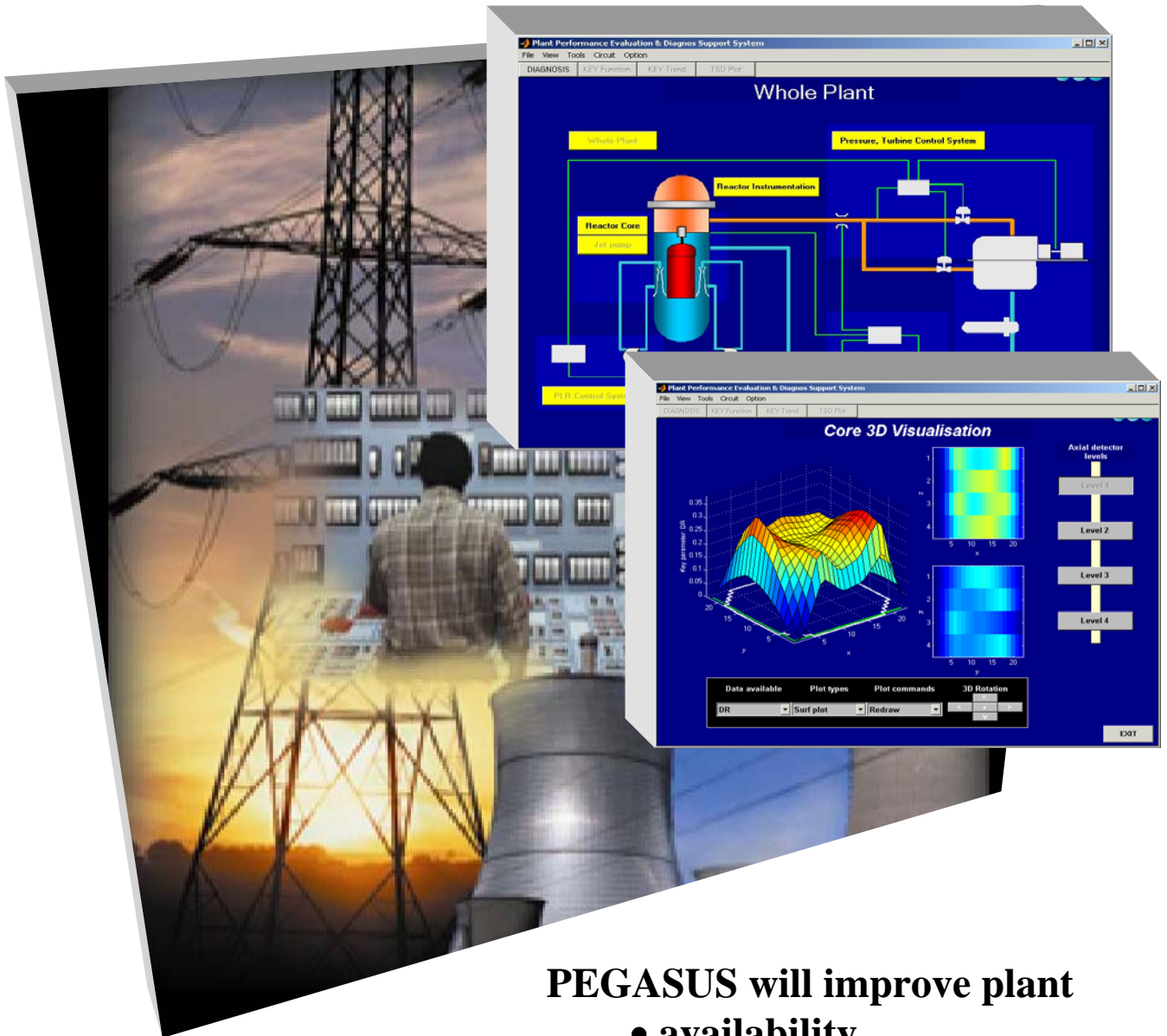


PEGASUSTM

Plant Surveillance and Diagnosis System



PEGASUS will improve plant

- **availability**
- **safety**
- **economy**

If you believe that your plant can become more profitable through better knowledge about it...
...consider **PEGASUS!**

