



Reliable Ecosystem for Monitoring Construction Sites



The TRASSIR trademark was created to bring high-tech video surveillance systems to the market. The brand integrates professional video processing equipment (cameras, servers, analytics modules) and neural network software. TRASSIR analytics modules are used for access control, perimeter tracking, limiting the hazardous areas, and monitoring compliance with overalls requirement.

19 YEARS

of experience in
video surveillance

5,000+

loyal customers
worldwide

800+

qualified staff

28

countries with TRASSIR
solutions integrated



5,000+

TRASSIR's loyal customers worldwide

TRASSIR®



TRASSIR SOLUTIONS

All security systems are easily integrated into a single complex managed by one interface

In no time we can design a security system

- Assistance in choosing equipment to meet design requirements
- TRASSIR-based integration with video surveillance, fire alarm system, ACS, and intercom

Little effort is required to configure and use the security system

- Flexible configuration of response algorithms for each type of event
- Intuitive and fast search for events in the archive

Individual customization

- Any camera customization is available: from color to form factor
- System functionality is expendable through scripts

Less problems, more efficiency

- Immediate technical support, warranty and post-warranty service
- Fast replacement in response to equipment failure



Comprehensive management of a construction site through security and efficiency monitoring ecosystem

Security control help preventing:

- Accidents
- Fire
- Terrorist acts
- Thefts

Automated control enables to optimize:

- Access to the territory for personnel and vehicles
- Loading and unloading processes
- Keeping records of working time

Efficiency control provides:

- Optimizing processes at the construction site
- Systematization and proper storage and accounting of building materials
- Saving money on payroll by reducing the number of security guards

Automated control of the construction process

Capabilities

- Preventing situations that pose danger to employees and visitors (fire, terrorist attacks)
- Surveillance of personal belongings left unattended
- Reducing the risk of theft and unlawful acts

Solutions

- **TRASSIR Neuro Detector** identifies a person or vehicle intruded into the protected area
- **TRASSIR ActiveDome** manages high-speed pan/tilt cameras for video surveillance of large areas
- **TRASSIR Dewarp** sweeps images from FishEye cameras using software
- **TRASSIR TR-D2B5** is an outdoor camera in IP67-rated enclosure that is inaccessible to dust and moisture. Allows uninterrupted operation in all seasons at temperatures of -40 °C to +60 °C



