



الهيئة العامة للطيران المدني
CIVIL AVIATION AUTHORITY
قطر QATAR

TCHN-RPT-005

AVSEC SECTION WORKLOAD TREND ANALYSIS

Data Visualization to Enhance Oversight and Quality Assurance

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Overview

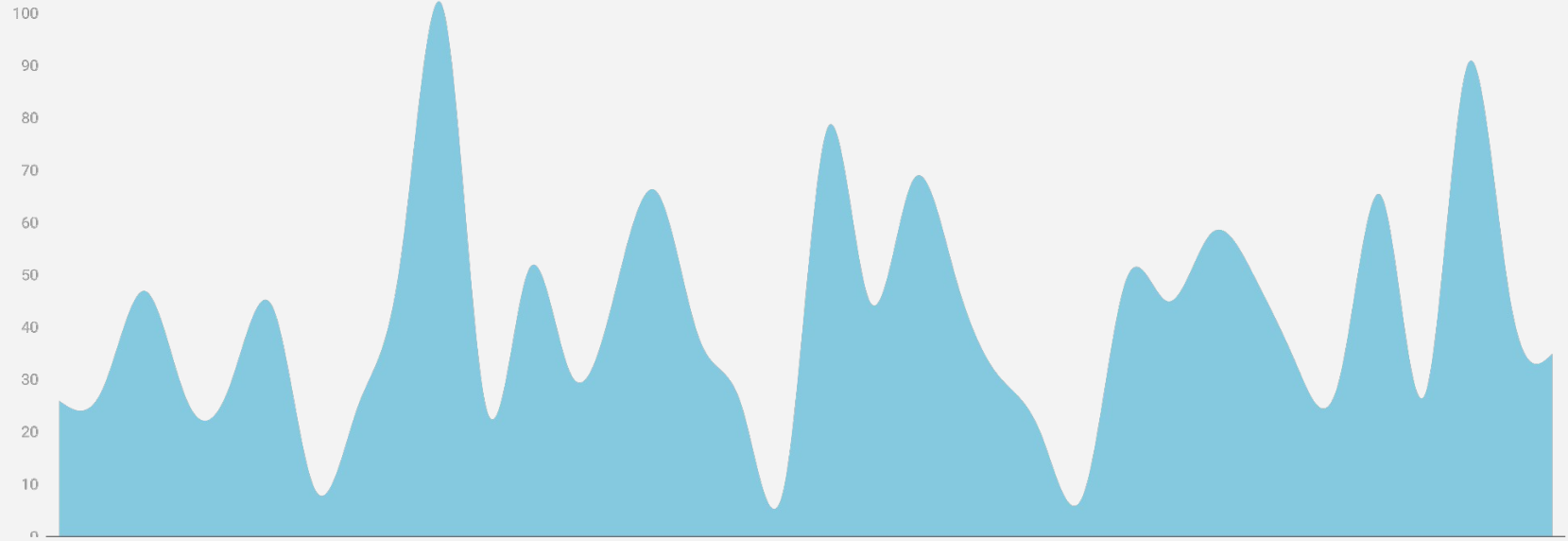
The purpose of this report is to conduct a comparative analysis of the AVSEC Section's workload between two distinct years by visually presenting the data. The main objectives are:

1. To identify significant trends in workload fluctuations.
2. To uncover root causes behind these variations.
3. To gain insights for more effective, data-informed planning and resource allocation.
4. To come up with relevant strategies in order to effectively achieve all the planned tasks.
5. To enhance the AVSEC Section's regulatory performance.