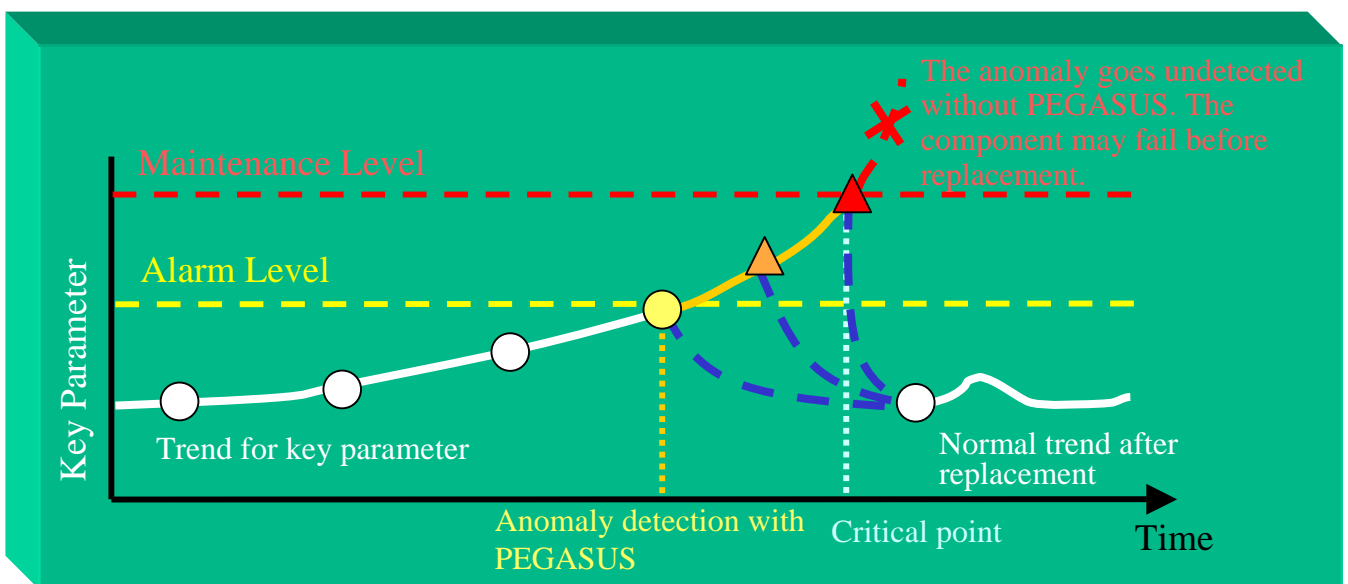
PEGASUS has the following advantages

- Fault detection for sensors and components, such as pumps and pre-heaters.
- Detection and in-depth analysis of components with degraded performance. Plant safety and availability is improved by replacing such components before they fail.
- Support for planning maintenance, by giving up-to-date information on plant components.
- Evaluation and trending of performance indicators.
- Omission of certain sensor calibrations.
- Quality assurance (QA) management for sensors, control systems and components.
- Realization of both Pro-Active and so called Condition Based Maintenance.



What is PEGASUS?

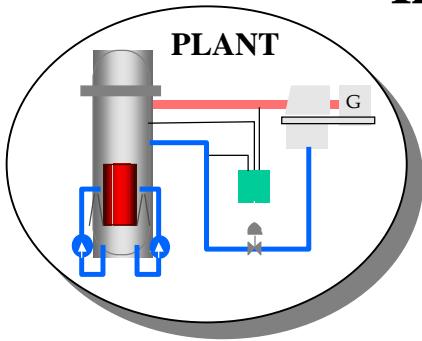
PEGASUS is a software package for semi-automatic plant surveillance and diagnostics. Sophisticated signal processing and simulation techniques are used to evaluate the health and performance of plant components.



Condition Based Maintenance by PEGASUS.

PEGASUS follows a key parameter as a function of time. An anomaly is detected at an early stage. Effective maintenance can be planned and the component is replaced before it fails.

PEGASUS Implementation at site



Maintenance



Discussion and decision-making about maintenance, plant performance and economy.

