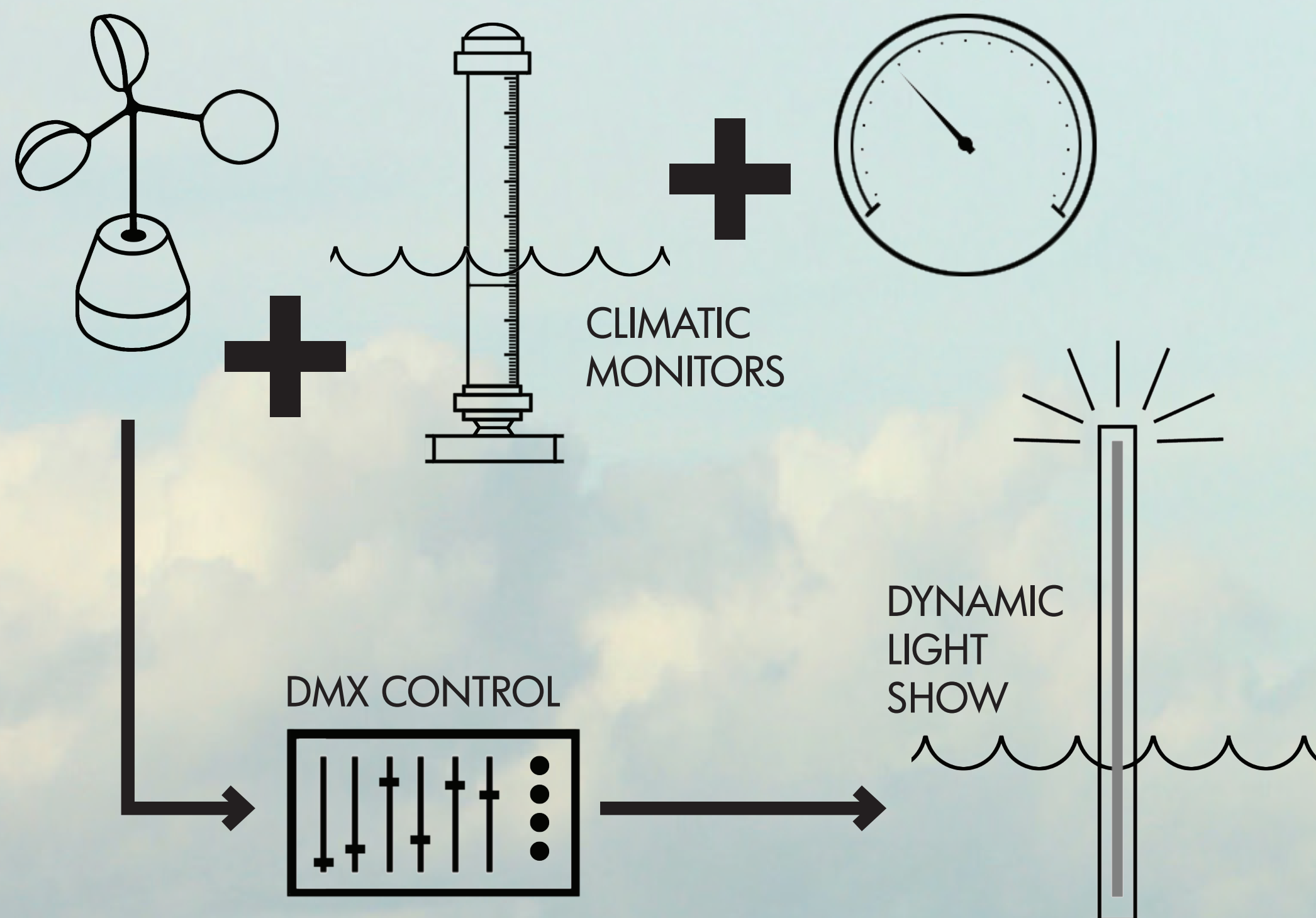


THE VIRTUAL PIER

SMART CONTROLS



DATA COLLECTED BY MARIGRAPH (TIDAL GAUGE), ANOMOMETER (WIND) AND BAROMETER (AIR PRESSURE) IS DIGITALLY TRANSMITTED TO A DMX CONTROLLER, WHICH HAS THE CAPABILITY OF CHANGING THE LIGHT DISPLAY OR EVEN ADDING A MUSICAL COMPONENT TO PRE-PROGRAMMED SHOWS. TWO-WAY DMX SMART TECHNOLOGY ALSO ALERTS OF PROBLEMS WITHIN THE SYSTEM, SIMPLIFYING MAINTENANCE AND REPAIRS IN A DIFFICULT MARINE ENVIRONMENT.

