A dark, minimalist room with a white ceiling and walls. A complex, multi-lens light fixture is suspended from the ceiling. In the foreground, a large, rectangular, glowing floor installation displays a map of the world. The overall atmosphere is dark and futuristic.

# ORBIS LUMEN

A MEDIA ART INSTALLATION  
BY MICHAEL SAUP & IMMERSIVE.EARTH

<https://www.youtube.com/watch?v=8WfEg6jo9Us>



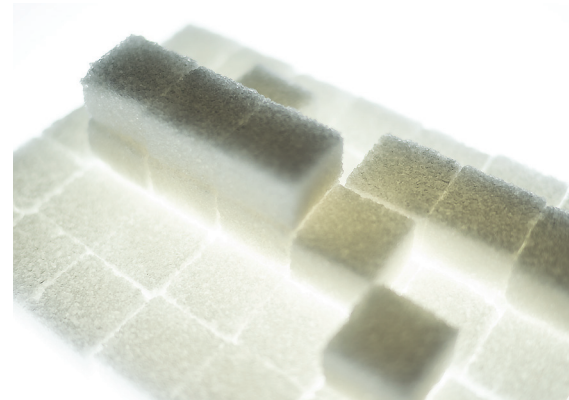
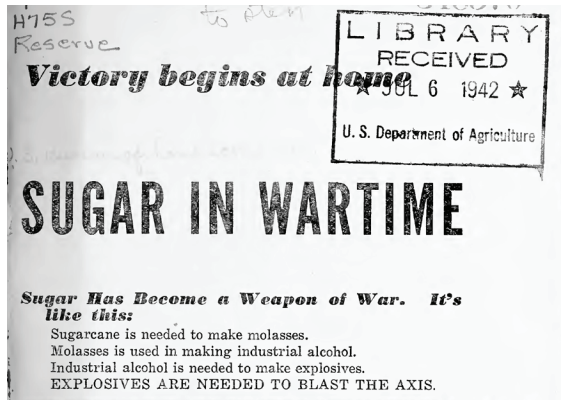
*ORBIS LUMEN* (The Light of the World) is a media art installation showing a three-dimensional world map built from multiple layers of over 40000 white sugar cubes. Animated world models are projected onto the white sugar cubes from above.

Animated light patterns illuminate the translucent sugar cubes from below. Using sugar cubes as pixels emphasizes the intimate relationship between information, energy, resources and the resulting impact on the world.

# SUGAR

## ENERGY AND PEACE

In times of peace, sugar is being used as a food source and a potentially abundant regenerative source of energy. With a total world harvest of over 1 billion tonnes of sugar cane per year, the global energy potential from sugar is over 100,000 Gwh. Energy may even become the primary product of sugar cane processing, rather than sugar itself.



Nevertheless, in times of war, sugar is the first item to be rationed as a building block for making conventional combat explosives.

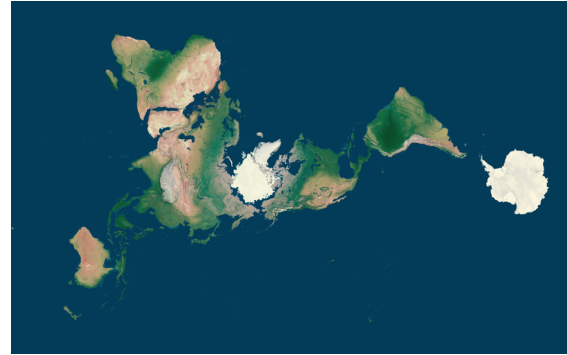
That being said, we should be happy as long as we are supplied with chocolate, candy, sugar and sweets, as it clearly means that we are living in peace.



