

INDUSTRIAL ASSET RECOVERY & TECHNICAL ASSESSMENT

Engineering from Damage Assessment to Recovery Implementation



PT SARANA REKAYASA TEHNIK
COMPANY PROFILE

Cikarang Timur, Bekasi, Indonesia · Established 2016

Engineering Built on Technical Understanding

PT Sarana Rekayasa Teknik (SRT) is an Indonesian industrial engineering company, company, established in 2016 and headquartered in Cikarang Timur, Bekasi — within — within West Java's core manufacturing corridor. SRT is engineering-led and and assessment-first: every project begins with technical assessment, and the same the same team carries it through to implementation.

Engineering-led, not sales-led

Every project begins with technical assessment — not a quotation.

Full-scope capability

From diagnosis through commissioning and reliability support.

One accountable team

A single engineering team, not a chain of subcontractors.

“Every engineering solution begins with understanding the machine.”

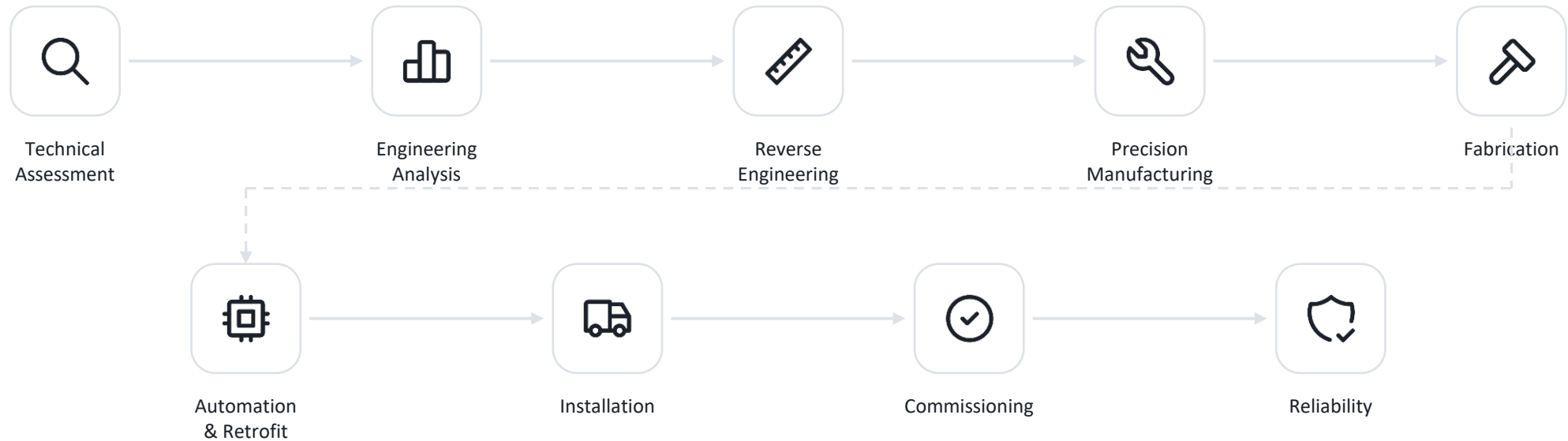
SRT ENGINEERING PHILOSOPHY

CORE ENGINEERING CAPABILITIES

- Technical Assessment
- Engineering Analysis
- Reverse Engineering
- Manufacturing & Fabrication
- Automation & Retrofit
- Installation & Commissioning
- Reliability

One Engineering Process. Multiple Integrated Capabilities.

The same engineering process, shown as connected steps — from assessment to long-term reliability.



These nine steps deliver SRT's seven core engineering capabilities as one continuous, accountable scope — the same team throughout, not routed through separate subcontractors.