ELEVATION 55.00'
TOP OF TURBINE

ELEVATION 25.00'
TOP OF DECK

ELEVATION 07.30'
MEAN HIGHEST TIDE

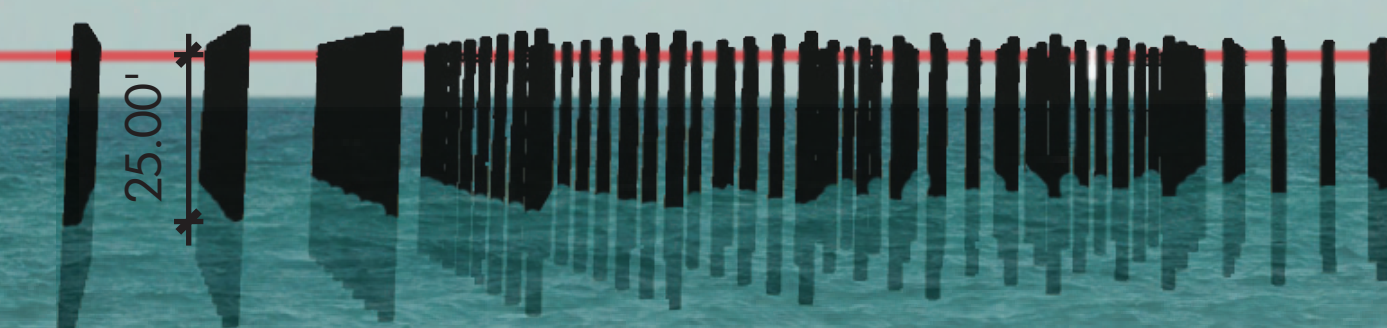
ELEVATION -02.00'
MEAN LOWEST TIDE

PIER LEVEL
ELEVATION -16.00'
MUDLINE

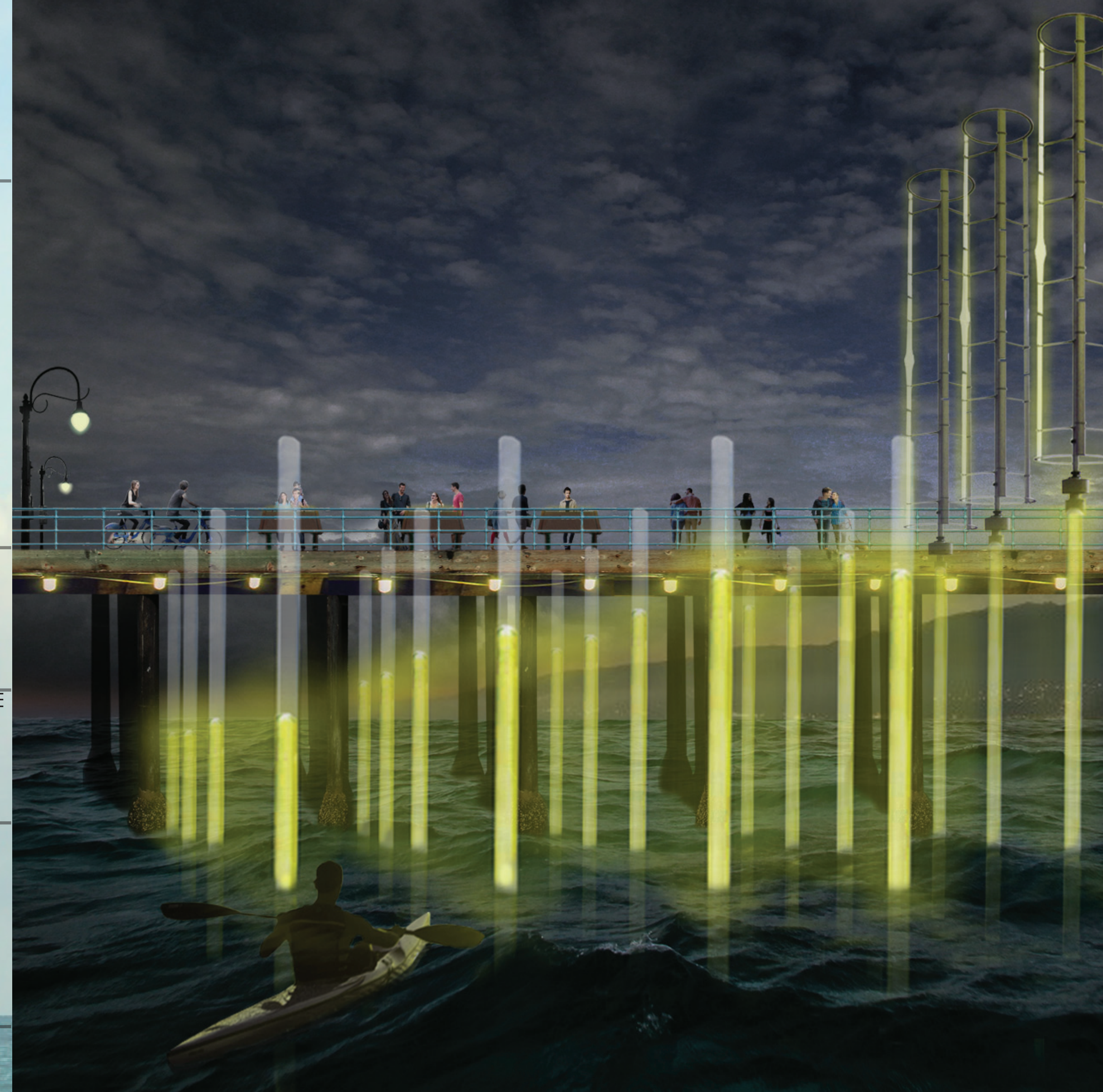
TYPICAL HIGH TIDE EXPOSURE



TYPICAL LOW TIDE EXPOSURE



PIER LEVEL



A NEW ICONIC ATTRACTION: KINETIC LIGHTS—MOUNTED INSIDE EXTRUDED ACRYLIC TUBES—EBB AND FLOW WITH TIDAL CHANGES. INFORMATIONAL PLACARDS AT PIER LEVEL EXPLAIN THE MEANING OF COLOR CHANGES, LIGHT PATTERNS, AND THE ALTERNATIVE POWER SUPPLY. AN ESTIMATED 3 MILLION PEOPLE VISIT THE PIER EACH YEAR, OFFERING UNSURPASSED EDUCATIONAL OPPORTUNITIES.



DYNAMIC LIGHT SHOWS: PROGRAMMABLE LUMINAIRES WILL RESPOND TO TIDAL CHANGES, FORECAST WEATHER WARNINGS OR CELEBRATE HOLIDAYS AND FESTIVIES. POWERED BY 8 VERTICAL AXIS WIND TURBINES LOCATED ALONG THE WEST EDGE OF THE PLEASURE PIER, THEY ARE OBSERVABLE FROM THE PIER DECK BUT OTHERWISE DON'T INTERRUPT THE PANORAMA OF THE LIGHT INSTALLATION.