# MAPS



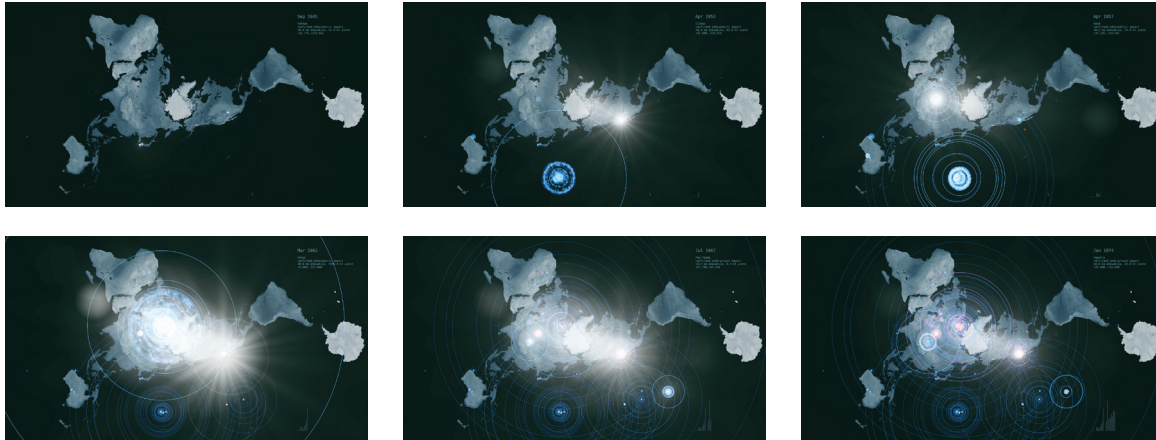
Common depictions of Earth which we see in daily news and navigational maps are based on the Mercator projection displaying distorted and incorrect proportions of Earth's landmasses. Such maps are useful for navigation but inappropriate for the promotion of planetary concepts.



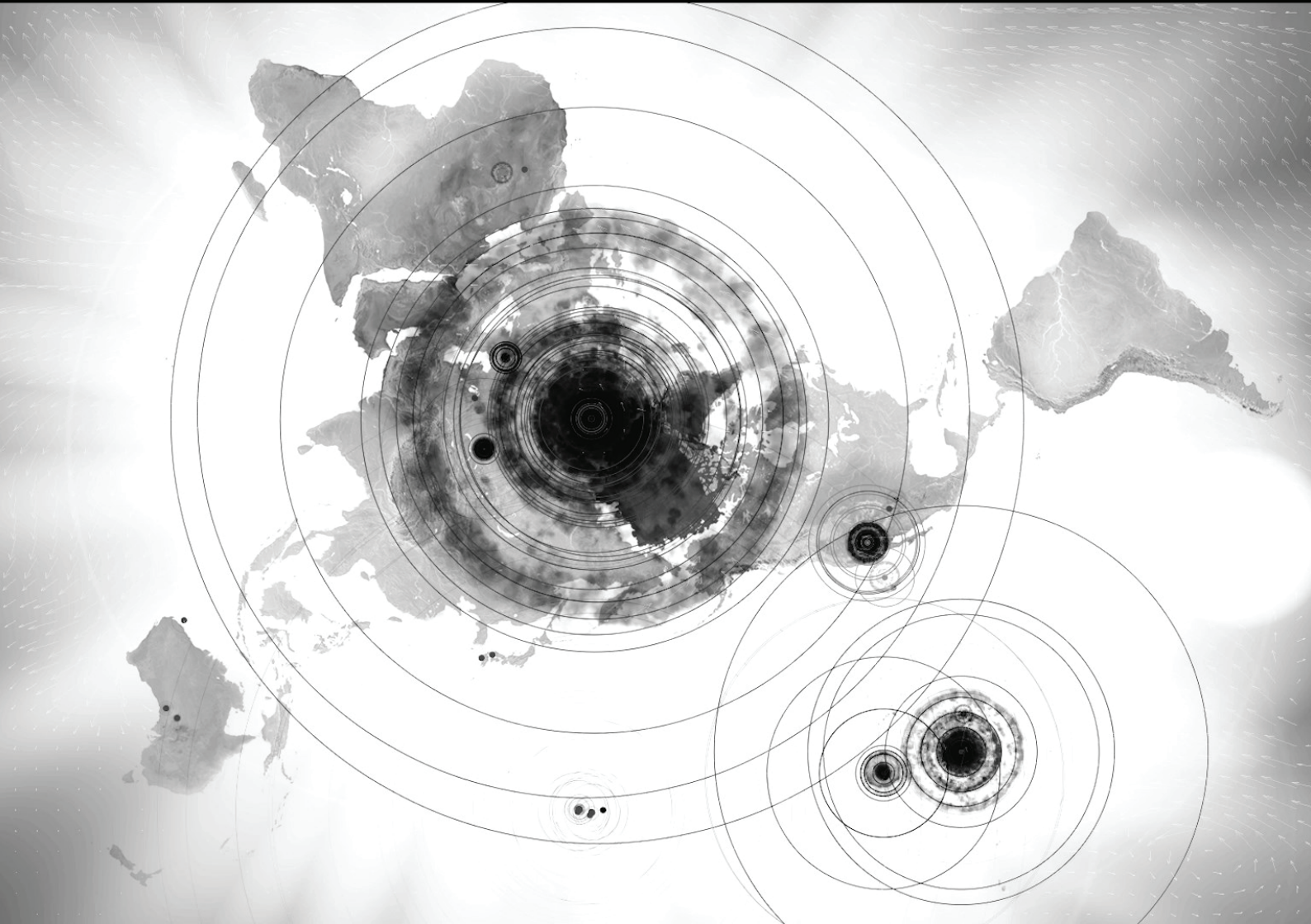
The *Dymaxion* map is the only flat map of the entire surface of the Earth that reveals our planet as one continent in one ocean, without any obvious distortions of the relative shapes and sizes of the land areas, and without splitting any continents.

