COMPANY PROFILE 2026

Technology for sustainable value.

Software and AI solutions that help businesses operate smarter, accelerate growth and create real impact.



PowerIT by CTC Smart Tech

PowerIT — Engineering teams & enterprise systems

AI Studio

AI Studio — Bringing AI into everyday work

SOLVING TODAY. BUILDING TOMORROW.

Solve today. Build tomorrow.

We believe technology matters when it helps people work better and businesses grow sustainably.



- Understand the real problem
- Design the right solution
- Support every step of change

ABOUT CTC SMART TECH

Connecting business insight with technology expertise.

CTC Smart Tech supports businesses from defining the challenge to building software, integrating systems and applying AI.



01
Business consulting
Understand the current situation, goals and priorities.

02
Solution design
Connect processes, data and experiences.

03
Delivery & partnership
Pilot, hand over and continuously improve.

PROFESSIONAL FOUNDATION

Professional credentials. International management standards.

AI, cloud and software engineering, supported by quality and information security practices.



TEAM CERTIFICATIONS & TRAINING

Google
TensorFlow Developer Certificate

Microsoft
Certified Azure AI Engineer Associate

AWS
Certified Machine Learning — Specialty

NVIDIA
Deep Learning Institute
Specialist training programs

IBM
AI Engineering Professional Certificate



MANAGEMENT SYSTEM STANDARDS

ISO 9001
Quality management

ISO/IEC 27001
Information security management

Professional certifications are held by individual team members. ISO refers to management system standards. Names and trademarks belong to their respective organizations.

OUR BRAND ECOSYSTEM

Two brands. One shared direction.

CTC Smart Tech

PowerIT by CTC Smart Tech

PowerIT
Software platforms, systems integration and flexible engineering teams.



AI Studio

AI Studio
AI assistants, document processing and workflow automation.



One partner, from challenge to operation.

OUR PRINCIPLES

People. Technology. Value.



PEOPLE AT THE CENTER

Understand users and how work really happens.

THE RIGHT TECHNOLOGY

Choose solutions that fit needs and operational capabilities.

VALUE WITH EVIDENCE

Agree on outcomes, validate and improve step by step.

PowerIT
by CTC Smart Tech

POWERIT / ENGINEERING & ENTERPRISE SYSTEMS

Strong foundations. Seamless operations.

Engineering teams and software solutions tailored to every stage of business growth.

- Build products
- Connect systems
- Scale capabilities



POWERIT CAPABILITIES

From products to enterprise systems.



Product Engineering

Web applications and business systems.

Enterprise Integration

Connect APIs, ERP, CRM and data flows.

AI & Data

Data and integrated AI capabilities.

Cloud & Platform

Deployment and operations platforms.

Quality Engineering

Testing and quality assurance.

Technical Leadership

Architecture and technical direction.

POWERIT ENGAGEMENT MODELS

The right expertise. At the right time.

Flexible to match your resources, readiness and business priorities.

Staff Augmentation

Add specialists as needed.

Team Augmentation

Extend your existing development team.

Dedicated Team / ODC

A dedicated team for your long-term roadmap.

Project Delivery

Agreed project scope and outcomes.



AI Studio

CTC Smart Tech
PEOPLE × TECHNOLOGY × REAL IMPACT

AI STUDIO / APPLIED AI & AUTOMATION

Bringing AI into everyday work.

Turn data, workflows and knowledge into tools that help people work more effectively.

- Searchable knowledge
- Processable documents
- Connected workflows



AI STUDIO CAPABILITIES

Practical AI. Tangible value.

Knowledge assistants

— Find information in relevant data sources.

Document processing

— Read, extract and support record reconciliation.

Automation

— Connect processing and approval steps.

Operational analytics

— Consolidate data to support decisions.

People retain oversight and decision-making at critical steps.

FROM DATA TO ACTION

AI that works with your workflow.



01 / KNOWLEDGE SOURCES

Relevant documents, data and systems.



02 / UNDERSTAND THE CONTEXT

Organize data and clarify the task to support.

03 / CONNECT THE WORK

Search, process and hand off within business workflows.





04 / HUMAN OVERSIGHT

Check outputs, approve and capture feedback.

INDUSTRIES

Understand the context. Design the right solution.