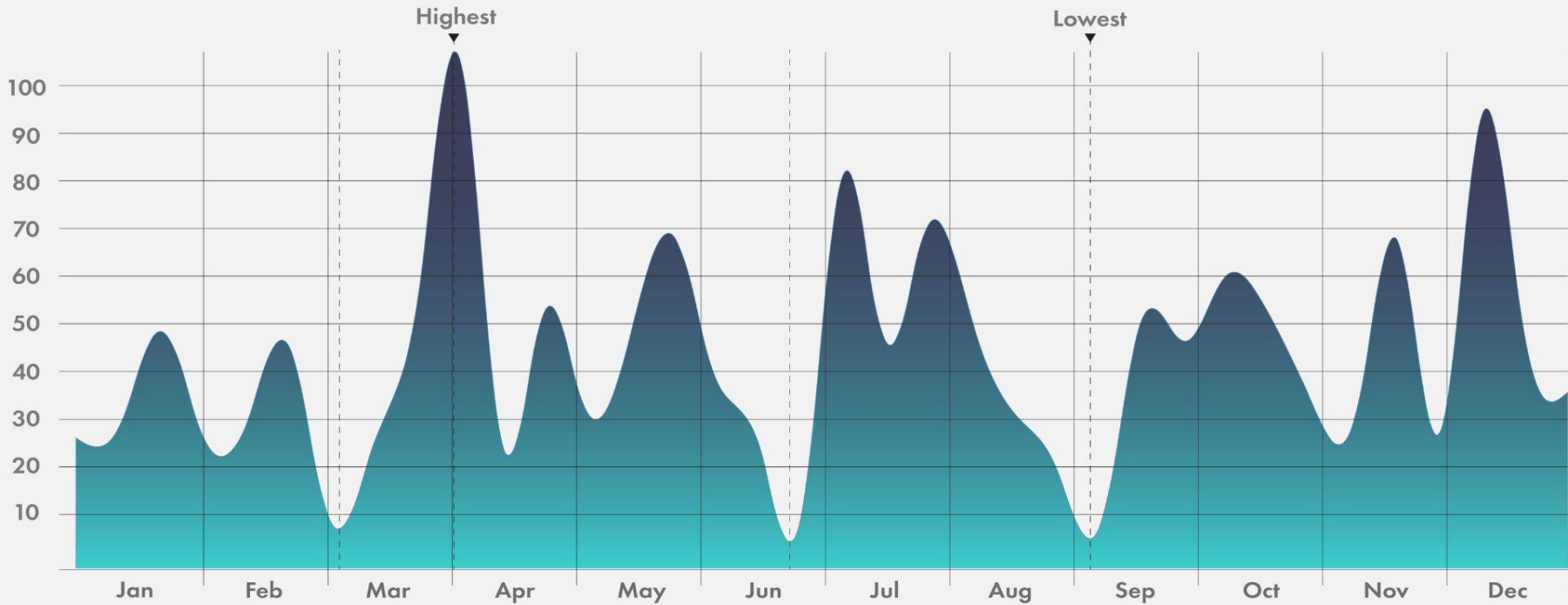
Data Collection Method (to skipped)

