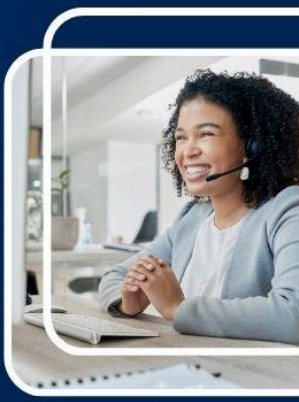
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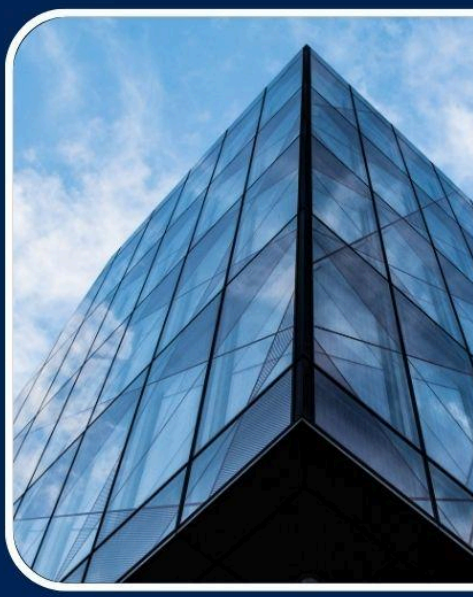
DIGITAL SOLUTIONS & MANAGED IT

USE CASES

FOR CARIBBEAN ORGANISATIONS



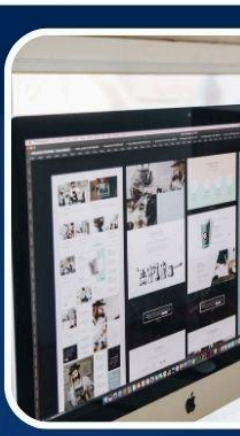
Date:
January 2026















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About this Guide

This guide is for Caribbean organisations that need digital tools or IT support but don't always have the time or in-house capacity to turn their ideas into practical systems.
That includes:

- Government agencies and regional bodies
- University research units and labs
- Funding agencies and international partners
- Conservation NGOs and environmental projects
- Churches, schools and training institutions
- Small–medium businesses and professional service firms

Each use case follows a simple pattern:

- "I am…" – the type of organisation
- "I have/need…" – the project or challenge you're facing
- "How can Pellucid help me?" – practical ways we can support you with dashboards, data systems or managed IT services

You don't need to match a use case perfectly for it to be useful. Scan through, find the scenarios that sound most like you, and use them as a starting point for conversations and project ideas.

How Pellucid IT Can Help

Pellucid IT Inc. is a Barbados-based company that builds digital tools and provides systems administration for teams working in the Caribbean.

On the software and data side, we design and build:

- Dashboards and monitoring tools
- Data platforms and centralised data hubs
- Document and report digitisation workflows
- Cloud storage and archiving solutions
- Website revamps for environmental and mission-driven organisations

On the managed IT side, we keep everyday IT running smoothly:

- Quick, remote support when something stops working
- Proactive monitoring and preventative maintenance
- Backup and recovery so critical data is protected

We want to help you plan, build and maintain the digital and IT systems your work depends on.

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Section A:
Dashboards & Data Platforms



Use Case 1 - Dashboards

I am a **government agency** responsible for monitoring air quality across the Caribbean region.

I have been selected to do a **region-wide air quality monitoring project** which requires a publicly accessible **advanced data visualization and real-time monitoring component.**

How can Pellucid help me?

- Pellucid can design and build a **dashboard** that brings together real-time data from multiple air quality sensors across the region.
- The dashboard can show live readings, historical trends, and basic predictive insights to help identify hotspots, trends and areas of concern.
- Public and secure internal views can support **transparency, public awareness and informed decision-making** by officials.

Use Case 2 - Monitoring Tools

I am a **University research unit** studying the impacts of climate change on Caribbean coral reefs.

I have been funded to do **a five-year research project** which requires sophisticated **data collection, real-time monitoring, and reporting tools.**

How can Pellucid help me?

- Pellucid can create **custom monitoring software** that collects data from underwater sensors, integrates satellite imagery and feeds into a real-time coral health dashboard.
- The system can support **data sharing among researchers**, and generate reports suitable for publications, funding agency updates and policy briefs.
- We can design interfaces and visualisations that are also suitable for **public outreach and education** on coral reef health.

Use Case 3 - Archiving Historical Documents

I am an **international conservation organization** working on forest preservation in the Caribbean.

