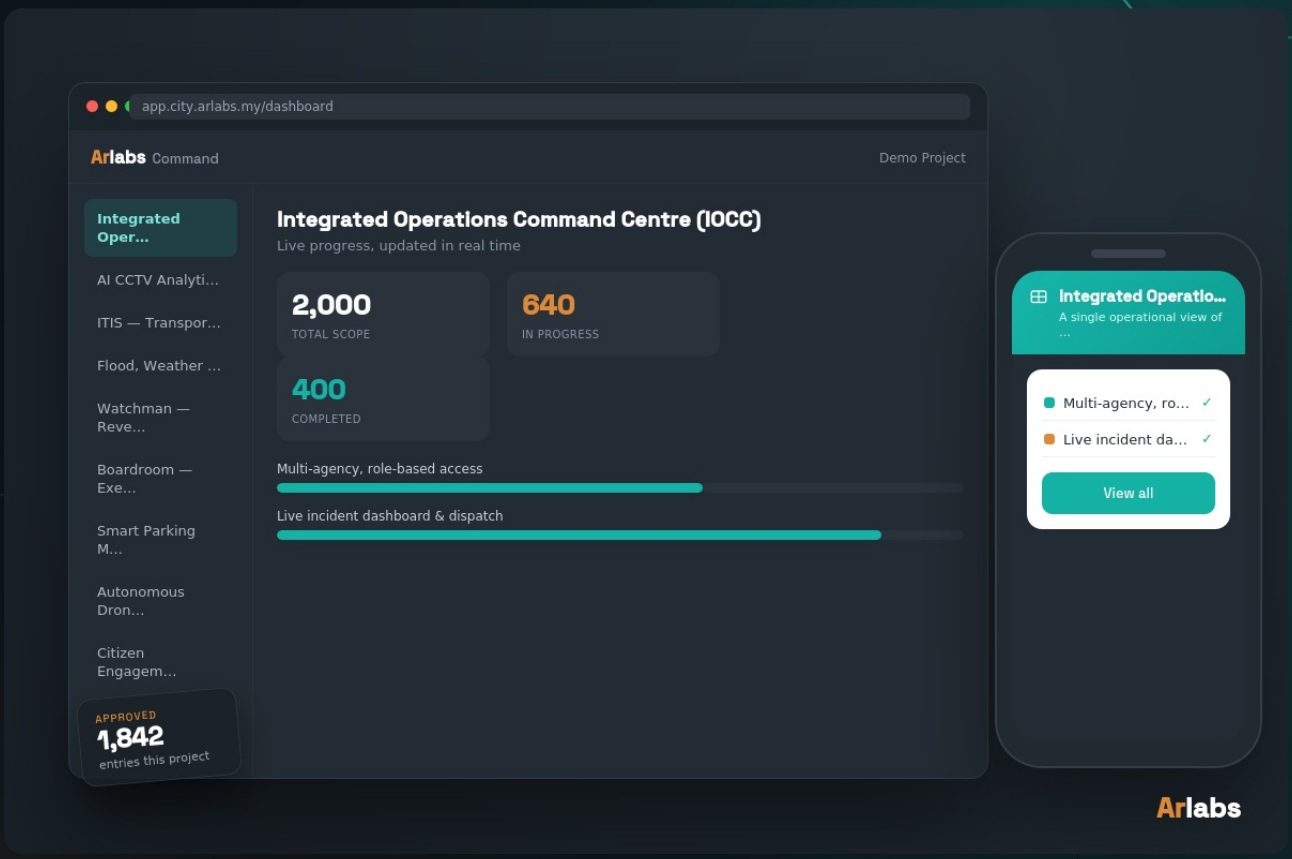
PRODUCT WHITEPAPER

ARLABS



COMMAND CENTRE

Arlabs Command

A modular intelligent-operations system for cities and large operators — bringing every camera, sensor, drone, satellite and dataset onto one live map, with AI analytics, multi-agency coordination and executive intelligence.

Version 1.0 · September 2026 · Classification: Public · 12 modules · arlabs.my

ABOUT THIS DOCUMENT

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Screens shown are illustrative product renderings. Features and module scope are confirmed per deployment. © 2026

SECTION 1

Executive summary

A modular intelligent-operations system for cities and large operators — bringing every camera, sensor, drone, satellite and dataset onto one live map, with AI analytics, multi-agency coordination and executive intelligence.