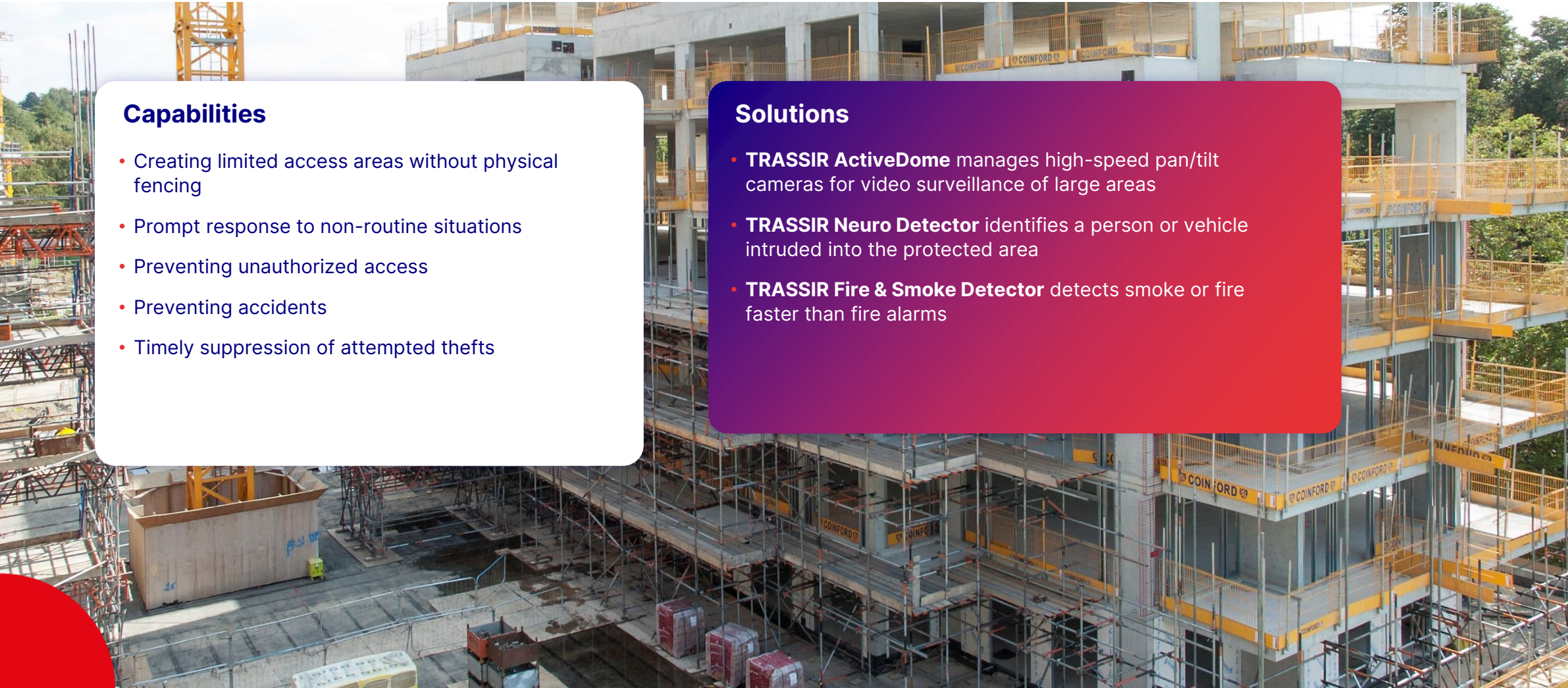
Total control of perimeter security

Capabilities

- Creating limited access areas without physical fencing
- Prompt response to non-routine situations
- Preventing unauthorized access
- Preventing accidents
- Timely suppression of attempted thefts

Solutions

- **TRASSIR ActiveDome** manages high-speed pan/tilt cameras for video surveillance of large areas
- **TRASSIR Neuro Detector** identifies a person or vehicle intruded into the protected area
- **TRASSIR Fire & Smoke Detector** detects smoke or fire faster than fire alarms



Total control of perimeter security

Capabilities

- Automated fast access of vehicle for loading and unloading
- Warning system about the arrival of the expected vehicle
- Automatic lifting of the barrier at entry/exit
- Vehicle counting
- Control of trucks being well filled, cutback of materials short delivery to the site

Solutions

- **AutoTRASSIR** automatically recognizes license plates and sends signals to the barrier to open and close
- **TRASSIR ActiveDome** manages high-speed pan/tilt cameras for video surveillance of large areas
- **TRASSIR Parking** monitors the number of vehicles and time of their stay in the parking lot
- **TRASSIR Active POS Weight** synchronizes video stream with weighing and cash register data

Admission to the territory, personnel identification and control

Capabilities

- Quick access for workers through the turnstile
- Keeping records of working time
- Real-time identification of workers on site

Solutions

- **TRASSIR ACS** is automatic access control system enabling two-factor authentication
- **TRASSIR Face Recognition** detects and recognizes human faces
- **SIMT (Simple Intelligent Motion Trassir)** detects motion and supports object tracing

Real-time monitoring of safety and health requirements

Capabilities

- Controlling signs of illness, wearing masks, and social distance
- Monitoring of safety compliance

Solutions

- **TRASSIR Social Distance Detector** allows to monitor keeping a social distance
- **TRASSIR Face Mask Detector** allows to monitor the wearing of protective masks in public places
- **TRASSIR Thermal Camera** detects high temperature
- **TRASSIR Wear Detector** identifies whether a person is wearing overalls or uniforms (by color)
- **TRASSIR Hard Hat Detector** identifies whether a person is wearing a hard hat
- **TRASSIR Pose Detector** analyzes human posture

