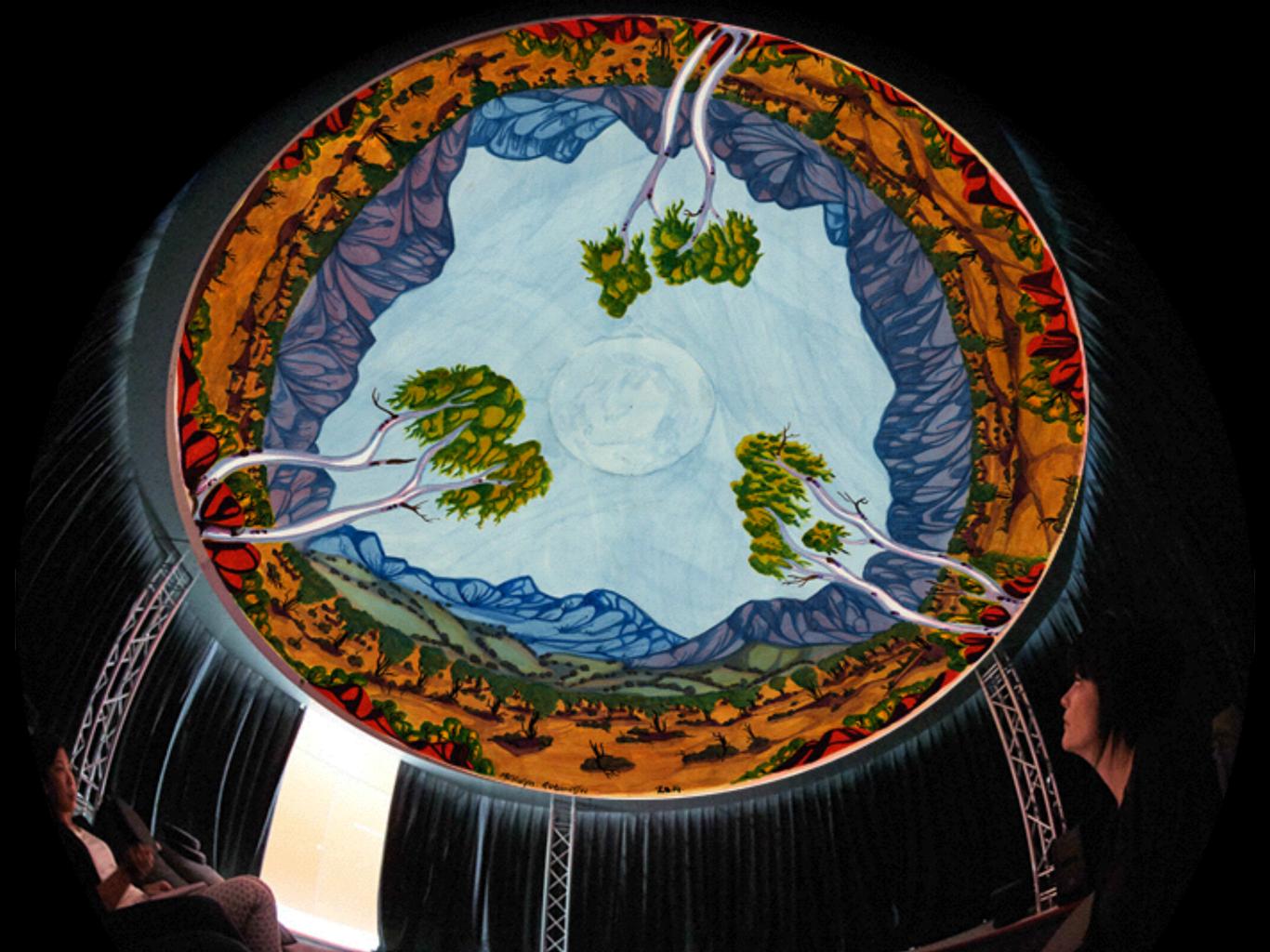


DomeLab: Indigenous paintings









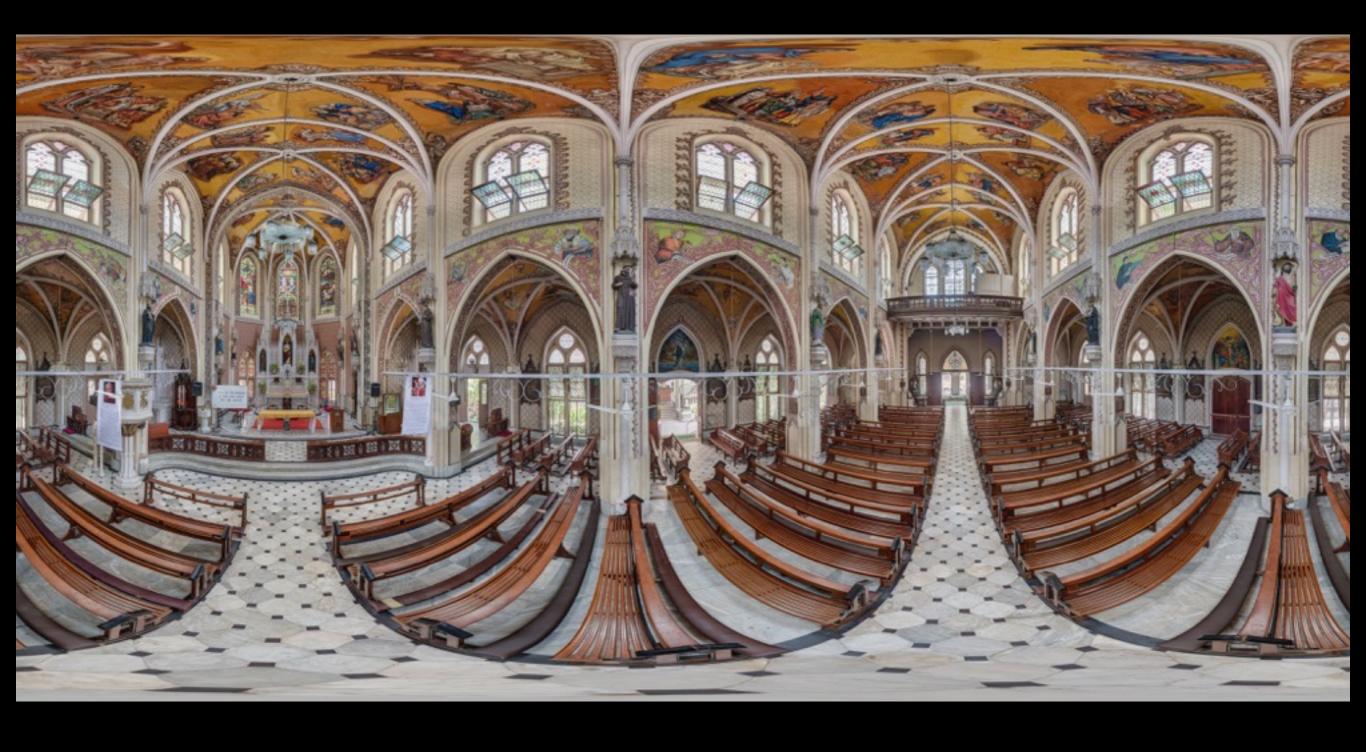