12	1	3	MYT
MODULES	SHARED IDENTITY & AUDIT LAYER	CHANNELS: WEB · IOS · ANDROID	TIMEZONE & LOCAL RULES

What it delivers

- ✓ 11 activatable modules in one system
- ✓ AI video, IoT, drone & geospatial analytics
- ✓ Multi-agency command-centre coordination
- ✓ PDPA-aligned by design — ANPR-default, no facial recognition

Who it is for

Arlabs Command is built for organisations whose work happens across offices, sites and the field — where activity is recorded by many people, has to be verified before it counts, and must be reportable to management and clients. It suits operators that have outgrown spreadsheets and chat groups but do not want a heavy enterprise suite.

Why it matters

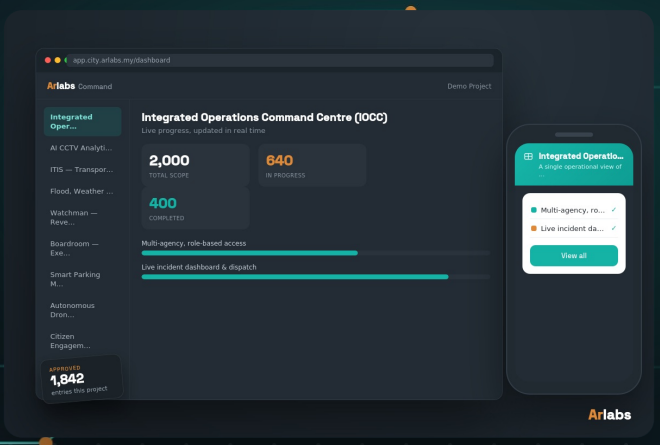
Manual and disconnected records cost operators in three places: time lost consolidating data, disputes over what was actually done, and decisions made on stale numbers. Arlabs Command addresses all three by capturing work where it happens, gating it through approval, and presenting a live, verified picture to the people who need it.

> IN PRACTICE
>
> A city council starts with a command centre and AI CCTV, then adds flood warning, revenue intelligence and drones over time — every agency working from one live operational picture, with no rebuilding.

SECTION 2

Solution overview

A modular intelligent-operations system for cities and large operators — bringing every camera, sensor, drone, satellite and dataset onto one live map, with AI analytics, multi-agency coordination and executive intelligence.



AI / ML · Computer vision · IoT · Geospatial · Drones

One system, 12 modules

Every module shares the same identity, access-control, notification and audit layer, so a record created in one place is visible, actionable and traceable everywhere it is permitted to be. Modules can be adopted individually and enabled over time.

- Integrated Operations Command Centre (IOCC)
- AI CCTV Analytics & ANPR
- ITIS — Transport Information System
- Flood, Weather & Maritime Warning
- Watchman — Revenue & Compliance
- Boardroom — Executive Dashboards
- Smart Parking Management
- Autonomous Drone Patrol
- Citizen Engagement App
- Fishing Point — Blue Economy
- Digital Twin
- Core Foundation

How work flows through the system

1 · Capture

Work is recorded at the point it happens — on mobile in the field or on the web in the office — with photos, timestamps and the identity of the person recording it.

2 · Verify

Entries pass through role-based review before they count. Supervisors approve, edit or return; every decision is logged with who and when.

