



## **МАЙКЛ ПУКШТА**

AIA, директор Департамента медицинских проектов в Cannon Design, США

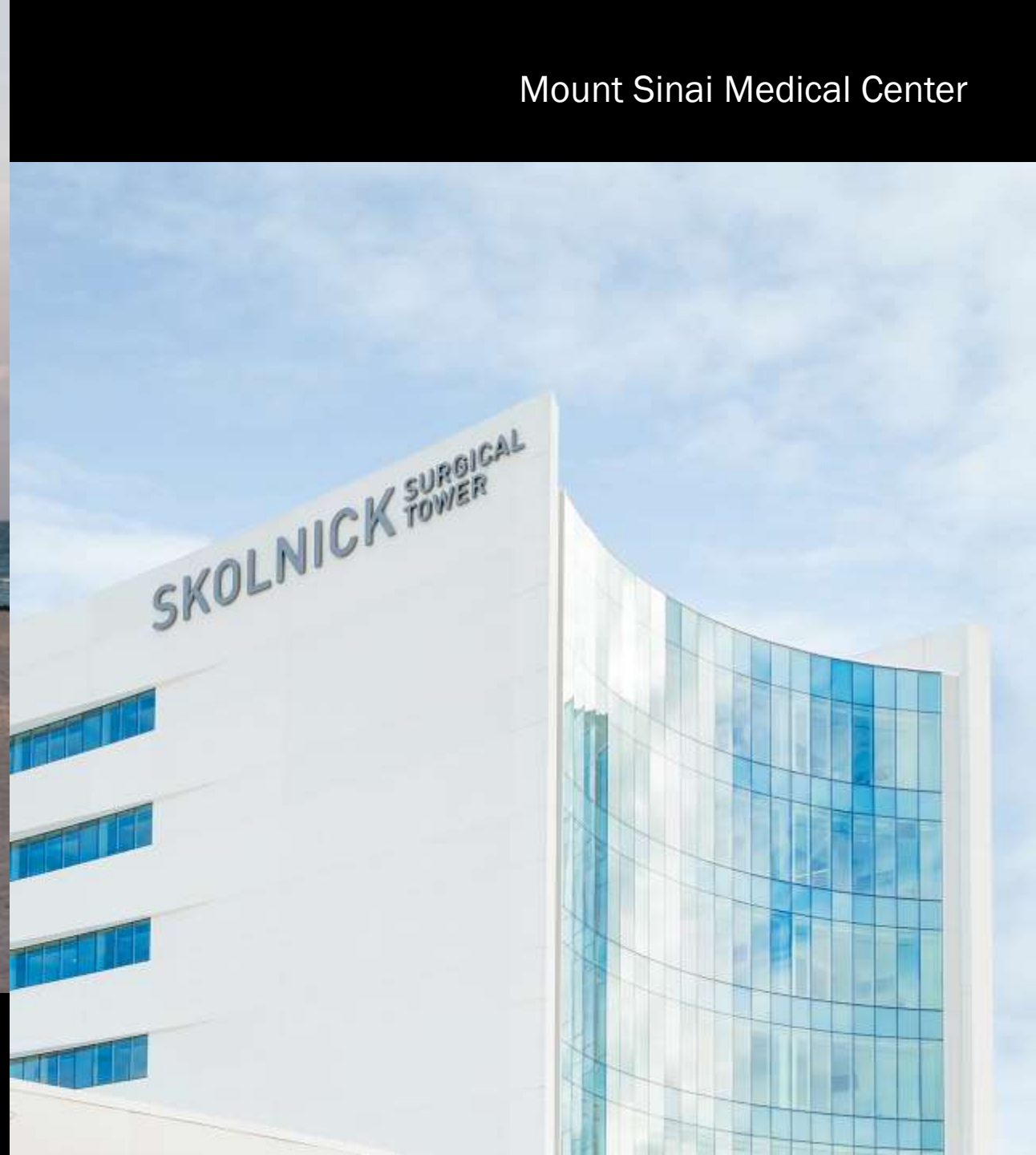
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## **MICHAEL PUKSZTA**