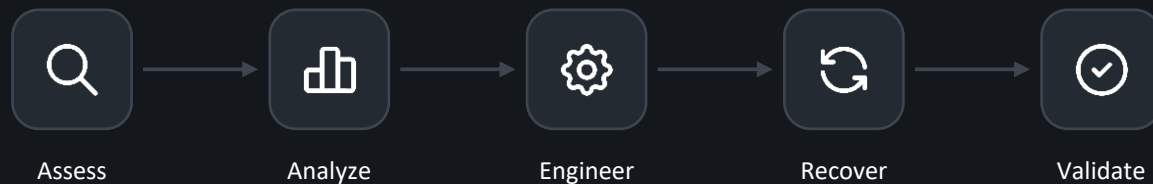
Assessment Before Assumption

Conventional repair and fabrication approaches move directly from quotation to repair. SRT repair. SRT begins with engineering assessment — root cause analysis and engineering engineering calculation determine scope and method before any component is manufactured. manufactured.

CONVENTIONAL APPROACH



SRT ENGINEERING APPROACH

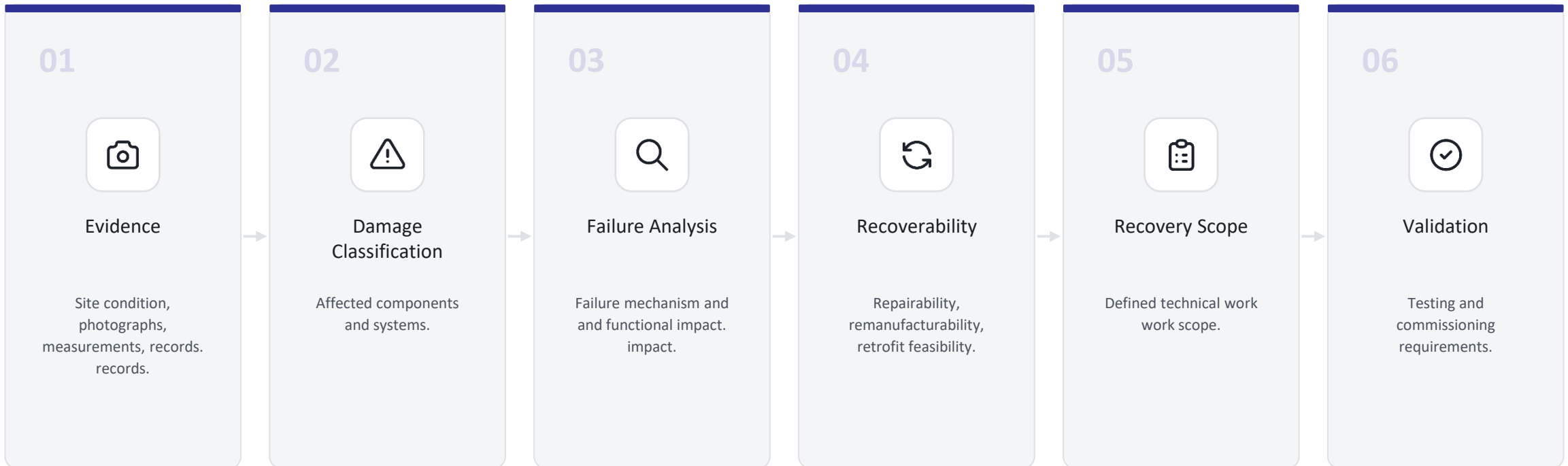


The assessment capability is the foundation foundation of every engineering project that project that follows.

Insurance and loss-adjusting assessment experience strengthens engineering rigor — it does not define the the company.

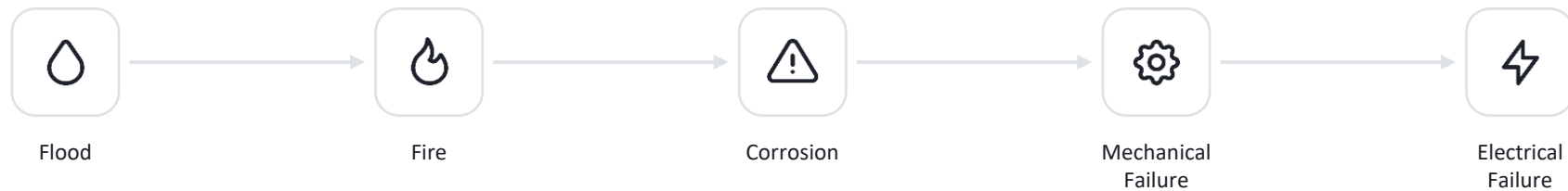
A Structured Framework Before Any Recovery Decision

SRT uses a structured six-step assessment framework that can be adapted to the asset condition, damage mechanism and project requirements.



