



# ENTROPIA

INFO & RIDER

[www.entropia.io](http://www.entropia.io)

# Video preview



<https://vimeo.com/129903465>

# CONCEPT

A large, illuminated geodesic dome structure made of thin, light-colored rods, glowing with a soft blue light. The dome is the central focus of the image. In the foreground, two people are standing: a man in a dark suit on the left, seen from behind, and a woman in a plaid shirt on the right, seen in profile. The background is dark, making the glowing dome stand out. The overall mood is futuristic and conceptual.

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Entropia is an immersive performance, initiated by the work of Fraction on 3D spatial sound and joined by visual artists Louis-Philippe St-Arnault, Nature Graphique and Creation Ex Nihilo to create an intense sensory experience, based on the synergy between the surround sound, direct light of a physical object and projections 360.

It consists of a geodesic sphere placed in the center of the performance space whose visual mapping is synchronized to the sound and maintains constant interaction with the projection of immersive visuals on the exterior walls. Sound artist stands inside the sphere and performs live spatial sound using custom programs specially developed for the work.



For 40 minutes, combining the various sound and visual media, the artists construct Entropia, an audiovisual work paying tribute to the visionary architect Buckminster Fuller, conceived as an initiatory journey, hypnotic, contemplative, and out of time

The public, placed around the sphere like for a ritual, take body with the spatiality of the place and attends a performance 'total'. The entire space becomes the performance ground, overwhelming audience in an unconventional sensorial experience.

A large, illuminated geodesic dome structure made of thin rods, resembling a globe or a large-scale art installation, is the central focus. It is set in a dark room. Two people are visible: one in the foreground, seen from behind, looking at the dome, and another person standing to the right, looking towards the structure. The overall atmosphere is mysterious and artistic.

# PHOTOS & PRESS QUOTES

all pics by Sebastien Roy or Alber Ruso



*« one of the most breathtaking and interesting presentations we've had the pleasure of witnessing in a long time »*

**XL88R**  
ACCELERATING MUSIC & CULTURE



the  
creators  
project

« *Electronic Music Sounds Better Inside an LED-Filled Geodesic Dome* »

**VICE**

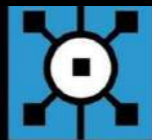
**thump**

**YOU'RE DM**

« *It looks positively stunning* »