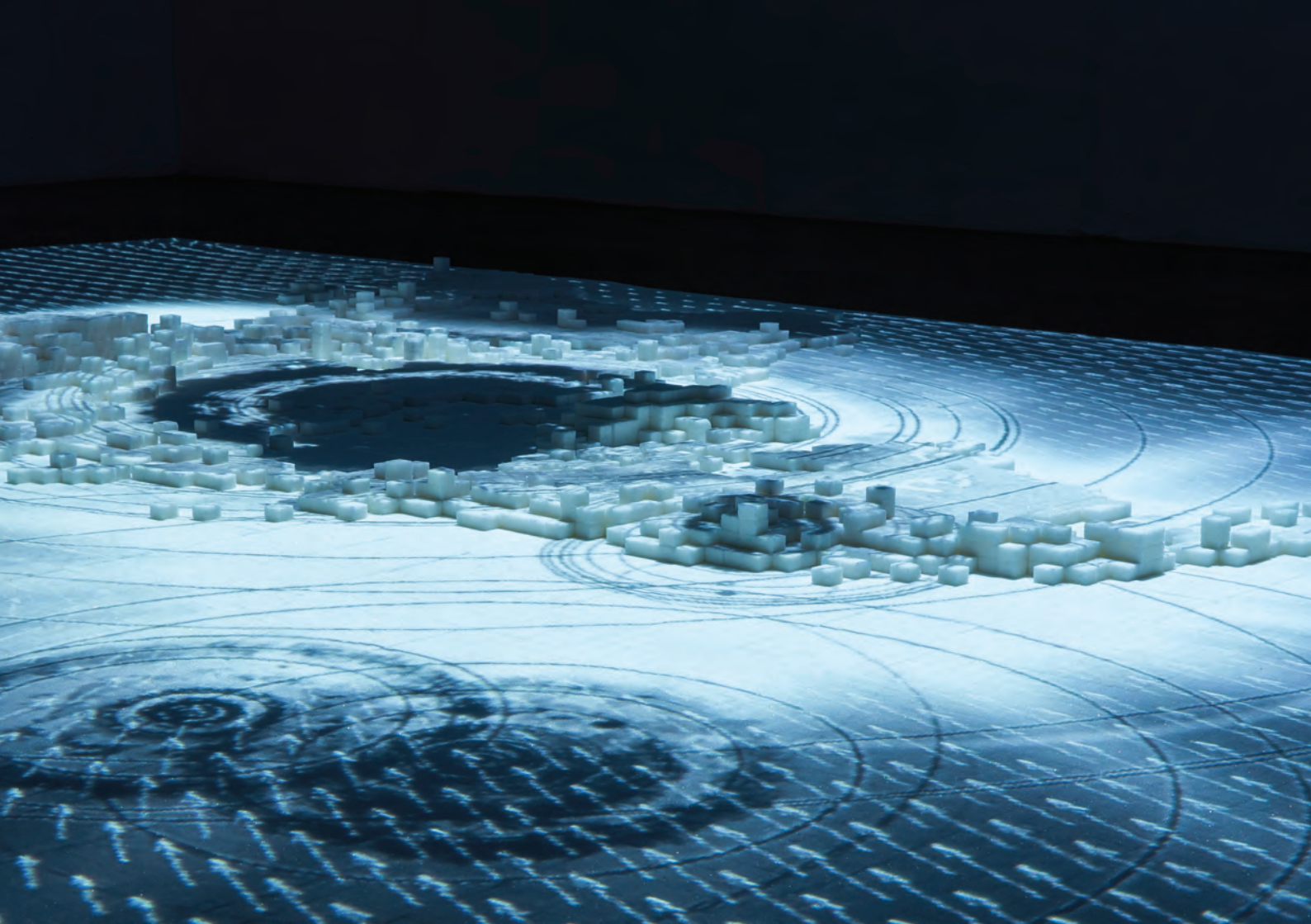


# NUCLEAR TESTING