Engineering Value Out of Damaged Assets

SRT evaluates industrial assets affected by flood, fire, corrosion, mechanical failure, and electrical failure, then determines a technically sound, economically justified recovery route.



RECOVERY DECISION PROCESS



RECOVERY OUTCOMES

Recovery route: technical condition, damage extent, recoverability, functional requirements, engineering feasibility, economic justification.

REPAIR

Where technically feasible.

REMANUFACTURE

For damaged or obsolete components.
components.

RETROFIT

For obsolete controls, automation, or
or supporting systems.

REPLACE

Where recovery is technically or
economically unjustified.

“Recover with Evidence, Not with Hope.”

Recovery Cost Estimation (RCE)

RCE connects technical recovery scope with a traceable and commercially defensible recovery cost.

Bottom-Up

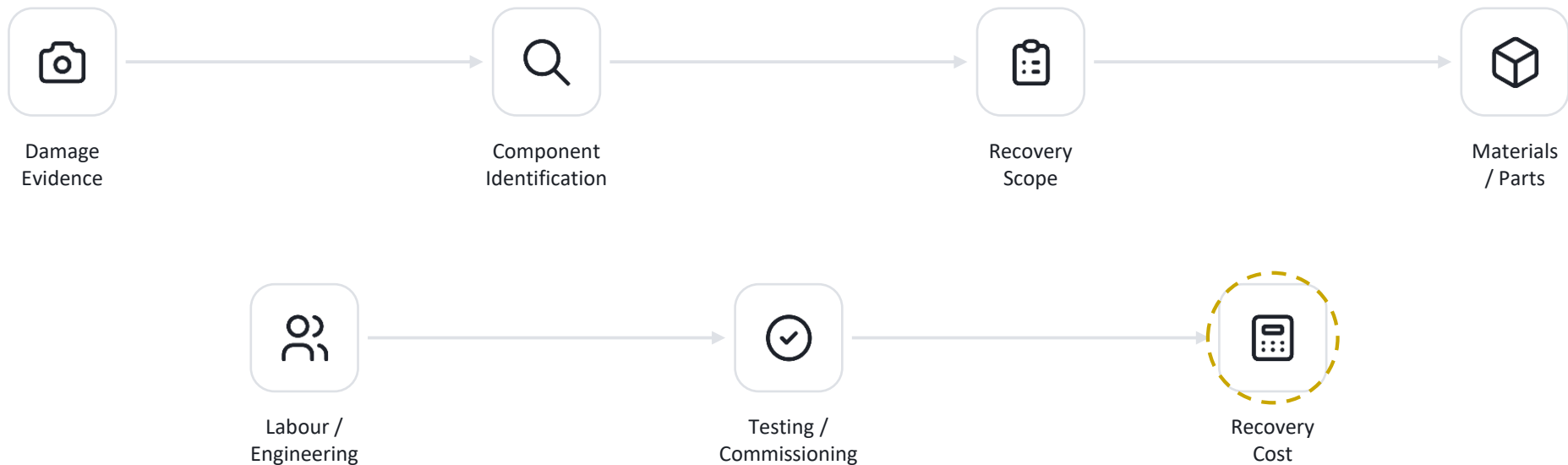
Component-Based

Activity-Based

Traceable

Defensible

COST BUILD-UP

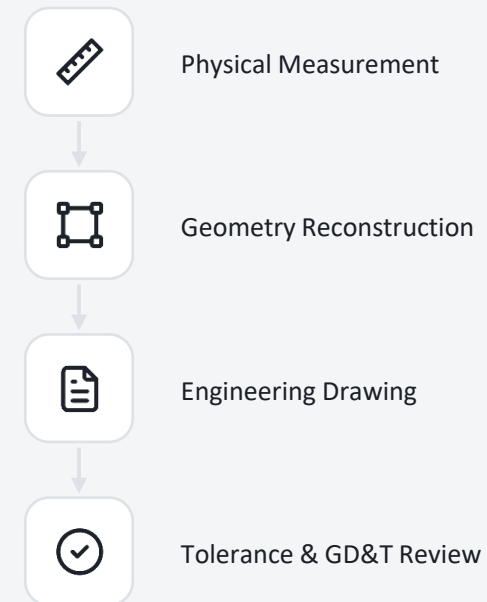


Rebuilding What Original Drawings No Longer Explain

When OEM documentation is incomplete, obsolete, or unavailable, SRT reconstructs component geometry, tolerances, and material specification directly from the physical machine — machine — enabling repair, remanufacture, or retrofit of equipment no longer supported by its supported by its original manufacturer.