Data Presentation

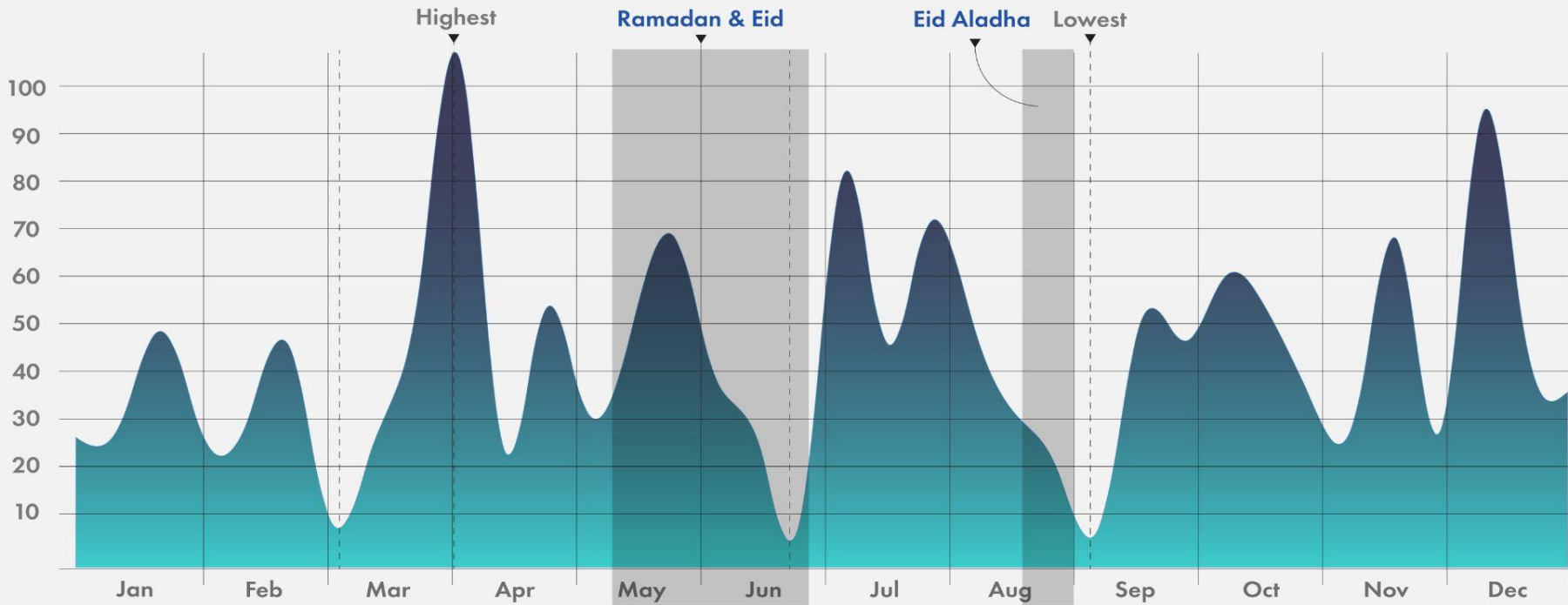
Raw Data Output



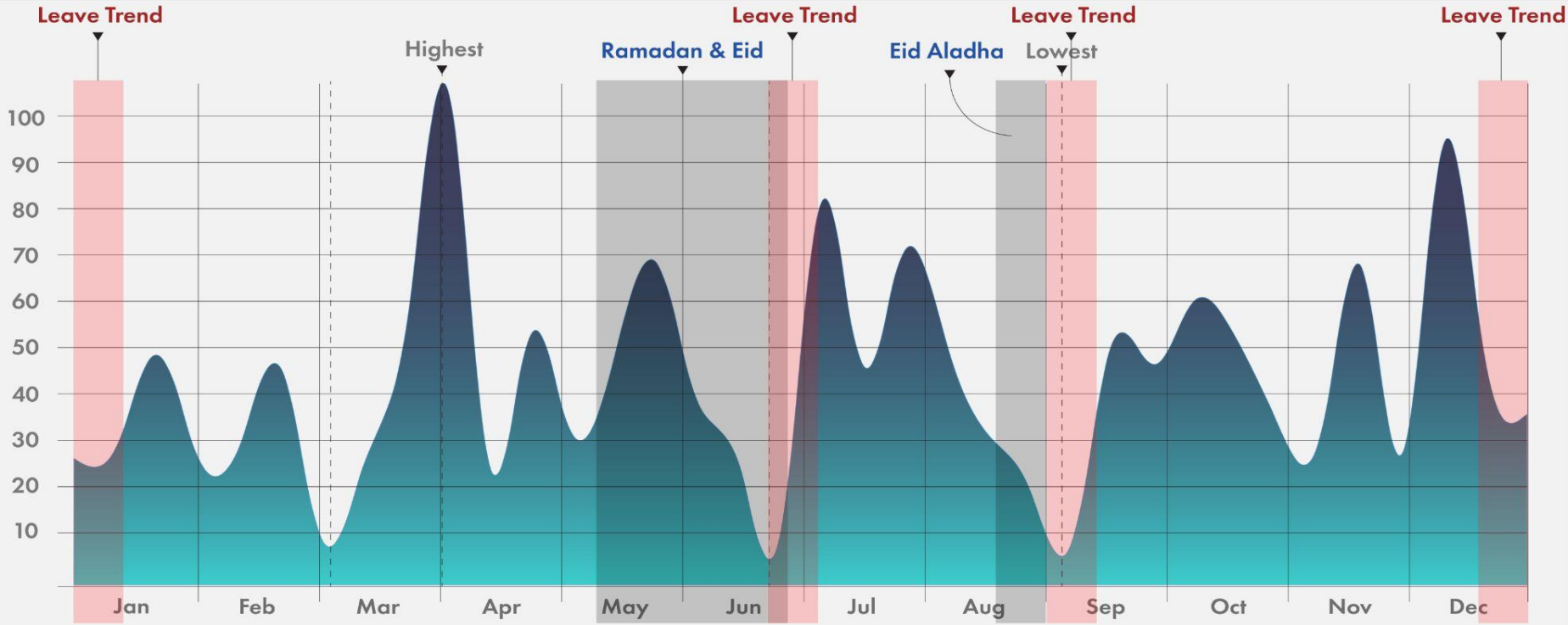
