Theofanis Matsopoulos

Planetarium Film Creator - Visual Science Communicator

Activities

- Creation of Planetarium Documentaries
- Creation of Giant Screen TV Documentaries
- Planetarium OTG (Portable Digital Planetarium in Greece)
- Photography Cinematography
- Astrophotography

Planetarium Documentaries

- 17 Full-Dome Documentaries
- 8 of them are co-produced with (ESA, ESO, HUBBLE, AHEAD, Newcastle University)
- 13 International Awards
- Translations in more than 30 languages
- The documentaries are presented in more than
 1500 planetariums worldwide



Trascreyes Myracecu.cs

360°

8







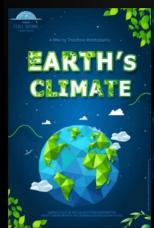




Stepping On Other Planets

The Sun: Our Living Star

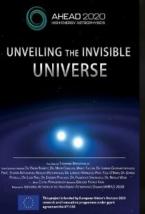
Europe to The Stars







Europe's Cosmic Quest



Unveiling the invisible Universe



CAPTURING THE STARLIGHT

The Magnificent Telescopes

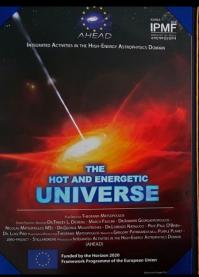
A FULLDOME FILM BY THEOFANIS MATSOPOULOS

Mars VR 360

DONAL HISTORY OF THE RED PLANET THROUGH

Farewell Cassini













Planetarium Documentaries Difficulties

- Very high resolution (17.000.000 pixels)
- Very high image quality (12 bit, 30 60 fps)
- Immersive audio (5.1 / 7.1 surround Dolby Atmos)

 High – End Computers required to create 3D graphics (Workstations - Render Farms) Full HD TV 1920 x 1080

IMAX laser projector 3840 x 2160

4K Fulldome 4096 x 4096

> 8K Fulldome 8192 x 8192







Planetarium Documentaries Funding

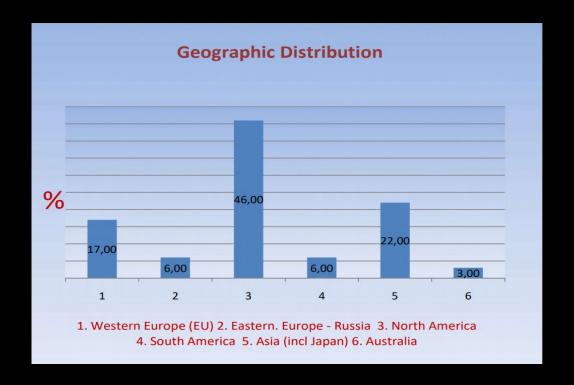
- Organizations Institutions fund their own productions (ESA, ESO, NSF-NOIRLab, NOA)
- E.U. funds Scientific Teams
 (AHEAD , BID4BEST) e.g. Horizon 2020
- Self financing my own productions
- Budget spans from 3oK to 2ooK euro

Planetarium Documentaries Purpose

- Institutions & Scientists want to promote their research to the public providing documentaries for free.
- E.U. funded projects impose scientists to invest in public outreach
- Planetariums are one of the best ways to approach large audiences via immersive experience

Planetarium Documentaries Impact to the Community

 Example: The free E.U. funded planetarium documentary "Unveiling the Invisible Universe" reached about 5 million viewers since 2021.



Thank you

- www.matsopoulos.com
- www.eso.org/public
- www.noirlab.edu/public
- www.ahead.astro.noa.gr
- www.bid4best.org