AIA, Director of Department of Medical Projects in Cannon Design, USA

# Context-Driven Beauty

Mount Sinai Medical Center

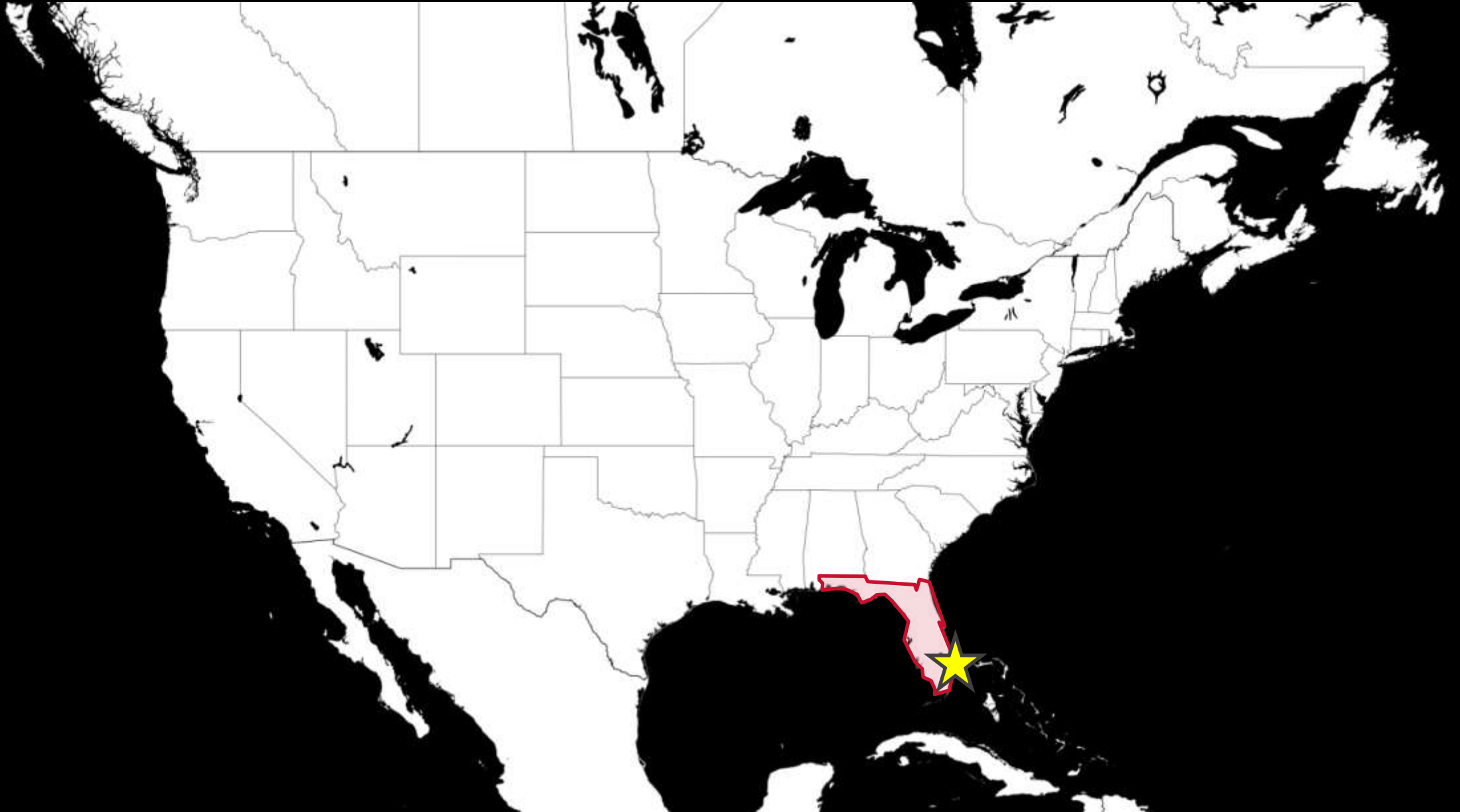


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Our story starts here



On a peninsula



Surrounded by water



With an island



Where man made another island

*Mt. Sinai Hospital, Miami Beach, Florida*



That grew



And grew



And then somebody decided to build a hospital here

Lets Build Hospital Here



That grew



And grew