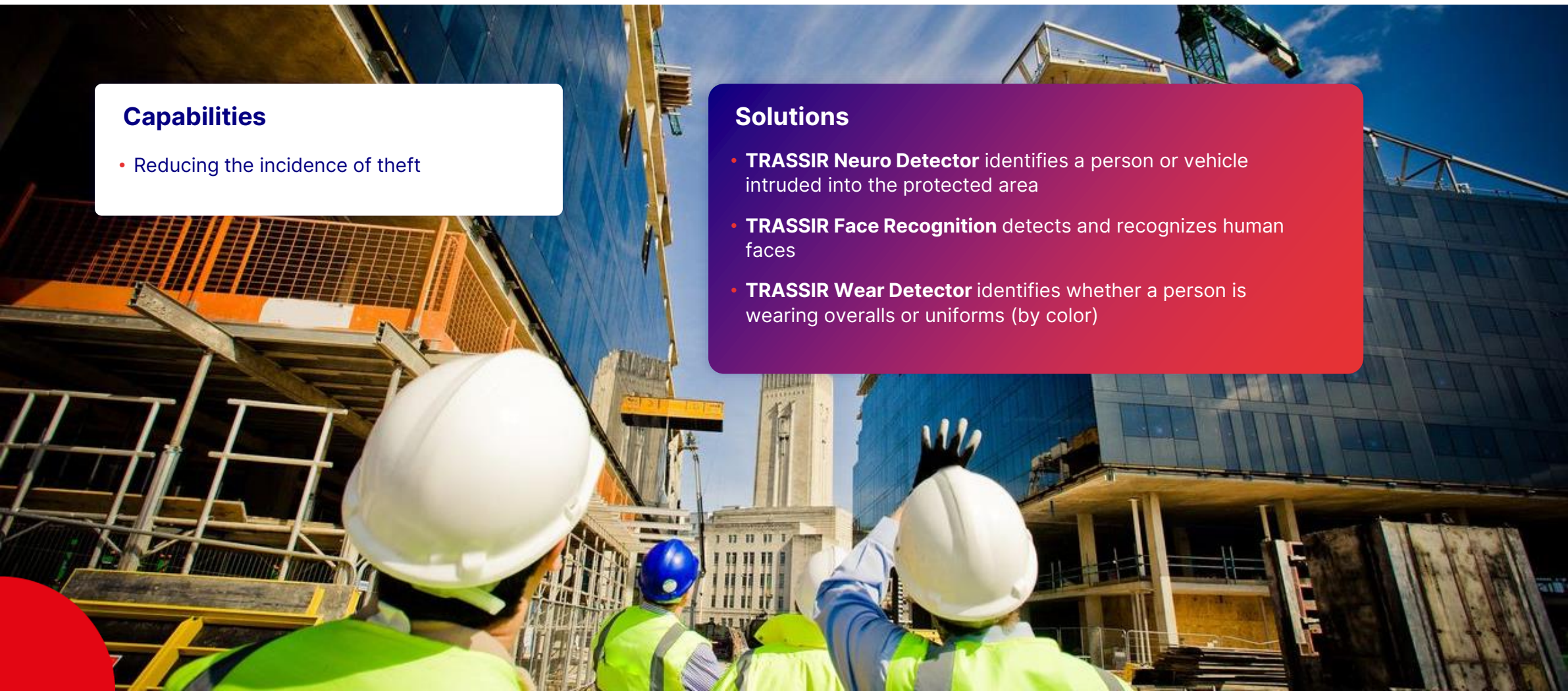
Real-time personnel control

Capabilities

- Reducing the incidence of theft

Solutions

- **TRASSIR Neuro Detector** identifies a person or vehicle intruded into the protected area
- **TRASSIR Face Recognition** detects and recognizes human faces
- **TRASSIR Wear Detector** identifies whether a person is wearing overalls or uniforms (by color)



Effective management of material asset transfer

Capabilities

- Control of personnel access to materials
- Availability and transfer control
- Compliance with storage technology
- Prevention of unauthorized removal of materials and equipment

Solutions

- **TRASSIR Neuro Detector** identifies a person or vehicle intruded into the protected area
- **TRASSIR ActiveStock** provides event-based video monitoring of warehouse operations
- **TRASSIR ArUco** means ArUco marker detector
- **AutoTRASSIR** automatically recognizes license plates and sends signals to the barrier to open and close
- **TRASSIR Thermal Camera** detects high temperature