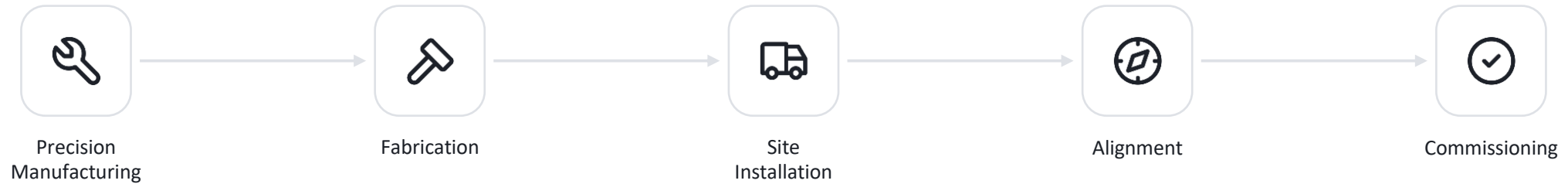
- Dimensional reverse engineering from physical parts and site measurement
- Engineering drawing reconstruction — orthographic views, sections, tolerancing, GD&T
- Material identification and specification for obsolete components

Original engineering documentation may be incomplete, obsolete, unavailable, or no longer no longer sufficient for recovery.



From Engineering Drawing to Commissioned Equipment

Engineering intent is maintained from drawing to commissioned equipment, with engineering responsibility coordinated under one accountable SRT accountable SRT scope.



Drawing-Specified Tolerance

Machining executed to the fit and tolerance defined on defined on the engineering drawing — not visual approximation.

Dimensional Inspection

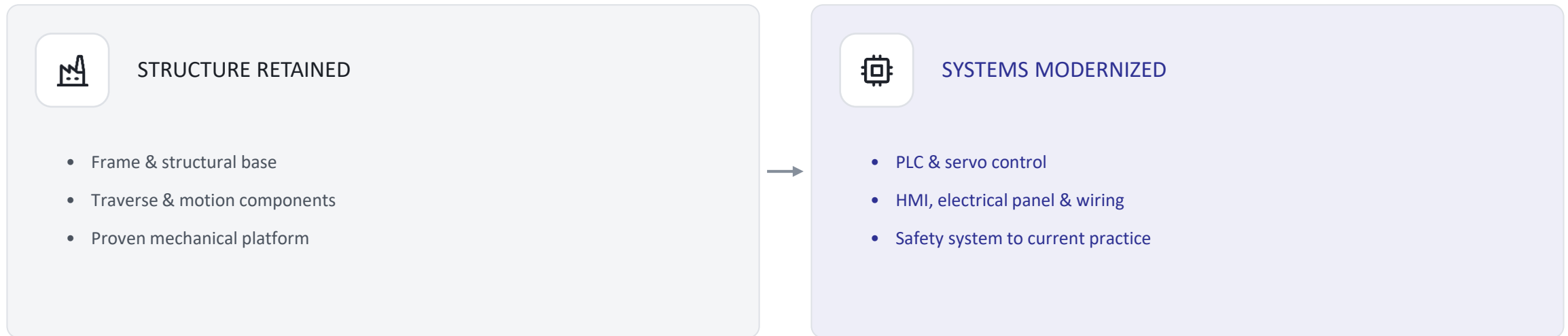
Every component is inspected against engineering engineering specification before it is released for installation.

One Accountable Scope

The same engineering team carries work from fabrication fabrication through site installation, under one coordinated SRT scope.