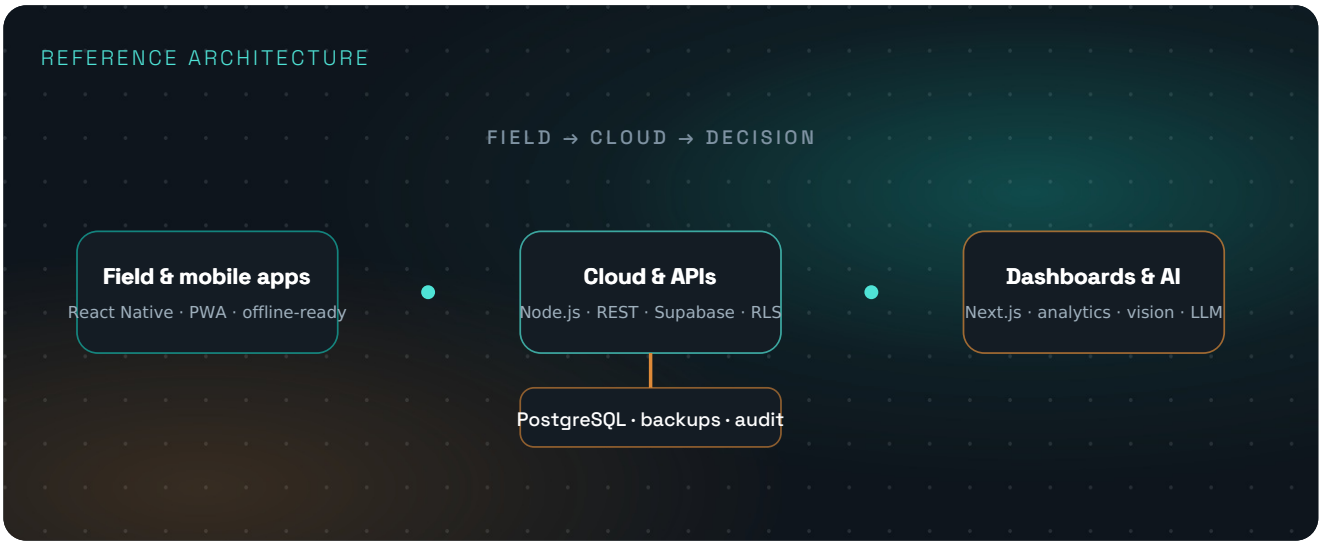
3 · Report

Verified records roll up into live dashboards and exportable reports, so management, clients and auditors see the same trusted numbers.

SECTION 3

Architecture & how it works

Arlabs Command runs on a modern, cloud-hosted stack: mobile and web clients talk to a secured API layer over a PostgreSQL database, with access enforced at the database level rather than only in application code.



Clients

A responsive web dashboard for office, supervisory and management roles, and a mobile app for field users that works offline and syncs automatically when connectivity returns. Nothing to install for web users; the mobile app runs on iOS and Android.

Data & security

Every tenant's data is isolated with row-level security, so permissions are enforced by the database itself. All traffic is encrypted in transit, backups are automated, and every create, edit, approval and deletion is written to an immutable activity log.

Integration

REST APIs allow controlled exchange with other systems — inventory, finance, document stores or hardware — where a deployment requires it. Exports to PDF and Excel are built in.

Technology

AI / ML · Computer vision · IoT · Geospatial · Drones

The stack is shared across all Arlabs products, which keeps deployments consistent and maintainable over the long term.

SECTION 4.1

Module 1 / 12

Integrated Operations Command Centre (IOCC)

A single operational view of every camera, sensor, drone and dataset on one map.

What it does

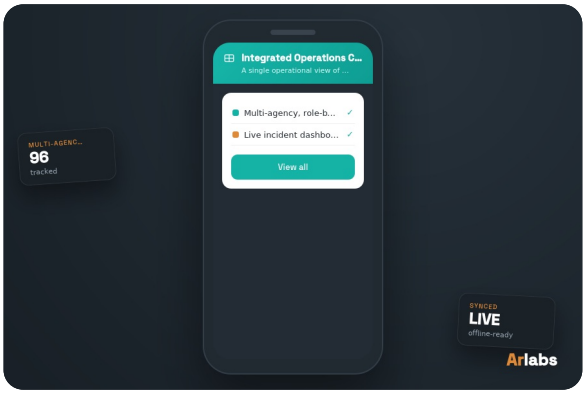
The Integrated Operations Command Centre is the heart of the system — a single operational picture that brings every camera, sensor, drone, satellite feed and dataset onto one live map, with multi-agency access and coordinated dispatch.

Key features

- One live map of every feed and dataset
- Multi-agency, role-based access
- Live incident dashboard, alerting and dispatch
- Video-wall and operator-console ready
- Large-scale recording and analytics backend

Benefits

- One shared picture for every agency
- Faster, coordinated response
- No blind spots across systems



How it works

1. Feeds and data flow into one map
2. Operators monitor and triage incidents
3. Response is dispatched and coordinated

USE CASE

Operators from multiple agencies watch one live map and coordinate incident response from a single console.

SECTION 4.2

Module 2 / 12

AI CCTV Analytics & ANPR

Edge-AI analytics across the camera network, day and night.