Island

Into a world-class medical center



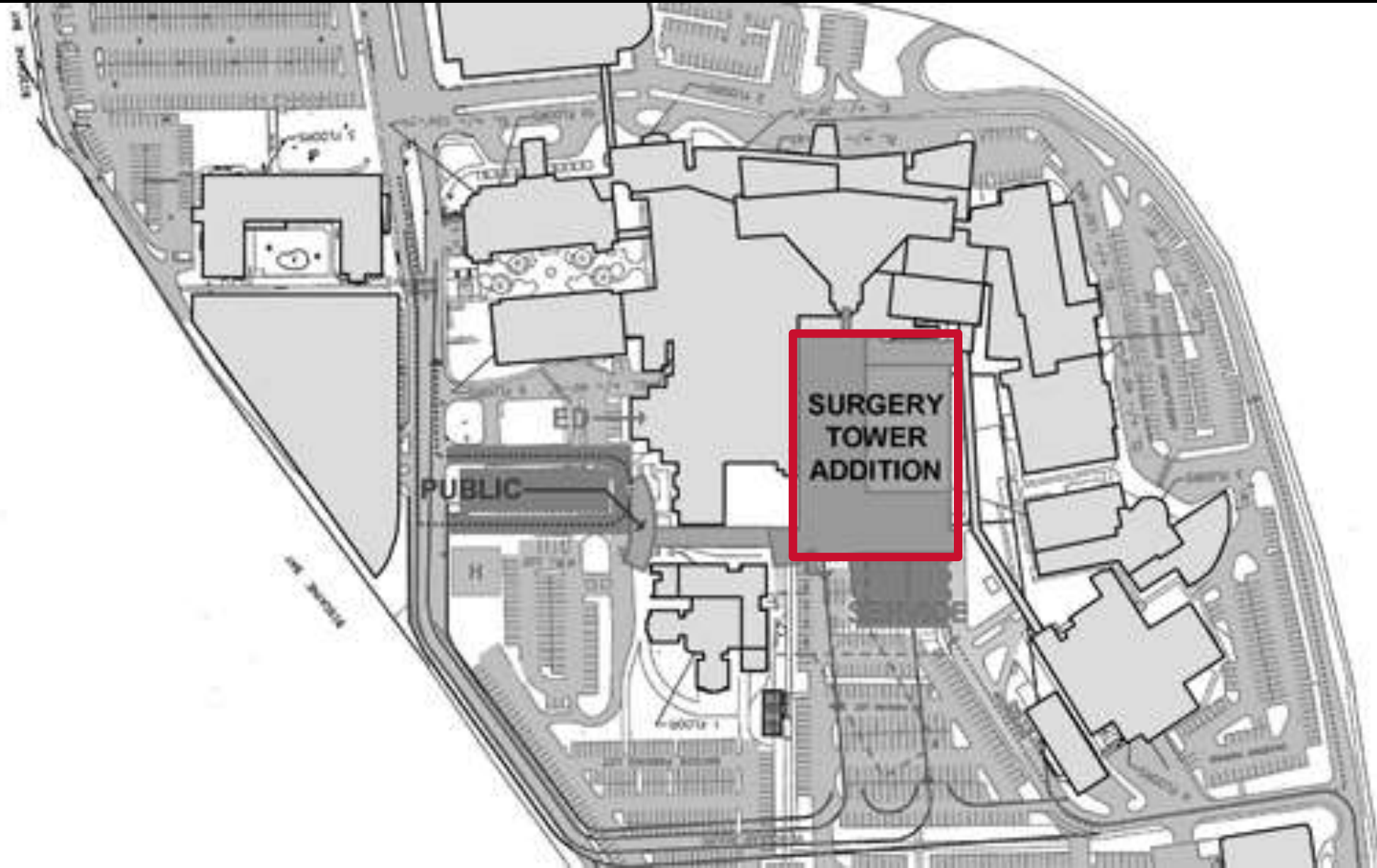
But all was not well



But all was not well



A new building was needed



But this building needs to satisfy not only patients and staff



The hospital has a "defend-in-place" strategy



3-5





**3 bed/1 staff**

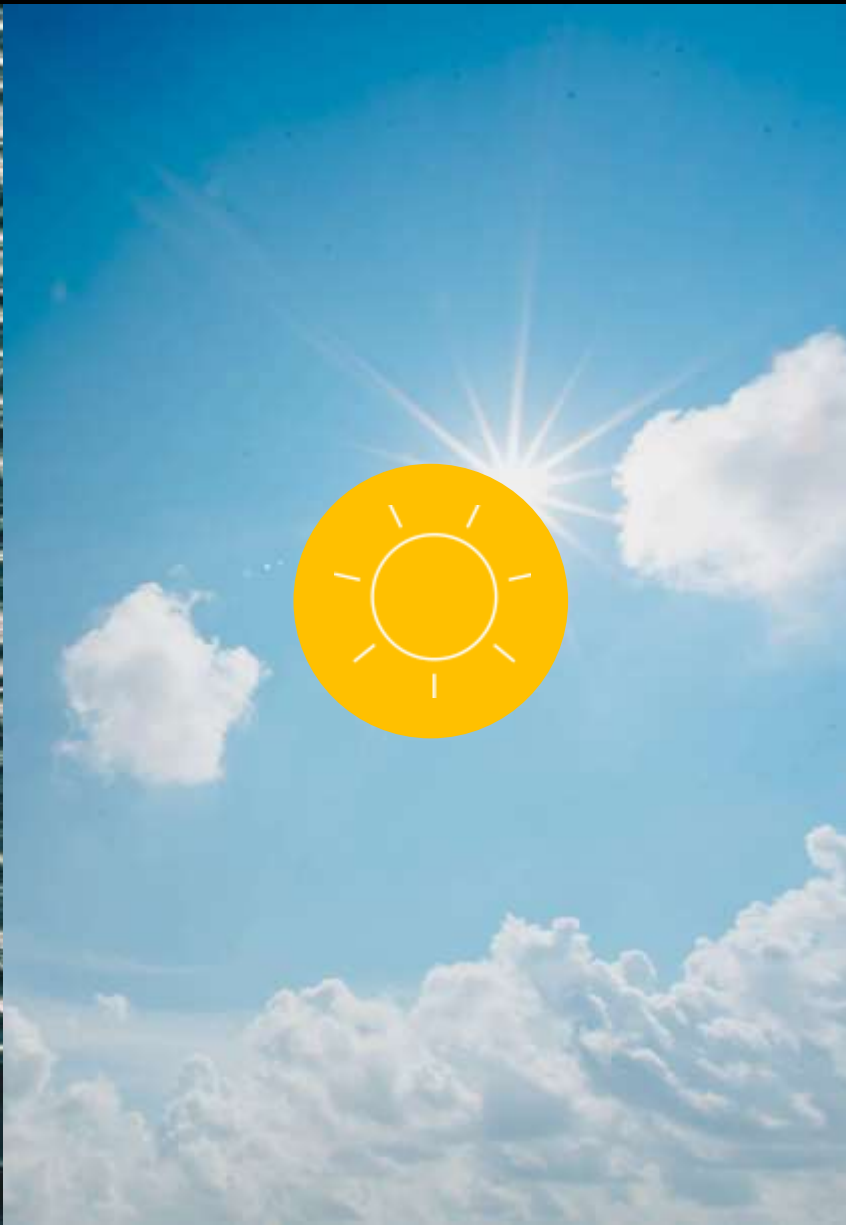
# 3-5 days



# Only Hospital on the Island



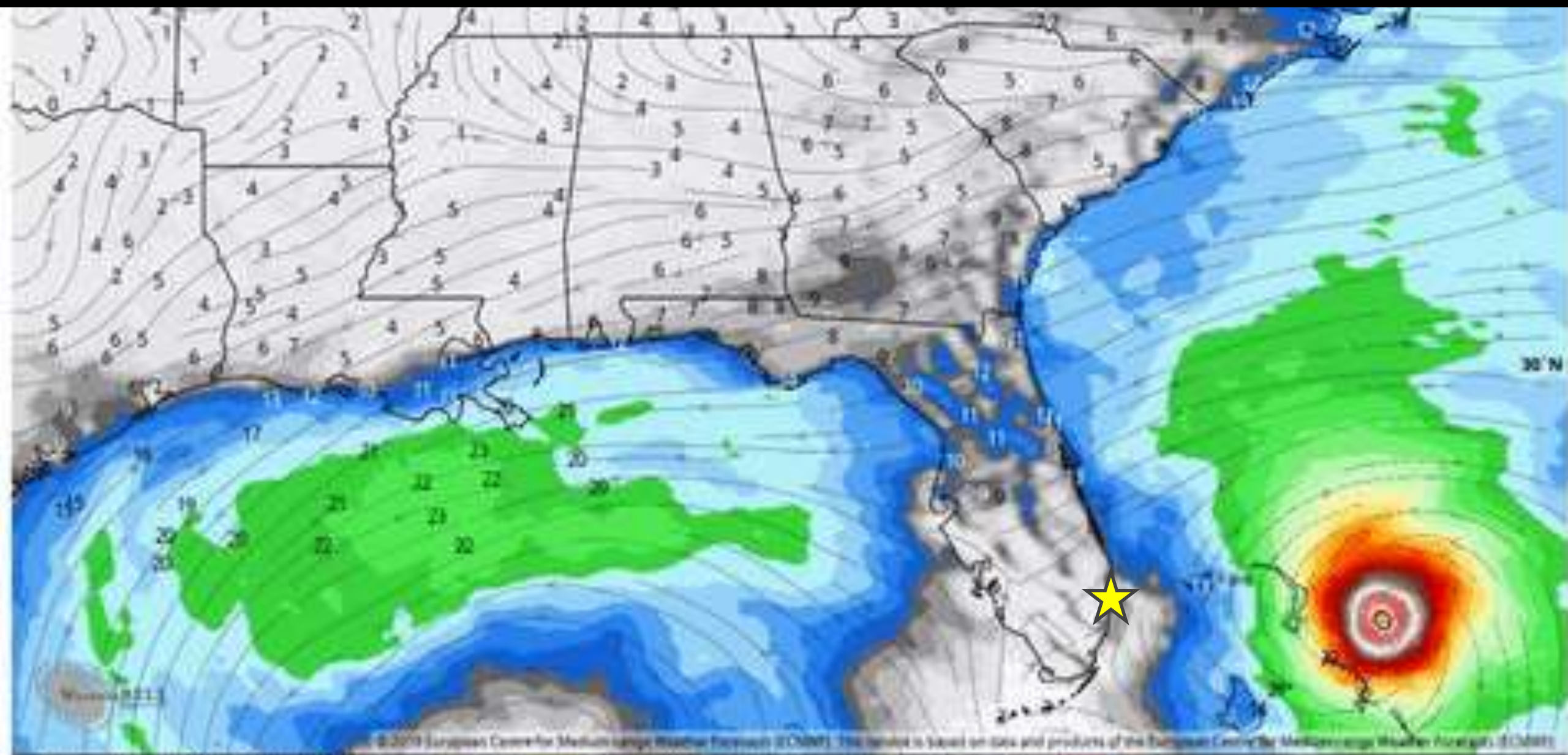
**It needs heroic technical solutions to solve some big issues**