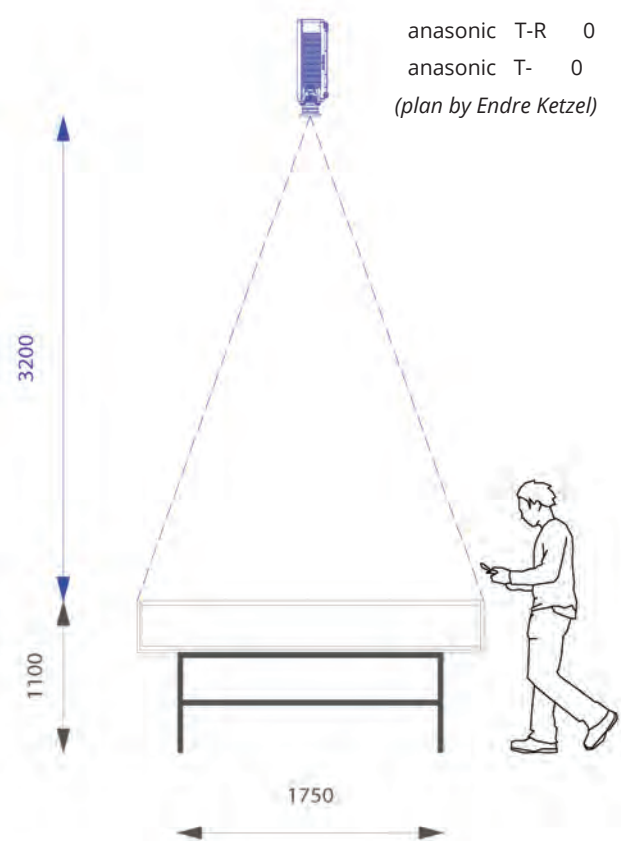
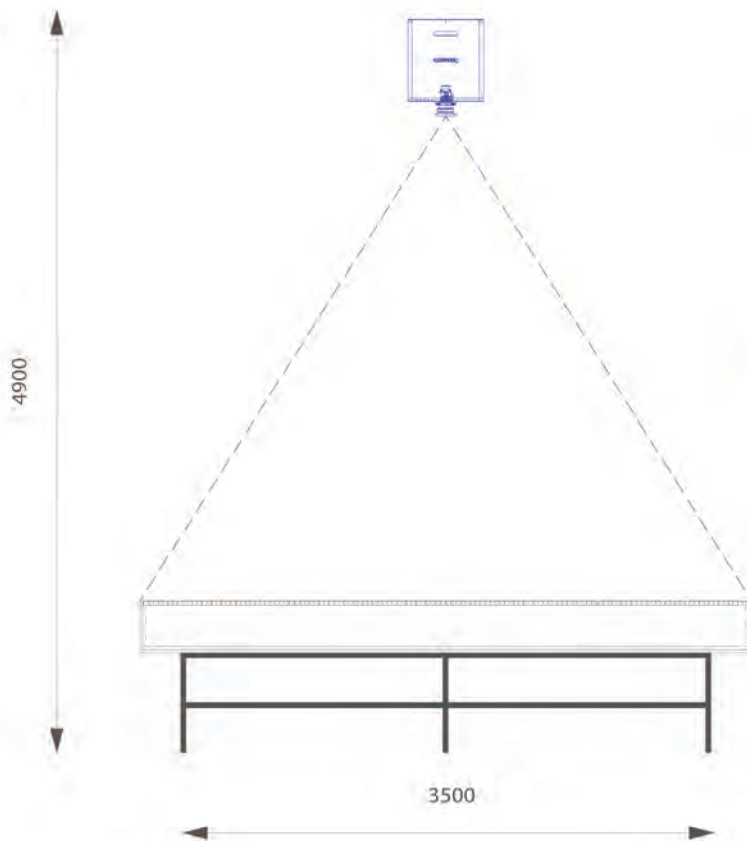


