

SECTOR PROFILE

SMART PORTS & LOGISTICS

CONNECTED PORTS.
VISIBLE CARGO.
STRONGER TRADE.

WE ARCHITECT | WE INTEGRATE | WE DELIVER

SECTOR VISION

Connected ports. Visible cargo. Stronger trade.

ITC develops, architects and manages integrated solutions for this sector—bringing specialist technologies together within one coordinated project framework.

ONE REQUIREMENT. ONE ARCHITECTURE.
ONE COORDINATED SOLUTION.



SMART PORTS & LOGISTICS

From vessel arrival to cargo release.

LEAD SOLUTION PARTNER

ITC leads the solution

01

DEVELOP

Requirements & outcomes

02

ARCHITECT

Solution & interfaces

03

INTEGRATE

Systems & specialists

04

DELIVER

Implementation & commissioning

05

EVOLVE

Optimization & expansion

SECTOR CHALLENGES

Complex environments need integrated thinking

01
Fragmented systems

02
Operational complexity

03
Data silos

04
Cyber & resilience risk

05
Legacy integration

06
Lifecycle cost

CORE CAPABILITIES

Smart Ports & Logistics — solution domains

01
Port call & vessel traffic

02
Berth & terminal operations

03
Cargo visibility & tracking

04
Single window & customs

05
Smart gates & truck flow

06
Logistics control tower

REFERENCE ARCHITECTURE

Architecture before products



PRIORITY USE CASES

Start with outcomes, not technology

01
Just-in-time vessel arrival

02
Berth & yard optimization

03
Truck appointment system

04
Digital customs clearance

05
Cold-chain visibility

06
Port operations command center

DATA & AI

Turn trusted data into operational intelligence

- Unified and governed data foundation
- Role-based dashboards and decision support
- Predictive analytics for operational planning
- AI assistants and automation where appropriate
- Human oversight, permissions and auditability
- Secure integration with authorized source systems



SMART PORTS & LOGISTICS

Every vessel and container, visible.

CYBERSECURITY & RESILIENCE

Security designed into the architecture

01
Identity & access

02
Network segmentation

03
Data protection

04
Monitoring & SOC

05
Backup & recovery

06
Incident response

INTEGRATED OPERATIONS

One operational picture across multiple systems

- Cross-domain situational awareness
- Real-time alarms and events
- Operational KPI monitoring
- Incident and escalation workflows
- Resource coordination
- Executive decision support



SMART PORTS & LOGISTICS

Port, terminal and hinterland in sync.

INTEGRATION FRAMEWORK

Connect systems without creating another silo

01
Applications

02
Data platforms

03
AI & analytics

04
IoT / field systems

05
Infrastructure

06
Command & operations

INTEROPERABILITY

Design interfaces deliberately

01
Architecture first

02
Open / appropriate standards

03
API-led integration

04
Data ownership

05
End-to-end testing

06
Controlled change

DELIVERY FRAMEWORK

From concept to operational readiness

01

DISCOVERY

Requirements & baseline

02

ARCHITECTURE

Concept & interfaces

03

DESIGN

Detailed design & packages

04

INTEGRATION

Configure & test

05

COMMISSION

Train & hand over

06

EVOLVE

Optimize & expand

PROGRAM GOVERNANCE

One coordinated project framework

01
Client governance

02
ITC leadership

03
Technology specialists

04
Local delivery

05
QA / QC

06
Documentation & handover

DELIVERY ECOSYSTEM

Global technology. Local delivery.



IMPLEMENTATION ROADMAP

Transform in controlled stages

01
DISCOVER

02
ARCHITECT

03
DESIGN

04
BUILD & INTEGRATE

05
COMMISSION

06
OPTIMIZE

OUTCOME FRAMEWORK

Measure what matters

01

Service quality

02

Operational efficiency

03

Safety & resilience

04

Data visibility

05

Lifecycle performance

06

User experience

WHY ITC

Technology-independent. Solution-led.

01

One Lead Solution Partner

02

Architecture Before Products

03

Integrated by Design

04

Technology-Independent

05

Global + Local

06

Built to Evolve

EXPERIENCE BEHIND THE SOLUTION

Transparent project-reference labeling

ITC PROJECT

Use only where ITC had a direct contracted role.

TECHNOLOGY ECOSYSTEM REFERENCE

Use for relevant specialist-partner references, clearly attributed.



LET'S TALK

DISCUSS YOUR SMART PORTS & LOGISTICS PROJECT WITH ITC

From requirement to architecture, integration, delivery and future evolution.

WE ARCHITECT.
WE INTEGRATE.
WE DELIVER.