Project milestones

INQUIRY

Identifying the needs and objectives of the system

TECHNICAL FEASIBILITY STUDY

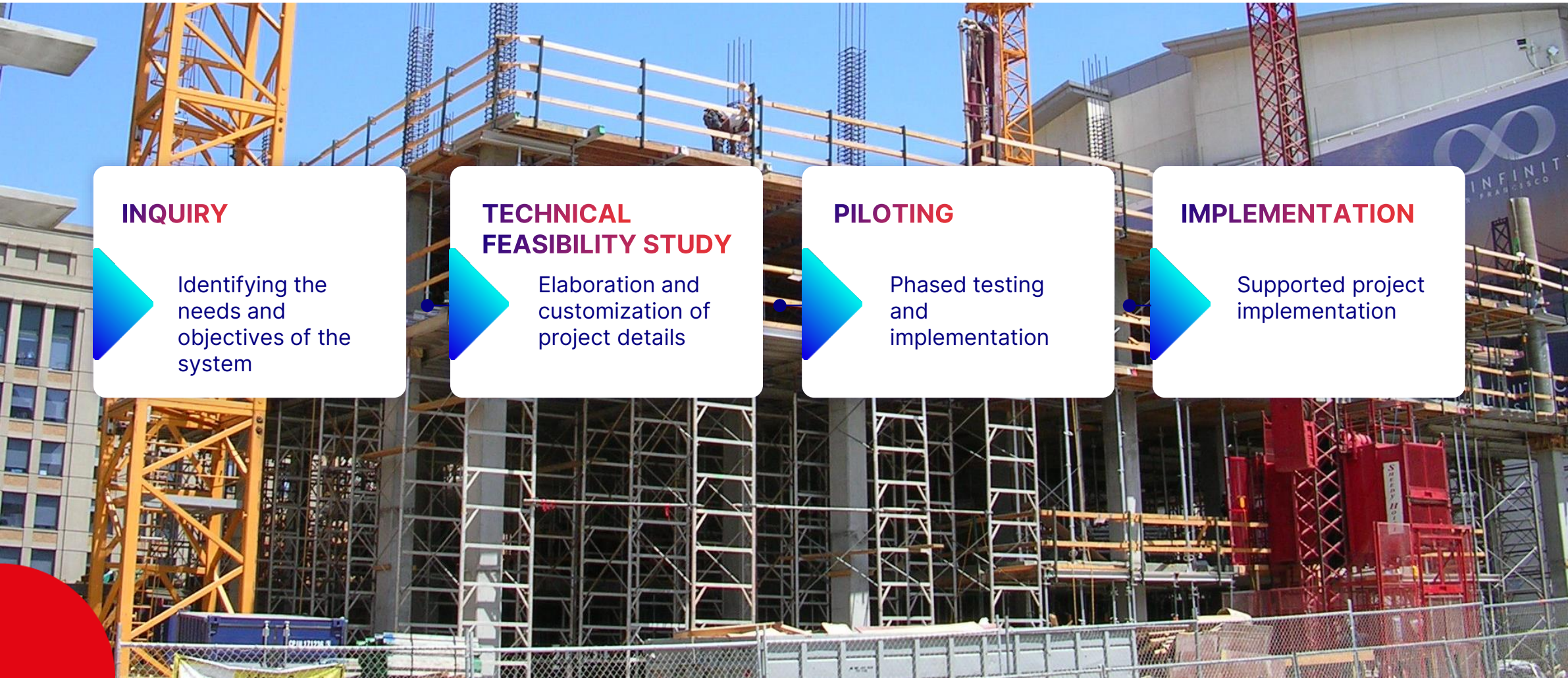
Elaboration and customization of project details

PILOTING

Phased testing and implementation

IMPLEMENTATION

Supported project implementation



Partners and integration



Mir Stroy Dom LLC

Mir Stroy Dom LLC is a construction company in Moscow, the Moscow region and all regions of the Russian Federation.



Video surveillance in the industry

- Ensuring security on the territory and around the perimeter, preventing theft, damage to equipment;
- Observing safety regulations by personnel and monitoring labor discipline.



Russia,
Moscow



Project tasks

- Ensure security on the construction site and around the perimeter using 24/7 video surveillance.
- Organize remote access for managers, including for remote demonstration of the workflow to the Customer.
- Monitoring labor productivity, discipline, safety regulations, compliance with building codes and technologies. Introduce continuously operating equipment to obtain a high-quality image at a distance of up to 20 m, day and night.



Effect

The Customer highly appreciated the implemented technical solution. Round-the-clock video surveillance at the construction site ensured safety, order and complete control over the events. The overall level of discipline and labor productivity has increased, as well as compliance with construction standards and technologies. Conflict situations with subordinates and clients have decreased due to storing videos in the archive that serve as an indisputable evidence while analyzing controversial situations, theft or damage. Remote monitoring makes it possible to keep the pace and quality of work in check without attending the facility.

Solution

Introduced continuously operating video surveillance system, which is easy to operate and maintain, with a user-friendly interface and software, a mobile client, access via a local network and remote viewing through a cloud service. Capable of scaling and a gradual expand in capacity.

Organized archive with a large number of hard drives connected for long-term storage and cloud recording of the video archive. The following have been used:

- TRASSIR IP-cameras
- TRASSIR video servers
- TRASSIR Cloud service



trassir.com

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Hardware Catalog



Video Management
Software Catalog



Success Cases

