Applying data.
Preventing failures.
Maximizing productivity.

Comtrade Digital Services provides strategic software engineering services and solutions. For over 25 years, we have enabled companies from various industries to innovate faster and reinvent their business models digitally, by using agile development methodologies, innovative technology and our business acumen. We ensure global delivery and implementation in the fields of artificial intelligence, digital banking, embedded systems, energy, logistics, mobility & travel and quality assurance & testing.
With today’s constant market demand growth and technological advancements, companies have to manage and maintain a variety of assets, both manually and through various, continuously evolving systems. Adding to the struggle is all the important data that companies gather via IoT, the sheer volume of which makes it difficult to utilize in optimizing company performance and costs.

Forensixx is a software solution that enables companies to gain value from data by combining IoT and Machine Learning and apply it in their daily operations. This allows them to accurately predict future failures and costs, schedule maintenance operations, and even create new business models, by reliably forecasting equipment status.
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**APPLYING DATA TO PREVENT FAILURES AND MAXIMIZE PRODUCTIVITY**

- **FXPM**
  - Predictive maintenance
  - Monitor health by using historical & real-time data
  - Reduce overall maintenance costs up to 25%
  - Reduce spare parts inventory up to 30%

- **FX4L**
  - Forensixx for Logistics
  - Monitor key processes using IoT based historical & real-time data
  - Extend the lifetime of an aging asset up to 22%
  - Increase equipment efficiency up to 20%

- **FX4I**
  - Forensixx for Industry
  - Identify issues using IoT based historical & real-time data
  - Reduce maintenance time up to 50%
  - Increase uptime of equipment up to 25%

**Targeted 90% or more OEE - Overall Equipment Effectiveness**

- **90%**
  - Targeted 90% or more reduced issue spotting time

**Targeted 80% or more reduced unexpected failures**

- **55%**
  - Targeted 55% or more reduced issue spotting time
01 targeting 60% OEE

Assets ➔ Time-based maintenance ➔ Alerts Ticket MGMT ➔ Documentation Manuals

02 targeting 80% OEE

Assets ➔ Gathering telemetry data ➔ Time-based & condition-based maintenance ➔ Alerts Ticket MGMT ➔ Documentation Manuals

03 targeting 90% OEE

Assets ➔ Gathering telemetry & service data ➔ Diagnostics & Analytics ➔ Time-based, condition-based & predictive maintenance ➔ Alerts Ticket MGMT ➔ Documentation Manuals
STEP-BY-STEP TO PREDICTIVE MAINTENANCE AND RENTING

01 THE BASICS
Step one is identifying and cataloguing individual company assets. From this, a detailed, easy-to-use organizational map is created within Forensixx, matching each maintainable component with its corresponding process, location and documentation. With the introduction of time-based maintenance, this basic set-up already targets 60% OEE, but you can take things one step further.

02 ONE STEP AHEAD
Installing sensors, interfaces and/or parsing log files to relay data from your equipment offers a substantial profitability boost, letting you see precise efficiency info and equipment condition on multiple levels. By taking this proactive step, OEE can reach as high as 80% or more.

03 ON THE FOREFRONT
Over time you can learn from this data. Using diverse data manipulation, Forensixx can monitor and graphically display your company’s performance, help predict failures, and map where issues are occurring and recurring, in order to optimize all your important processes. This final step can raise OEE up to 90% or more.
Forensixx offers companies enhanced insight into their whole business, from a complete overview of all of their equipment and key performance indexes, to detailed information about the functioning of individual components and processes.

Remote equipment is much easier to monitor, due to the relay of sensor-gathered data and convenient event reports, keeping you notified and reducing travel time.

**Ensuring your company is always up and running at maximum productivity is simple with real-time, and predictive alerts.**

When something goes wrong, Forensixx immediately identifies where the problem is, notifying the right team about what needs their attention, when, and where. Various access levels can be created, so that specific teams will receive only alerts relevant to them. They can also rely on step-by-step maintenance wizards providing instruction manual documentation, precise asset locations, component and tool lists - maximizing safety and minimizing maintenance and down times.
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Our specialized Maintenance Issue Ticketing system allows you to track every maintenance process from start to completion, so that no task is left unchecked.

Adaptable for general maintenance, logistics, and every kind of industry, Forensixx is a smart solution for optimizing the management of all your assets.
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Comtrade d.o.o.
Letaliska cesta 29b
1000 Ljubljana, Slovenia
T: +49 711 22254 233
E: info.de@comtrade.com

www.comtradedigital.com