Manufacturing & Industry



Distribution & Retail



Real Estate & Construction



Tourism & Hospitality



Professional Services



Agriculture & Commerce

CTC Smart Tech
PEOPLE • TECHNOLOGY • REAL IMPACT

CASE STUDIES

From specific challenges to concrete solutions.

06

06 SOLUTION PROFILES



01 / CTC ERP



04 / Flamingo Travel



02 / MBAMC Sales Kit



05 / Document Operations



03 / RealProVN



06 / Plant Operations



Delivered scope and prototypes are clearly identified in each case.

CASE STUDY 01 / CTC ERP

Operational platform

One platform. Multiple operating spaces.

THE CHALLENGE

Tasks, quotations and workflows need clear ownership. When several organizations share a platform, their data still needs clear boundaries.

THE APPROACH

- One ERP core, with modules configured for each organization.
- Share records with their owners and authorized collaborators.
- Connect tasks, projects, workflows and data synchronization.
- Keep work in context. Bring the right people together.

Technology for people and real value

01 People
THE RIGHT PEOPLE
THE RIGHT OWNERSHIP

02 Process
CONNECT WORKFLOWS
ACROSS ORGANIZATIONS

03 Platform
SAFE DATA
SUSTAINABLE OPERATIONS



See work clearly. Operate proactively.

Task analytics on the CTC ERP platform

DELIVERED SCOPE
Tasks & projects
Record-level permissions
Analytics & workflows

Technology creating real value for businesses

WORK SMARTER TOGETHER



CTC ERP | CONNECTING PEOPLE – OPERATING EFFECTIVELY

BUILT FOR YOUR SUCCESS

- Tasks & projects
- Record-level permissions
- Analytics & workflows

Interface display is adapted for this profile.
Localized interface illustration.

CASE STUDY 02 / MBAMC SALES KIT

Working application

One property record. Four types of collateral.



THE CHALLENGE

A property needs several marketing formats with consistent content. Editing each design separately makes information and branding harder to align.

THE SOLUTION

- Enter and validate data in one property record.
- Apply brand rules through design templates.
- Preview the right format before exporting.

04

TYPES OF COLLATERAL

A4 Fact Sheet · Poster · Banner · Signage



Consistent information from a single source.

CASE STUDY 02

MBAMC SALES KIT

Enter once.
Export the right format.

Working application · illustrative data

FROM CONTENT
TO STANDARD FORMAT
FASTER
MORE CONSISTENT
MORE PROFESSIONAL



PDF
PNG
JPG

PDF • PNG • JPG

Application interface adapted for this profile.

ONE SOURCE RECORD
Templates keep content and branding consistent.

Preview, check and choose the file format to export.

CASE STUDY 03 / REALPROVN

From project discovery to informed advice. Operational platform



THE CHALLENGE

Scattered project details, locations, available units and documents make it easy to lose context when advising clients.

THE APPROACH

- Find projects that match client needs.
- Bring information and documents into each project page.
- Connect projects, inventory and units in one shared model.

DELIVERED SCOPE

Project discovery · Advisory documents · Role-based management

One connected project story.

CASE STUDY 03 / REALPROVN

Centralized information. Connected advice.

Project discovery and advisory content interface



- Public interface adapted for this profile.

CONNECTED WORKFLOWS

Project listings, information and documents in one continuous experience.

INTENDED VALUE

Find the right content and retain context when teams collaborate.

CASE STUDY 04 / FLAMINGO TRAVEL

One tour record. Three connected teams.

ERP operational · AI at prototype stage



THE CHALLENGE

Sales, Operations and Accounting work on the same trip with different responsibilities. Tour records and supplier deadlines need connected tracking.

THE SOLUTION

- A shared tour record connects departments.
- Quotations, progress and payment deadlines follow each workflow.
- Test a pricing assistant while retaining review and approval.

SCOPE

- ERP & e-commerce; role-based apps and a pricing assistant at prototype stage.
- The pricing assistant has not been presented as accepted for production.