# Water



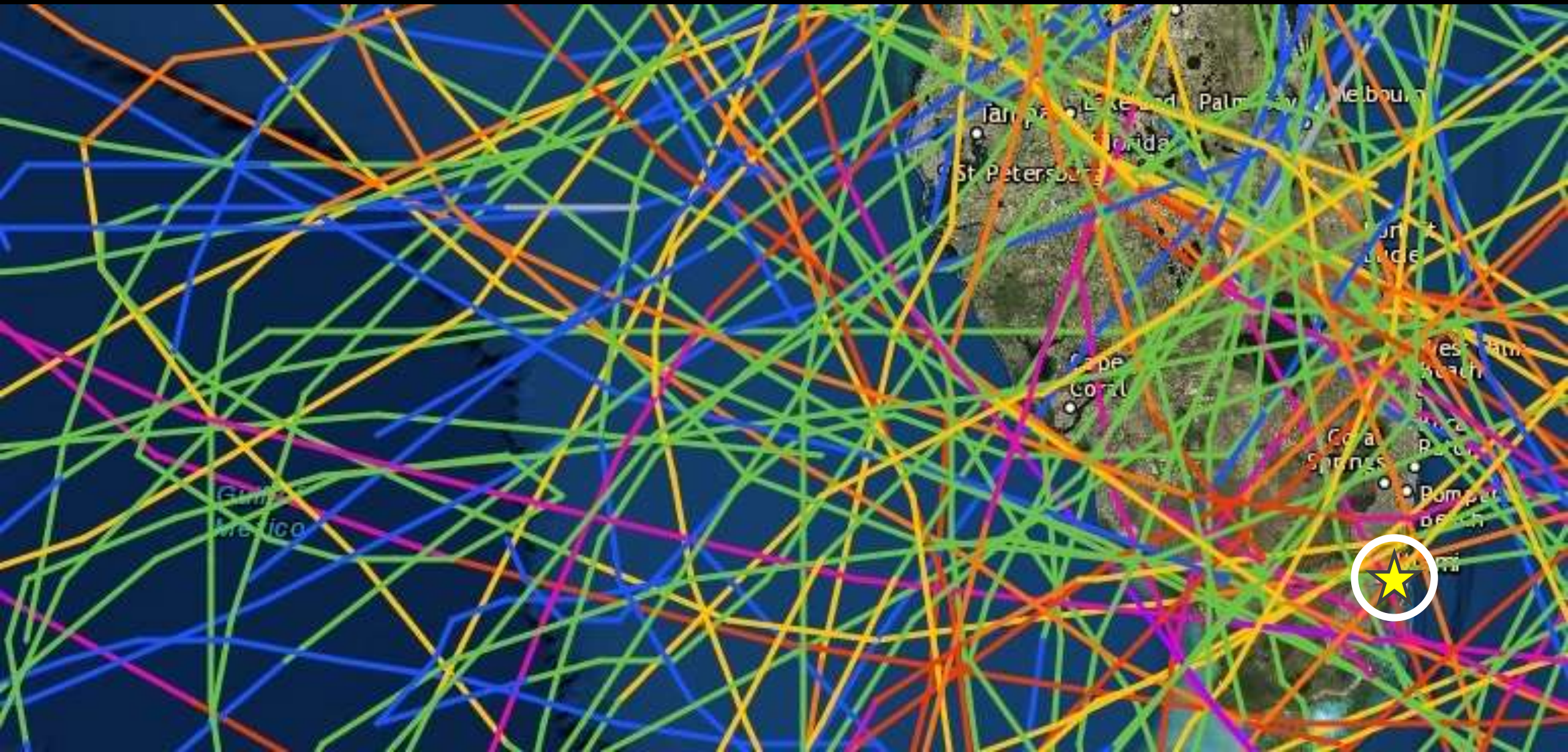
Lots of it



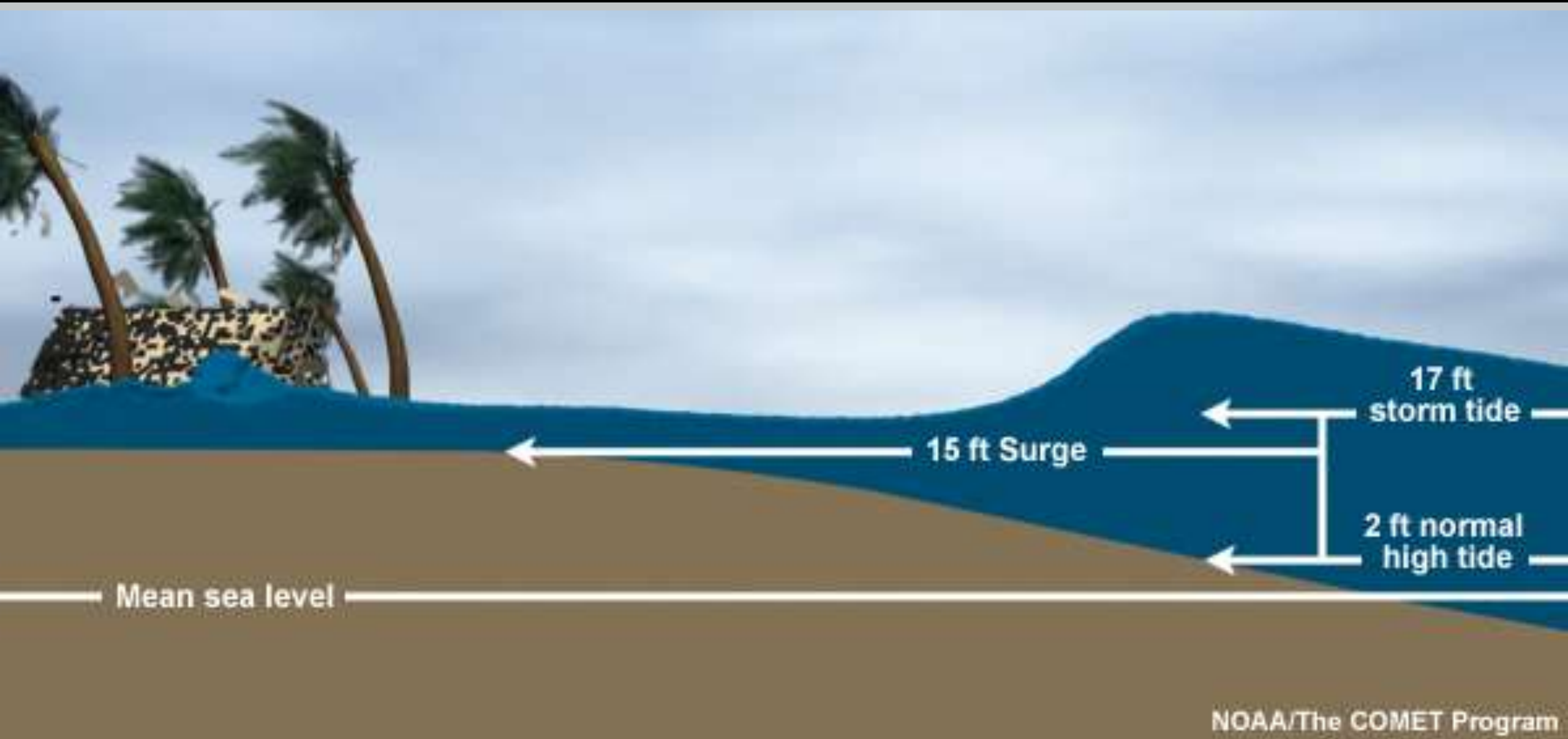
«Разрушительные ураганы  
никогда не поразят Россию».