*Featured by*

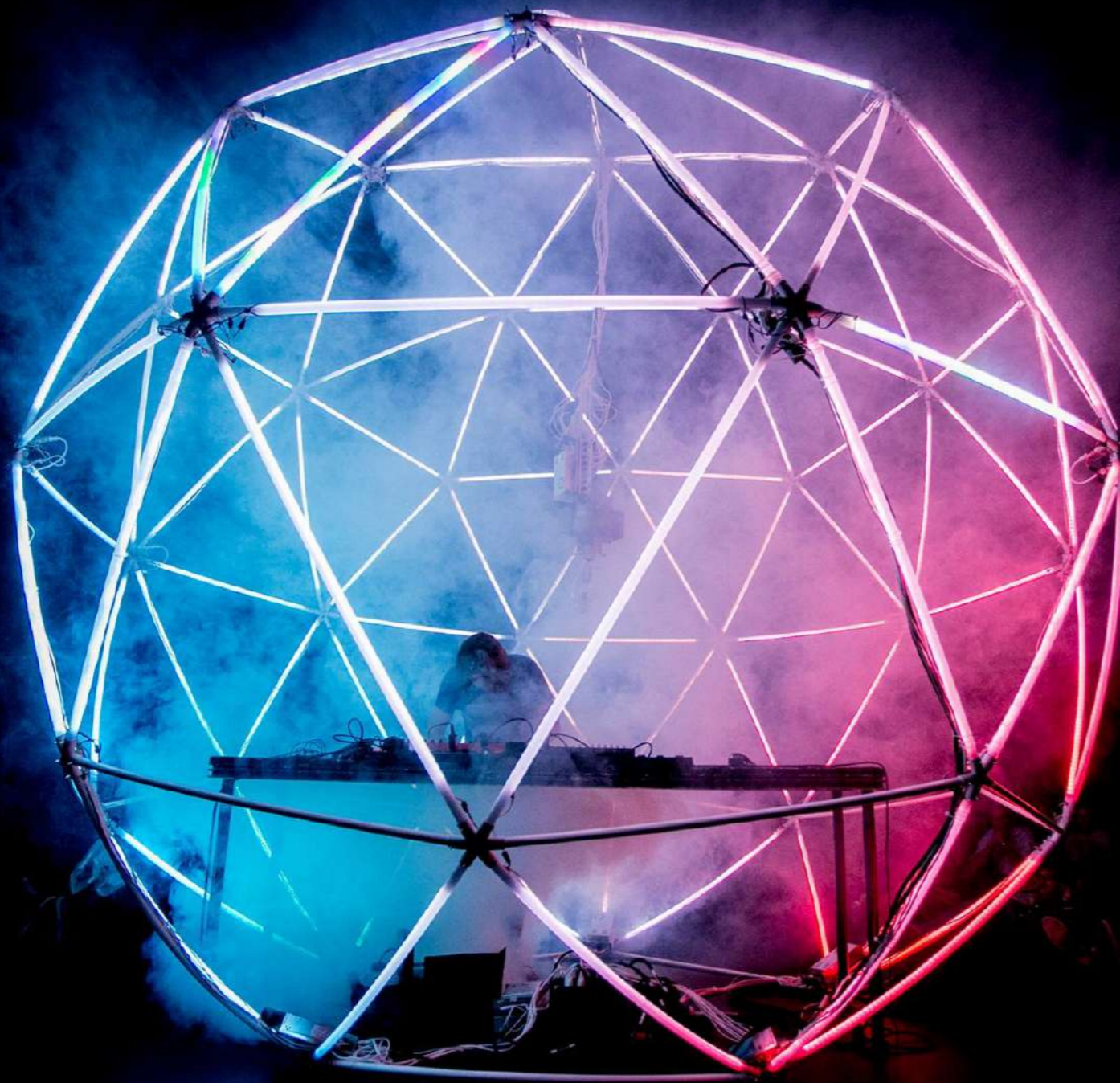


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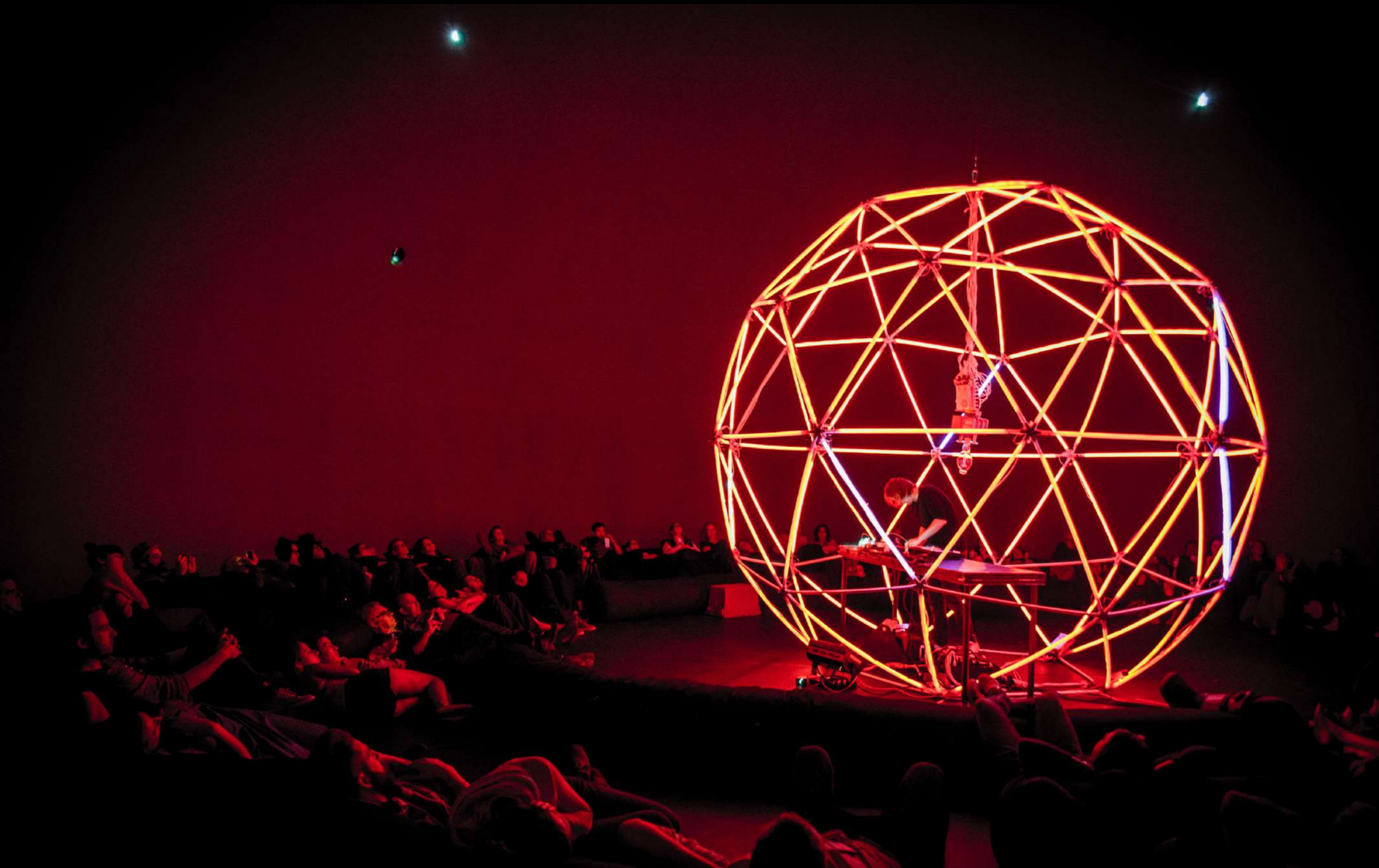
**Entropia is a co-production with SAT and benefited from the Residency program in research and creation of the Society for Art and Technology -**

**[sat.qc.ca](http://sat.qc.ca)**



Nov. 2015 @





mai 2015 @









# TEAM

A large, illuminated geodesic dome structure made of thin, light-colored rods and joints, glowing with a soft blue light. It is set in a dark room. In the foreground, the silhouette of a person in a suit stands with their back to the camera, looking at the dome. To the right, another person in a plaid shirt and dark pants stands in profile, also looking towards the dome. The word 'TEAM' is overlaid in large, bold, white, sans-serif capital letters across the center of the dome.

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**FRACTION (Eric Raynaud)** Concept, surround sound programming, music

Fraction, whose real name Eric Raynaud, is an electronic music producer, whose work focuses on creating intense immersive experience involving sound and interaction with visual media. He created several acclaimed works among them Dromos in 2013 (produced by SAT with MUTEK). He is awarded by Institut Français in Digital Arts field and led in 2014 a several months research and creation at Société des Arts Technologique of Montreal on sound immersion and new media interactions that drove him to imagine Entropia. His productions appeared on the Berlin based imprint Shitkatapult, on several net labels before he got signed by french label INFINE (Rone, Murcof, Cubenx) in 2008.





**Louis-Philippe St-Arnault** Sphere designer & visual art direction

Louis-Philippe St-Arnault has been directing the SAT [Immersion] Department at the Society for Arts and Technology since 2007. He was head of Satosphere project design and integration from 2008 to 2011 and now acts as program manager for its related immersive experiments and creations and SAT's annual IX Symposium. In addition, he continues to create digital scenography and interactive installations and to participate in collective creation processes, like Entropia presented recently in 2015.