03

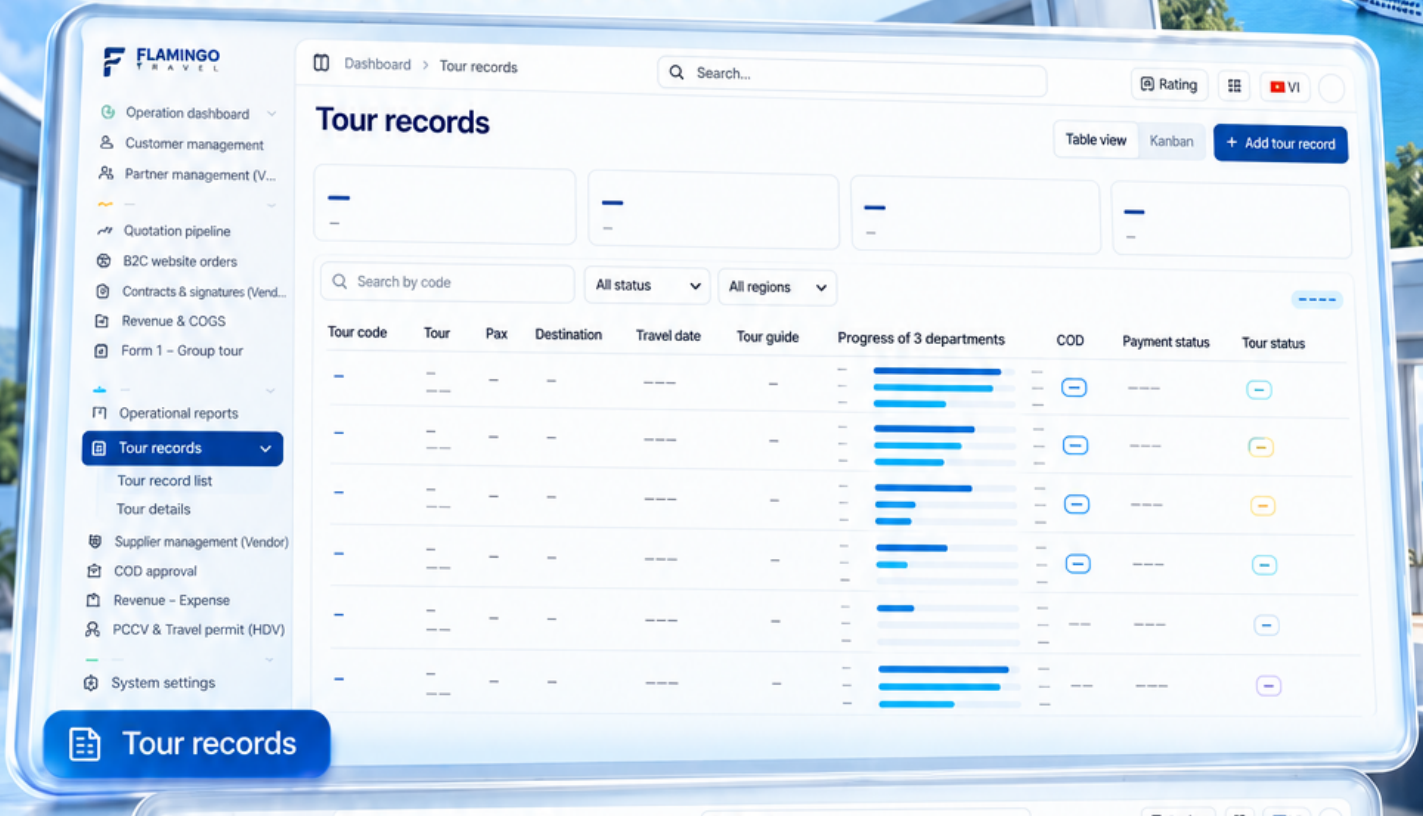
TEAMS

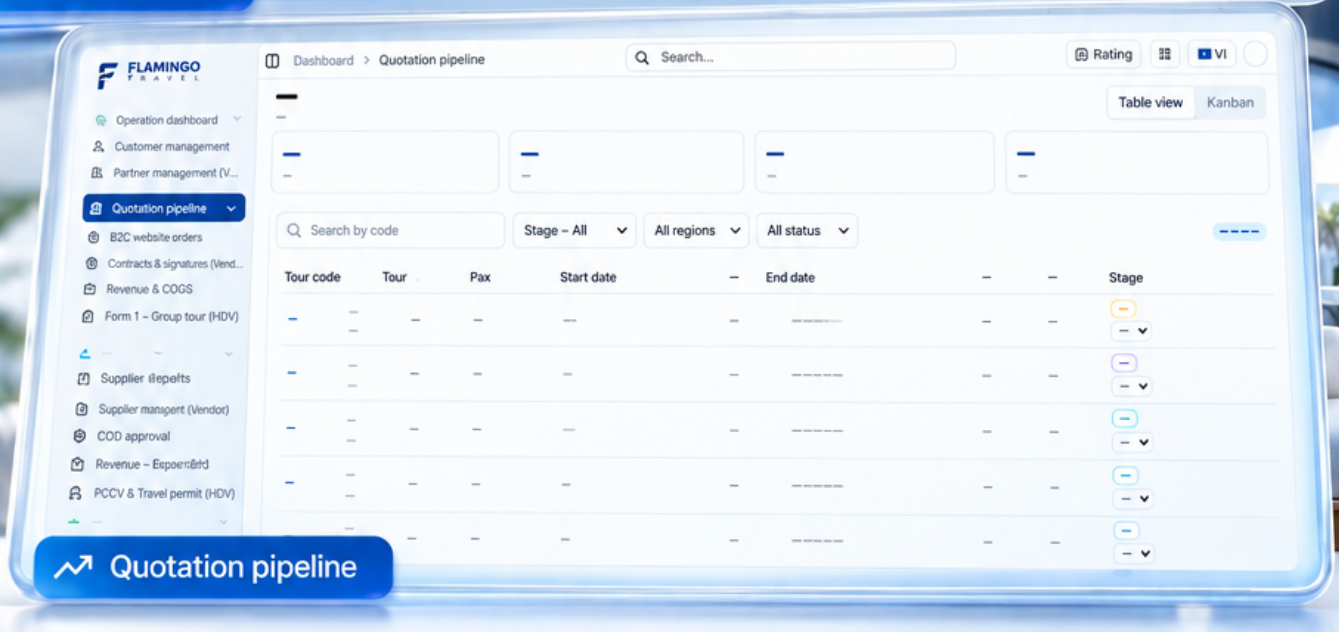
CONNECTED TO CREATE A SEAMLESS JOURNEY

TRAVEL
SMARTER
TOGETHER

CASE STUDY 04 / FLAMINGO TRAVEL

Keep operations connected through one tour record.





Clear delivery scope

ERP is operational.
Role-based apps and the pricing assistant remain prototypes.

Record details, client information and financial data have been concealed.

Interface adapted for this profile.
Localized interface illustration.

CASE STUDY / AI STUDIO

DocAgent & Back-office Copilot

From scattered documents to evidence-backed records.

Functional prototype · simulated data



THE CHALLENGE

Reading a document is not enough for approval. When information differs, reviewers need to see the source and know what to do next.

01
Source-linked extraction

02
Exception reconciliation

03
Role-based approval

DELIVERABLES

Document Operations workspace and role-based prototypes for intake, reconciliation and management.

DESIGN VALUE

Keep exceptions open until supported by evidence.
People retain approval authority.