Роман Вильфанд Российский метеорологический центр

And often



Water comes in a surge – up 5 meters



And can overtake land



We brought in some dirt



Lots of it



The entire site was raised 3 meters



And a sea wall was built



And water from below had to be stopped as well



Lots of rain required a huge canopy



# Wind



Really strong wind – 250 kph



That destroys normal construction



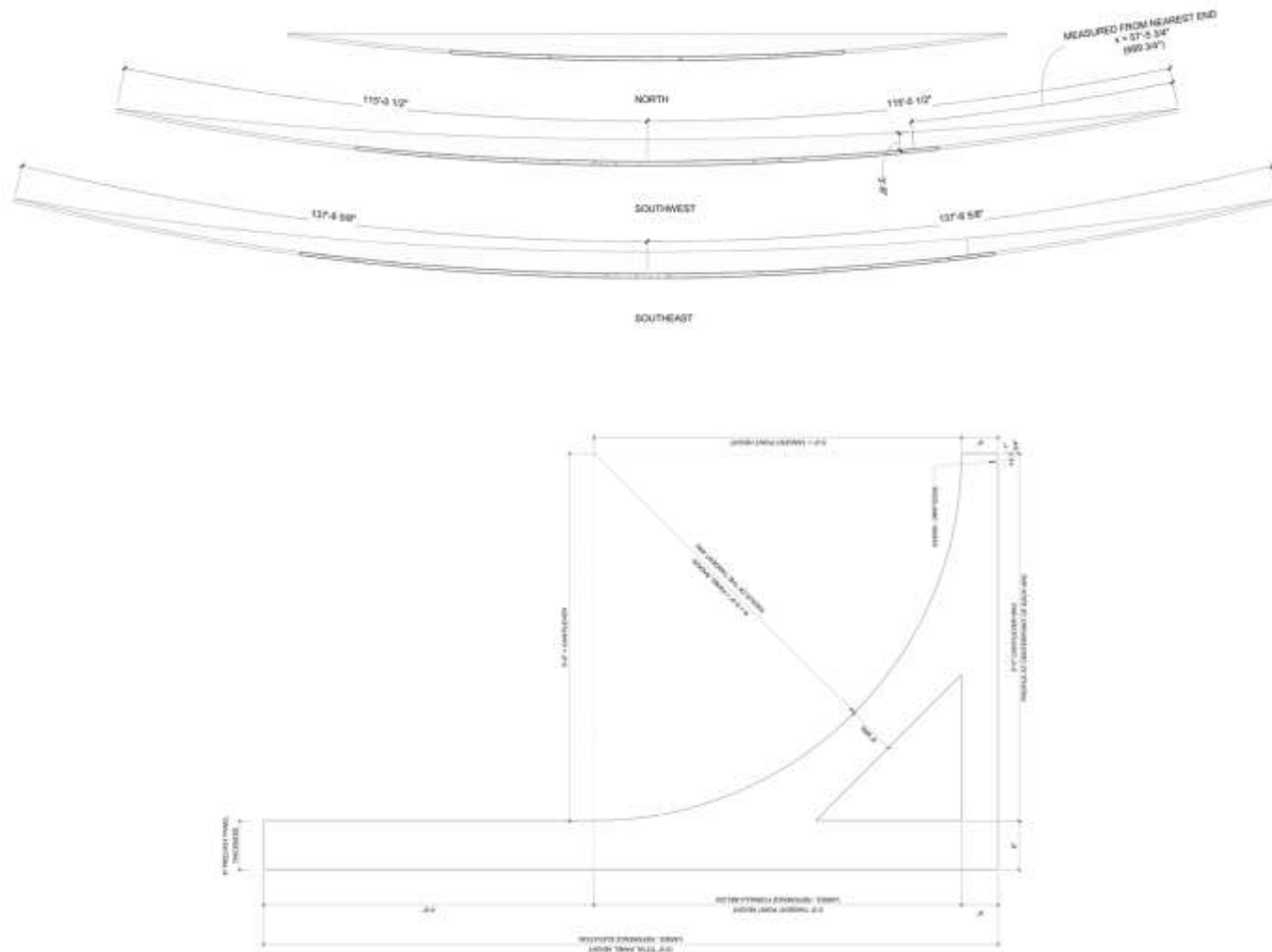
# Requiring an extra-strong skin



Made of reinforced concrete



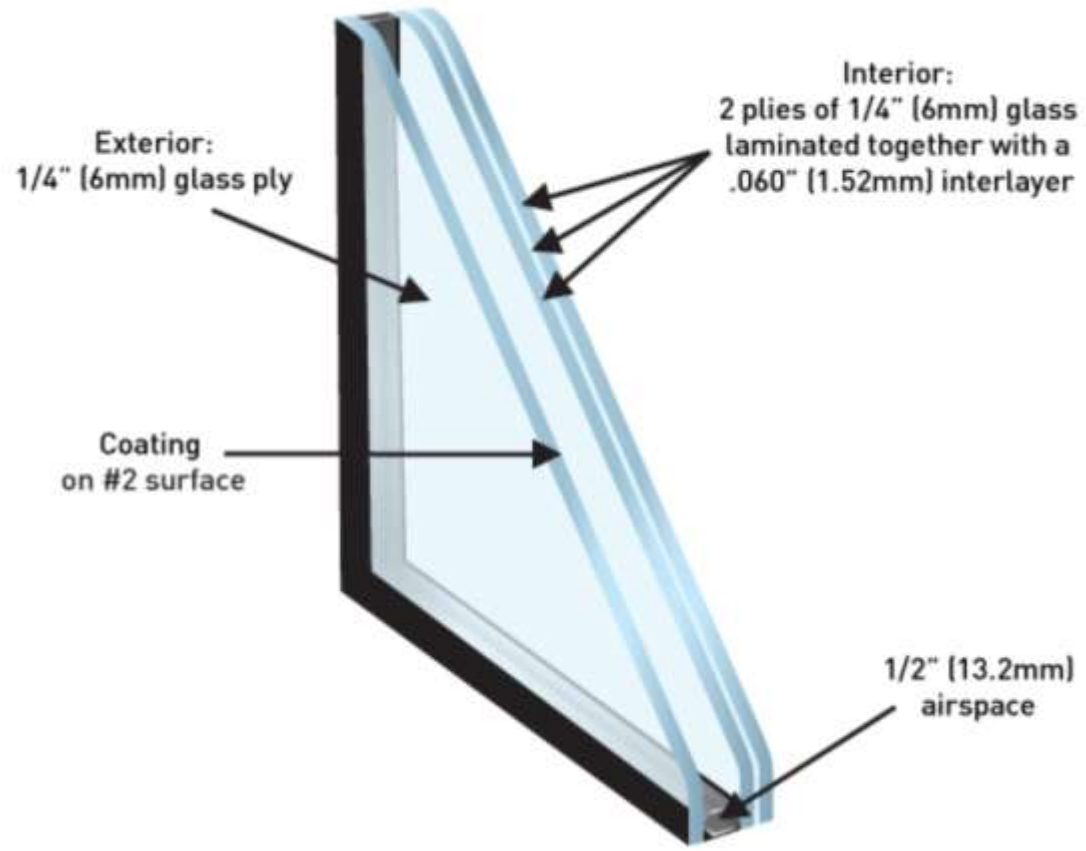
# Bent to form the exterior shape



Our BIM model saved the day



# And strong windows



Capable of extreme situations – projectile at 15 M/Second



Accommodating wind from any direction



