

LAB METOC is an **Operational Decision Aid Platform** working as a web service or integrated in a secured infrastructure.

The goal of **LAB METOC** is to assess the **possible degradation** of the environmental conditions for carrying out an operation or an activity. To do that, the platform uses a combination of **weather conditions** and other impacting data such as **oceanography, geography, and observation data from sensors**.



100%
Owned by CT.

+15 years
Improving civilian and military missions.

Based on
Tactical Decision Aid.

Get the full picture of the situation to stay one step ahead.

Evaluate.

Risk Assessment.

It shows you to what extent the forecast meteorological conditions, combined with other information (IoT measurements, technical data, geographic or terrain data and others) may disrupt or even prevent the completion of a mission or activity.

Predict.

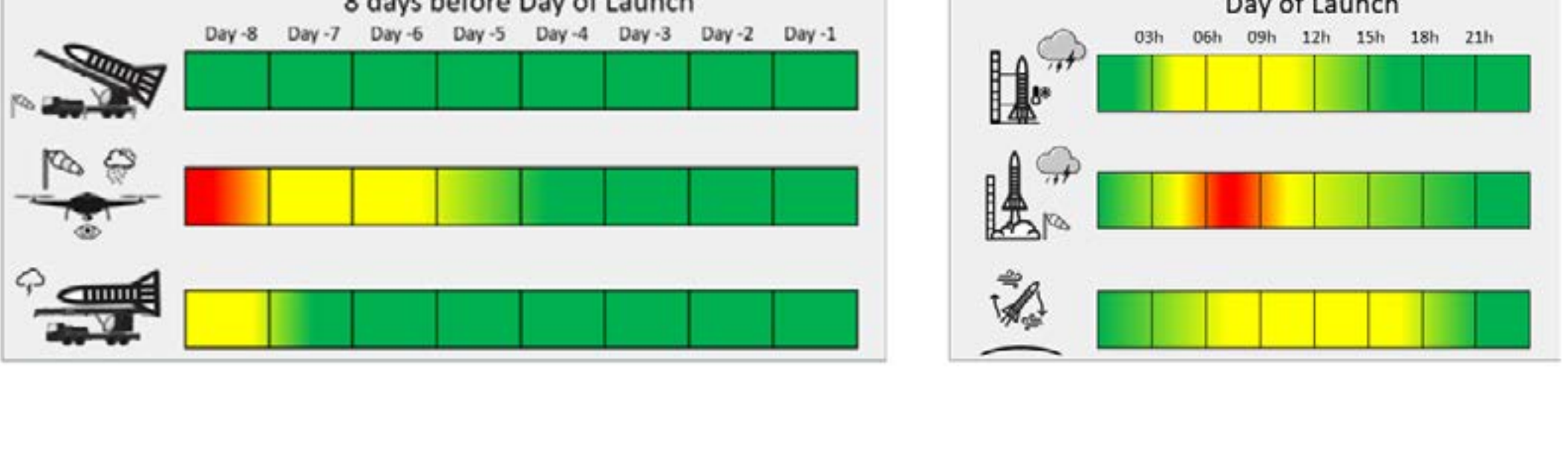
Evolution of risks in space and time.

It predicts the evolution of "weather-dependent" phenomena according to variations in weather conditions, using forecast or climatological data. This feature helps you identify the most favorable (or unfavorable) zones and periods for carrying out an activity in a specific selected area anywhere on the globe.

Decide.

Decision-making support.

It provides you with clear and concise information in the form of impact maps and briefings, enabling you to make the best possible decisions.



LAB METOC is a suite of three modules:

1

Data Collecting Module
for collecting forecasts, observations and measurements data.

Collect data from a wide range of sources.

2

Production Module
for creating the Decision Aid Products

Use a wide range of modeling tools:

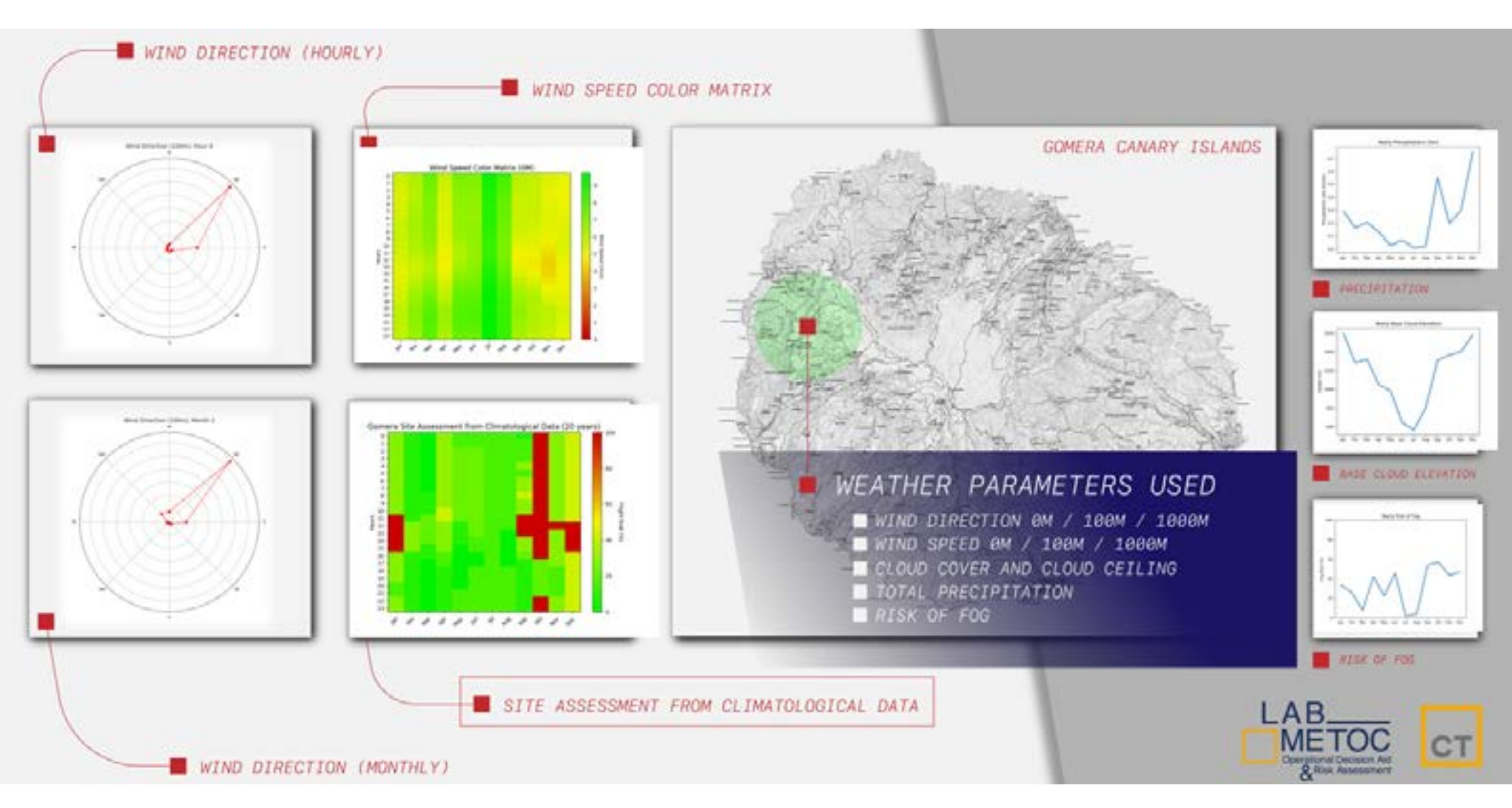
- **MODCOMP:** a behavioral modeling tool using weather conditions to assess risks on operators, equipment and activities
- **PAMIR:** an Infrared Wave Propagation modeling tool, for evaluating the performance of cameras according to weather conditions
- **ATP 45** CBRN Hazard prediction model
- Atmospheric Dispersion Model
- Arctic navigation Model
- Trafficability of vehicles Model

3

Publication Module
for publishing Products and Services to the end users.

The Production Module follows a Modular Architecture, allowing several Operational Modeling Tools to provide fully publishable products that will be displayed on the platform or sent through services to the end users. These products follow the industry standards for their format and can be visualized in many ways outside of the platform.

Get detailed statistics and impactful visualization.



Deploy and integrate LAB METOC Operational Decision Aid Platform as you need:

- Used as a **Web Service** configurable through a Browser Interface, displaying products on the interface or making them available through a Rest API.
- Deployed as a **Single User mode**, providing the full LAB METOC suite on a Laptop, for a single user.
- Integrated within an existing **C4I Information System**, complying with the constraints of a highly secured environment, and dealing with many operational end users, with tight control of access permissions.
- Deployed by CT as a **fully functioning METOC unit**, implementing a fully dedicated Information System (hardware), providing all necessary software solutions (OS, Backup System, LAB METOC and Operational applications, Cyber security...), and providing a complete training for the Unit staff and maintenance in operational conditions.