ID	Module	Component	Unit Name	Unit Value	Measured Value	Alert Value	Alert Type	Alert Cycle	Alert Status
1	Pressure	PI Controller	PI01	1.00000	1.00000	1.00000	Warning	300	OK
2	Pressure	Pressure Filter	PI02	1.00000	1.00000	1.00000	Warning	300	OK
3	Pressure	Reaction Feed Forward Filter	PI03	1.00000	1.00000	1.00000	Warning	300	OK
4	Pressure	Pressure Controller	PI04	1.00000	1.00000	1.00000	Warning	300	OK
5	Pressure	PI05	PI05	1.00000	1.00000	1.00000	Warning	300	OK
6	Pressure	PI06	PI06	1.00000	1.00000	1.00000	Warning	300	OK
7	Pressure	PI07	PI07	1.00000	1.00000	1.00000	Warning	300	OK
8	Pressure	PI08	PI08	1.00000	1.00000	1.00000	Warning	300	OK
9	Pressure	PI09	PI09	1.00000	1.00000	1.00000	Warning	300	OK
10	Pressure	PI10	PI10	1.00000	1.00000	1.00000	Warning	300	OK
11	Pressure	PI11	PI11	1.00000	1.00000	1.00000	Warning	300	OK
12	Pressure	PI12	PI12	1.00000	1.00000	1.00000	Warning	300	OK
13	Pressure	PI13	PI13	1.00000	1.00000	1.00000	Warning	300	OK
14	Pressure	PI14	PI14	1.00000	1.00000	1.00000	Warning	300	OK
15	Pressure	PI15	PI15	1.00000	1.00000	1.00000	Warning	300	OK
16	Pressure	PI16	PI16	1.00000	1.00000	1.00000	Warning	300	OK
17	Pressure	PI17	PI17	1.00000	1.00000	1.00000	Warning	300	OK
18	Pressure	PI18	PI18	1.00000	1.00000	1.00000	Warning	300	OK
19	Pressure	PI19	PI19	1.00000	1.00000	1.00000	Warning	300	OK
20	Pressure	PI20	PI20	1.00000	1.00000	1.00000	Warning	300	OK
21	Pressure	PI21	PI21	1.00000	1.00000	1.00000	Warning	300	OK
22	Pressure	PI22	PI22	1.00000	1.00000	1.00000	Warning	300	OK
23	Pressure	PI23	PI23	1.00000	1.00000	1.00000	Warning	300	OK
24	Pressure	PI24	PI24	1.00000	1.00000	1.00000	Warning	300	OK

Evaluated key parameters are listed in Excel. Tables from Excel and figures from PEGASUS can be included in the report.



Engineer studies PEGASUS results. In case the engineer finds an important problem, PEGASUS supports the report-writing.



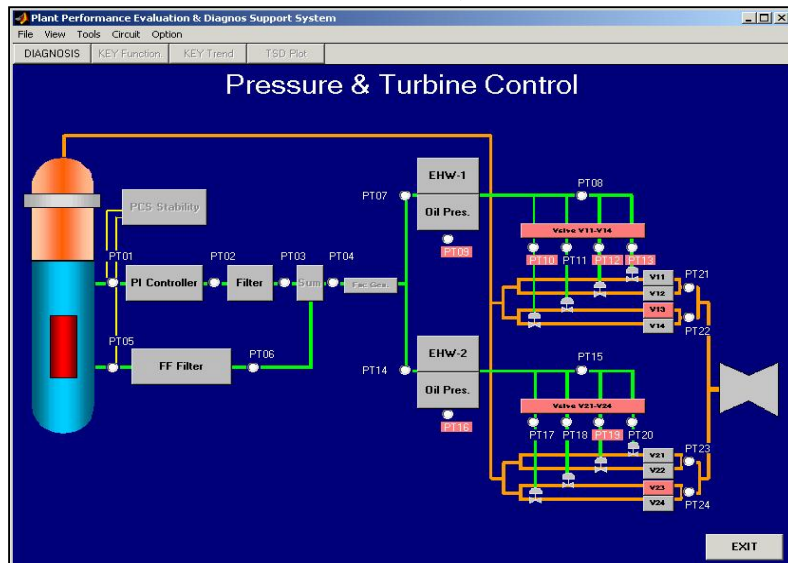
Data is collected by existing plant data acquisition systems, such as the plant process computer and transient recorder.



Transfer by any data media or network



PEGASUS evaluates the data off-line and the results are presented on user-friendly graphical user interfaces (GUIs). PEGASUS runs on a standard PC with Windows OS. A routine health check only takes a few minutes.



PEGASUS presentation of alarms (red) in a circuit. A circuit is a well-defined part of the plant system, in this case the Pressure & Turbine Control system.