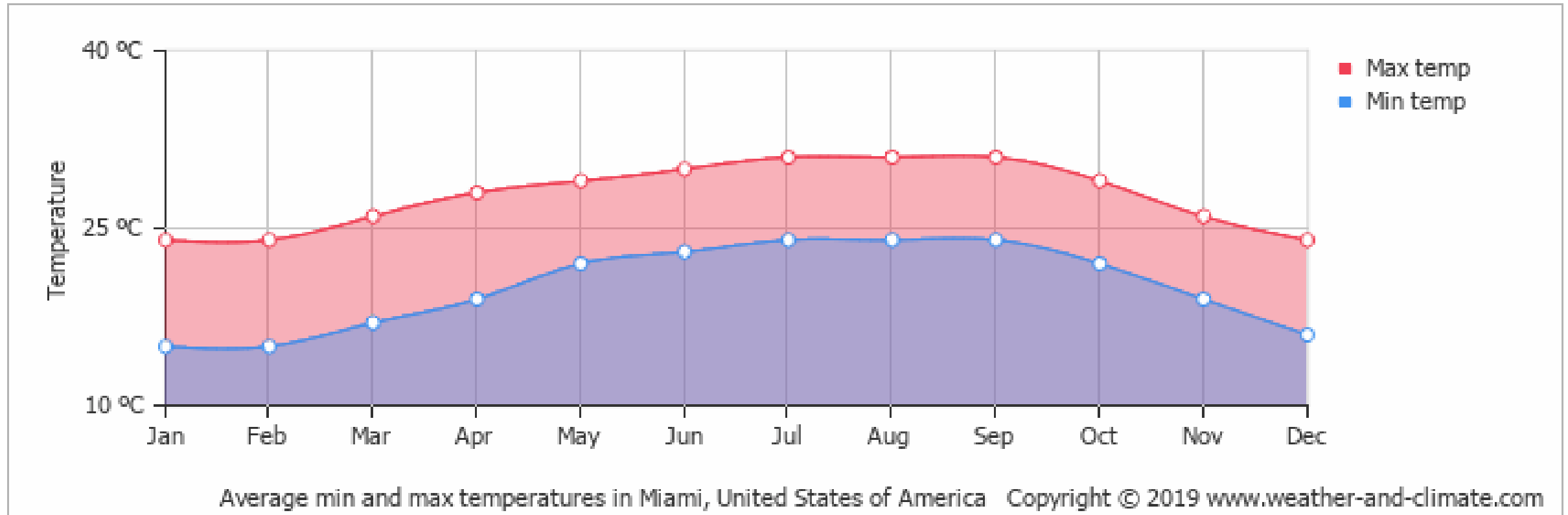
# Sun



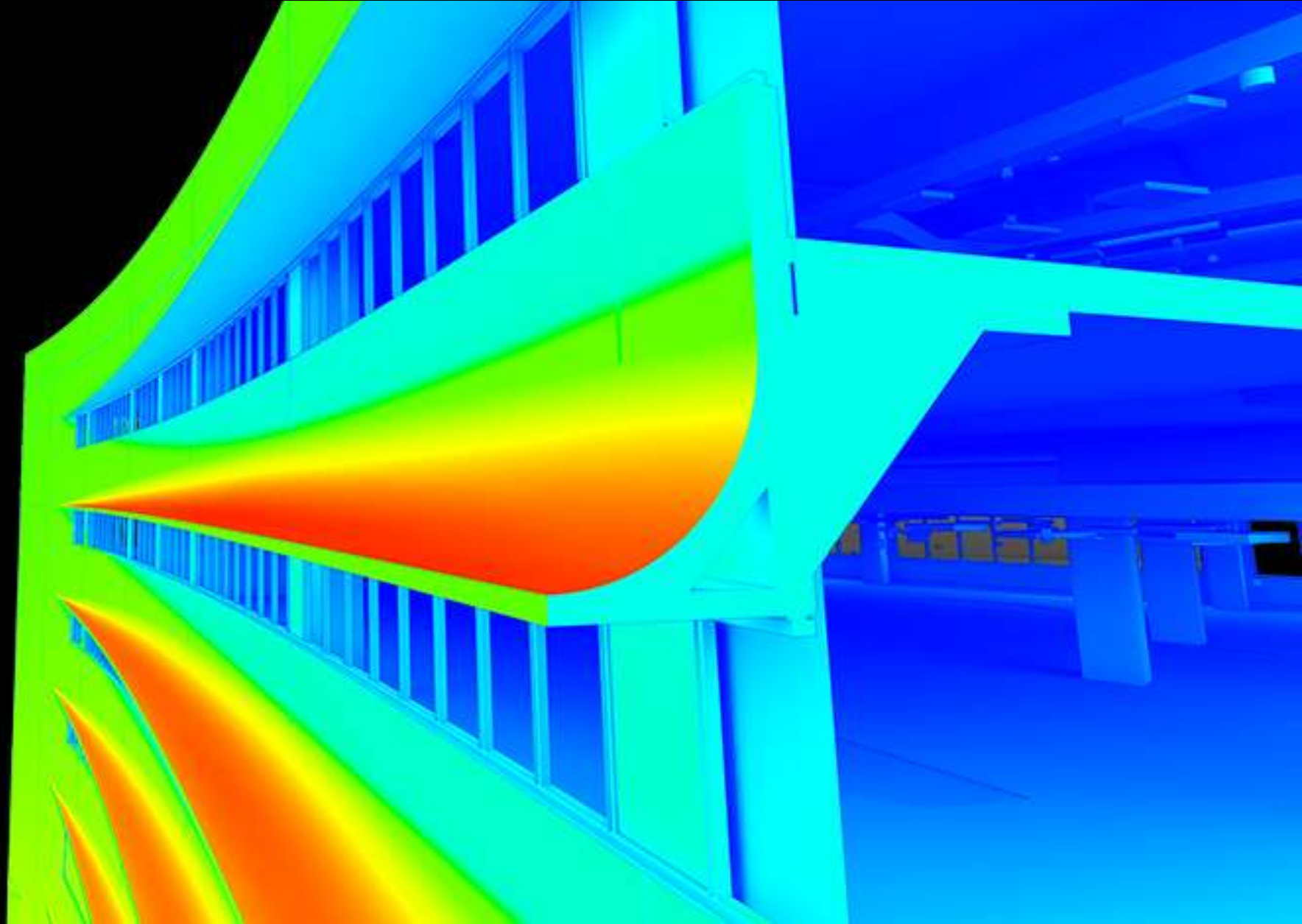
U.S. city with the most sun



# Averages 30 degrees Celsius in summer



Skin was designed to shade from this extreme



Which provided shadows creating architecture



Allowing glass to go from this



To clear



# Redundant Air Handling Units manifolded together



# Redundant Domestic Water Heaters and Return Pumps



# Double-ended Electrical Switchgear



# Redundant Domestic Water Booster Pump



# Redundant Steam Boilers



# Redundant Chillers



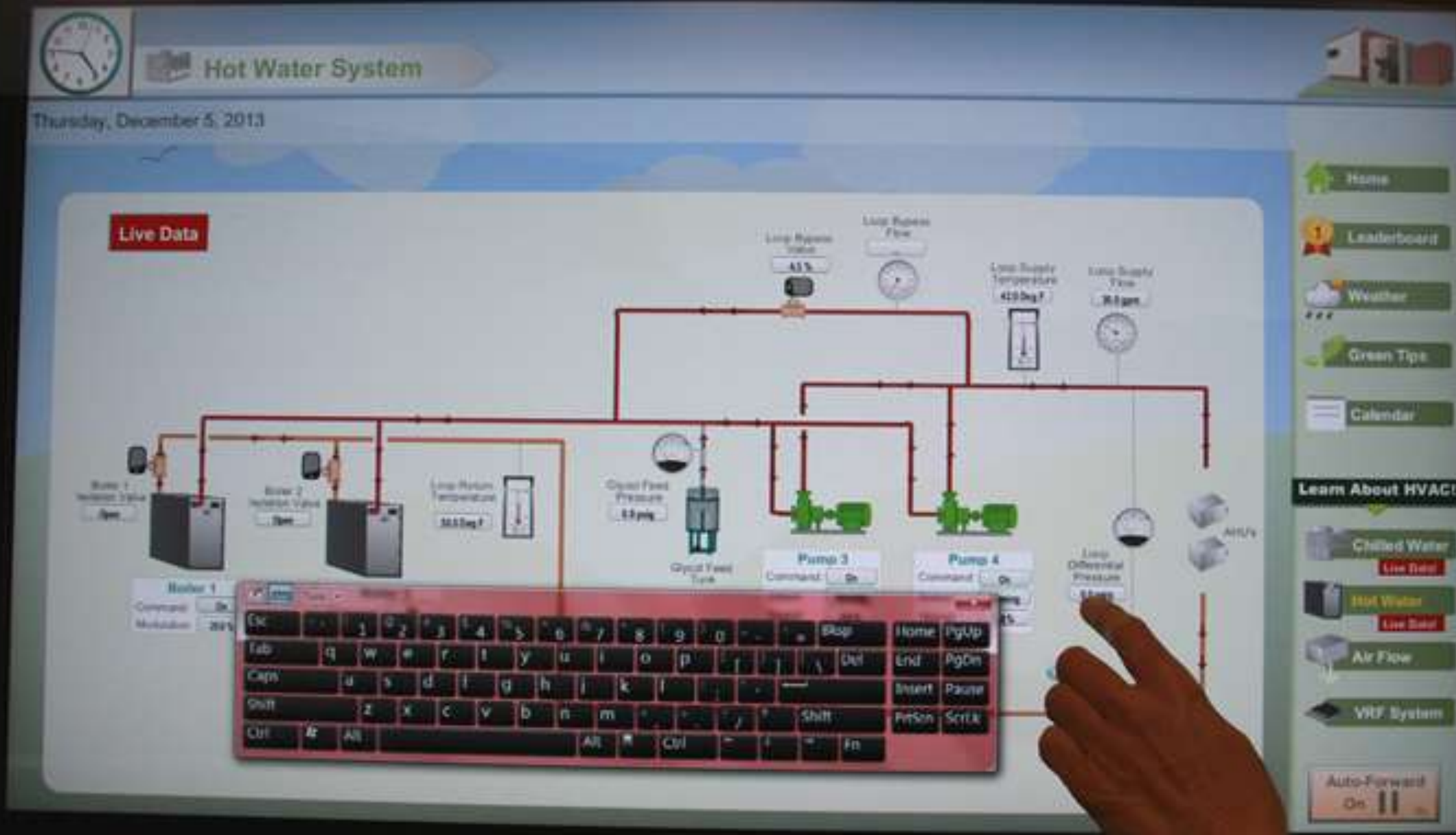
# Redundant Emergency Generators



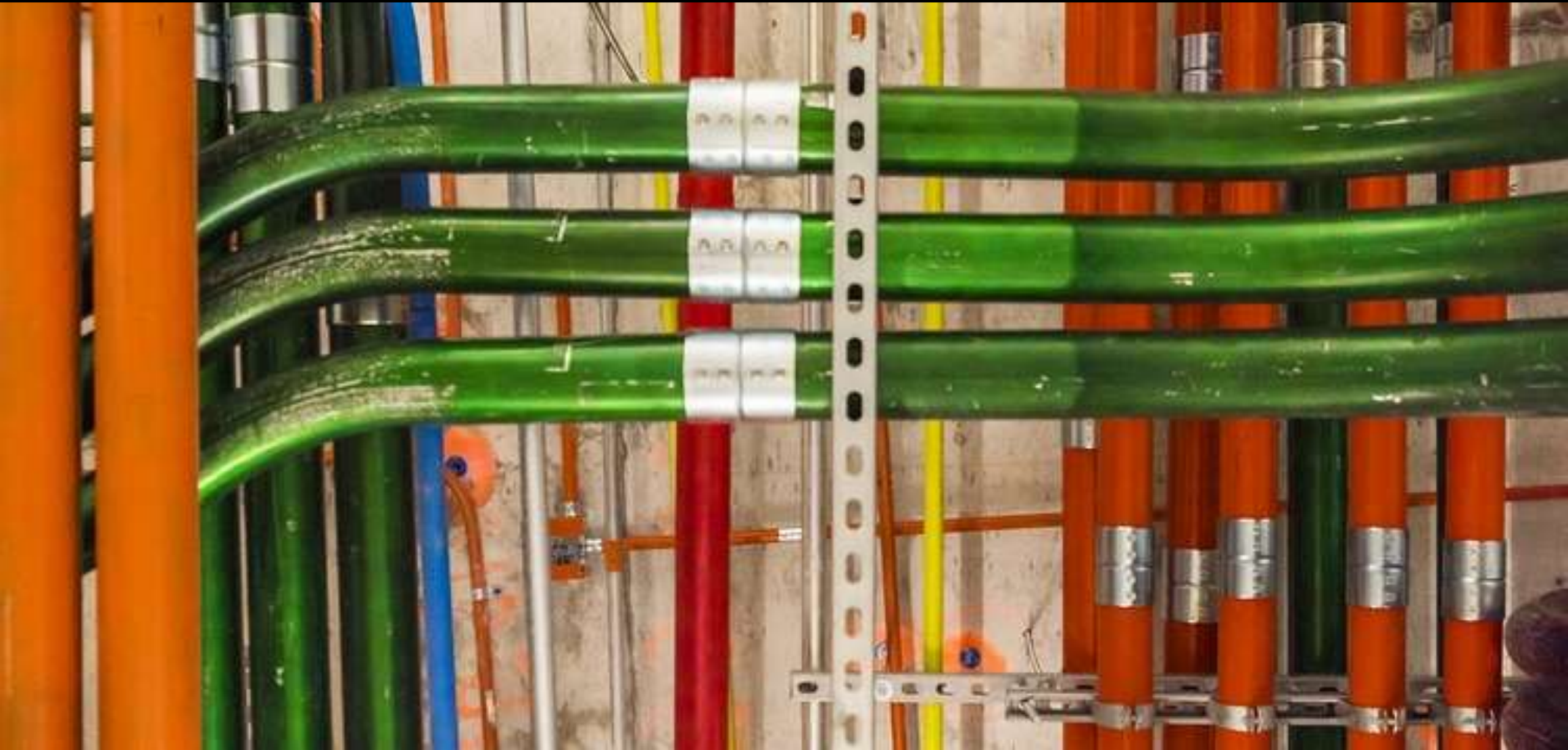
# Water Storage



# Remote Controls



But our story doesn't end with technology aspects....