DOCAGENT / SOLUTION EXPERIENCE

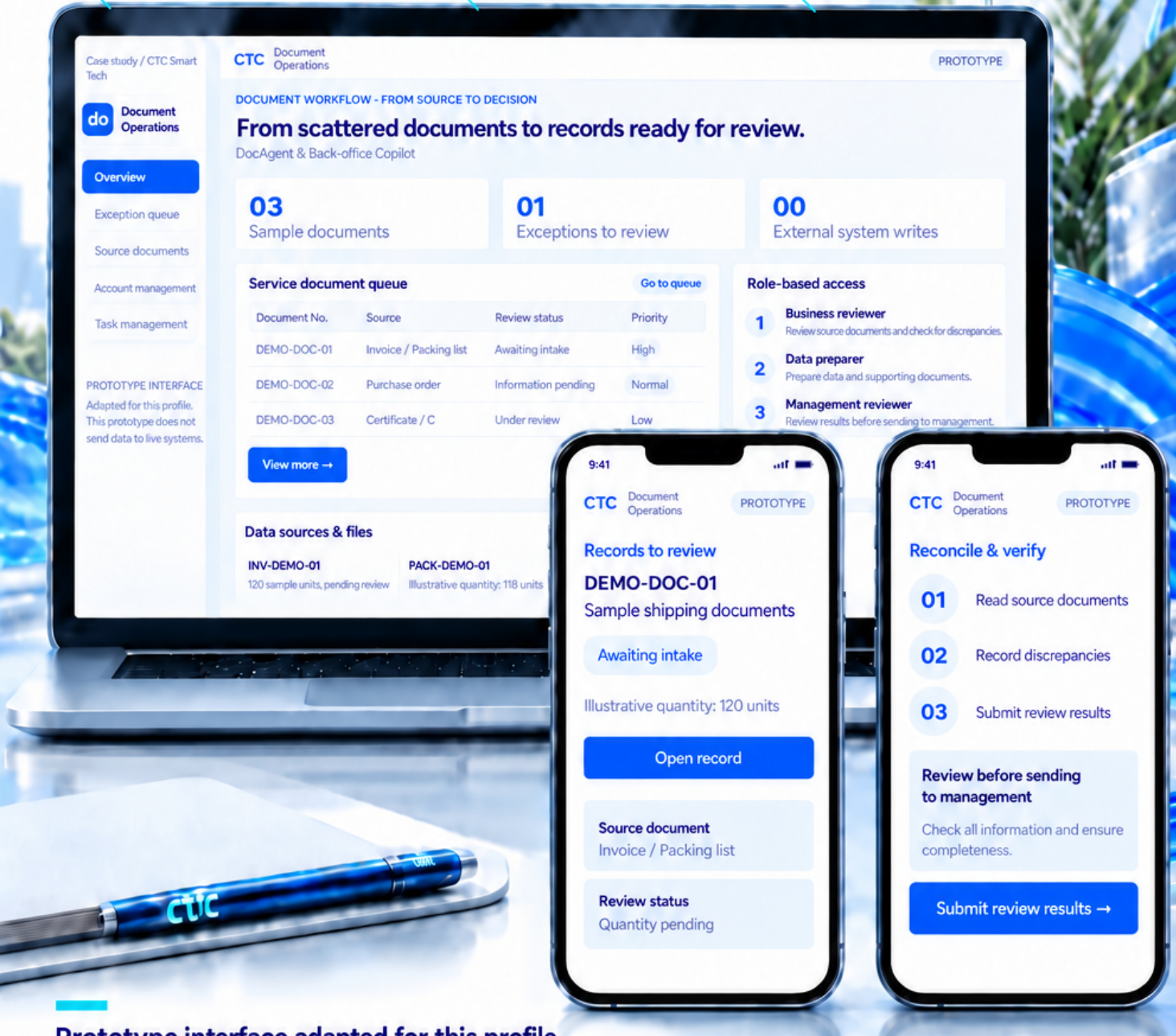
Easier review. Evidence-backed approval.

Functional prototype - simulated data

Source documents

Exception queue

Role-based access



Prototype interface adapted for this profile.

The assistant helps locate sources and explain discrepancies. Reviewers check records before sending them to management; this prototype does not send data to live systems.

CASE STUDY / AI STUDIO

Plant Operations

From alerts to maintenance action.

- Functional prototype · simulated data
- Read-only · not connected to real equipment



01 Verify the alert

02 Assign maintenance

03 Check before closing

THE CHALLENGE

An alert does not prove an issue is resolved. Operations teams need to connect detection with a reviewer, a work order and evidence for closure.

DELIVERABLES

Monitoring workspace and role-based interfaces for operations, technicians and managers.

DESIGN VALUE

Clarify responsibility and evidence. People review before approving closure.

CTC Smart Tech

PEOPLE · TECHNOLOGY · REAL IMPACT

PLANT OPERATIONS / SOLUTION EXPERIENCE

See the alert.
Know the next step.

Functional prototype · simulated data

Read-only monitoring → Field checklist → Evidence-backed closure



Prototype interface adapted for this profile.

Alerts become assigned work. Technicians record checks; managers review evidence before approving closure. This prototype is not connected to, and does not control, real equipment.

