



24 – 27 October 2023
CSIR International Convention Centre
Pretoria, South Africa

TECHNICAL TOUR

27 OCTOBER 2023
09h00 – 14h00

CSIR LABS & FACILITIES

Meet at the CSIR International Convention Centre and join us for a rotational half-day tour of several CSIR laboratories and facilities.

We are still finalising the arrangements, but the tour will include:

Photo Voltaic Testing Lab.

The photovoltaic testing facility supports the domestic solar photovoltaic (PV) industry with aspects of industrial development, research, quality assurance, knowledge generation and human capital development. The facility was conceived to support the burgeoning PV manufacturing sector in South Africa as a pre-qualification test facility so that the design, build and test of new products could happen in parallel, shortening the time to market for South African components. The facility also supports the renewable energy industry, specifically on PV module quality, reliability, design, system modelling, operations, maintenance and monitoring.

Indoor Energy Storage Testbed Lab

The CSIR Indoor Energy Storage Testbed provides technology developers and importers with a vital resource to assess and characterise their technologies for market entry. This lab is envisaged to strengthen South Africa's ability to support local players in the battery value chain, thereby boosting the country's capabilities in renewable energy storage.

Virtual Security Operations Operation Centre [VSOC] [Demo at Building 17B, 1st Floor, VSOC]

The Virtual Security Operation Centre is a capability developed to assist organisations protect itself through monitoring, detection, analysis, and investigation of cyber threats. This laboratory is to assist to assist the South African government and private sector to understand their current Cybersecurity posture and help them to put measures in place to secure their information assets.

POPIA Compliance Assessment Toolkit [Demo at Building 17B, 1st Floor, VSOC]

The Protection of Personal Information Act Compliance assessment toolkit was developed to help organisations to assess their current statement of compliance to the POPI Act. This toolkit is designed to assist help organizations to seamlessly assess their current state of compliance to the POPI Act and based on the assessment outcome, address areas of improvements and improve the compliance posture of the entire organization, while minimizing the probability of either being fined by the South African Information Regulator or Imprisonment.



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C MORE – situation awareness platform (Demo at Building 44 CDEC)

CMORE is a software platform with the capability to provide a near real-time shared situational awareness view to the members of an operation or organisation. The provision of shared awareness is based on CMORE's capability to source real-time data from interoperable groups, perform data analytics on sourced data, which leads to a shared situation awareness by providing the correct data to the correct participating members at the correct time, leading to an optimum level of organisational collaboration.

CMORE has a dynamic data-sharing capability, which allows for the sharing of data to preferred groups and can be changed according to changing operational needs as required. Operational data can be formatted in custom-made graphical reports and updated in near-real time as required by operational leaders.

Long range cameras for infrastructure surveillance (Demo at Building 44 CDEC)

The CSIR develops and integrates high-performance long-range optical surveillance sensors with exceptional performance. These sensors typically operate in the visible and near-infrared spectral bands at light conditions down to a quarter moon and, in some cases, even complete darkness, using covert illumination. The long-range sensors can detect and identify potential intruders in order to provide reaction forces with accurate, real-time information used to intercept suspects. These sensors are designed to supply situation awareness of an area of interest.

The CSIR offers the long-range sensor as part of the MeerKat Wide Area Surveillance System (WASS) which includes a radar sensor. Meekat was developed for anti-rhino poaching at Kruger national park and has successfully detected 97% of poachers that entered the deployment area. The CSIR offers custom solutions that are continuously upgraded and optimised according to each user's specific requirement and scenario.

The tour will end with a light lunch and the CSIR International Convention Centre at 13h00.

More information to follow soon.

Includes visits to at least four CSIR labs/facilities, transport at CSIR, tea/coffee on arrival and light lunch.