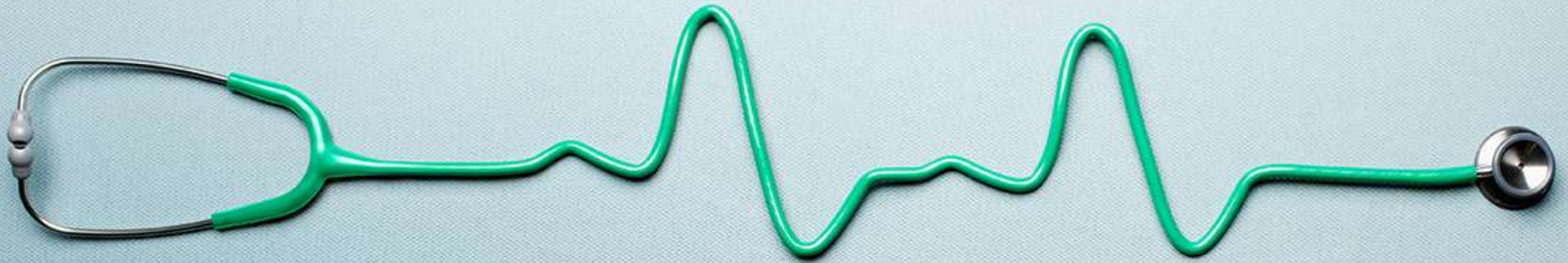
It ends in beauty



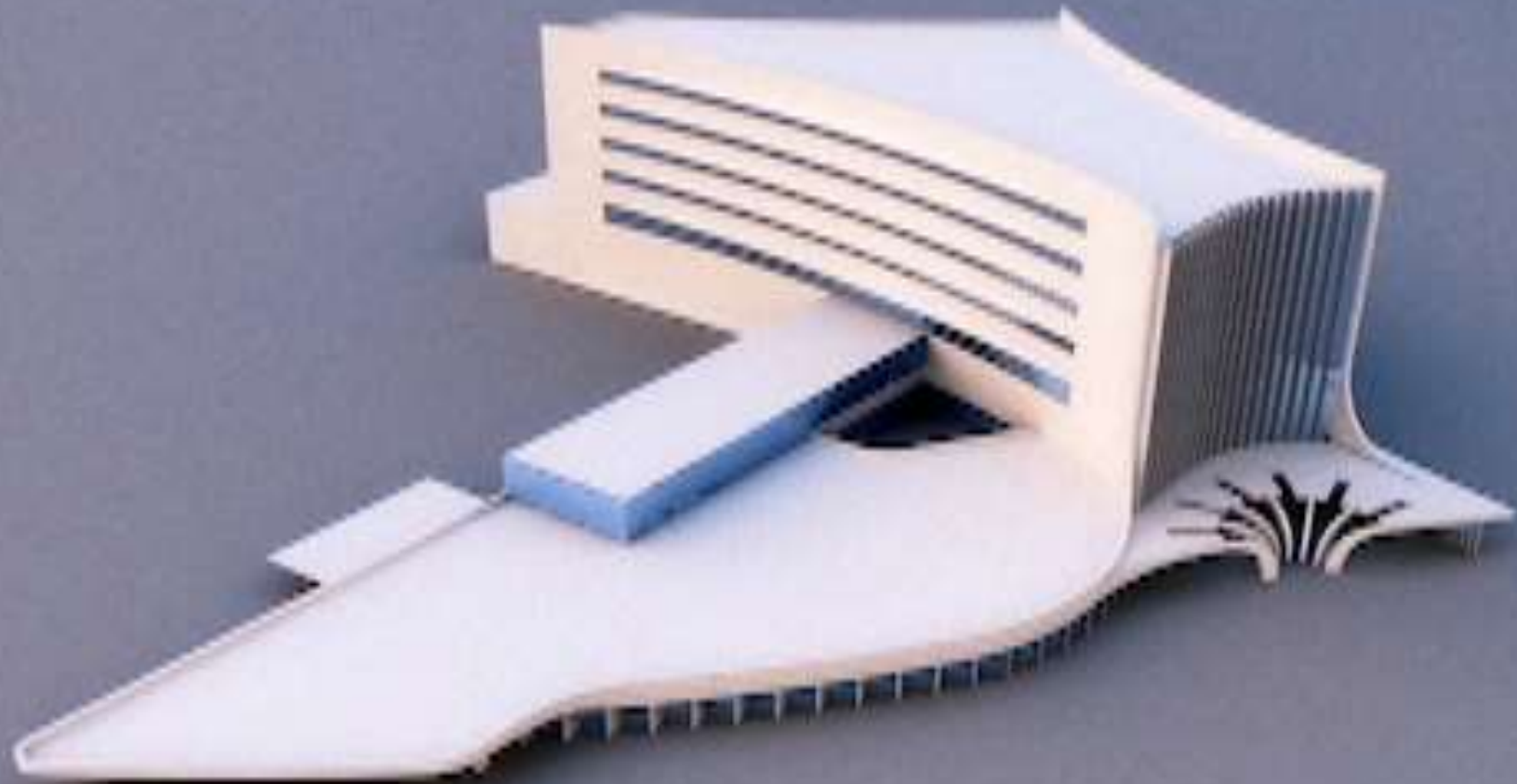
And how technology created beauty



Beauty thought through



Beauty crafted for the program and site



Beauty of construction



Beauty of materials



Beauty of lighting



# Transformation



Beauty of views



# Framing the Miami skyline

## Daphna Cramer Waiting Room Daphna Cramer Family Foundation

*In Memory of Gerald B. Cramer, a Unique Thinker and a True Business Menach  
Builder on Life  
Beloved by His Wife and Family*