DomeLab : Look up Mumbai

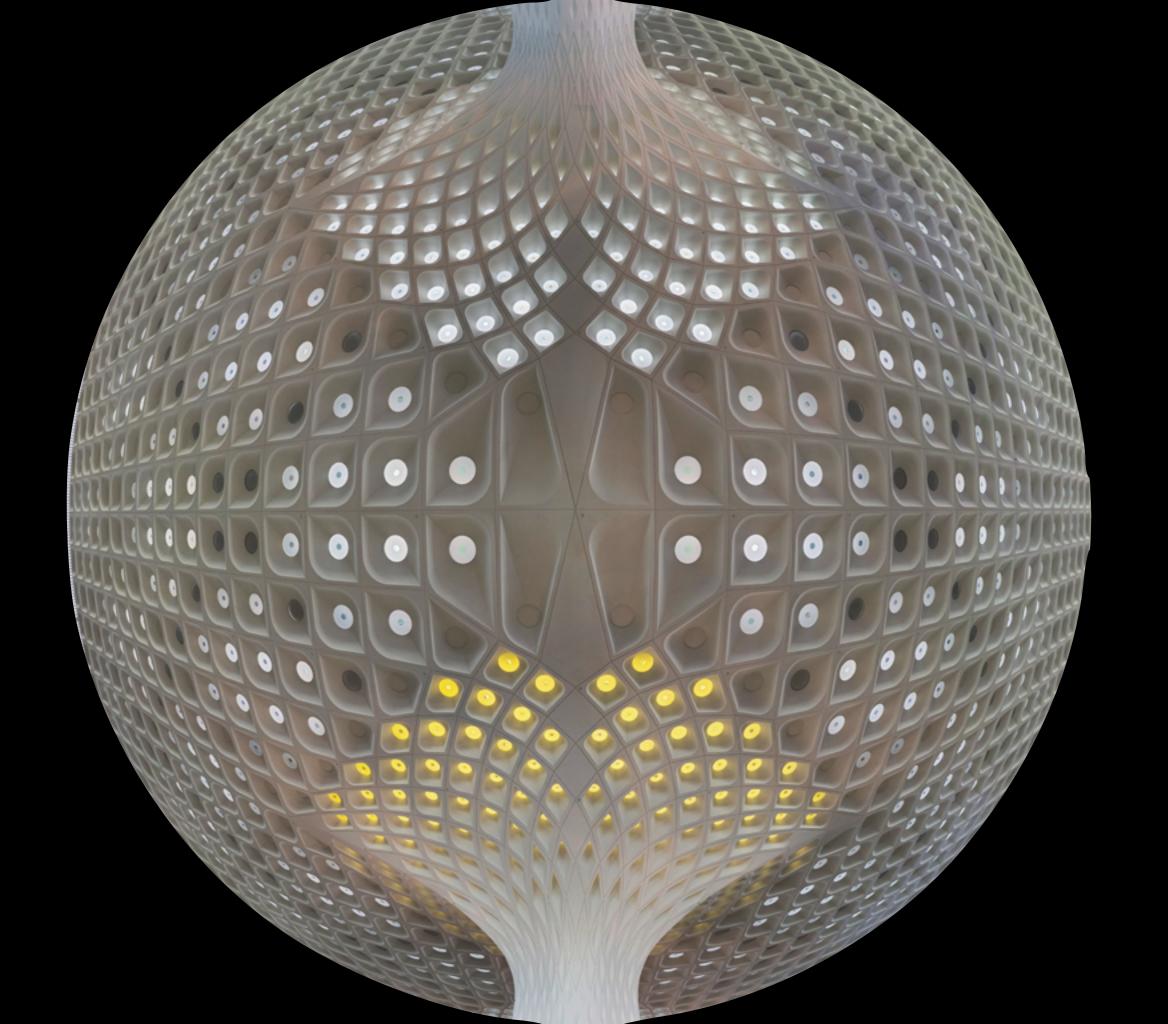


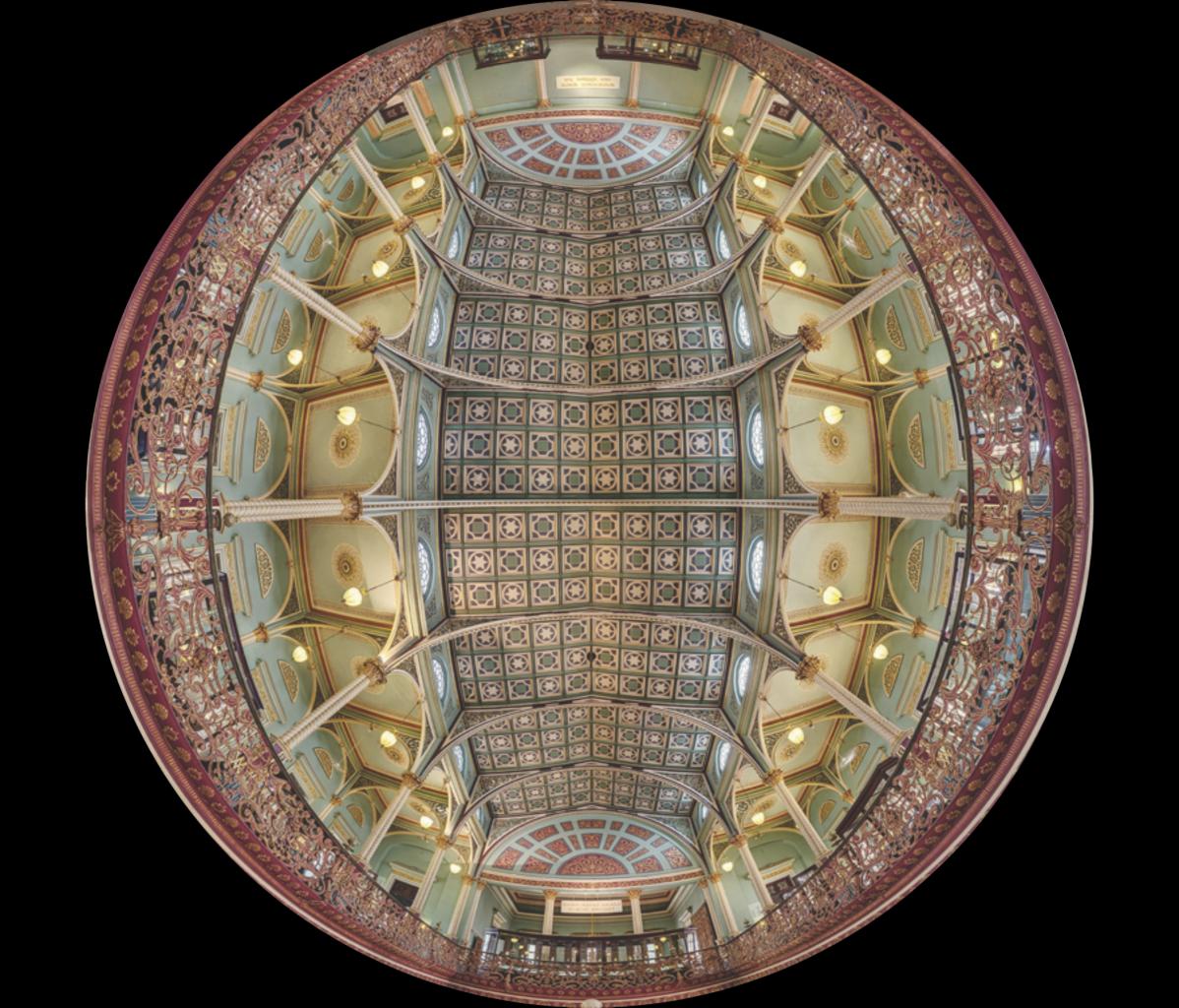






















Dunhuang caves: Dome and AR

- Exhibition at the world economic forum, 2015, Doha.
- The Mogao Grottoes, also known as the Caves of the Thousand Buddhas.
- Plug: The Augmented Reality version is opening in the NSW State Art Gallery next weekend.