*ORBIS LUMEN* stages the most extreme power released by humankind: the sequence of all nuclear explosions from 1945 until today, irreversibly transforming the atmosphere into the atomsphere, igniting the epoch after Trinity: the nuclear Anthropocene with its application and “mastery” of atomic processes. The impact of over 2000 nuclear explosions on the atmospheric, exoatmospheric, aquatic, and underground environments can be observed. The amount of energy released is indicated by circles at the specific locations of detonation. The data was acquired from multiple scientific sources on the Internet.







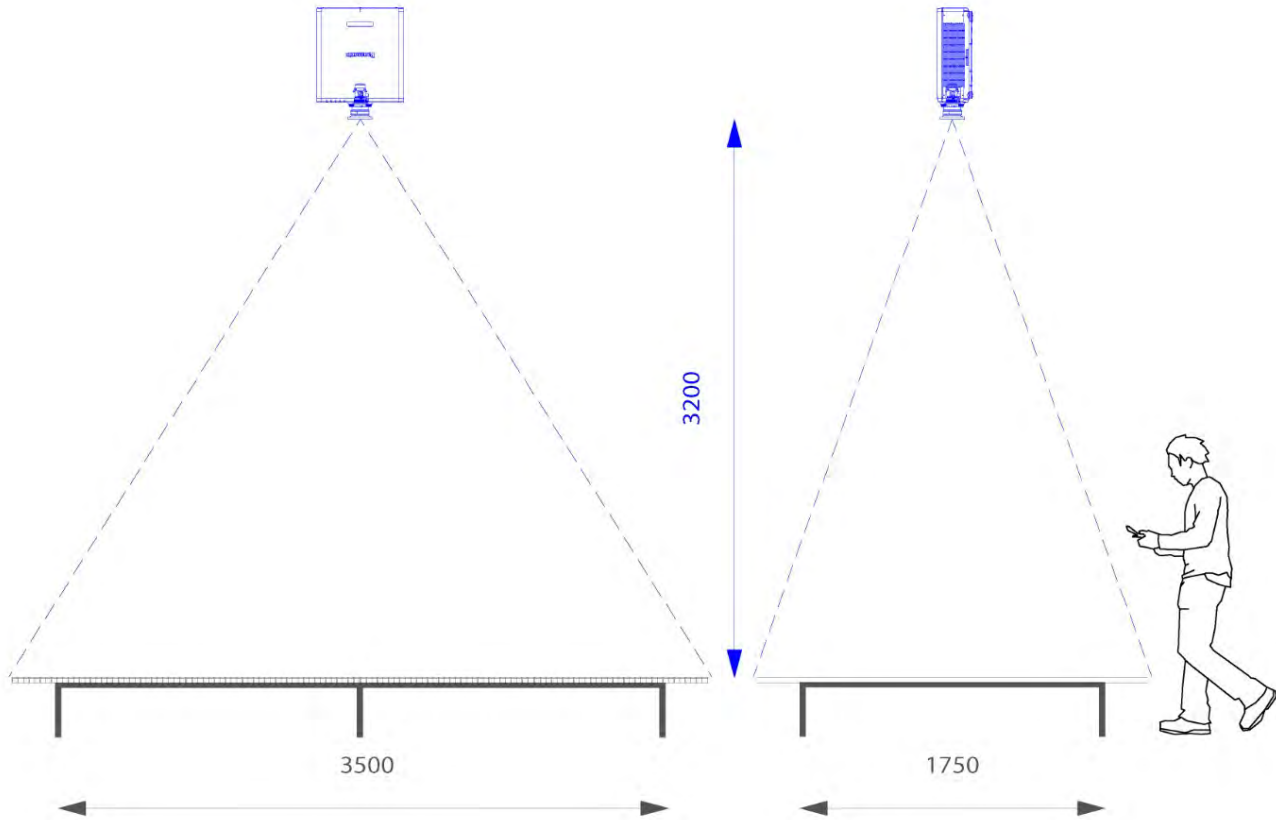


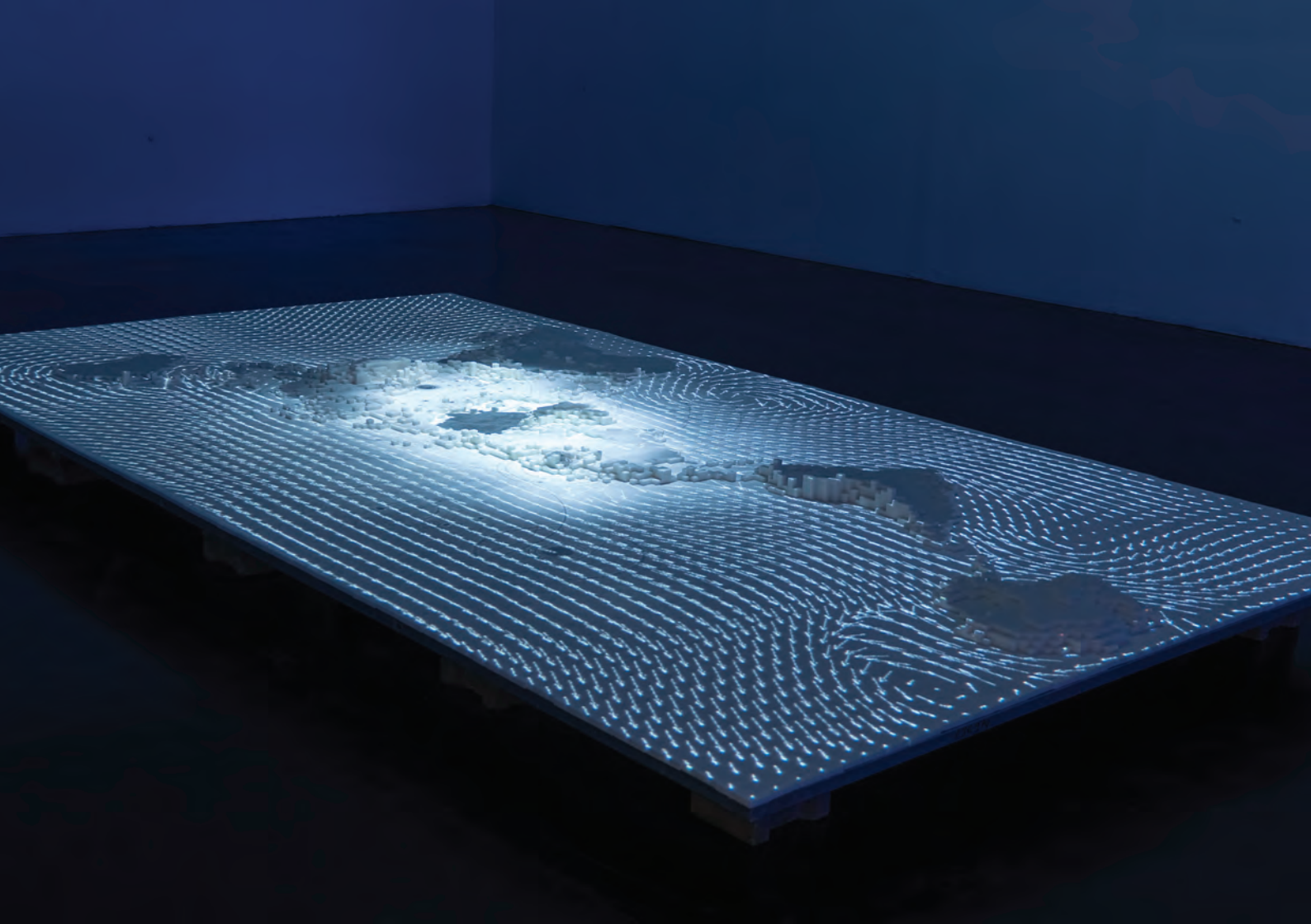
anasonic T-R 0  
anasonic T- 0  
(plan by Endre Ketzel)



