# OODA CARVER Ops Risk Dashboard - About & Methodology

Purpose\*\*

A serverless dashboard for rapid risk triage in field and GSOC settings. The app helps analysts turn ad-hoc CARVER inputs into a living risk picture that updates in real time. It runs entirely in the browser and deploys on GitHub Pages.

Who it is for\*\*

Security risk managers, NGO field teams, GSOC operators, and analysts who need a pragmatic risk view that travels well and does not depend on a backend.

### What the app does

- Imports or captures assets and threats, then computes Likelihood and Impact from CARVER.
- Visualizes portfolio posture, a 5x5 risk matrix, and a sortable register.
- · Exports CSV or JSON and a Markdown report.
- · Prints a report to PDF using the browser print dialog.
- · Works offline once loaded. No data leaves the browser unless the user exports.

### **Core methodologies**

### 1) CARVER scoring

CARVER fields recorded per asset: \*\*C, A, R, V, E, Rz\*\*

- C\*\* Criticality
- A\*\* Accessibility
- R\*\* Recuperability higher score means lower resilience and harder recovery
- V\*\* Vulnerability
- E\*\* Effect
- Rz\*\* Recognizability

Scales supported: 1 to 5 or 1 to 10. Internally normalized to the active scale.

### 2) Mapping CARVER to Likelihood and Impact

This build follows your pragmatic, readable mapping.

- Likelihood L\*\* = average of \*\*A, V, Rz\*\*
- Impact I\*\* = average of \*\*C, E, R\*\*
- Risk score\*\* = \*\*L x I\*\*

Buckets used across the app:

Very Low: 0 to < 5</li>Low: 5 to < 10</li>Medium: 10 to < 15</li>

• High: 15 to < 20

### 3) ISO 31000 alignment

The workflow mirrors ISO 31000.

- 1. \*\*Establish context\*\* choose scale and role, define assets.
- 2. \*\*Identify risks\*\* enter CARVER values and notes.
- 3. \*\*Analyze\*\* the app computes L, I, and the matrix position.
- 4. \*\*Evaluate\*\* sort and compare in the register and distribution view.
- 5. \*\*Treat\*\* add mitigation notes and export actions.
- 6. \*\*Monitor\*\* adjust scores as conditions change and re-export.

#### 4) OODA Loop integration

- Observe\*\* import field observations and telemetries as assets with CARVER attributes.
- Orient\*\* the dashboard, matrix, and distribution view create shared situational understanding.
- Decide\*\* use the sortable register and top-risks list to select actions.
- Act\*\* export CSV or JSON for tasking, print the report, and push updates back to the field.
  Repeated cycles shorten decision time while improving fidelity.

### Key features at a glance

- Risk Distribution\*\*: vertical bar chart sorted by risk for any number of assets, with hover details.
- 5x5 Matrix\*\*: color-consistent tiles with readable popups that inherit the rating color.
- Register\*\*: inline editing with auto-recompute and auto-save to local storage.
- Role filters\*\*: Ops, Sec, Comms column presets for faster reviews.
- Data portability\*\*: CSV and JSON import-export plus Markdown report.
- Serverless\*\*: static HTML, no API keys, GitHub Pages ready.

#### Data model

Each record keeps the following fields:

- name\*\* string asset or threat label
- type\*\* string category such as Plant, Site, Convoy, Node, Threat
- country\*\* string
- location\*\* string
- C, A, R, V, E, Rz\*\* integers within the active scale
- notes\*\* string

Derived fields rendered by the app: \*\*L, I, totalCarver, P(a), risk score\*\*.

*P*(a) is computed as total CARVER divided by maximum possible for the active scale. It is a quick proxy of overall exposure across the six factors.

# Typical use cases

1. \*\*NGO site survey\*\*

Map clinics, warehouses, and movement corridors. Score quick CARVER values from the field, generate a register, and prioritize mitigations for routes and facilities.

2. \*\*Telecom or radio network GSOC\*\*

Track VHF sites, satcom nodes, and power dependencies. Watch the distribution for single-point-of-failure drift and reprioritize site hardening tasks.

\*\*Election support and convoy planning\*\*

Maintain a living list of polling sites and convoy legs. Adjust A, V, and Rz with changing crowd dynamics or checkpoints and reprint the matrix before dispatch.

4. \*\*Rapid crisis reprioritization\*\*

During a surge or incident, update R and E to capture recovery drag and consequence spread. Decision makers see immediate shifts in top-risks and matrix clustering.

### **Analyst workflow**

- 1. \*\*Load data\*\*: upload CSV or JSON, or start from the sample set.
- 2. \*\*Tune scale and role\*\*: choose 1 to 5 or 1 to 10 and select the column preset.
- 3. \*\*Score quickly\*\*: edit CARVER values in the table. The register and visuals update automatically.
- 4. \*\*Validate\*\*: check clustering on the matrix and outliers in Risk Distribution.
- 5. \*\*Report\*\*: export CSV or JSON for systems, and print Report to PDF for briefings.

# **Deployment and privacy**

- Single file app that runs in any modern browser.
- Static deployment on GitHub Pages.
- Local storage only until you export. No telemetry and no cookies created by the app.

# **Extensibility ideas**

- Team sync via a lightweight share link using GitHub Pages branch JSON.
- · Optional geotag fields and a small leaflet map for route and site context.
- Pluggable risk treatments library keyed to matrix cells.
- Import validator that checks scale consistency and missing fields.

## **Acknowledgments**

This build incorporates CARVER tradecraft, ISO 31000 risk management principles, and the OODA decision cycle. It is tuned for field pragmatism - minimal friction with maximum clarity.