AI STUDIO / PROJECT PORTFOLIO

From AI capabilities to real-world systems.

10
PROJECTS IN THE AI AUTO PORTFOLIO

09 operational systems

01 ministry-level research project in progress

As published in the AI Auto portfolio.



01	eKYC	Digital identity verification	06	IGarbage	Smart waste collection
02	CPSmart	Power & temperature monitoring	07	IElectricity	Power generation forecasting
03	FaceID	Cross-platform recognition	08	Smart Travel	AR / VR tourism experiences
04	EAir	Air-quality estimation	09	AIAgriculture	Geospatial analysis
05	ESignal	Sign-language recognition	10	H2Optima	Water resource management

Source: aiauto.smarttechctc.io • Industry benchmarks are not project-specific KPIs.

AI AUTO / 01 / BANKING & FINANCE

eKYC

Fast verification.
Secure integration.

Operational · according to the AI Auto portfolio







Citizen ID · Chip-based ID · Passport

Core technologies

OCR · Computer Vision · API · Kafka

THE CHALLENGE

Diverse documents, tilted images and glare make manual verification inconsistent.

THE SOLUTION

- OCR and image analysis tailored to each document type.
- APIs connect banks, digital wallets and payment services.
- Encryption, access control and operational monitoring.

VALUE

Standardize identity verification, reduce data entry and support document processing at scale.



Source: aiauto.smarttechctc.io · Illustrative imagery

CPSmart

Spot anomalies early.
Stay ahead in operations.

Operational · according to the AI Auto portfolio



Power supply · Temperature · Alerts

Technology
IoT · Kafka · Streaming · Machine Learning

CHALLENGE

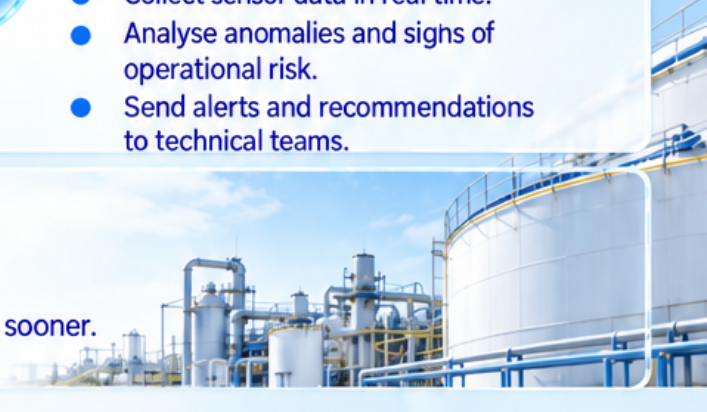
Remote equipment sites need continuous monitoring of power and temperature.

SOLUTION

- Collect sensor data in real time.
- Analyse anomalies and signs of operational risk.
- Send alerts and recommendations to technical teams.

VALUE

Bring equipment information together so teams can detect and respond to issues sooner.



FaceID

One recognition core. Three platforms.

Operational · according to the AI Auto portfolio



FaceNet · MTCNN · TensorFlow · Real-time detection

03 platforms:
Mobile · Devices · Web

CHALLENGE

Lighting, camera angles and device capabilities vary across deployment sites.

SOLUTION

- Recognise faces in real time.
- Use one model core across mobile, hardware and web.
- Integrate attendance, reception and event check-in.

VALUE

Connect identity recognition with visitor reception and presence records.



Source: aiauto.smarttechctc.io · Illustrative imagery

AI AUTO / 04 / ENVIRONMENT & SMART CITIES

EAir

From sky photos to air-quality maps.

Operational · according to the AI Auto portfolio



Community photos → AQI estimates → Maps

Technology
CNN · Transfer Learning · GIS · Maps

CHALLENGE

Areas outside the monitoring-station network lack air-quality data.

SOLUTION

- Analyse sky colour, haze density and visual cues.
- Apply transfer learning from pretrained vision models.
- Combine community photos into maps and recommendations.

VALUE

Add insight into air quality where monitoring infrastructure is limited.

ESignal

Bridging communication gaps.

Operational · according to the AI Auto portfolio



MediaPipe · OpenPose · LSTM · Transformers

Computer vision × Sequence models × Language

CHALLENGE

Sign meaning combines hand gestures, facial expressions and movement over time.