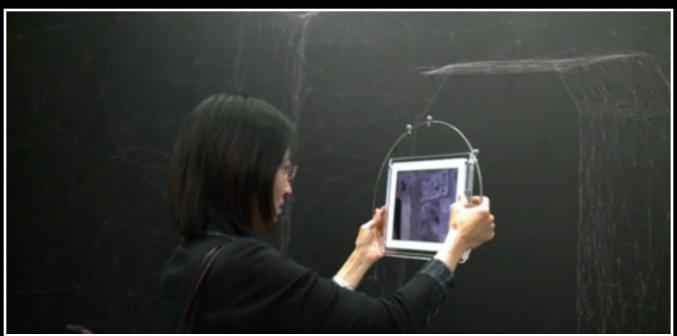












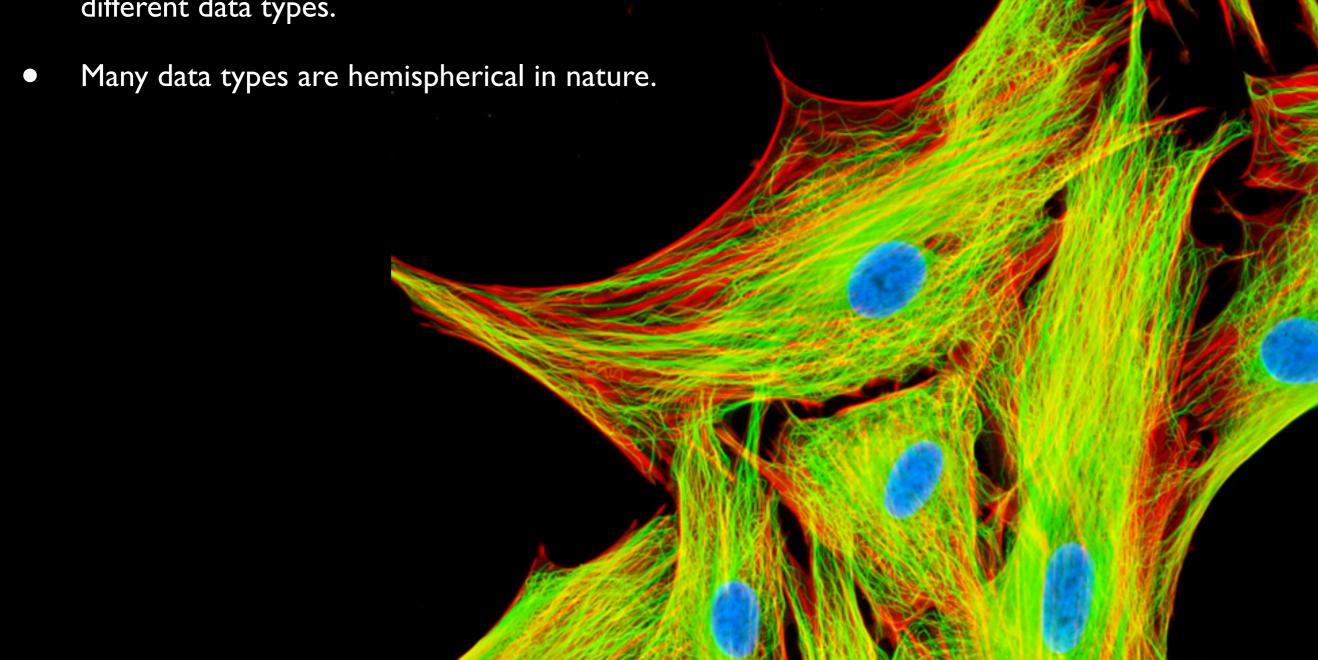


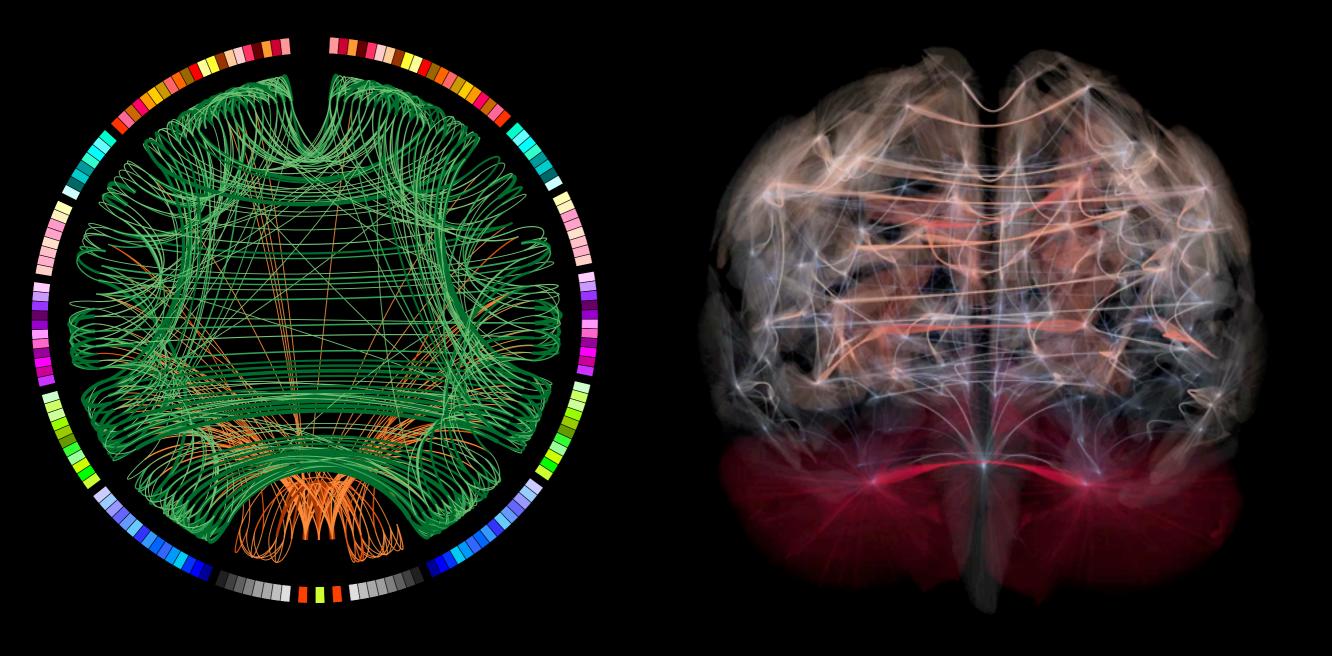


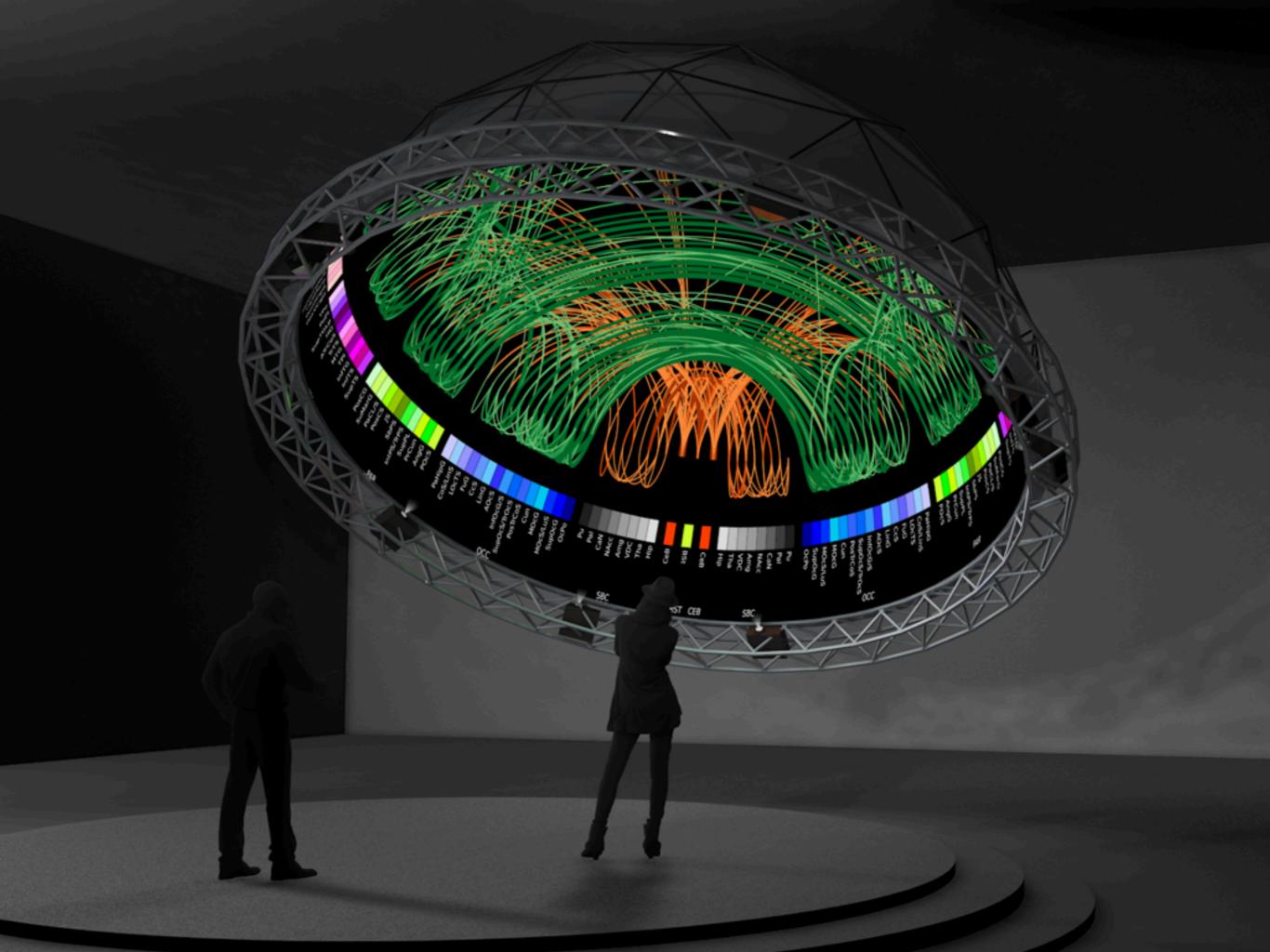