Transformation



# Beauty of Organization





Transformation

Beauty of organization



# Transformation



# Simplicity



Beauty of function



# Transformation



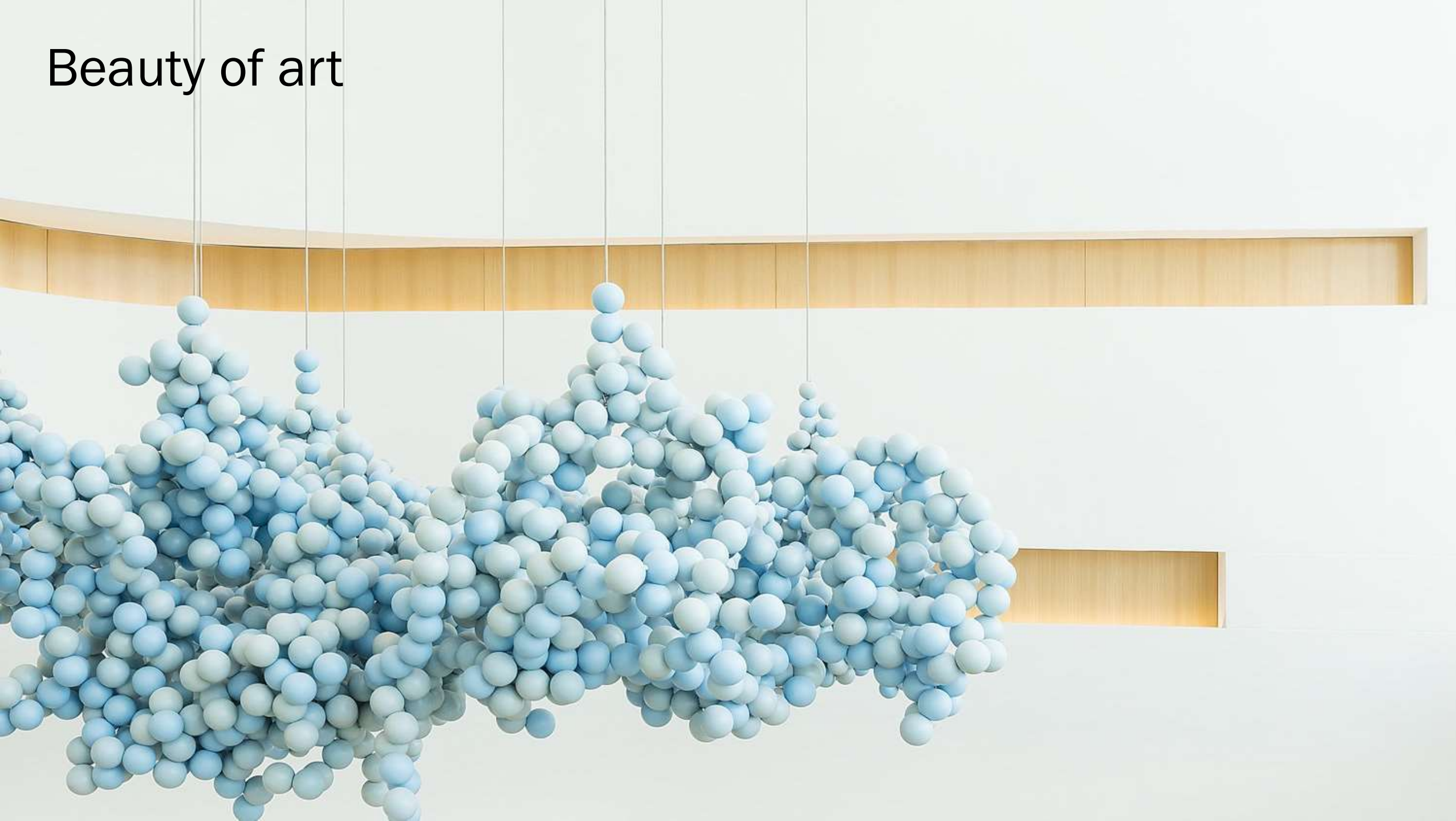
Beauty of function



Beauty of light



Beauty of art



Beauty of function



Beauty of views, exterior



Beauty of views, interior



# Beauty of experience, impactful moments



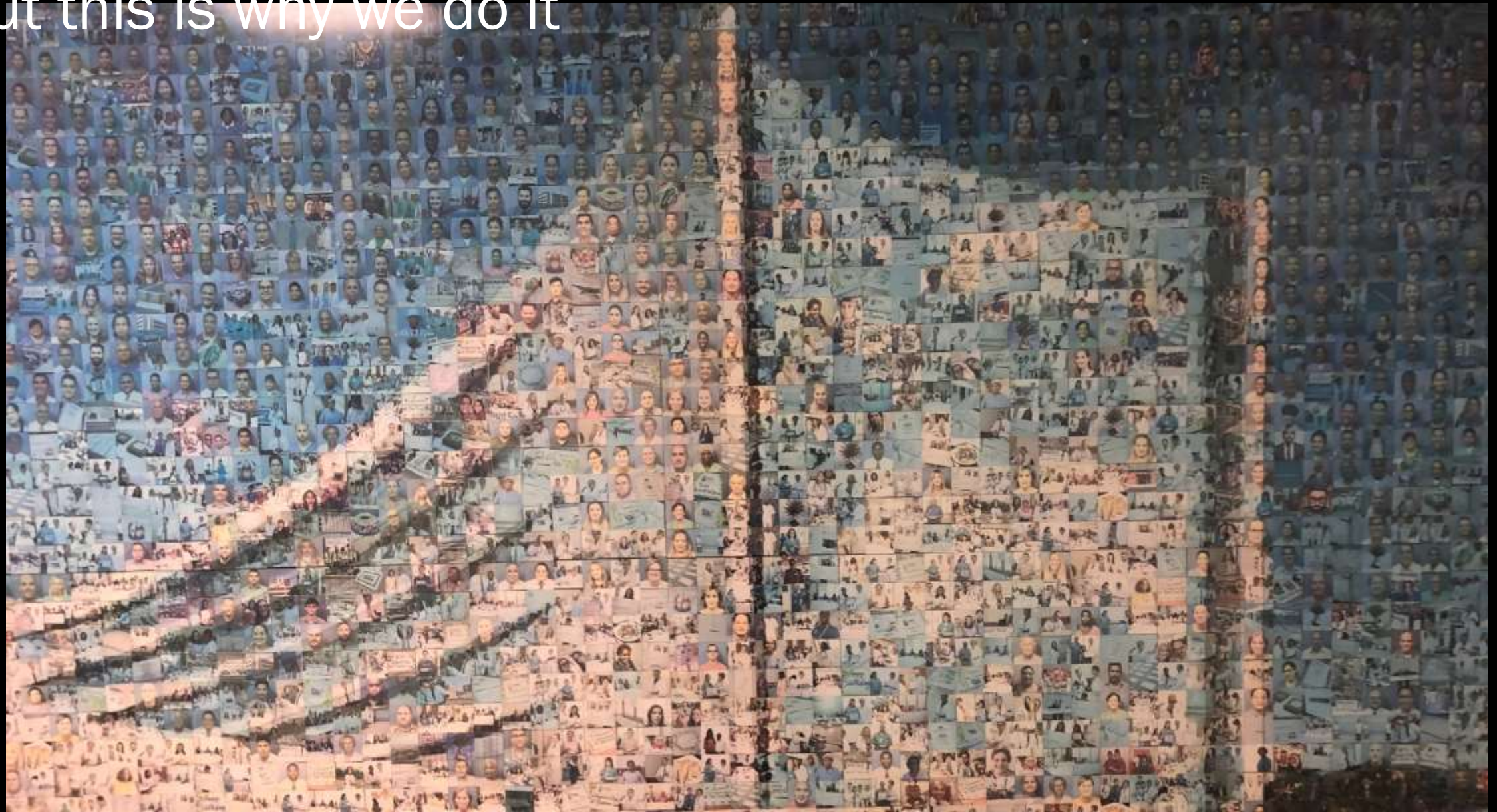
But this is why we do it



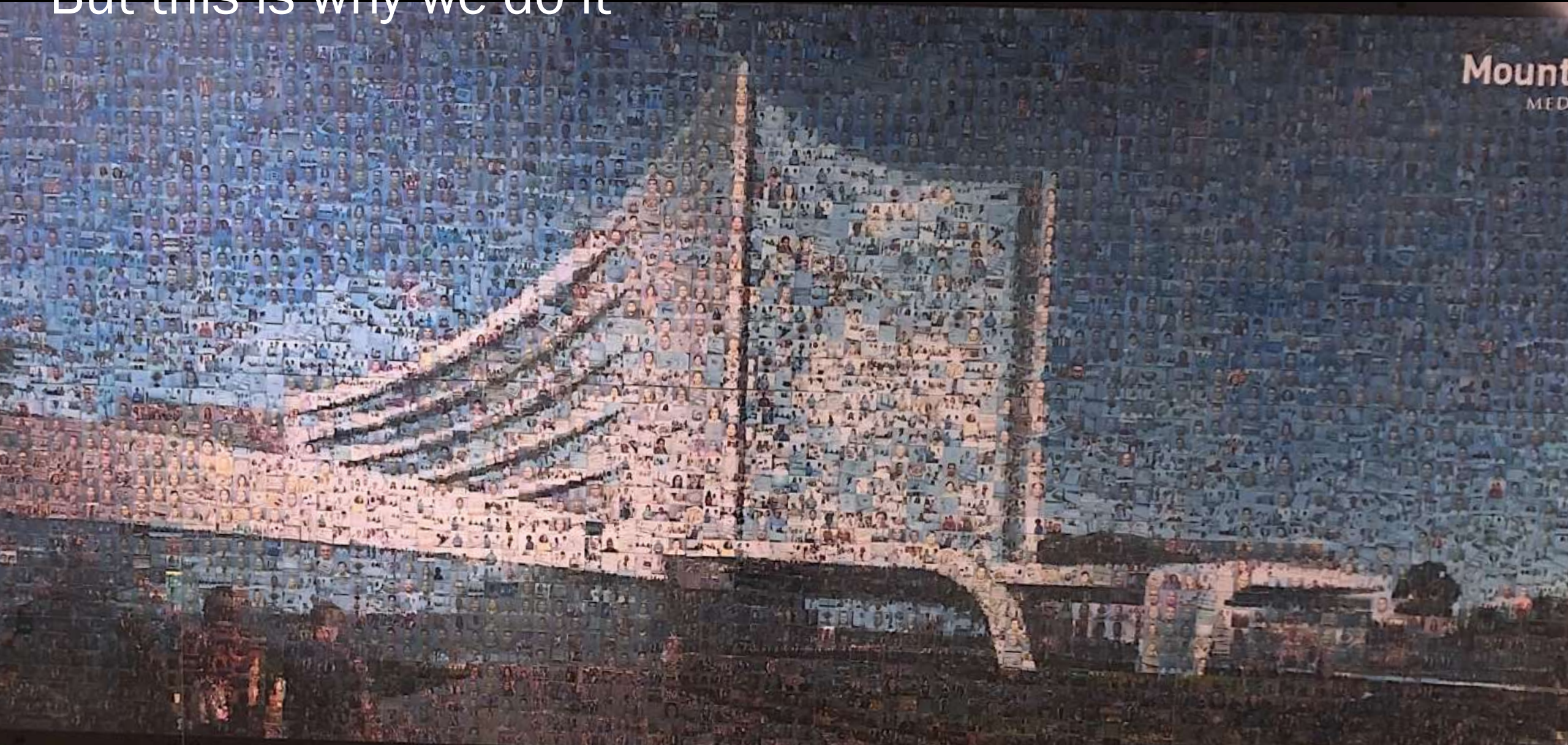
But this is why we do it



But this is why we do it



But this is why we do it



Beauty of results

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