QCAA AVSEC Unit in 2018



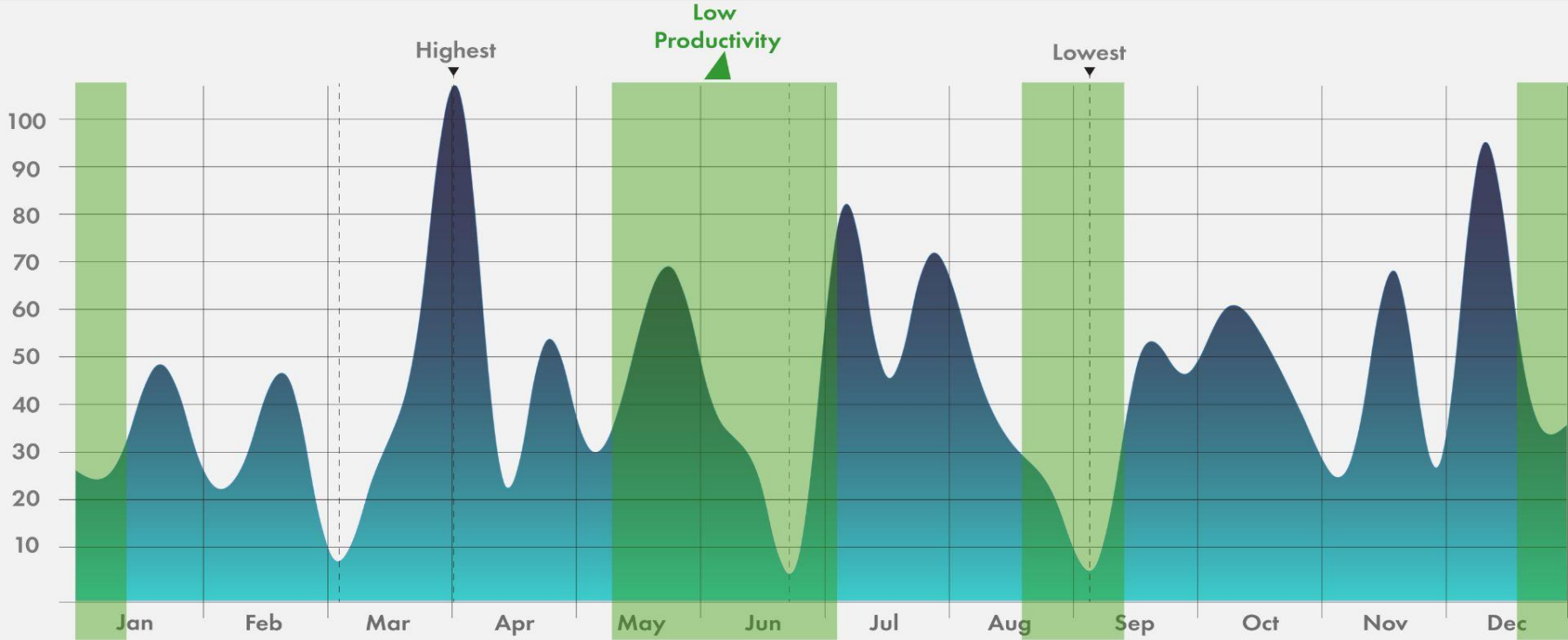
QCAA AVSEC Unit in 2018