Why? DomeLab + EPICentre

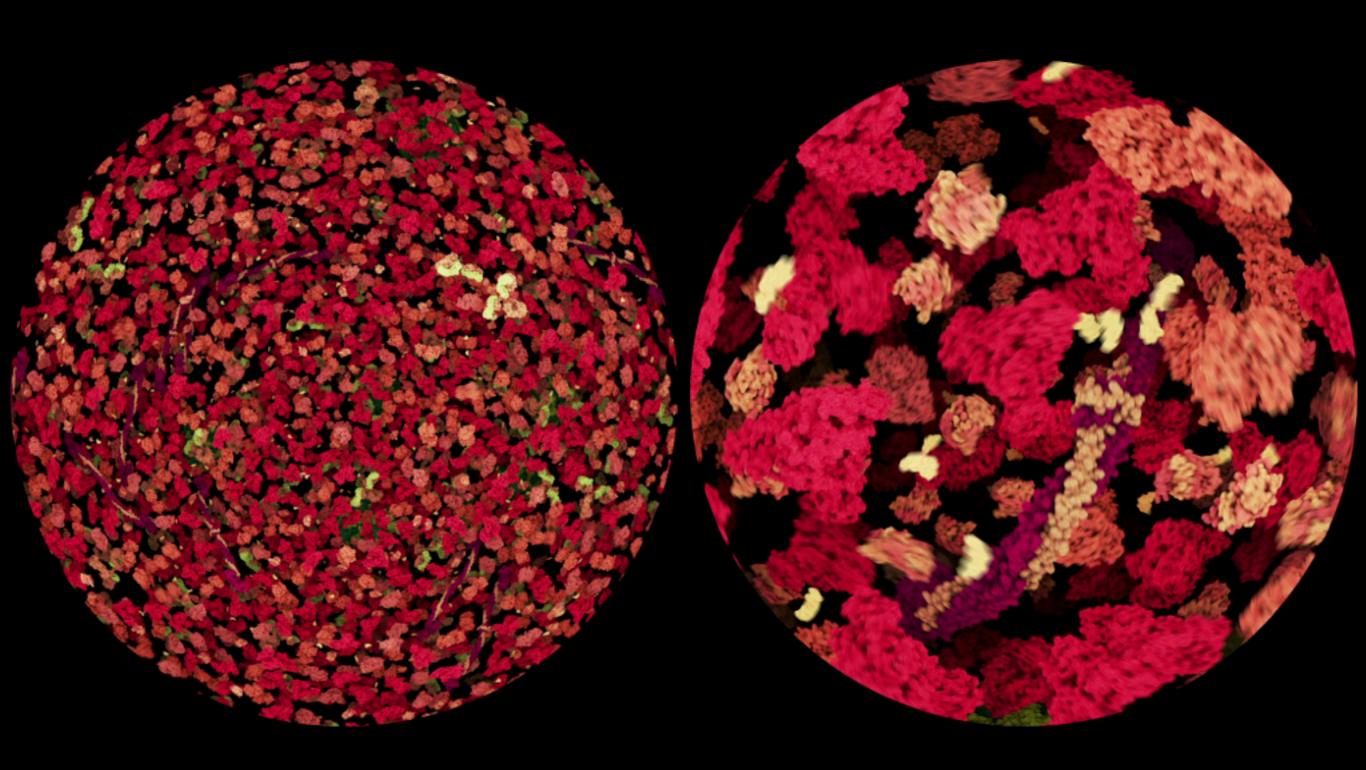
 As with many sciences, medical research is both generating larger data sets from simulation as well as amazing imaging.

• EPICentre will have a number of visualisation tools, the characteristics of each will suit different data types.









Questions?