What it does

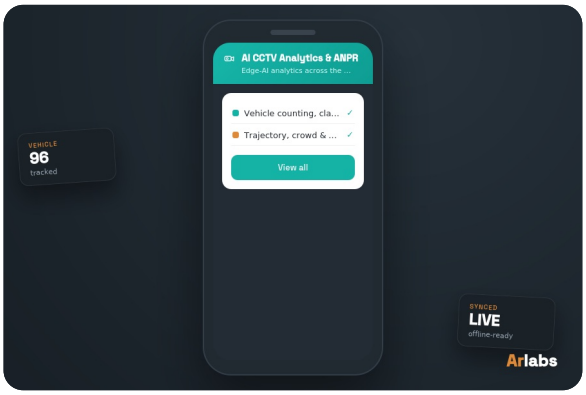
AI CCTV Analytics turns ordinary camera feeds into searchable, actionable intelligence using edge AI — reading number plates day and night, counting and classifying vehicles, and flagging anomalies automatically.

Key features

- ✓ Vehicle counting & classification
- ✓ ANPR / number-plate recognition, day and night
- ✓ Vehicle attribute & trajectory detection
- ✓ Crowd, loitering and perimeter analytics
- ✓ Incident and anomaly detection at the edge

Benefits

- ✓ Video becomes searchable data
- ✓ Events surfaced without watching every screen
- ✓ Evidence-grade records for disputes



How it works

1. Cameras stream to edge AI
2. Plates, vehicles and anomalies are detected
3. Events are logged and pushed to the command centre

USE CASE

Cameras automatically read plates and flag anomalies, turning raw video into searchable, actionable events.

SECTION 4.3

ITIS — Transport Information System

Intelligent traffic monitoring, detection and control.

What it does

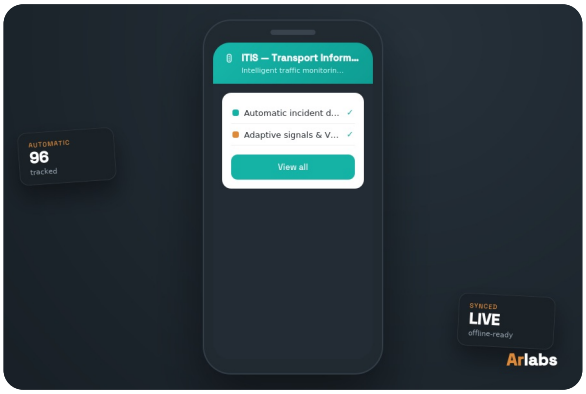
The Integrated Transport Information System watches the road network — detecting incidents automatically, analysing journeys, and controlling signals and message signs to keep traffic moving.

Key features

- ✓ Automatic incident detection (stopped vehicles, accidents, congestion, flooding)
- ✓ Signalised-junction surveillance
- ✓ Journey-time and origin–destination analytics
- ✓ Adaptive / demand-responsive signal control
- ✓ Variable Message Sign management

Benefits

- ✓ Incidents caught in seconds
- ✓ Drivers guided in real time
- ✓ Smoother, data-driven traffic flow



How it works

1. Sensors and cameras monitor the network
2. Incidents and patterns are detected
3. Signals and signs respond automatically

USE CASE

A stopped vehicle is detected automatically and drivers are warned via message signs within seconds.

SECTION 4.4

Module 4 / 12

Flood, Weather & Maritime Warning

Real-time environmental monitoring and public early warning.

What it does

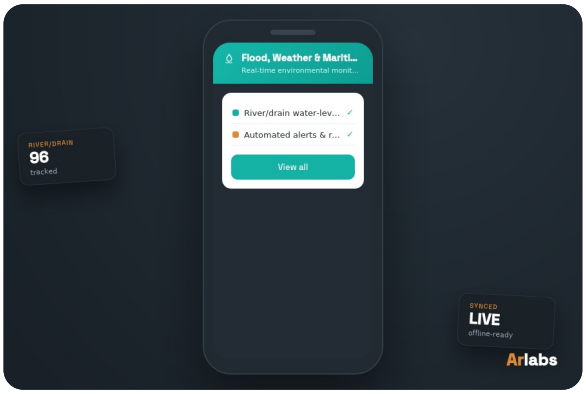
This module provides real-time environmental monitoring and early warning — river and drain levels, weather and sea-state — with automated alerts to agencies and the public before conditions escalate.