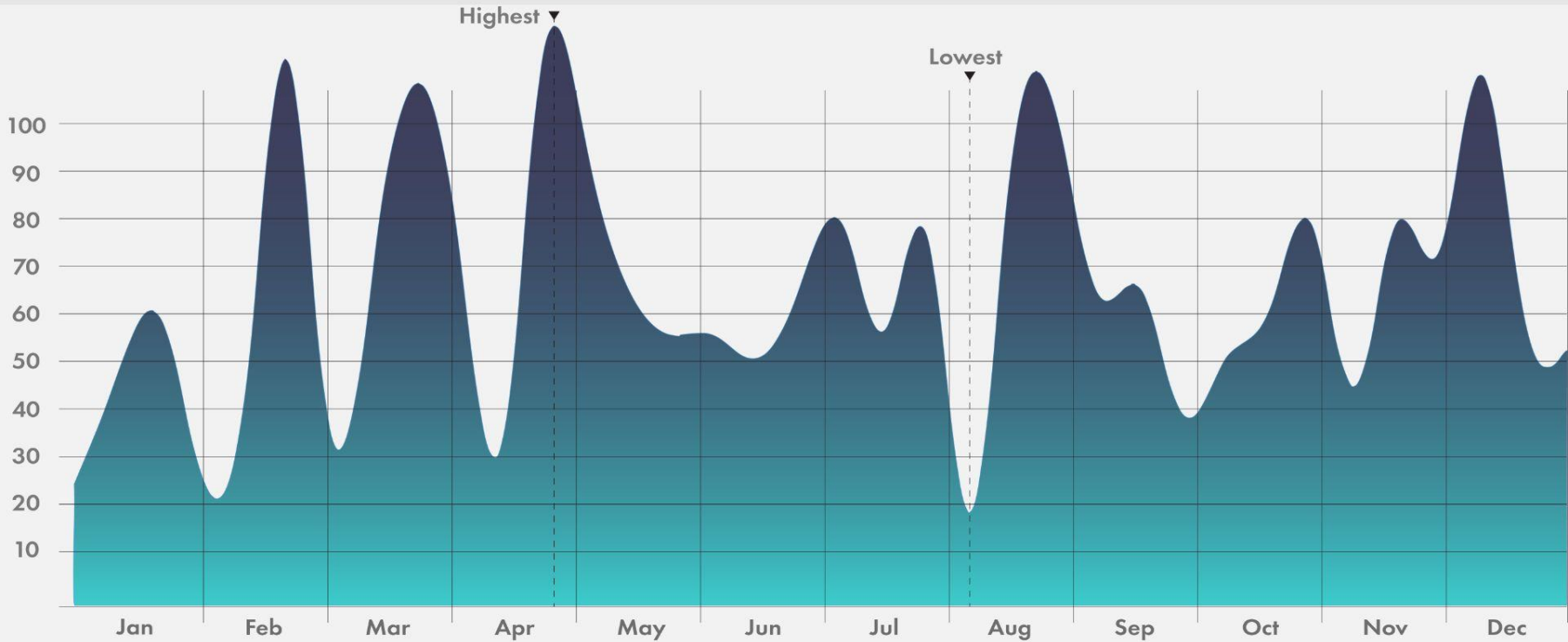
QCAA AVSEC Unit in 2018



QCAA AVSEC Unit in 2018



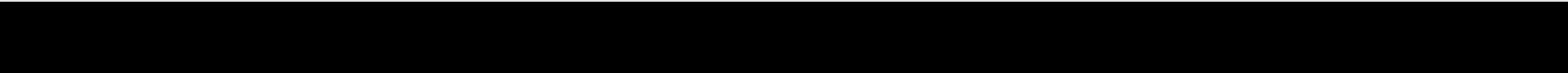