First and foremost a space and lighting designer, he has worked for the last 15 years on creating performance environments and experiential installations, and has had the chance to collaborate with numerous media artists, choreographers, designers and programmers and to show works in many countries.



**Nature Graphique (Aurélien Lafargue)** sphere mapping & visual projection

Aurélien Lafargue is a new media visual. At the head of creative studio Nature Graphique, he experiments with a wide range of mediums such as video art, motion design , programming, space design. Passionate about music, he performed live videos for artists as diverse and demanding as Max Cooper , JR Rodriguez , Blockhead and the realization of noticed scenography for Scopitone festival in Nantes the three last years. Today, his expertise leads to collaborate with many other festivals and cultural venues such as the contemporary art festival A- share , the Olympia, the Echonova , The Institute of the Arab world , STEREO LUX



## **Création Ex Nihilo (Guillaume Bourassa) generative visuals**

Guillaume is technical director of the Satosphere, a unique creative space in the world at the Society for Arts and Technology.

He leads in parallel an artistic career where through his many projects he developed skills for immersive visual and sound synthesis. He developed in particular aptitudes in creating dedicated systems for specific audio-visual installation or performance involving new media technology [immersive visual, interactivity, AI Application, Mapping, 3D] - (TouchDesigner, Python)

# SET UP OPTION

A large, illuminated geodesic dome structure made of thin rods and connectors, resembling a sphere. It is set in a dark room. Two people are standing in front of it: one in the center foreground, seen from the back, and another on the right side, seen in profile. The scene is dimly lit, with the dome's structure glowing.

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**ENTROPIA must be produced in space that allow immersion for the visual and audio.**

**This means the ability to project visual in 360 ° and play sound through a multi channel sound set up (minimum 6 speakers ) . The Full Dome size is the most appropriate set up , but other possibilities exist. This section presents various options which are not exhaustive, that could be chosen and adapt to feature the piece**

# SET UP OPTION #1

## Full Dome

Requires the use of a dome , fixed, mobile with a diameter 15m that allow a stage at its center

Several types of dome exist. If production opts for this solution, it is likely that it's familiar with constraints and technological advantages that implies.

For this option, you must make contact the team to verify the adequacy of the configuration of your dome with the feasibility of the show:

- kind of video technology (type and number of vp)
- need to confirm the mapping of the 360 ° dome
- the sound system in place ( number of speakers and mixer)

Our team can also support you to find a video mapping solution.



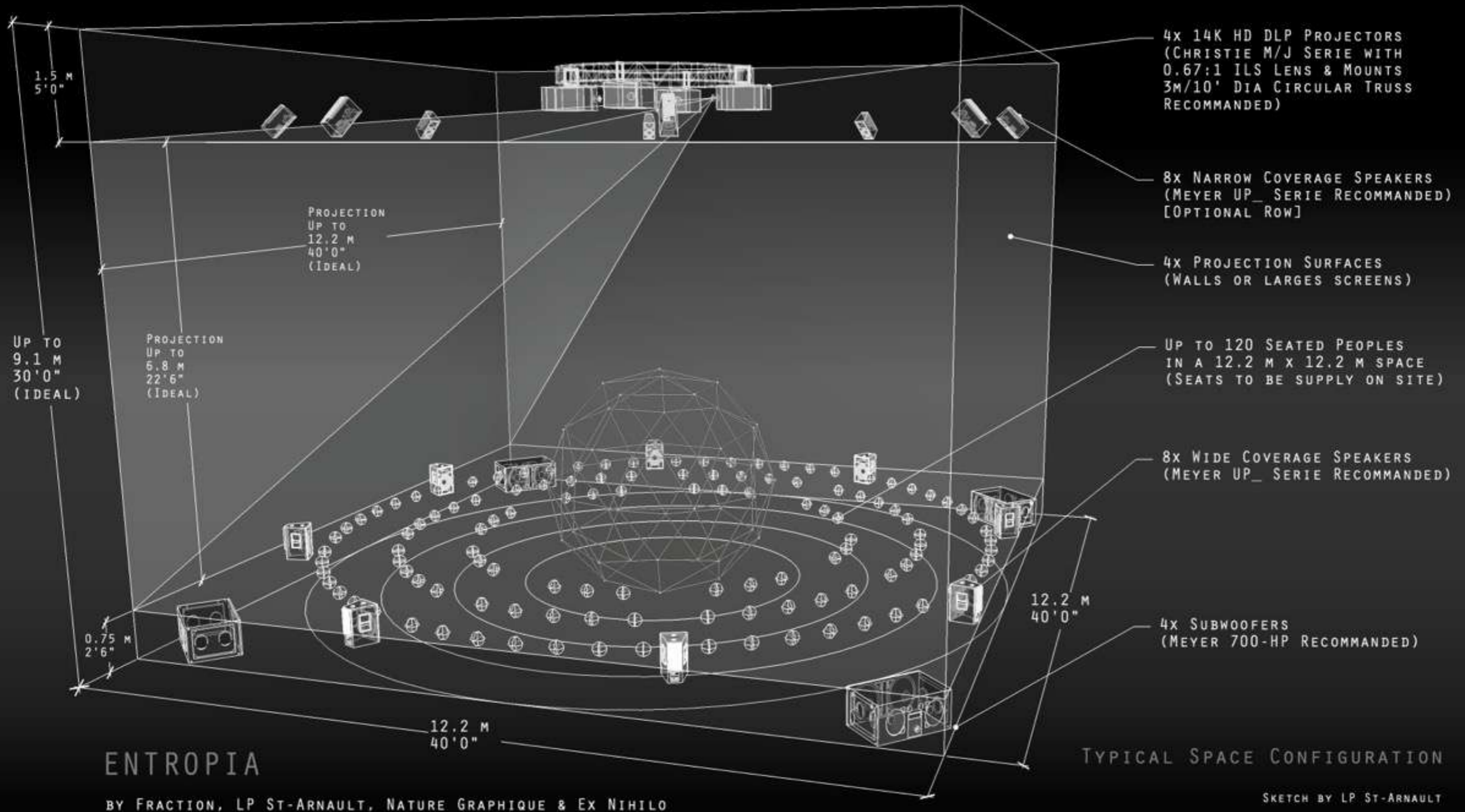
**The following configurations presented are set up schemes for conventional space (cubic form) or for projects requiring the use of mobile truss . They are given as exemple.**