Extending Machine Life Without Discarding Sound Structure

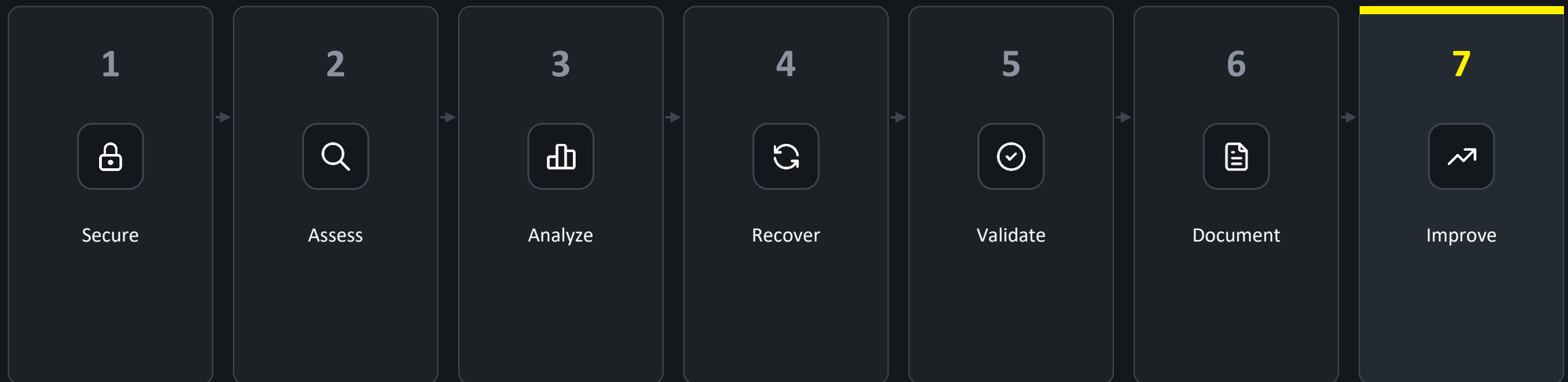
Legacy production equipment frequently retains a mechanically sound structure long after its control and automation systems become obsolete. SRT retrofits PLC, obsolete. SRT retrofits PLC, servo, HMI, and safety systems onto proven mechanical platforms.



Engineering assessment determines what is preserved and what is replaced — never assumed. Retrofit can extend the useful service life of suitable legacy equipment, subject to engineering assessment.

SRT-ARM: A Structured Methodology for Asset Recovery Engineering Engineering

A repeatable seven-phase methodology that turns technical assessment into a validated, engineering-justified outcome.



Engineering Scope, Demonstrated

AGRO-PROCESSING SECTOR · HALMAHERA BARAT

Continuous Conveyor Dryer — Full O&M Engineering Engineering Program

EQUIPMENT

ESSAR 3-chain continuous conveyor dryer, 8 ft × 62 ft.

CONTEXT

Asset in operation without a structured operations and maintenance program.

ENGINEERING SCOPE

29-chapter O&M manual: SOPs, preventive maintenance program, troubleshooting guides, troubleshooting guides, risk assessment, alarm matrix, KPI framework, repair history, history.

OUTCOME

Manual built from site data, equipment records, and standardized SRT documentation documentation format.

PLASTICS · INJECTION MOLDING SECTOR

30-Year Cartesian Robot — Automation Retrofit Engineering

EQUIPMENT

Cartesian pick-and-place robot, manufactured 1997 — nearly three decades in service.

CONTEXT

Mechanical condition and control-system currency required verification before any retrofit commitment.

ENGINEERING SCOPE

Mechanical structure retained after assessment confirmed sound condition; controller, servo, electrical panel, and safety system fully modernized.