QCAA AVSEC Section in 2024



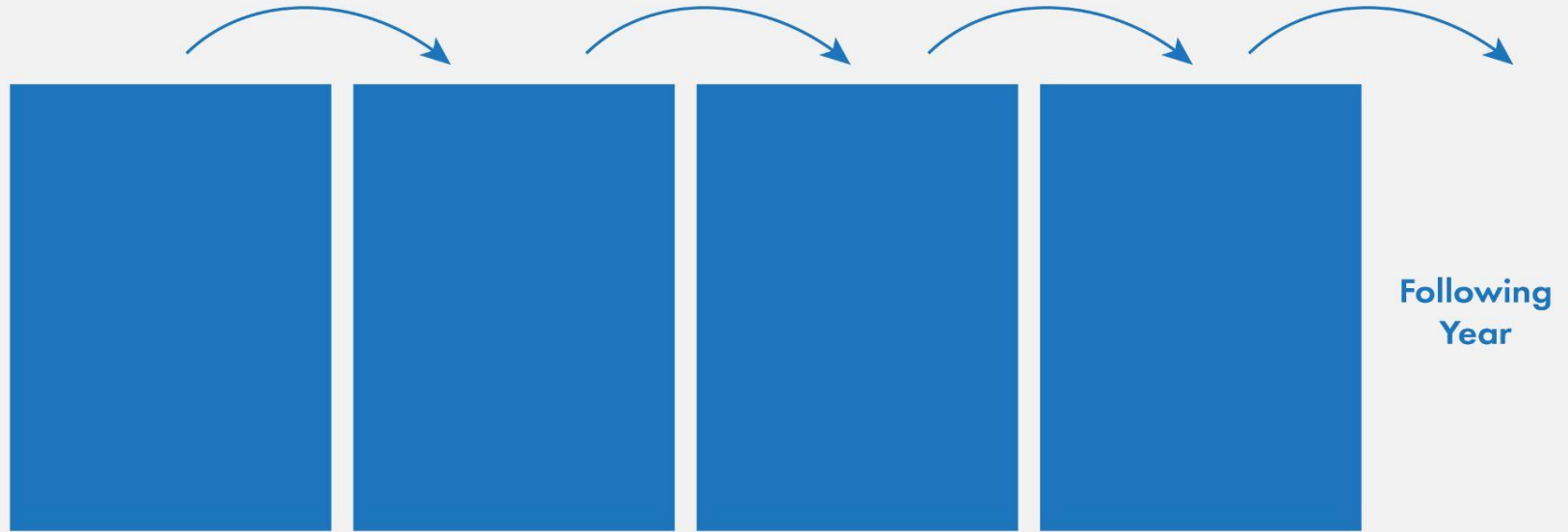
Data Analysis

Why Did It Happen?