**The team is able to adapt these schemes according to your own places , taking into account your constraints and your actual dimensions**

**Feel free to send us your specific requests  
[info@entropia.io](mailto:info@entropia.io)**

# SET UP OPTION #2

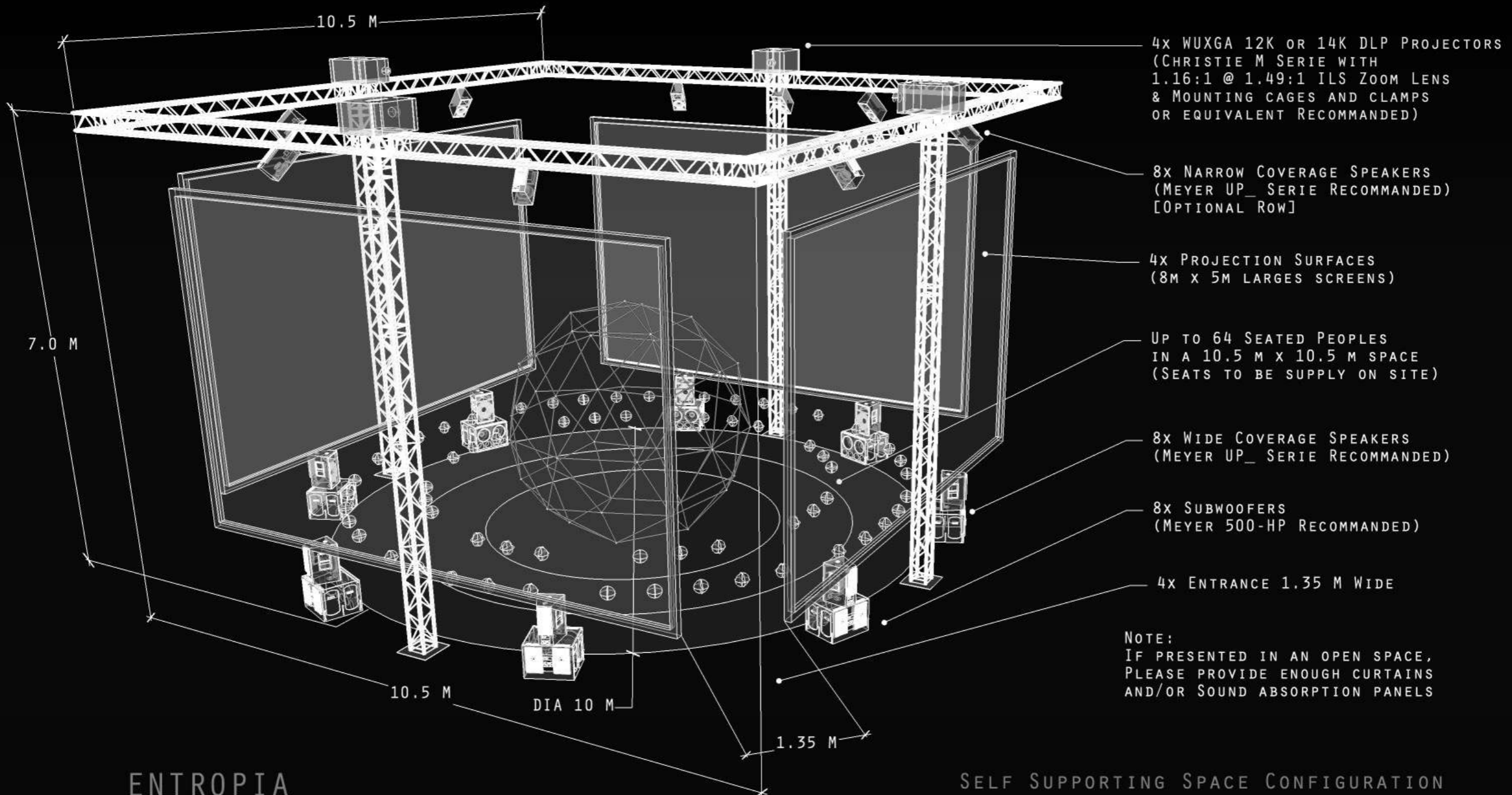
# Typical space configuration





# SET UP OPTION #3

# Self Supporting(1)



ENTROPIA

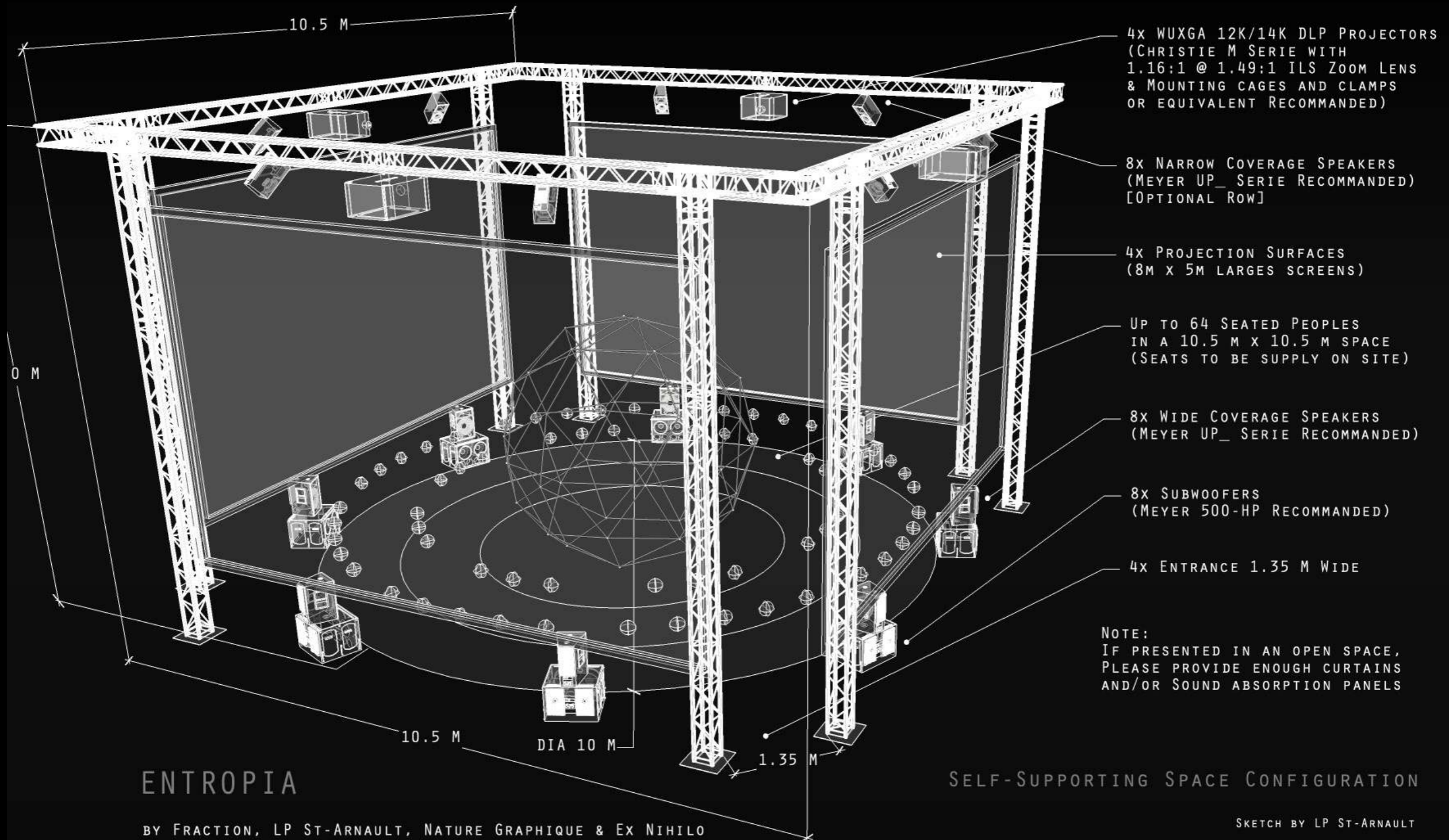