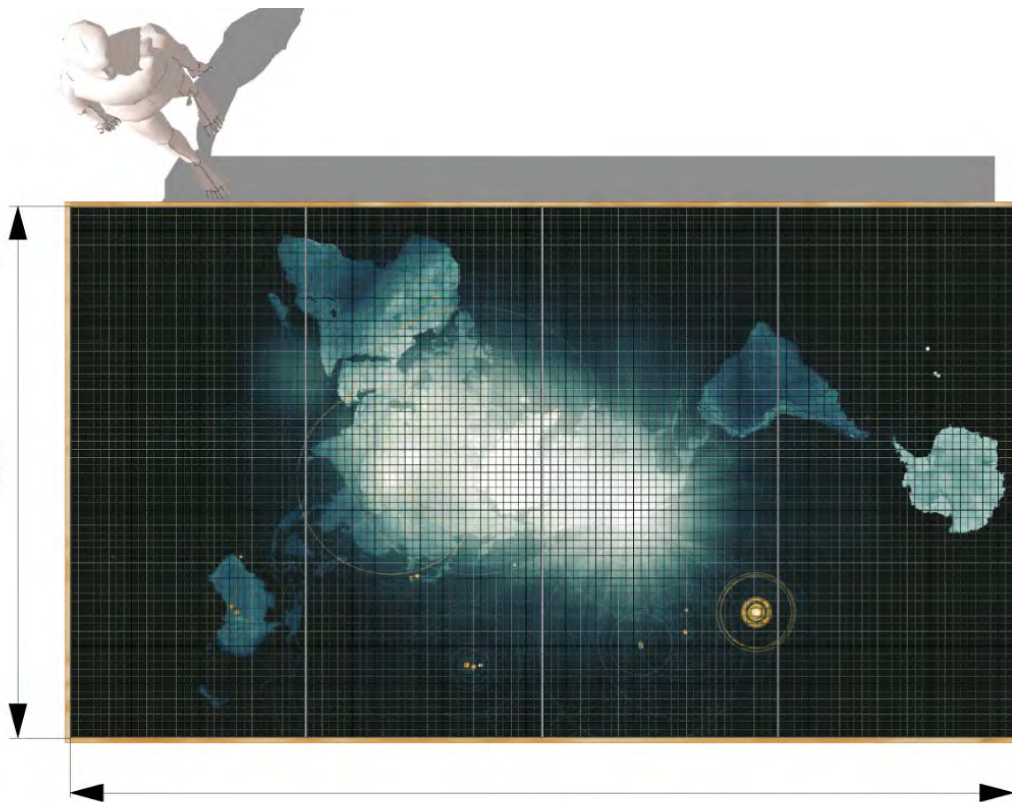








2250



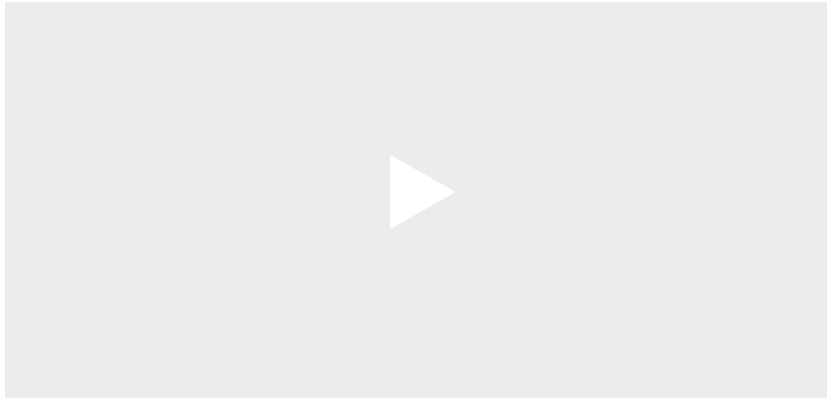
4000



# VIDEO DOCUMENTATION

A documentation of our work incorporating augmented reality (AR) can be found at:

<https://www.youtube.com/watch?v=8WfEg6jo9Us>



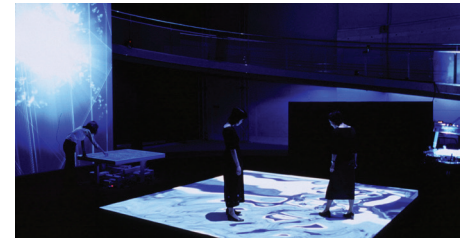


# ARTIST

**Michael Saup** has acted as professor of digital art at HfG/ZKM University in Germany and as founding director of the Oasis Archive of the European Union. Among others, his work has been awarded by the Ars Electronica and the UNESCO Commission.

<https://immersive.earth>

<http://1001suns.com>



*R111, Tokyo 2001, interactive installation*

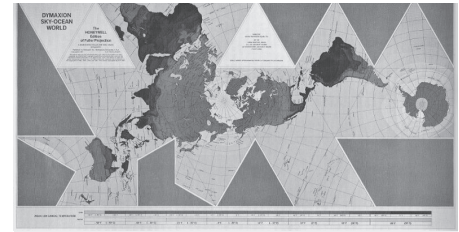


*Frankfurt Airport Tunnel 1997-2007*



# INSPIRATION

The Dymaxion map was developed in the year 1943 by Richard Buckminster Fuller who “by 1954, after working on the map for several decades,” finally realized a “satisfactory deck plan for Spaceship Earth.”



**Richard Buckminster Fuller** (1895 – 1983) was an American architect, systems theorist, author, designer, and inventor who devoted his life to developing tools and processes to make the world work for 100% of humanity.  
<https://www.bfi.org/about-fuller>



# COLLABORATION



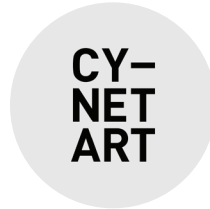
## SHUICHI FUKAZAWA

Independent curator, researcher and artist. Creates essential dialogue between insiders and outsiders of political systems and the industry of consciousness. His latest work includes the concept for the complete renovation of the Tokyo Metropolitan Police Museum.



## WITH THE HELP OF

Andrea Winter, Andreas Erhart, Li Alin, Nicole Pesant Méalin, Rosa-Lee Sendlinger, Nadine Bors, Ulf Langheinrich, Knut Bressgott, Laura & Emily Winter, Karolina Funk, Acci Baba, Silke & Uwe Buhrdorf, Endre Ketzel, Thomas Dumke & the team at CYNETART Dresden



## CYNETART

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<http://www.cynetart.org>