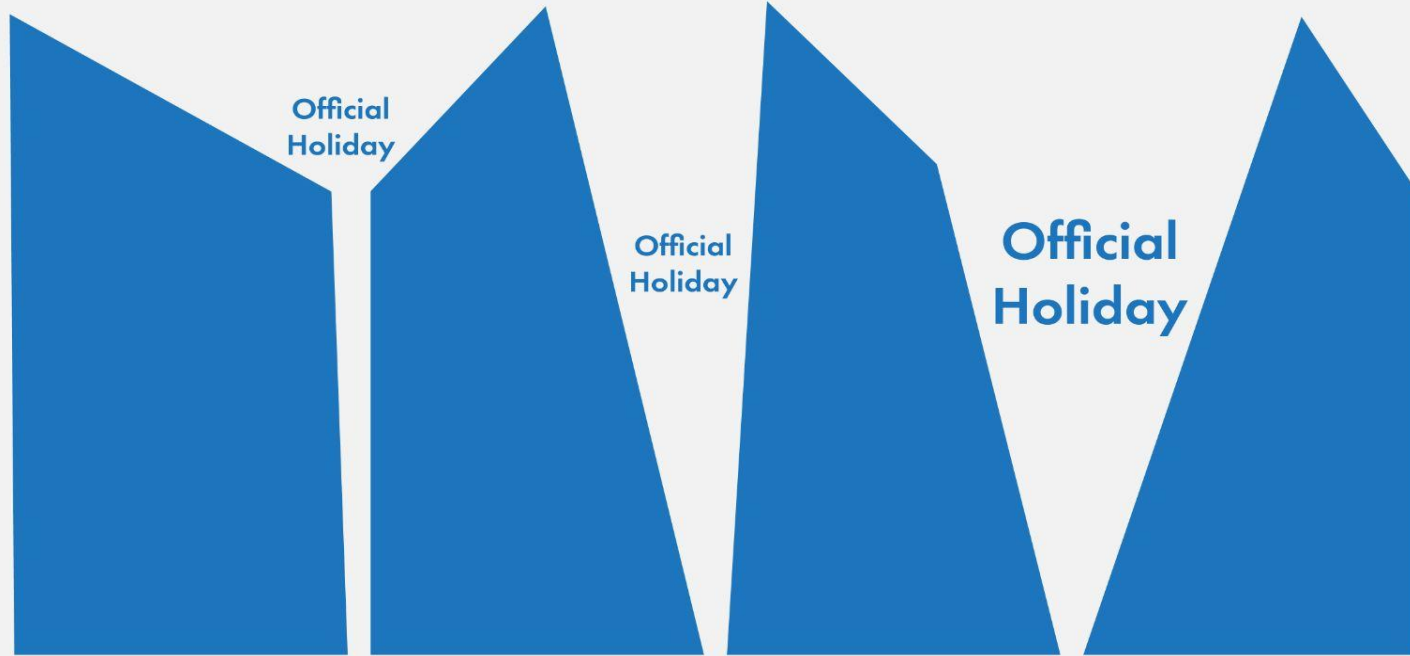
Optimization Strategies



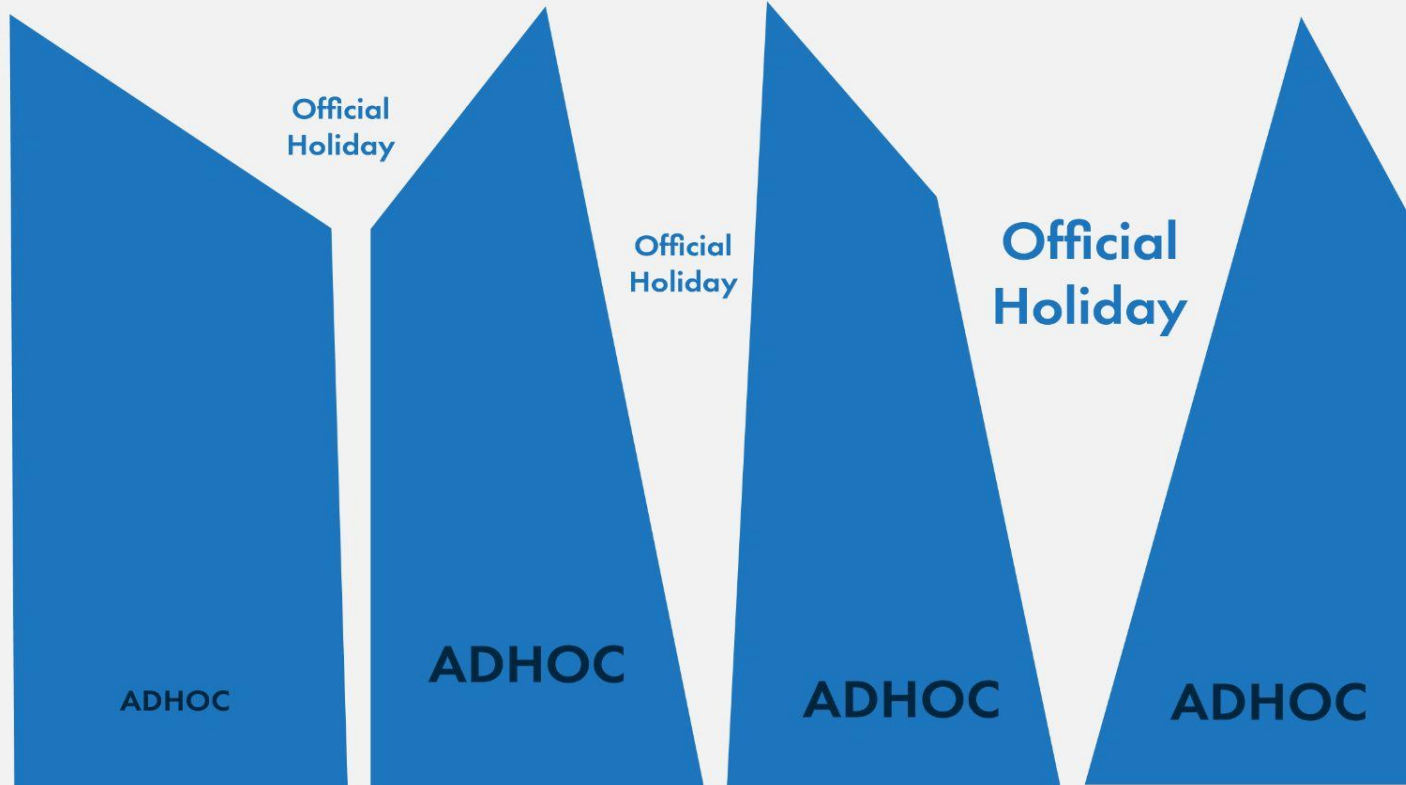
Optimization Strategies



Optimization Strategies



Optimization Strategies



**If we follow the same approach over and over ... we will end up just
ticking boxes!**

Strategies

Optimization Strategies

Below are some strategies aimed at reducing high activity peaks and improving time utilization throughout the year.