I have been selected to do a **project to archive and digitize historical documents and reports on forest conservation efforts**, which requires a **comprehensive digital archiving solution.**

How can Pellucid help me?

- Pellucid can implement a **digital archiving system** that scans, indexes and stores historical documents in a secure, searchable database.
- The system can include **metadata tagging** to improve search and retrieval, ensuring that valuable historical information is preserved and easy to find.
- We can **train** your staff on how to use, maintain and gradually expand the digital archive over time.

Use Case 4 - Digitizing Reports

I am a **regional conservation action group** that produces numerous reports on marine life conservation.

I have been funded to do **a project to digitize and make accessible all past and future reports**, requiring a robust **document management system**.

How can Pellucid help me?

- Pellucid can set up a **document management system** to digitise your reports and organise them in a structured, searchable way.
- Our solution can support **version control, collaborative editing** and secure cloud storage, so your team can work efficiently and avoid document confusion.
- We can ensure the system fits your existing workflows and supports future **digital publishing or open access initiatives**.

Use Case 5 - Tracking and Data Analytics

I am a **funding agency** that supports multiple environmental projects across the Caribbean.

I need a better way to **track and analyze the impact of the projects we fund**, which requires a sophisticated **data management and analytics component.**

How can Pellucid help me?

- Pellucid can develop a **centralised data management platform** that consolidates data from different funded projects into a single environment.
- Built-in analytics tools can provide insights into **project performance, expenditures and environmental outcomes**.
- We can create **customisable reports and visual dashboards** to support strategic decisions and communication with stakeholders and boards.

Use Case 6 - Environmental Data Analytics

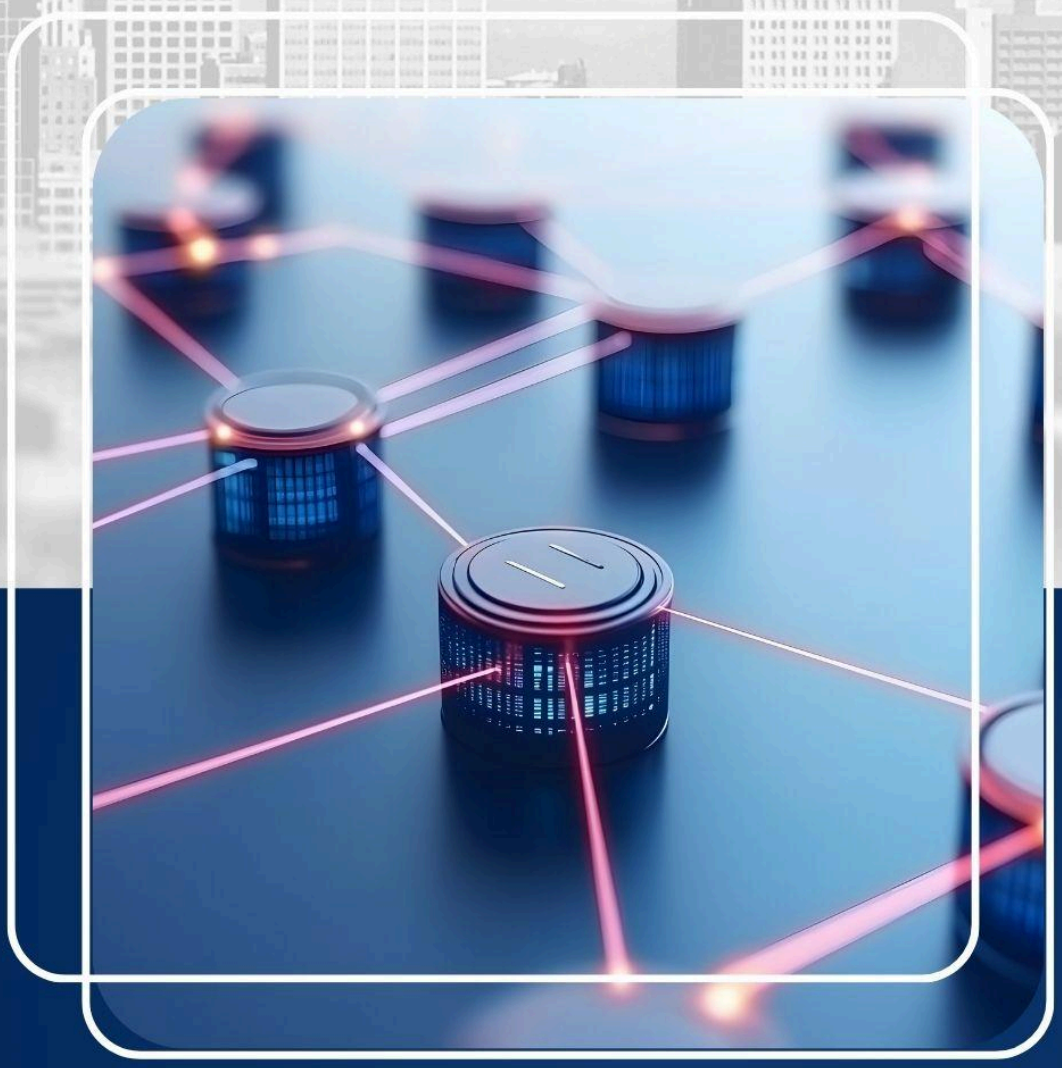
I am a **national conservation agency** tasked with protecting endangered species.

