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## Surflin Coastal Intelligence Camera Monitoring System

### Overview

Since 1985, Surflin Coastal Intelligence has provided wave forecasts and live camera feeds to inform surfers and ocean enthusiasts insight on daily swells. To provide this service, cameras are installed along coastlines for surf monitoring. Over the past few years, Surflin Coastal Intelligence expanded their camera monitoring system to collect more data including bathymetry, beach attendance, shoreline changes, wave overtopping, and impacts from storms. Details regarding the camera monitoring system and its operational capacity will be presented to the Shoreline Preservation Working Group.

#### Action: Information

The Shoreline Preservation Working Group members will be presented an overview of Surflin Coastal Intelligence camera monitoring system.

#### Fiscal Impact:

None.

#### Schedule/Scope Impact:

None.

### Key Considerations

- Surflin Coastal Intelligence collects coastal data from installed cameras along shorelines across the world. Agreements are made with state, regional, or local entities to install cameras along the shoreline to collect continuous data that can be used for analysis.
- The San Diego region has more than 30 cameras installed along the coastline with over 10 years of historical data.
- The installed cameras collect live feeds and can perform historical “rewinds” to help visualize coastal erosion and daily beach dynamics. This data can be used in coastal planning of future projects.
- Surflin Coastal Intelligence is working with the Cities of Oceanside and San Clemente to install additional cameras to collect beach attendance and shoreline erosion data for their upcoming sand retention device projects.

### Next Steps

More information on Surflin Coastal Intelligence program can be found at <https://surflincoastalintelligence.com/#product>. SANDAG staff will consider how this and other emerging technologies can increase the effectiveness of the region’s shoreline monitoring and beach management efforts.

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