01

**Data-based
Planning**

02

**Adhoc
Forward Planning
Based on criticality**

03

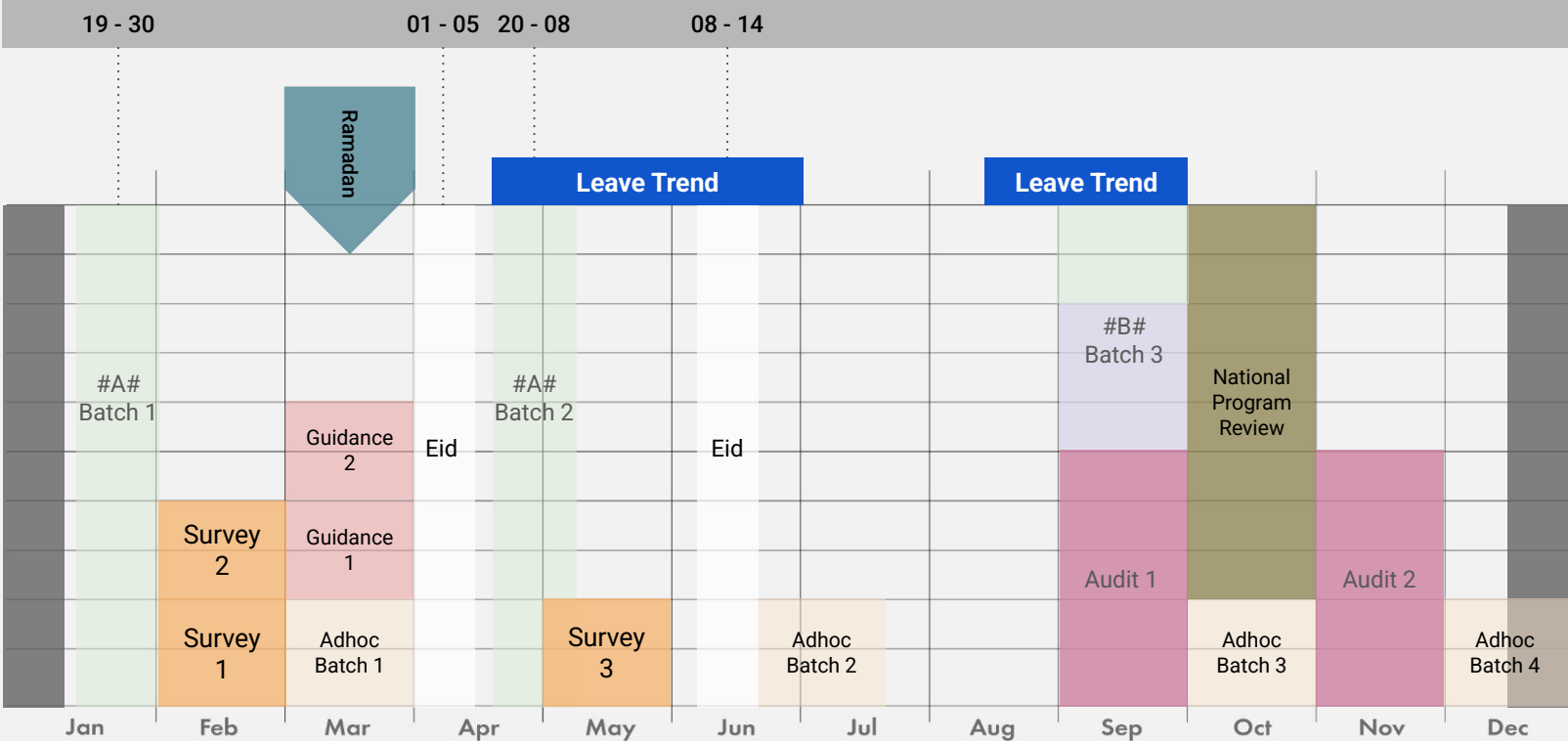
**Utilization
of
clustering strategy**

04

**Incomplete
Planned Tasks
Not to be squeezed
unless critical**

AVSEC Section Operational Plan 2025

Days



Legend

Buffer

#A#

#B#

Outcomes?

- **95%** on time delivery with high quality results comparing to **70-75%** in previous years with inconsistent quality.
- Positive team culture which enhanced teamwork significantly.
- Less work stress and mental pressure based on staff feedback.
- Standardised regulatory mechanisms & processes.
- The list goes on ...



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Thank You!

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