Key features

- ✓ River / drain water-level IoT telemetry
- ✓ Flood-point CCTV threshold verification
- ✓ Weather and district-level early warning
- ✓ Maritime / sea-state monitoring and advisories
- ✓ Automated alerts and road-closure guidance

Benefits

- ✓ Communities warned earlier
- ✓ Decisions backed by live data
- ✓ Coordinated response to flooding



How it works

1. Sensors report levels and conditions
2. Thresholds trigger verification and alerts
3. Guidance goes to agencies and the public

USE CASE

Rising river levels trigger automatic public alerts and road-closure guidance before flooding spreads.

SECTION 4.5

Module 5 / 12

Watchman — Revenue & Compliance

Geospatial detection of revenue leakage and non-compliance.

What it does

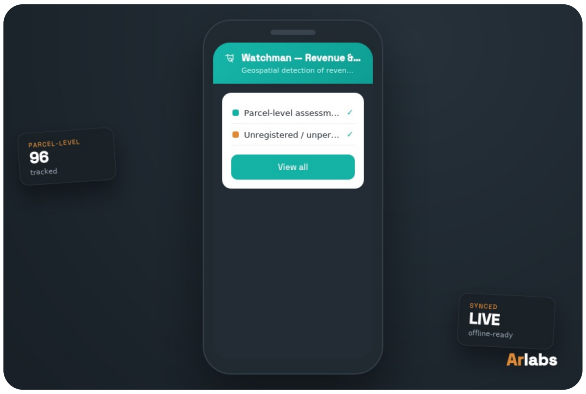
Watchman is geospatial revenue and compliance intelligence — mapping assessment tax parcel by parcel over satellite and drone imagery to surface unregistered properties, under-assessment and unauthorised construction.

Key features

- ✓ Parcel-level assessment-tax mapping
- ✓ Detection of unregistered / under-assessed properties
- ✓ Unauthorised land-use & unpermitted-build detection
- ✓ Licence & permit analytics
- ✓ Terabyte-scale imagery handled in-browser

Benefits

- ✓ Recover lost revenue
- ✓ Target enforcement where it matters
- ✓ Multi-year change visible at a glance



How it works

1. Imagery and records are overlaid
2. Anomalies and gaps are detected
3. Cases are flagged for action

USE CASE

Satellite imagery reveals unregistered extensions and under-assessed properties for revenue recovery.

SECTION 4.6

Module 6 / 12

Boardroom — Executive Dashboards

One strategic view of the whole operation for leadership.

What it does

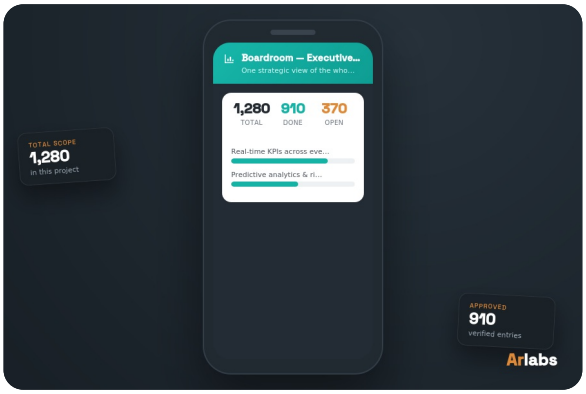
Boardroom is the executive view — every department's KPIs combined into one strategic dashboard, with predictive analytics that forecast risk and surface inefficiency before it bites.

Key features

- ✓ Combined multi-domain KPI view
- ✓ Real-time performance across departments
- ✓ Predictive analytics & risk forecasting
- ✓ Automated alerts on thresholds
- ✓ Configurable reporting and export

Benefits

- ✓ Leadership sees everything in one place
- ✓ Problems spotted early
- ✓ Decisions backed by live data



How it works

1. Data flows in from every module
2. KPIs and forecasts are computed
3. Leaders monitor and export reports

USE CASE

Leadership sees one live KPI view across every department, with predictive risk alerts.

SECTION 4.7

Module 7 / 12

Smart Parking Management

ANPR-based parking operations and enforcement.

What it does

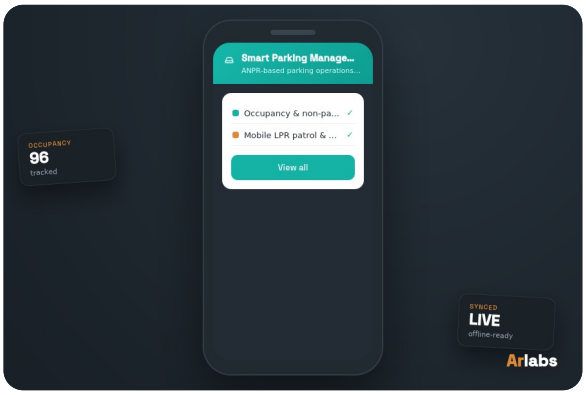
Smart Parking runs parking operations and enforcement with ANPR — detecting occupancy and non-payment, dispatching mobile enforcement, and issuing compounds under council by-laws.