I have been funded to do a **project to monitor and analyze population trends of endangered species**, which requires extensive **data management and analytics capabilities**.

How can Pellucid help me?

- Pellucid can implement a **data management system** that collects and stores data from field surveys, satellite tracking and other monitoring methods.
- An analytics layer can help you track **population trends, habitat use and threats**, turning raw data into actionable conservation insights.
- The system can support **collaboration with researchers and conservation partners**, enabling secure data sharing and joint analysis.

Section B:
Digital Infrastructure & IT Support



Use Case 7 – Backup, Recovery & Data Security

I am an **organisation that stores critical information**—client files, financial records, research data, media assets or key operational documents—on computers, local servers or cloud drives.

I am in need of a **robust backup and recovery plan** because I am not confident we could quickly recover our data if a device fails, files are deleted by accident, or we are affected by ransomware or a natural disaster.

How can Pellucid help me?

- Pellucid can design a **backup strategy** tailored to your environment, combining local and/or cloud backups with clear retention rules (how often backups run and how long they are kept).
- We can set up **automated backups and test restores**, so we know the backups work and you know how long recovery would likely take in different scenarios.
- We can document a concise **disaster recovery playbook** that explains who to contact, which steps to follow and how to communicate during an incident, so your team is not guessing in a crisis.

Use Case 8 - Cloud Storage System

I am a **regional government** seeking to ensure data sovereignty and security for sensitive environmental data.

I have multiple projects with decades of data that needs to be **stored on a secure, scalable and locally managed cloud infrastructure.**

How can Pellucid help me?

- Pellucid can design and implement a **cloud storage system** tailored to Caribbean needs, supporting data sovereignty and local/regional compliance.

- Our solution can include **redundancy and disaster recovery**, protecting against data loss and ensuring availability even during disruptions.
- We can provide **ongoing support and maintenance** so the system stays secure, scalable and efficient as your data grows.

Use Case 9 - Centralised Data Hub

I am a **university research institution** conducting extensive environmental research projects across multiple departments.

I have been funded to implement many projects across various environmental sectors and would like to **consolidate the research data into one robust data management and data sharing system.**

How can Pellucid help me?

- Pellucid can develop a **centralised data hub** that integrates data from various research projects and makes it accessible across departments.
- The platform can include **data catalogues, metadata tagging and advanced search** to make data discovery and reuse easier.
- We can implement **secure access controls** so data is shared appropriately, and provide training so faculty and students can use the hub effectively.

Use Case 10 - Website Revamp

I am a **conservation NGO / environmental firm** with an outdated website that no longer effectively communicates our mission or engages our stakeholders.

I am in need of a **website revamp** to improve user experience, accessibility, and engagement, requiring a modern, responsive web design.

How can Pellucid help me?

- Pellucid can redesign your website to create a **modern, visually appealing and user-friendly platform** that clearly communicates your mission and work.

- We will focus on **navigation, accessibility and mobile responsiveness**, ensuring the site works well for all visitors.
- Where relevant, we can integrate features such as **interactive maps, donation portals, event calendars and social media feeds** to support your outreach and fundraising.

From Ideas to Action

If you recognised yourself in one or more of these use cases, that's a good sign, **you're not alone**. Many teams in the region have similar needs: turning environmental and climate data into usable tools, keeping documents and reports organised, or simply making sure staff can rely on their IT systems every day.
The next step doesn't have to be a full project proposal. Often it starts with a short conversation to clarify:

- What you're trying to achieve
- What data and systems you already have
- What kind of support would make the biggest difference in the next 6–12 months

If you'd like to explore how a dashboard, data platform or managed IT support could work in your context, you can:

- Visit www.pellucidit.com/use-cases and identify the scenarios closest to your situation, or
- Email us at info@pellucidit.com to schedule a short call.

We're happy to listen, ask questions and help you figure out whether there's a good fit.

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