



ai • weather

ANALYSIS OF ROAD SURFACE CONDITIONS,
WEATHER AND VISIBILITY

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ai • weather

IT IS THE VIDEO ANALYTICS APPLICATION THAT, THROUGH THE USE OF DEEP NEURAL NETWORKS, ENABLES MONITORING OF **ROAD SURFACE CONDITIONS** (DRY, WET, OR FLOODED) AND **ENVIRONMENTAL WEATHER CONDITIONS**, DETECTING THE PRESENCE OF SUN, RAIN, SNOW, CLOUDS, FOG, AND LOW-VISIBILITY SITUATIONS.

AI-WEATHER enables the use of **roadside cameras** to collect data for statistical analysis, intelligently control **adaptive lighting poles**, and generate alerts in the event of potentially **hazardous situations** (e.g., flooded tunnels or low road visibility).

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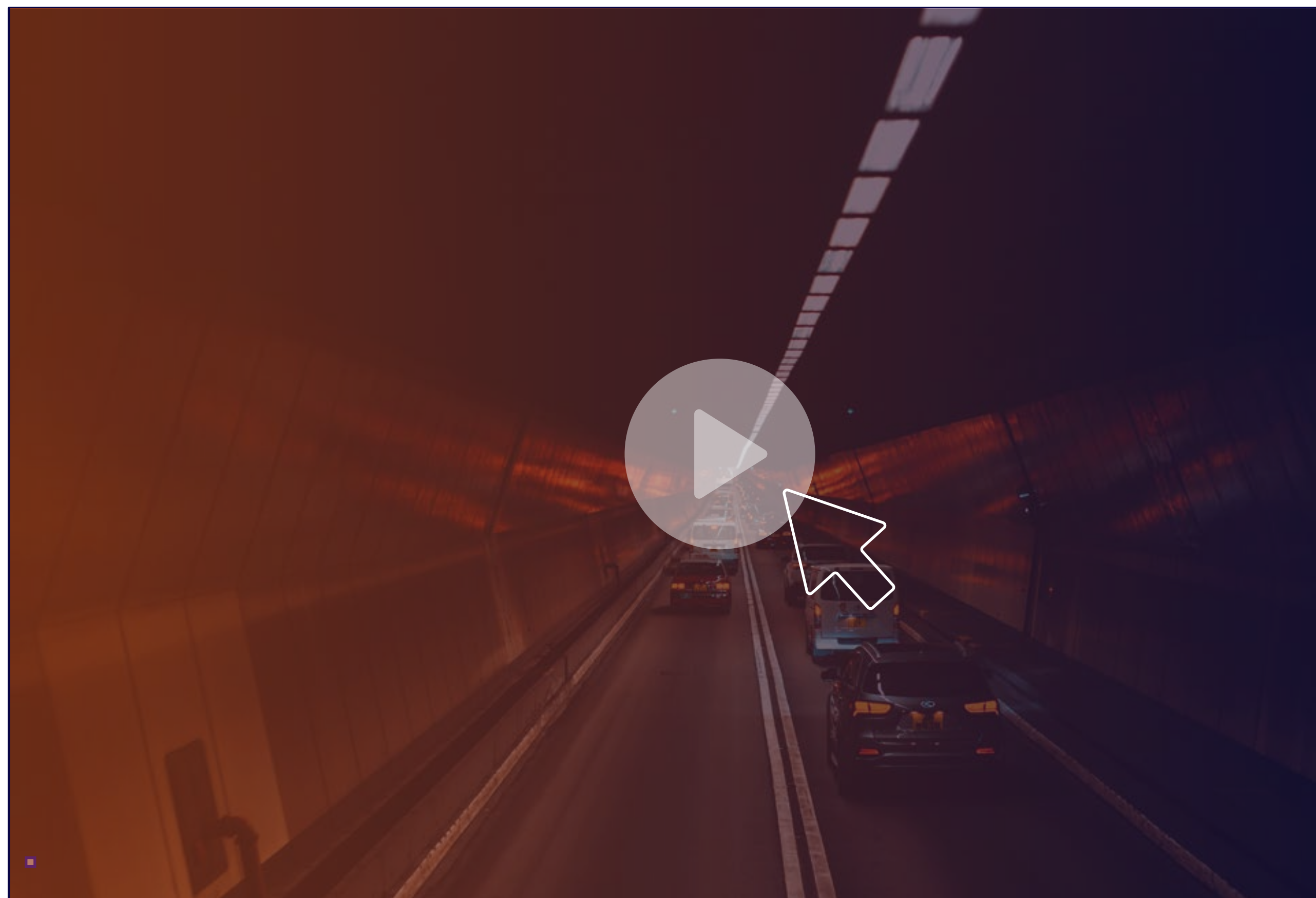


ai•weather can be successfully deployed on **roads and highways** to signal hazardous situations, providing real-time information to drivers and/or relevant authorities. For example, on highways, variable message signs can notify drivers of **low visibility, adverse weather conditions, or flooding**. Detecting flooding can also prevent access to underpasses or tunnels, thereby enhancing safety in critical conditions.

Furthermore, the ability to detect flooding is useful for **monitoring infrastructure** such as power plants, hospitals, or industrial facilities, helping to prevent potential damage.

Data related to weather, visibility and road surface conditions are fundamental for operating **smart poles** capable of adaptive lighting.

Extracted data can be archived and used to identify trends and patterns, supporting **future prevention efforts**.



CLICK **"PLAY"** AND SEE THE DEMO

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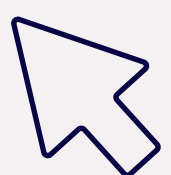


ARCHITECTURE

WHERE CAN I INSTALL THE APP?

Follow the link below for all compatible platforms

[CLICK HER](#)



INTEGRATION

WHERE CAN WE NOTIFY THE EVENTS GENERATED BY THE APP?

Events can be sent to external servers using over **20 different systems**, which include third-party VMSs, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and also **A.I. Tech proprietary protocols**, which allow the notification of events to the dashboards of A.I. Tech.

Follow the link for info, [CLICK HERE](#)



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