



Operational Excellence Services

Reliability & Maintenance Asset Integrity Management

Introduction of

“Advanced Maintenance Inspection Support System (A-MIS)”



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<https://www.jgc.com/en/business/epc/operation-maintenance/service/>

Asset Integrity Management (A-MIS)

A-MIS Share

90%

Selected in Japan

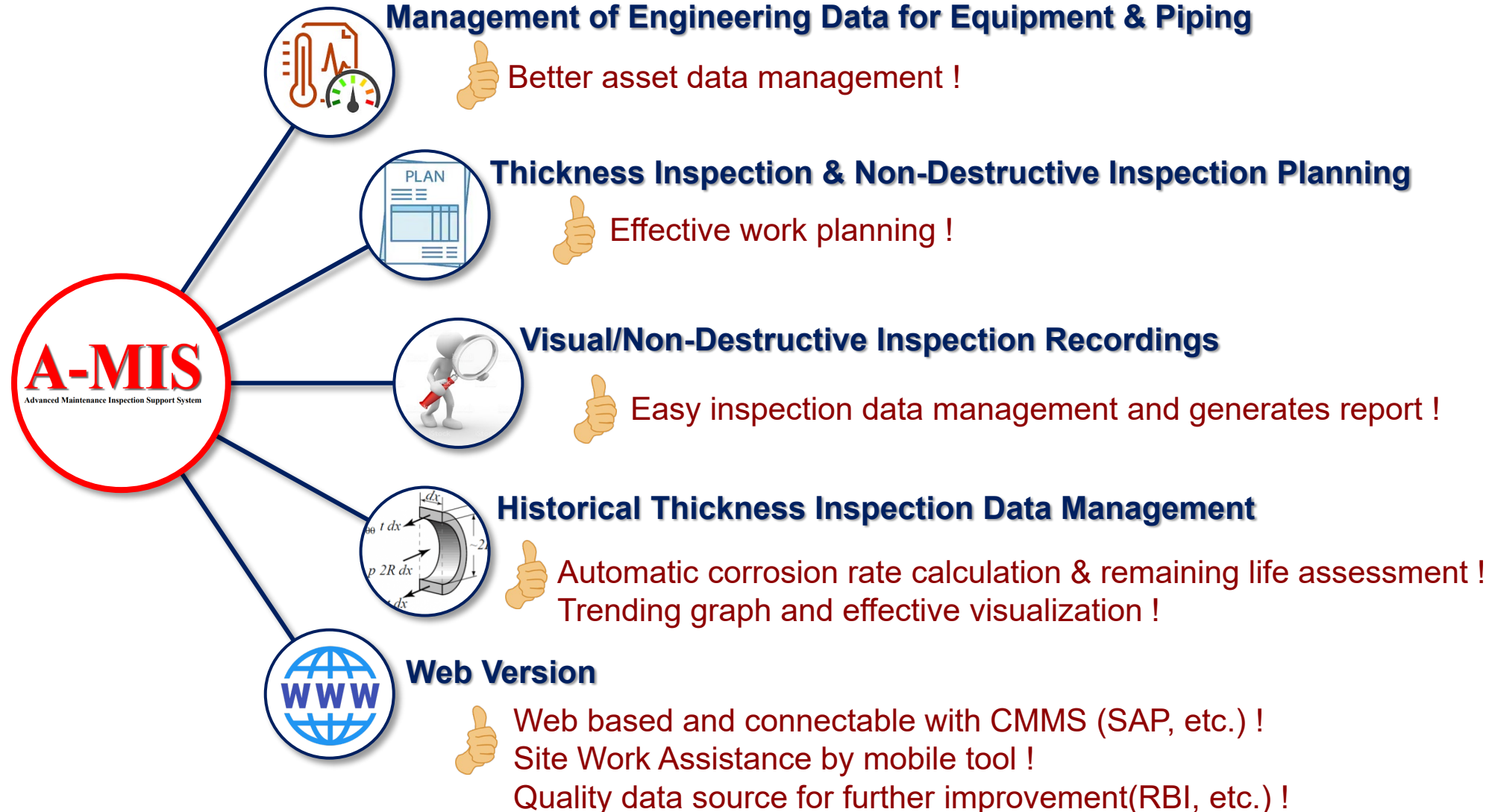
12

Countries

128

Plants

A-MIS features and Benefits



Asset Integrity Management (A-MIS)

A-MIS will solve your problem!

