

Digital Blindness: The First Enemy in Cybersecurity

Lic. Manuel Alejandro Benítez Pino

Jefe de Unidad Técnica de la Dirección de Tecnología de la Información.

Petróleos Paraguayos - PETROPAR



What you don't see, can destroy you

- Many organizations believe they are secure... without knowing what they actually own.
- Visibility is often overlooked — until an incident occurs.
- Trying to secure a network without visibility is like flying a plane with no instruments."



Symptoms of Blindness

- No accurate asset inventory.
- Unknown open ports and services.
- Outdated software and unpatched vulnerabilities.
- No correlation of security events.



From Risk to Urgency

- Multiple shadow assets were discovered.
- Lack of telemetry delayed response to incidents.
- External audits revealed major visibility gaps.
- Growing complexity made manual tracking impossible.



Building Visibility from the Ground Up

- Wazuh for log aggregation and detection.
- Vicarius for mass patching and vulnerability reporting.
- Firemon for asset inventory and unknown network traffic discovery.
- All aligned to CIS Controls as our guiding framework.



Visibility is Not a Tool — It's a Foundation

- Visibility is not an add-on, it's the starting point.
- Every control depends on knowing what you have and what it's doing.
- Detection without context = noise. Context starts with visibility.



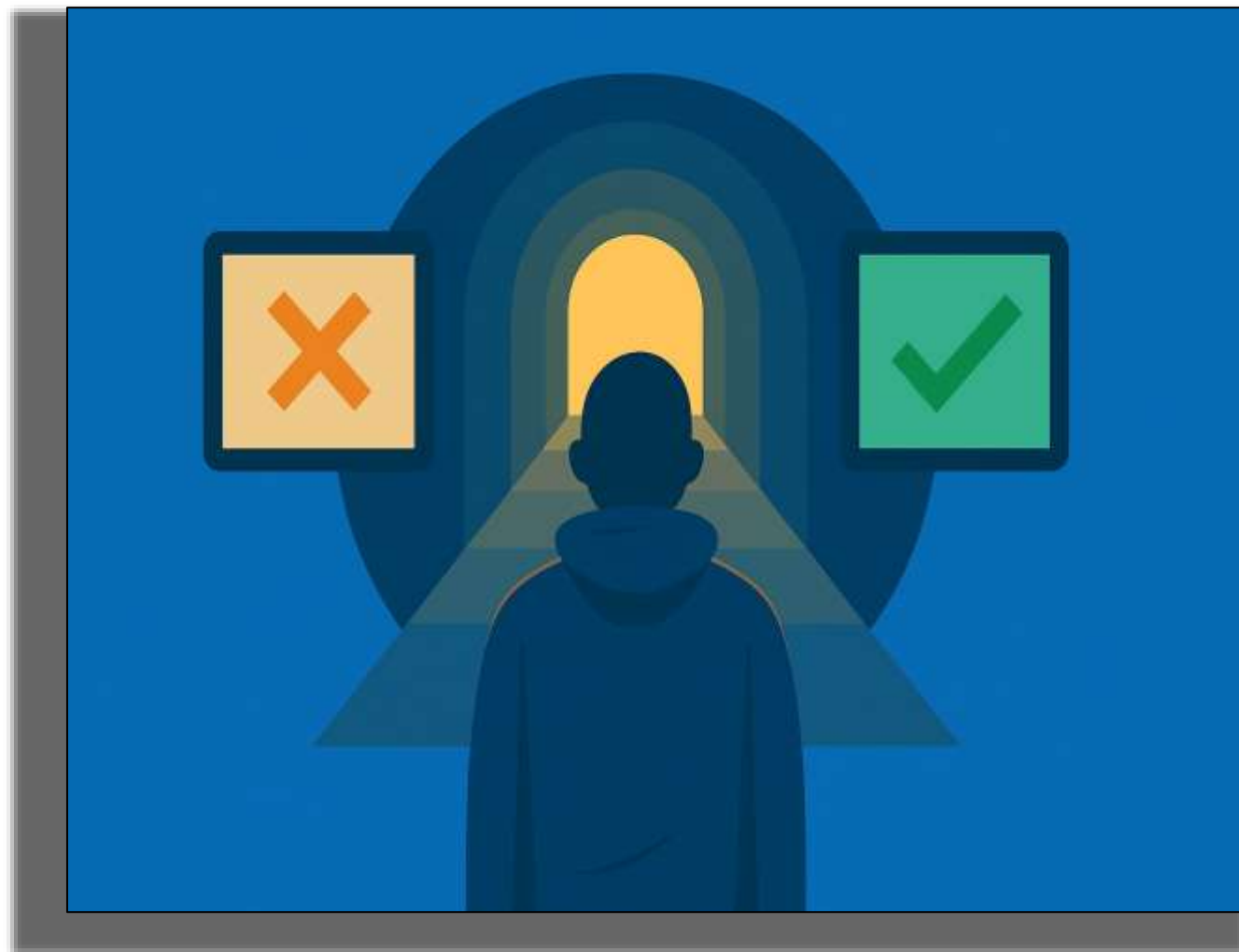
A SOC is not a product. It's a process.

- Our SOC is in progress — not finished, not perfect.
- Continuous improvement: more integrations, better response playbooks.
- Visibility will guide our decisions and response in every stage.



If we had to start again...

- Start visibility early — before the attacks.
- Don't wait for a “perfect” SOC to begin.
- Align tools with a clear framework (CIS, NIST).
- Visibility reduces fear — and increases control.



You can't defend what you can't see

**Visibility
is your first
line of
defense.**



¡Thank you very much!

¡Muchas gracias!

Lic. Manuel Benítez

mbenitez@petropar.gov.py



Innovarpel 2025



www.arpel.org