Key features

- ANPR occupancy & non-payment detection
- Mobile LPR patrol vehicles
- Digital payment integration
- Compound issuance under by-laws
- Bay-level occupancy & revenue analytics

Benefits

- Higher compliance and revenue
- Efficient, targeted enforcement
- Clear occupancy insight



How it works

1. ANPR reads plates and payment status
2. Non-payment is flagged to patrols
3. Compounds are issued and recorded

USE CASE

ANPR detects unpaid parking and issues compounds under council by-laws automatically.

SECTION 4.8

Module 8 / 12

Autonomous Drone Patrol

Scheduled and trigger-based aerial patrols with live AI.

What it does

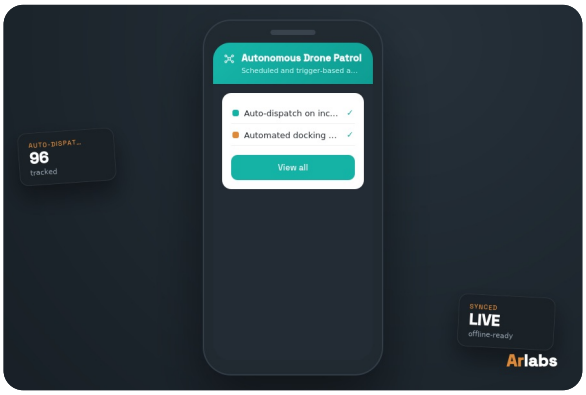
Autonomous Drone Patrol adds an aerial layer — scheduled and trigger-based flights with live AI detection, dispatched automatically to incidents and returning to dock and recharge on their own.

Key features

- ✓ Scheduled patrols of key corridors
- ✓ Trigger-based auto-dispatch to incidents
- ✓ Live aerial AI detection & tracking
- ✓ Context-aware operation
- ✓ Automated docking and charging

Benefits

- ✓ Eyes overhead within minutes
- ✓ Coverage without extra crews
- ✓ Safer response to escalating incidents



How it works

1. A schedule or trigger launches the drone
2. It streams AI-analysed aerial video
3. It returns to dock and recharges

USE CASE

A drone auto-launches to an incident, streams aerial AI detection, then returns to dock and recharge.

SECTION 4.9

Citizen Engagement App

A direct channel between residents and the command centre.

What it does

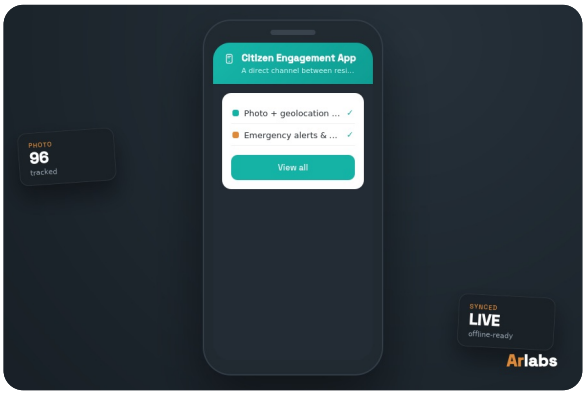
The Citizen Engagement App is the public's direct line to the command centre — residents report issues with a photo and location, receive emergency alerts, and every report lands live on the operational map.

Key features

- ✓ Citizen issue reporting (photo + geolocation)
- ✓ Reports tracked to resolution
- ✓ Flood / emergency push alerts
- ✓ Reports appear live on the command-centre map
- ✓ AI social & web sentiment monitoring

Benefits

- ✓ Residents heard and kept informed
- ✓ Real-time eyes across the city
- ✓ Public perception tracked



How it works

1. A resident submits a report
2. It appears on the command-centre map
3. It is actioned and the resident updated

USE CASE

A resident reports a pothole with a photo; it lands live on the command-centre map, tracked to resolution.

SECTION 4.10

Module 10 / 12

Fishing Point — Blue Economy

Satellite intelligence-as-a-service for coastal communities.