SOLUTION

- Track hands and body posture.
- Use sequence models to recognise how signs unfold.
- Convert signs into text or speech.

VALUE

Support communication between deaf people and those who do not know sign language.

IGarbage

Waste collection driven by actual demand.

Operational · according to the AI Auto portfolio



IoT · MLflow · AWS IoT Core · Route optimisation

Sensors → Forecasting → Dispatch

CHALLENGE

Fixed schedules can leave collection points overloaded or send vehicles on unnecessary trips.

SOLUTION

- Use weight sensors to monitor collection points.
- Forecast waste volumes from historical data.
- Optimise routes and trigger threshold-based alerts.

VALUE

Help teams schedule collection times and routes around actual conditions.

IElectricity

Turn operational data into forecasts.

Operational · according to the AI Auto portfolio



ARIMA · Prophet · XGBoost · GRU

04 forecast horizons: Hour · Day · Week · Month

CHALLENGE

Plants have historical data but have yet to turn it into a basis for planning.

SOLUTION

- Combine time-series analysis with machine learning.
- Forecast output by hour, day, week and month.
- Support resource planning and maintenance schedules.

VALUE

Provide forecasts to support operational decisions and resource allocation.

AI Studio

AI AUTO / 08 / TOURISM & CULTURE

Smart Travel

Every destination. A personal experience.

Operational · according to the AI Auto portfolio



AR / VR · AI assistant · Personalised journeys

AR / VR · NLP · Computer Vision · Maps

CHALLENGE

Information needs to appear at the right moment as visitors explore a destination.

SOLUTION

- Offer virtual tours and on-site AR information.
- Guide users with an AI assistant tailored to their interests.
- Connect maps, location and cultural content.

VALUE

Connect physical places with digital content for a more intuitive journey of discovery.

AI Agriculture

See the land clearly. Plan with evidence.

Operational · according to the AI Auto portfolio



Satellite · Drone · AI · GIS

Semantic Segmentation · Satellite imagery · Drone imagery · GIS

CHALLENGE

Manual surveys over large areas struggle to keep pace with land-use changes.

SOLUTION

- Combine satellite images, drone images and GIS data.
- Segment, label and visualise land areas.
- Create digital maps and reports for planning.

