NEW!

Optimize your Traffic Speed Deflectometer (TSD) measurements with

AUTOMATED PROCESSING AND QUALITY CONTROL (APQC)

Greenwood Engineering has developed Automated Processing and Quality Control (APQC) that improves operational efficiency by automated in-vehicle processing, quality checking and early detection of quality issues.

Why use APQC?

✔ Saves time through automation

✔ Ensures high data quality with expert checks

✔ Reduces errors with early issue detection

✔ Customizable and scalable for different missions

✔ Enables automated synchronization of processed measurements
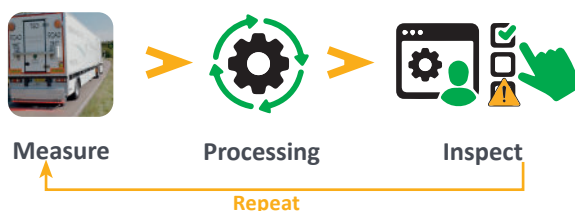

FASTER RESULTS

Various indices can be calculated from data captured by our instruments, and the reporting requirements and the pipeline of calculations are often known beforehand. With APQC, a configuration of the desired report can be created and saved to trigger the processing automatically, saving time and effort.

The processing can be configured to export a wide range of reports, removing the need for a manual export process after measurements are performed.

Standard measurement procedure

Measure → **Processing** → **Inspect**

Repeat

Measurement procedure with **APQC**

Measure / Processing / Inspect (1 step)
Alert on compromised quality

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QUALITY INSIGHTS

APQC runs several domain-expert quality checks to ensure early validation and notification of any data quality issues.
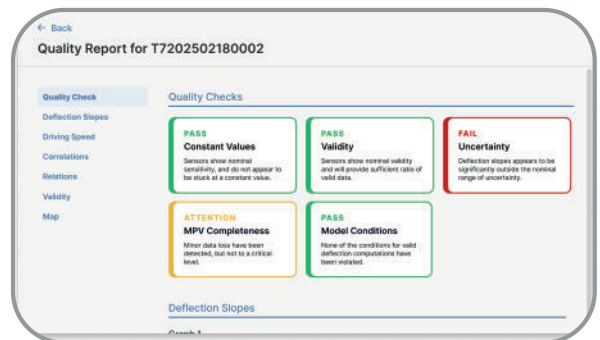
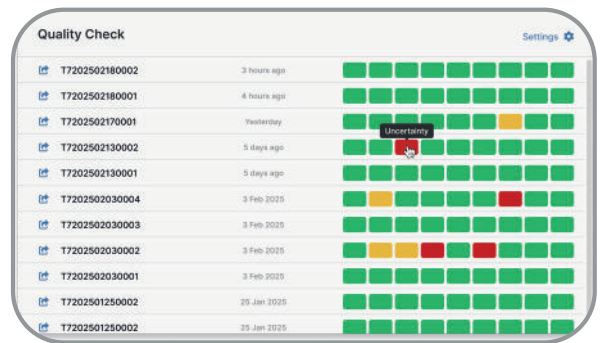The current suit of checks includes:

✔ Validity checks

✔ Completeness checks

✔ Ontology based checks

✔ Model based checks

✔ Sensitivity checks

More checks are actively being developed and added to our quality assurance suite. The checks are run on the data as soon as it is available from processing.

APQC provides an evaluation of the quality of the data which falls into three categories:
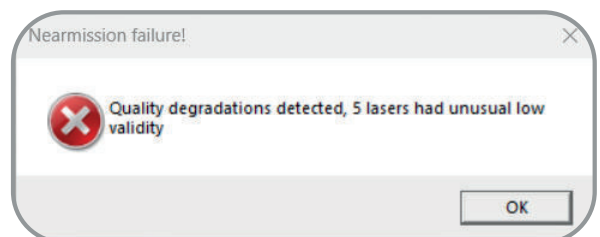
GREEN The data is of high quality and can be used for further processing.

AMBER The data is of acceptable quality, but minor issues have been detected.

RED The data is of low quality and should be reviewed or discarded.

APQC provides a quality dashboard where the operator can drill down for further details.
Plots and other visualizations are also provided to give insight into the reason behind a specific evaluation.

EARLY INTERVENTION

APQC also includes a notification system which alerts the operator upon detection of any potentially critical quality issues.

CUSTOMIZATION

APQC can be customized to fit the specific needs of the mission. The sensitivity of all checks can be adjusted to any preferred sensitivity.
APQC also exposes these services to 3rd-party systems through a Web API that provide access to evaluations, exports, quality plots and more.

Contact us to get Automated Processing and Quality Control on your TSD

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