BY FRACTION, LP ST-ARNAULT, NATURE GRAPHIQUE & EX NIHILLO

SELF SUPPORTING SPACE CONFIGURATION

SKETCH BY LP ST-ARNAULT

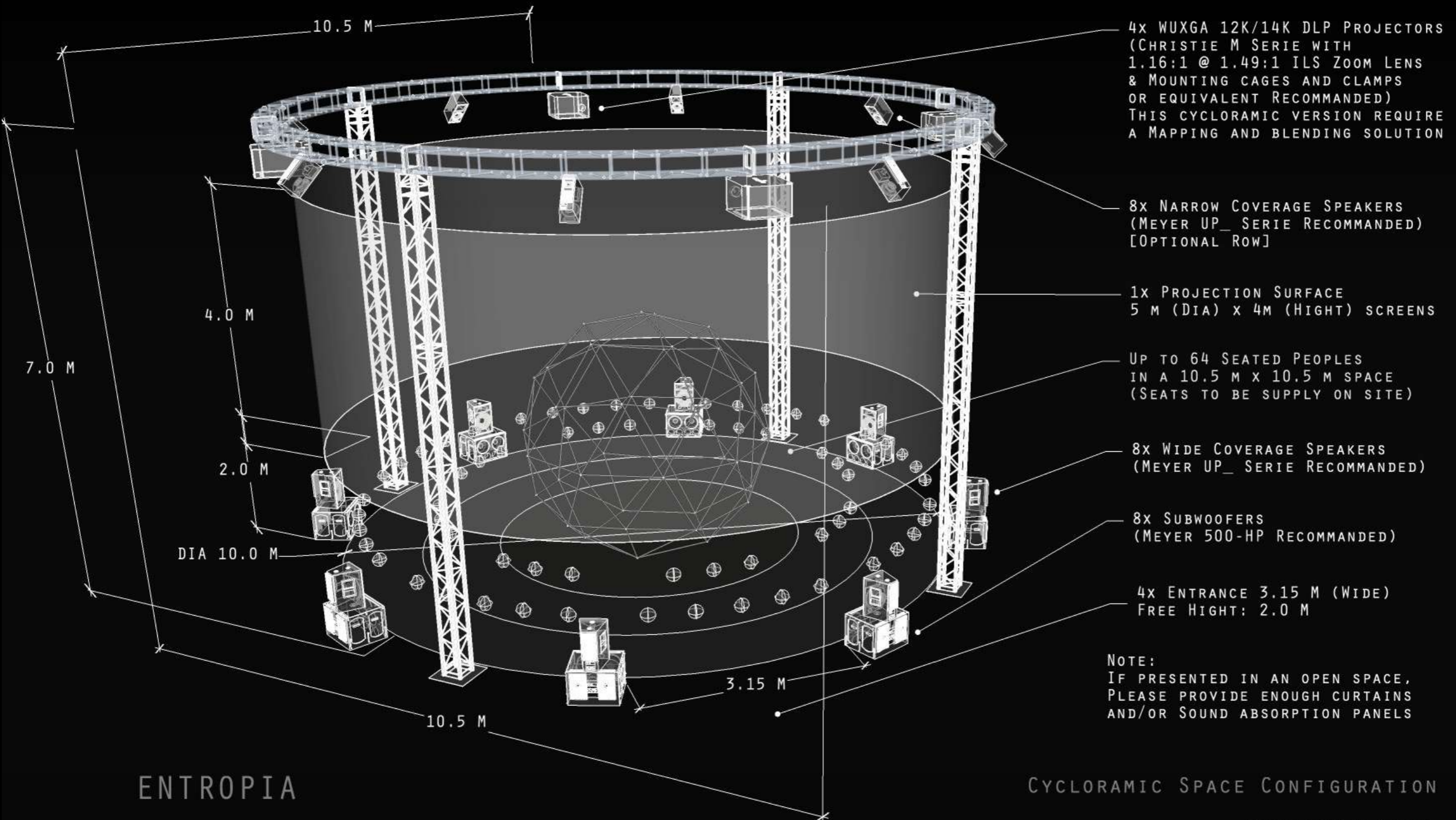
# SET UP OPTION #4

# Self Supporting(2)



# SET UP OPTION #5

# Cycloramic



ENTROPIA

BY FRACTION, LP ST-ARNAULT, NATURE GRAPHIQUE & EX NIHILO

CYCLORAMIC SPACE CONFIGURATION

SKETCH BY LP ST-ARNAULT

# RIDER



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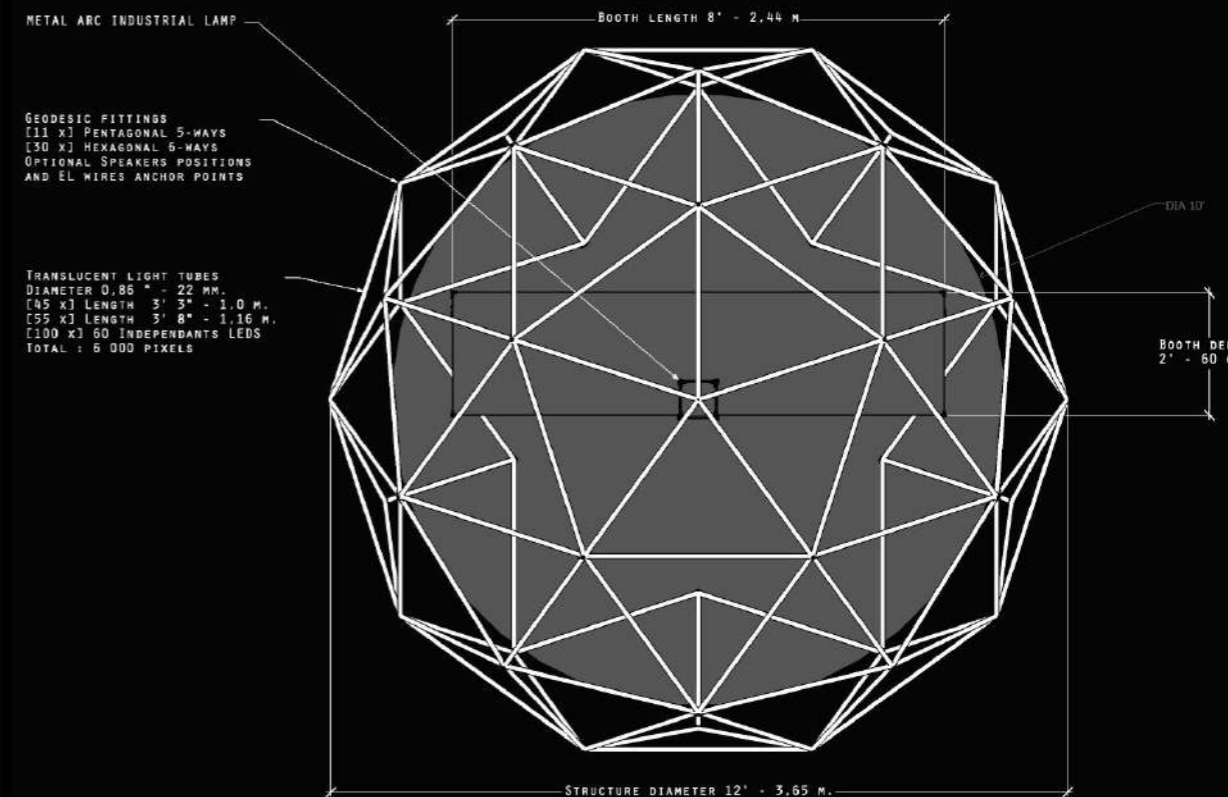