VALUE

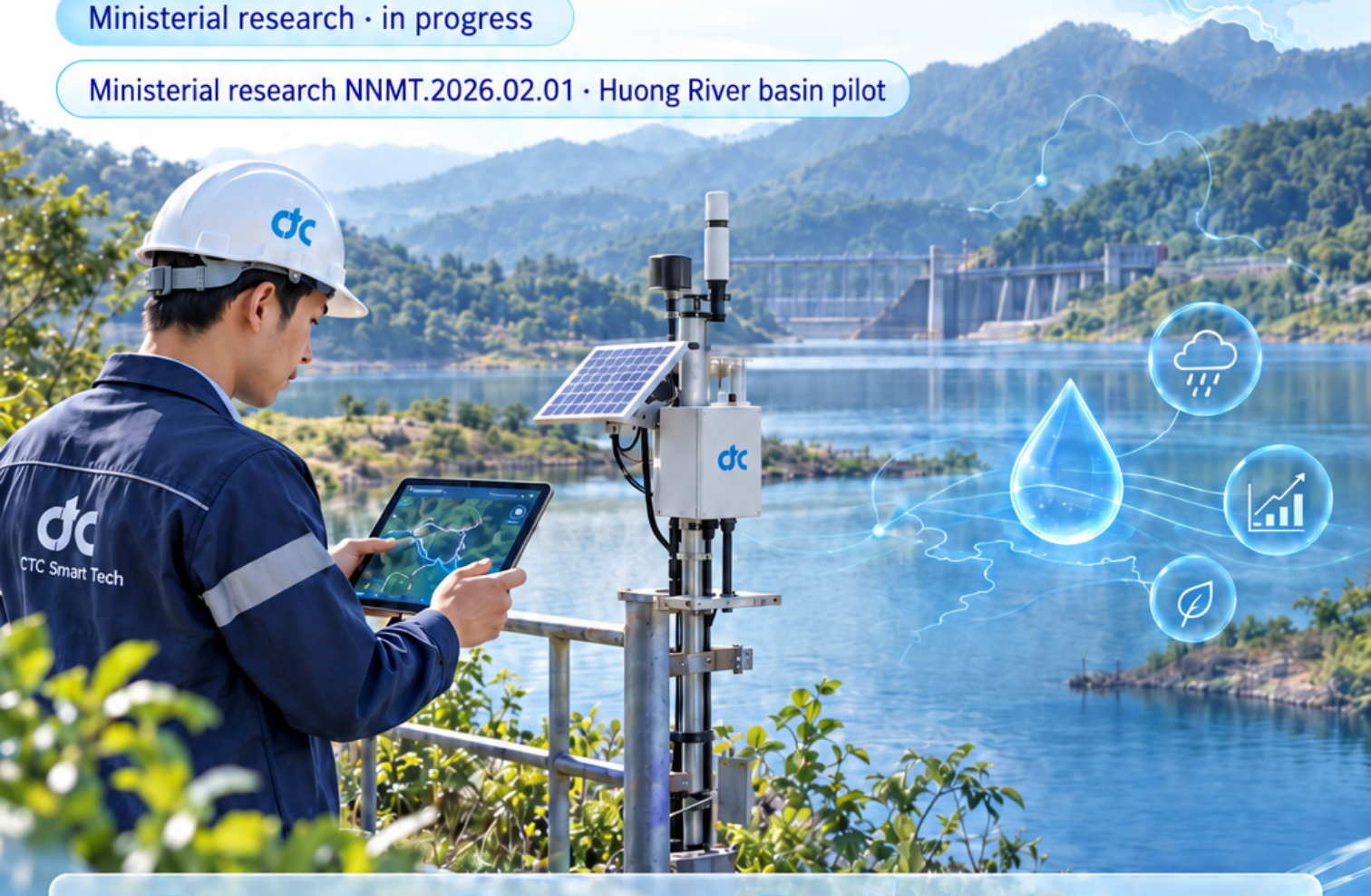
Provide an updatable spatial picture to support regional planning decisions.

H_2Optima

Water data. Sustainable decisions.

Ministerial research · in progress

Ministerial research NNMT.2026.02.01 · Huong River basin pilot



IoT / MQTT | LSTM + SWAT | Shapley Value | PostGIS

CHALLENGE

Multiple water users must share a common resource amid drought, floods and fragmented data.

SOLUTION

- Collect and validate monitoring data through IoT.
- Combine LSTM with the SWAT hydrological model.
- Use game theory to support explainable allocation options.

VALUE

A platform for scientific validation and decision support; no quantitative results published yet.

CTC Smart Tech
PEOPLE × TECHNOLOGY × REAL IMPACT

White-label design approach

DESIGNED FOR YOUR BUSINESS

Your brand. A consistent experience.

Consistent identity —
Brand-aligned colours, components and content.

Clear roles —
Workflows tailored to each user group.

Relevant processes —
Technology that fits how your business operates.

Desktop to mobile —
Keep work connected across screens.



QUALITY & CONTROL

Trust begins with design.

Access —
Define roles and permitted scope of use.

Data —
Define sources, structures and management responsibilities.

Testing —
Check core workflows, exceptions and failure scenarios.

Handover —
Documentation, guidance and operational feedback.

Requirements are agreed within the scope of each project.



CTC Smart Tech
PEOPLE × TECHNOLOGY × REAL IMPACT

HOW WE WORK TOGETHER

From clear understanding to real value.



CTC Smart Tech
PEOPLE • TECHNOLOGY • REAL IMPACT

START WITH A CONVERSATION

Your challenge. Our shared journey.



Share the current situation —
Which tasks take too much time or are hard to control?

Set priorities —
Which users and goals should be addressed first?

Agree the first step —
Discovery, a pilot or delivery within a clear scope?

Build a shared understanding before we build together.

CTC SMART TECH

Creating greater opportunities together.



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PowerIT by CTC Smart Tech

AI Studio

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aistudio.smarttechctc.io

People × Technology × Real impact

Scene imagery and page designs were generated with GPT.
Interfaces and project statuses are identified in each case study.