What it does

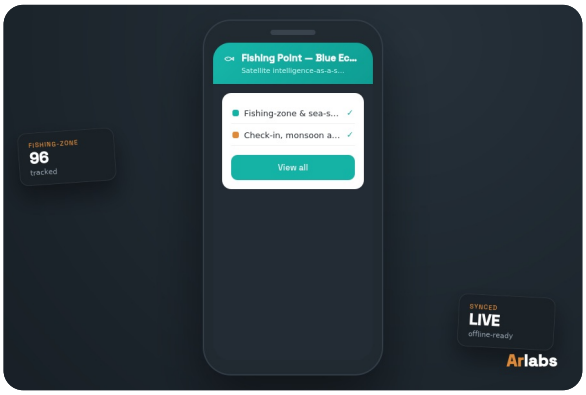
Fishing Point is satellite intelligence-as-a-service for coastal communities — daily fishing-zone maps, sea-state and weather safety advisories, and departure / return check-in with a distress flag linked to search-and-rescue.

Key features

- ✓ Satellite fishing-zone & species tracking
- ✓ Daily fishing-point maps via mobile
- ✓ Sea-state & weather safety advisories
- ✓ Departure / return check-in & monsoon alerts
- ✓ Distress flag with SAR integration
- ✓ Oversight for sustainable fishing

Benefits

- ✓ Safer, more productive trips
- ✓ A safety net for fishermen
- ✓ Support for sustainable fisheries



How it works

1. Satellite data is processed daily
2. Zones and advisories reach fishermen’s phones
3. Check-in and distress link to search-and-rescue

USE CASE

Fishermen get daily satellite fishing-zone maps and safety advisories, with distress check-in for search-and-rescue.

SECTION 4.11

Module 11 / 12

Digital Twin

A live 3D model of the city for planning and showcase.

What it does

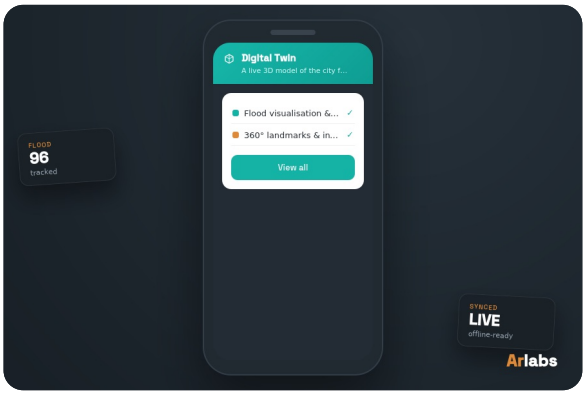
The Digital Twin is a live 3D model of the city — landmarks with building information and 360° views, flood scenarios visualised on the real cityscape, and a planning and investor-showcase tool.

Key features

- ✓ 3D landmarks with building information
- ✓ 360° views
- ✓ Flood visualisation on the real cityscape
- ✓ Development-control planning tool
- ✓ Tourism / investor virtual tours

Benefits

- ✓ Plan and drill before events happen
- ✓ Communicate development visually
- ✓ Showcase the city to investors



How it works

1. The city is modelled in 3D
2. Scenarios and data are layered on
3. Planners and stakeholders explore it

USE CASE

Planners visualise a flood scenario on a true 3D model of the city before it happens.

SECTION 4.12

Module 12 / 12

Core Foundation

The modular base every module runs on.

What it does

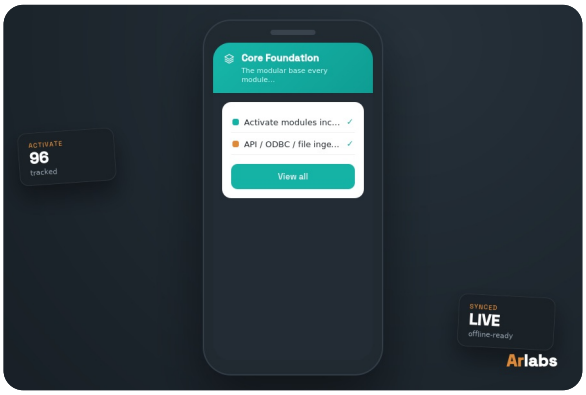
The Core Foundation is the modular base every module runs on — activate modules incrementally with no rebuilding, ingest data through multiple channels, and stay PDPA-aligned throughout.