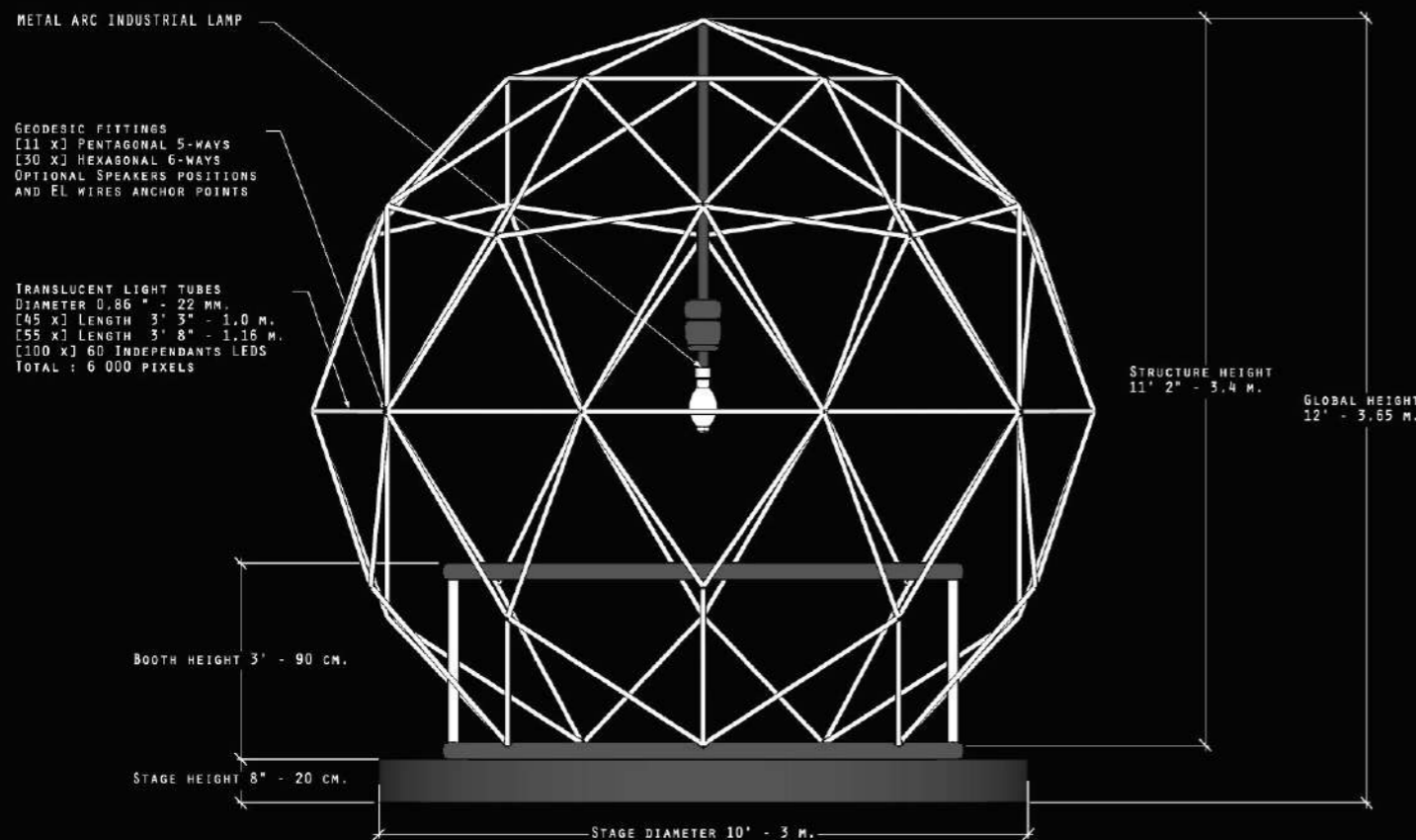
A large, illuminated geodesic dome structure is the central focus of the image. It is composed of a complex network of interconnected lines forming a spherical shape. The structure is set in a dark environment, possibly a museum or gallery, where a few people are visible in silhouette, providing a sense of scale. The overall lighting is low, with the dome's internal lights creating a bright, glowing effect.