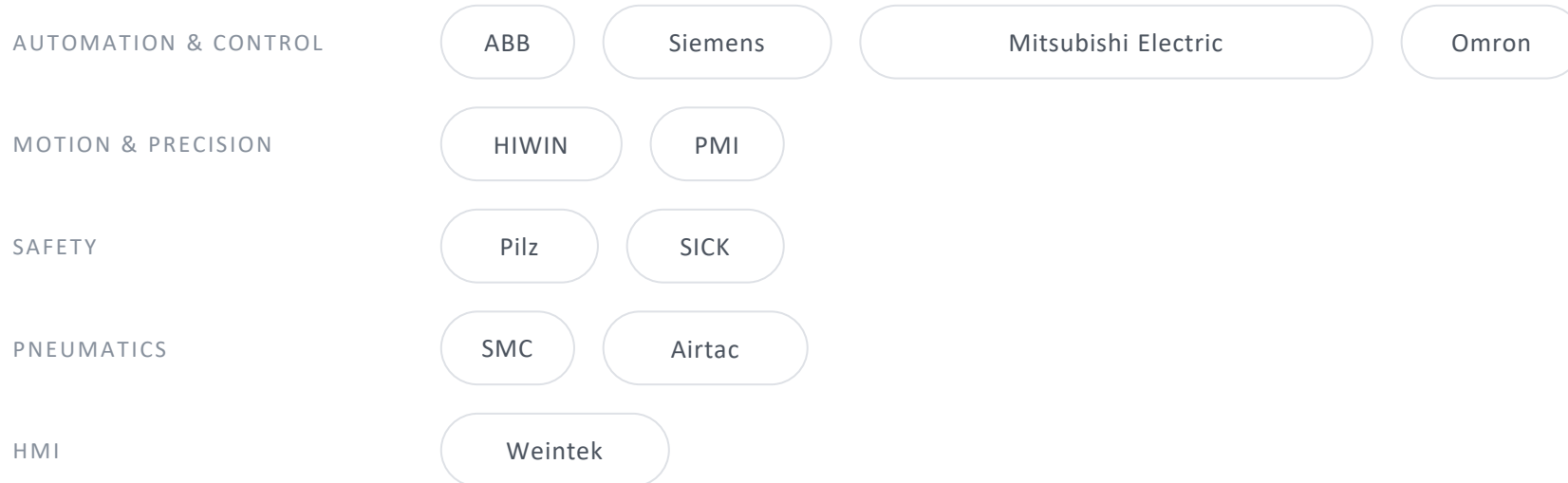
OUTCOME

Retrofit engineered to support an additional 10–15 years of service life, subject to to operating conditions and maintenance.

Client identities withheld for confidentiality. Full case documentation available on request.

Technologies SRT Engineers With

SRT specifies internationally established automation, motion, and safety components according to project requirements — giving clients serviceable, standards-compliant systems rather than proprietary, hard-to-support solutions.



SRT's project experience spans manufacturing, agro-processing, and plastics operations across Java and Eastern Indonesia.

Brand names refer to components specified in SRT engineering designs. No exclusive distribution, dealership, or partnership relationship is implied.

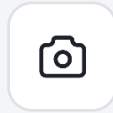
Engineering Discipline as Standard Practice

SRT applies structured internal standards to every project — from site documentation to workshop safety — supporting consistent, auditable quality across quality across projects of varying size and complexity.



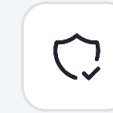
STOP Discipline

Stop – Observe – Think – Document – Measure: the discipline applied before any recovery assessment assessment begins.



SRT Documentation Standard

Standardized before / during / after photo and reporting reporting protocol for measurement, inspection, repair, repair, and test records.



Workshop Safety Culture

Safety Before Productivity. Test Before Delivery. Applied Applied on every project, every time.

TRACEABILITY

• EVIDENCE

• INSPECTION

• TESTING

• DOCUMENTATION

Engineering Across Indonesia's Industrial Base

SRT applies the same assessment-led methodology across seven core industrial sectors, adapted to each asset's condition and failure mode.



Manufacturing
& Automotive



Food &
Beverage



Chemical, Petrochemical
& Plastics



Electronics &
Household Appliances



Textile &
Garment



Warehousing
& Logistics



Power, Utilities
& Generation

OUR LONG-TERM DIRECTION

**Building a recognized engineering reference for industrial asset
asset recovery.**



SRT-ARM Methodology



Engineering Knowledge



Structured Training



Industry Reference



PT SARANA REKAYASA TEHNIK

INDUSTRIAL ENGINEERING · ASSET RECOVERY · RELIABILITY



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“Every engineering solution begins with understanding the machine.”