Do you have any of these issues?

- ☹️ Many asset integrity issues (e.g., leaks)
- ☹️ Missing asset information, docs, inspection records
- ☹️ Unsure how to utilize inspection data
- ☹️ Unsure of asset condition (e.g., remaining life)
- ☹️ Leave inspection matters to contractors



Voice of A-MIS Users

- 😊 Able to reduce more than 50% MH and expenses and increased efficiency. I will highly recommend this system.
- 😊 How useful! A-MIS can visualize equipment, piping condition directly on drawing. I wanted to know A-MIS system earlier.
- 😊 A-MIS makes us find suspicious inspection point easily. Reliable data made it possible to plan next inspection more accurately. Now I can cut out excessive cost for maintenance inspection work.



A-MIS developed with our experience and users' feedback!



Implementation Steps and Our Strength

- * Maintenance Business Analysis
- * Engineering Data Collection

STUDY



✓ Experts of asset integrity management, unlike an IT vendor.

- * Cleansing Data
- * Develop initial data plan
- * Insp. Plan & procedure

DEVELOP



✓ Full range of Asset Integrity Management Risk Assessment, Inspection Planning, Corrosion Management, Shutdown Inspection Support, etc.

- * A-MIS Set-up
- * Initial data input
- * Data migration

SET UP



✓ Digitalized historical data stored in A-MIS for better asset management.

DELIVER



Case Study : Asset Integrity Management (A-MIS)

Return to Reliability & Maintenance menu

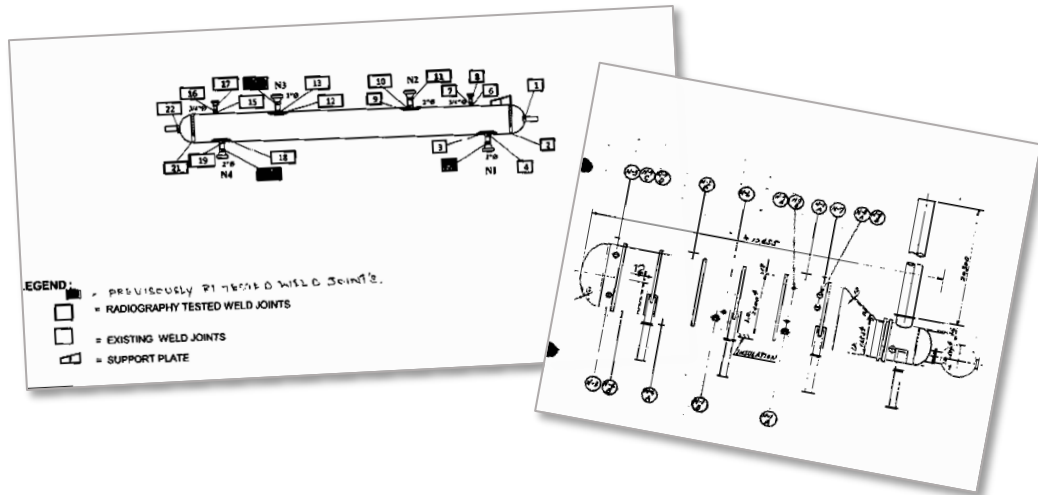
Effective Case



BEFORE



It took time to gather past inspection reports in years from every place which will be the base material for planning maintenance and inspection work.
Hand-writing reports were in different formats in years and the inspection points were not fixed which were difficult to catch the thickness reduction trends and their causes.
It was indispensable to consume a lot of man-hours and expenses for planning the maintenance and inspection work.



AFTER



With the introduction of A-MIS, the necessary design data can be accessed instantly, and by inputting measurement results, the thickness reduction trend, corrosion rate, and remaining life could be instantly determined.
In particular, the thickness trend graphs brought up questionable results. Comparing trend graphs, measurement tables, and design data exposed that inspection points had not been fixed and led to setting the fixed annual measurement points after that. This enabled more accurate inspection results to be obtained, leading to more appropriate and efficient work planning.