# Equipement we provide

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# LED Sphere

- The Sphere travels unassembled in 4 flight cases, whose two are overweight ( for air travel ) .
- The Transport costs are cover by the producer if the contract stipulates. The sphere is registered in an ATA carnet which allows easy customs formalities



# Other Equipments

- Laptop for Performance Audio
- Midi keyboard- synthesizer
- Nord Lead
- 2 ipads for Sound performance
- additional sound card for audio routing to the sphere ( ultra light Motu MK3 )
- Router / hub ethernet / wifi

# Equipment we ask

A large, illuminated geodesic dome structure made of thin rods and connectors, resembling a geodesic dome or a large-scale sensor array. It is set in a dark environment. Two people are visible: one in the center foreground, seen from behind, and another on the right side, seen in profile. The scene is dimly lit, with the primary light source being the structure itself.

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## **For VISUALS:**

- this section has to be discussed after the set up choice
- 1 **Mac pro 3,7 Ghz Quad-Core** Intel Xenon E5 12 GB DDR3 AMD Firepro D300 + OS 10.9.5 (ou avec de meilleurs spec.)
- 1 **PC server avec Win7 et** carte graphique Nvidia GTX780 avec min 16 GB RAM

## **For Sound:**

-A System supporting multichannel sound, with separate outputs, with at least 8 loudspeakers ( for 2D ) with good quality at FOH -Full range ( operating frequency of 80 Hz- 13kHz Range ) . To meet the definition of 3D sound, speakers must be suspended above the space - to be defined according to the retaining appropriate option

-At Least 4 subwoofers whose power is in coherence with the overall system. The audio sub channel can be unique.

-1 A / D converter (external sound card ) supporting usb or firewire adjusted to the system in place ( ideally RME )

-Example : Total output expected for 8 speakers and 4 sub:

$8 + 1 = 9$ . The mixer or audio card must have 9 separate outputs

-1 Lamp Metal Halyde (balast + bulbe) 400W MH M-59/S (Ex: Sylvania M400/U)

-1 smoke machine of this kind :

<http://www.martin.com/en-US/Products/Product-Details/Magnum-2000>

[http://www.antari.com/index.php/web/Products\\_i/127](http://www.antari.com/index.php/web/Products_i/127)

Warning! in the case of a inflated and pressurized dome, provide 2 machines

-1 stage table that is placed into the sphere 2mX 50 cm x 1 m (height)

-Screen VGA / HDMI PC (17 ") for visual computer - keyboard and mouse

- All speakers (active or passive ) must be properly wired and powered either directly from the a / d converter or amps / table mixes. Provide enough jack for multicasting ( sound card output)

Connection to an Internet network via ethernet fast and stable ( we need internet )

