



Operational Excellence Services

Smart O&M Solutions AI TML Assessment



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AI TML Assessment

Do you have any of these issues?

- Experience with unexpected leaks in non-TML (*) piping.
- Concerns about adequacy and sufficiency of existing TMLs.
- Need for efficient allocation of TMLs for new piping in accordance with standards and regulations.

(*)TML: Thickness Monitoring Location

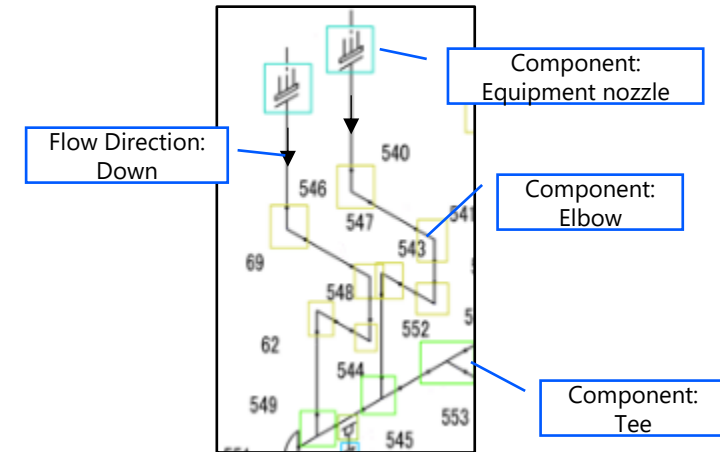
What our solution is

1. Automated Identification of Component & Flow Direction

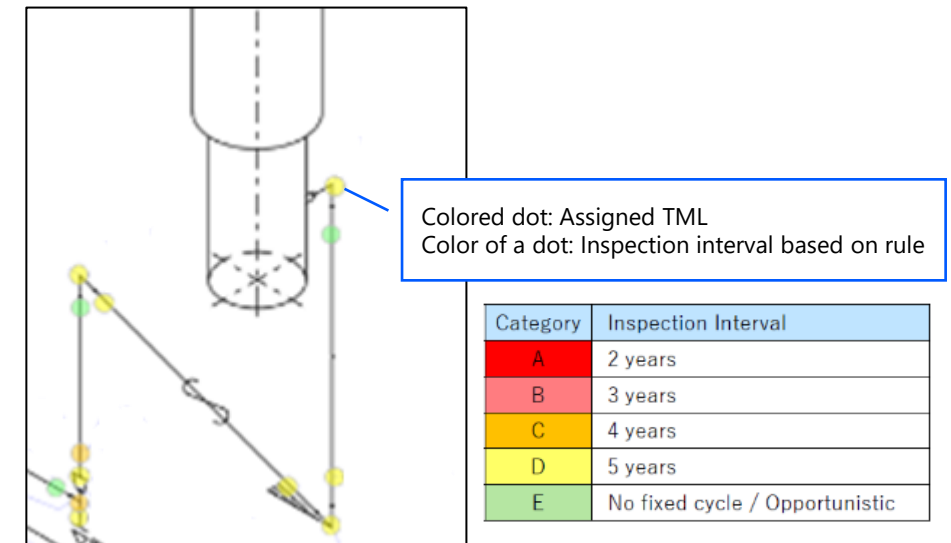
- Reads spool drawings to automatically extract and structure piping components, flow directions, and other related information.

2. Rule-Based TML Assignment

- Client-specific TML assignment rules can be pre-set. (e.g., place TML on piping at every 50 ft.)
- Then, TMLs are automatically assigned based on pre-defined rules.



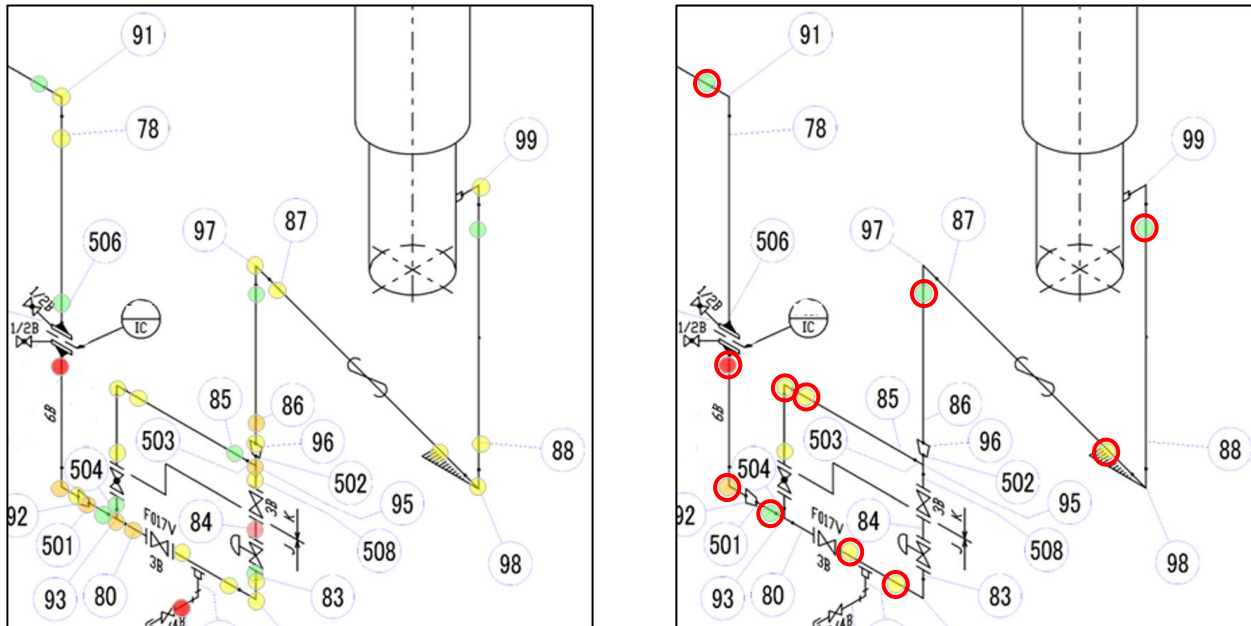
1. Automated Identification of Component & Flow Direction



2. Rule-Based TML assignment

Identify Gaps in TML Coverage

- The system can compare existing TMLs with AI-recommended TMLs to identify gaps.
- The user can evaluate whether existing TML coverage is sufficient.



Note:
Right: System-assigned TMLs
Numbers: Existing TMLs
Red circles: Missing TMLs (gaps)

User Benefits

- **Full Visibility Beyond TMLs**
Enables complete TML visualization, including areas without predefined TMLs.
- **Rule-Based TML assignment**
Automatically identifies inspection points and highlights missing TMLs.
- **Reduce engineering hours and human error**
Eliminate manual drawing interpretation and reduce human error.
- **High-Speed Processing**
Process 100 drawings in just two weeks.