DOME PROJECTION

APPLICATION NOTES

Creating stunning visual experiences for visitor attractions and public spaces, should be creative, not complex.

Hippotizer's 3D Mapping toolset combines immersive visuals with easy 3D Mapping techniques to create the most immersive environments.

WHO USES DOME PROJECTION:



PLANETARIUMS / IMAX

- Migrated from Single source to multi-projector.
- DCI playout (JPEG 2000)
- Multi-Channel Audio (AES/EBU)
- Integrated with Projector (Barco) dedicated hardware or software
- 10/12bit, 60/120FPS, HDCP 2.2.



SIMULATION

- Flight Simulators (Commercial and Military)
- Medical
- Generative (Game Engines)
- 60/120FPS



PLANNING / VISUALIZATION

- Education (Higher)
- Engineering / Architecture





Get in touch sales@green-hippo.com | www.green-hippo.com

KEY TECHNOLOGIES:

Digital Cinema Package

- DCI playout (JPEG 2000)
- Encrypted
- Multi-Channel Audio (AES/EBU)
- Integrated with Projector (Barco) dedicated hardware or software
- 10/12bit, 60/120FPS, HDCP 2.2.

High Resolution Playback

Square Canvases

Generative Content

- Game Engines
- Interactive

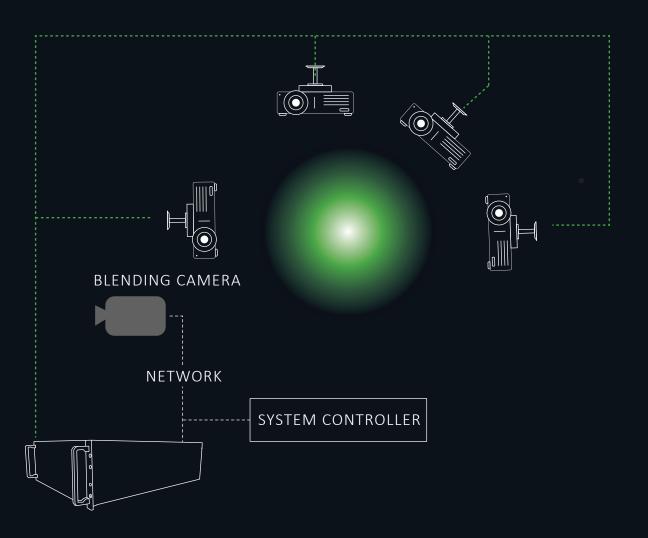
Automatic Alignment / Blending

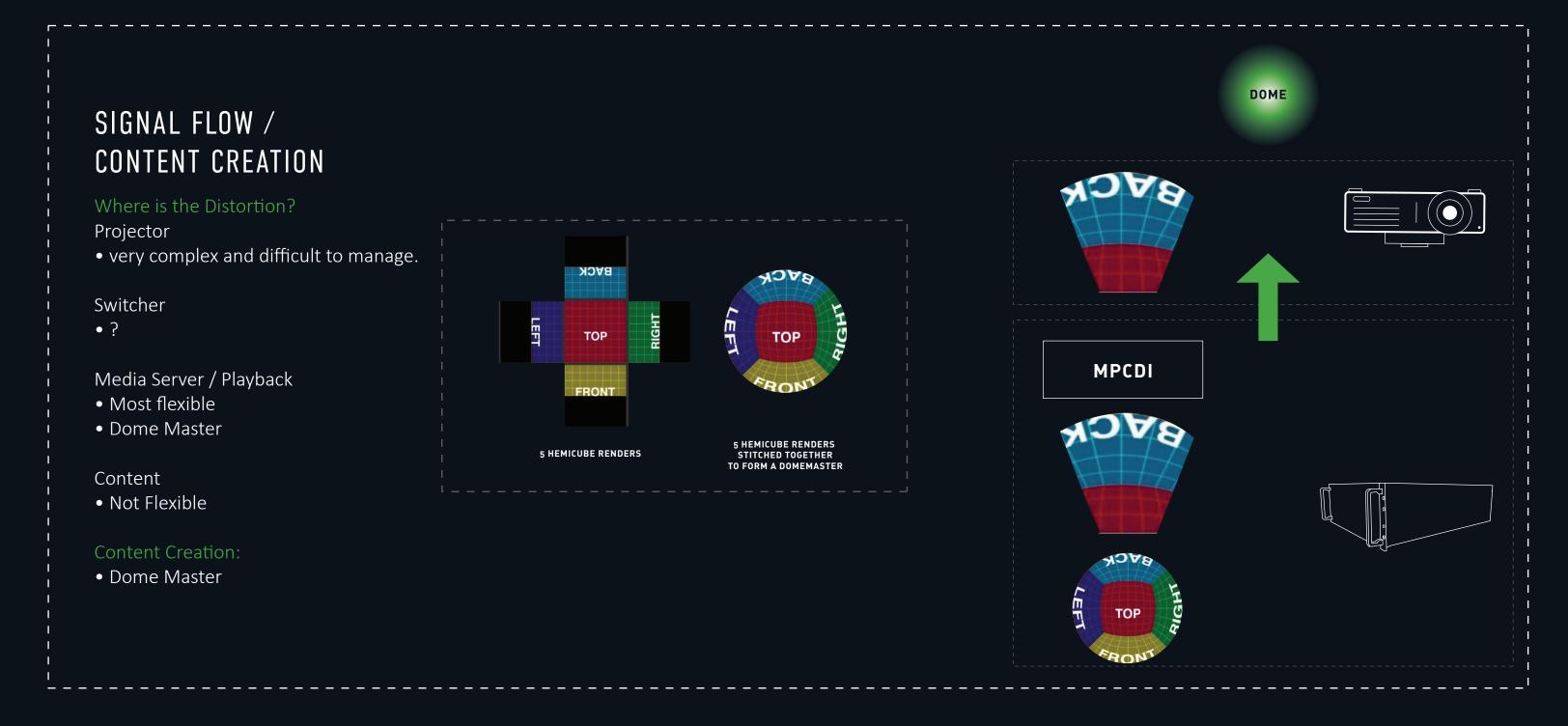
ROUTE TO MARKET:

Specialist Integrators deploying solutions: ANTYCIP

- VIOSO
- VR
- Simulation Software

Integrators selling 'home cooked' Igloo





AUTOMATIC WARPING AND BLENDING

- 3rd party camera system (eg. Dome Projection or Vioso) are ideal.
- Do not require a 3D model
- Gives the data (Warp and Blend) to Hippotizer over MPCDI
- Makes re-alignment easier.
- Requires Camera(s) from a known location that can see the whole surface.
- Additional licensing costs (Up to \$6K / Output one-off and ongoing).
- Green Hippo has validated two providers:



VIOSO

- Cheaper
- Easy to use software for un-trained
- Requires user intervention to run alignment



DOME PROJECTION

- More expensive
- Training required to use software.
- Media Server independent
- Can be run completely hands-off even of the camera moves.

AXIS



- Green Hippo's Sensor based alignment system.
- Requires an accurate 3D model. (LiDaR Scan)
- Does not need a camera.
- Does not blend
- Requires installing fibre sensors in the dome

CONCLUSIONS

Hippotizer supports domes.

We recommend using camera based automatic alignment.

If the blend / warp is done in the media server then all down-stream equipment is simplified.