- Electrical outlets ( extension cord and power strip ) at any point of use - two different circuits around the sphere ( # 1 for equipment , LED # 2 )

## Personnel required

We ask the help of *a construction team* to carry the sphere at its last stage of construction : at least 4 people in addition to the artists

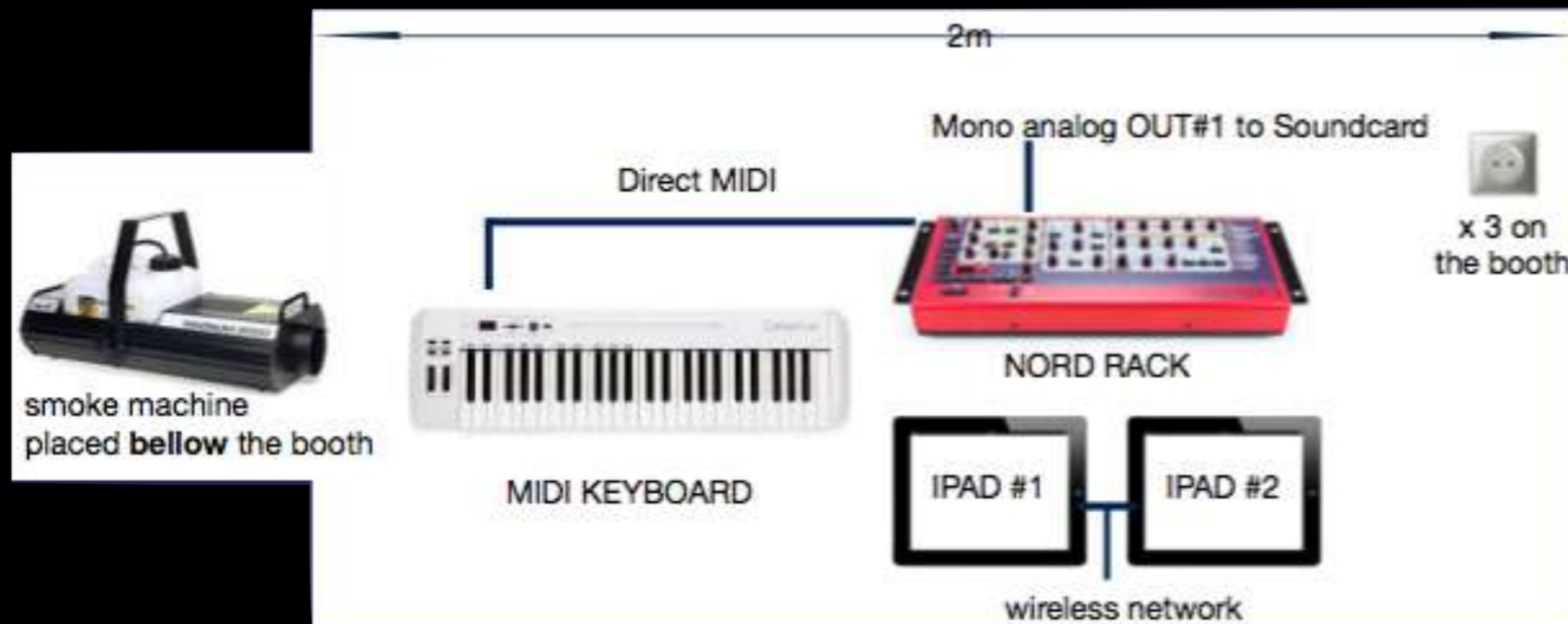
If the sphere must be dismantled and / or moved between shows , a 6-person team should be assigned to this task. The logistical aspect has to be considered and will be discussed at the project feasibility study. The sphere disassembles and moves quickly into two parts ( stage change: 45mn)

sound technician familiar with the sound system installed

a light technician familiar with the installed vp

- During the building period and during performances if they take place over several days, the space must be closed and / or monitored day and night.

# Stage plan into the sphere



- No laptop computer on stage
- Laptop remains by the control room along visual computers (on the side of the room)
- A 1/4 jack has to go from nord rack to control room

# Building schedule

A large, illuminated geodesic dome structure is the central focus of the image. It is composed of a complex network of white lines forming a spherical shape. The scene is set in a dark environment, with the dome's light providing the primary illumination. In the foreground, two people are visible: a man in a dark suit stands with his back to the camera, looking towards the dome, while a woman in a plaid shirt stands to the right, looking towards the man. The overall mood is contemplative and futuristic.

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Entropia team is a minimum of 3 people. It ensures the assembly and testing of the device. There must be two full days before the day of the performance

Entropia Personnel	Day	Entropia Task	Production task
LP, Guillaume/Aurelien	1	mounting of the sphere, and electrical connection	video technician on site and on arrival artists
Eric	1	ethernet network set up , synchronisation test , test software / cues , sound balance	video and sound technician on site
Eric, LP,Guillaume/Aurelien	2	Rehearsal/general check	video and sound technician on site
Toute l'équipe	3	Last rehearsal befor show	video and sound technician for show

- The production covers artists transport from their place of residence ( Paris/ Montreal ) or from the last concert
- The production also provides to the team accommodation and catering for 2 nights before performance

# References & Contacts

A large, illuminated geodesic dome structure made of thin, light-colored rods, possibly a kinetic sculpture or a large-scale art installation. The dome is composed of many interconnected triangles, creating a complex, spherical lattice. It is set in a dark environment, and its internal structure is highlighted by a soft, blueish-white light. Two people are standing in the foreground, one in the center and one on the right, providing a sense of scale to the massive size of the dome. The person in the center is seen from the back, and the person on the right is in profile. The overall atmosphere is mysterious and artistic.

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For any request on the technical :

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[info@entropia.io](mailto:info@entropia.io)

On demand:

pictures selection/press book/sound & video