Key features

- ✓ Modular architecture — activate modules incrementally
- ✓ Data ingestion via API / ODBC / file / scheduled feeds
- ✓ AI, IoT, drone and geospatial analytics engine
- ✓ Standard hardware integration (ONVIF / SDK)
- ✓ PDPA-aligned (ANPR-default, not facial recognition)

Benefits

- ✓ Start small, grow over time
- ✓ Fits existing data and hardware
- ✓ Privacy-respecting by design



How it works

1. Data flows in from many sources
2. Modules run on a shared engine
3. New modules switch on when needed

USE CASE

A city starts with two modules and adds more over time — no rebuilding, all on one base.

SECTION 5

Security, compliance & data

Operational records are evidence. Arlabs Command is designed so that data is isolated, actions are attributable and history cannot be quietly rewritten.

Role-based access control

Users see and do only what their role permits — enforced at the database with row-level security, not just in the interface.

Encryption in transit

All traffic between clients, APIs and the database is encrypted with HTTPS/TLS. Credentials are stored securely and never in application code.

Complete audit trail

Every create, edit, approval, rejection and deletion is logged with the acting user and timestamp. Logs are visible to authorised administrators and cannot be edited.

Backups & recovery

Automated backups with tested restore procedures. Retention periods are agreed per deployment.

Malaysia-ready by default

MYT-accurate timestamps, Malaysian public-holiday and rest-day rules, Bahasa Malaysia and English.

PDPA-aware handling

Personal data is collected and processed only for the purpose of the service. Data-residency and retention options are confirmed per engagement.

Data ownership

Customer operational data remains the customer's property. Records, reports and exports are available throughout the term, and structured data export is provided at termination as part of transition assistance.

Security and compliance features vary by product and deployment; specific controls, hosting region and retention periods are confirmed in the engagement agreement.

SECTION 6

Deployment, engagement & support

Arlabs deploys, configures and supports Arlabs Command as one accountable partner — from scoping through go-live and ongoing operation.

Typical rollout

Discover

Confirm workflows, roles, sites and success criteria with process owners.

Configure

Set up modules, users, locations, assets and approval chains.

Pilot

Run one workflow with one team; verify data quality and reporting.

Go live

Train users, migrate data and switch official reporting to the system.

Support

Monitor, maintain, enhance and review against SLAs.

Engagement models

Build & run

Adopt the product as a hosted service. Arlabs deploys, configures and supports it for your team, with training and handover.

Custom build

Extend the product or build additional modules to your scope, with clear milestones and a fixed, transparent plan.

Managed support

Ongoing maintenance, enhancements and SLA-backed support for a live deployment, with tiered response targets.

What is included

- ✓ Web dashboard and mobile app access for licensed users
- ✓ Environment configuration, release records and documentation
- ✓ Administrator and process-owner training
- ✓ Defect rectification warranty after acceptance
- ✓ Support during Malaysian business hours; extended tiers available

Commercial terms, licensing model and support tiers are provided in a separate proposal. Pricing is available on request.

SECTION 7

About Arlabs

Arlabs Sdn. Bhd. is a Malaysian software and technology company. We design, build and run our own software products — and bring the same disciplined, accountable delivery to custom work for our clients.

Our products

- **Arlabs CRM & Operations** — Flagship product, 14 modules
- **Arlabs Command** — Command centre, 12 modules
- **Arlabs SiteTrack** — Field-ops product, 12 modules
- **Arlabs Hadir** — Attendance & HR product, 8 modules
- **Arlabs Kira Kira** — Accounting product, 10 modules

What we do

Software development, web and mobile apps, IT consultancy, system integration, cloud and infrastructure, cybersecurity, data and dashboards, AI and automation, and IT support and maintenance.

Registered name	Arlabs Sdn. Bhd.
Registration no.	202001027077 (1383397-M)
Incorporated	8 September 2020
MSIC codes	62010 · 62021 · 62099
Based in	Selangor, Malaysia
Email	hello@arlabs.my
Web	arlabs.my

Why teams choose us

- We build and run our own products
- End-to-end delivery, one accountable partner
- Senior, hands-on team
- Built for Malaysian conditions

See Arlabs Command on your own operation.

Book a walkthrough with our team. We will map the modules to your workflows, confirm the scope, and show you exactly what your teams and management would see.

hello@arlabs.my · arlabs.my

Book a demo

Arlabs Sdn. Bhd. · Reg. 202001027077 (1383397-M) · MSIC 62010 / 62021 / 62099
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