



# EFNMS Newsletter #11

## (March 2020)

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# Events

## Call for Workshops – EuroMaintenanceNEXT2021



### Sharing knowledge is key

From 29 – 31 March 2021, the Netherlands is host of the largest Maintenance convention of Europe: EuroMaintenance2021. With an approximate 2,500 visitors, this event is the most important platform for Maintenance and Asset Management. For three full days, all visitors will get to experience a variety of valuable keynotes, excursions and workshops. Here, they can learn new skills, exchange information and knowledge or expand their network. In addition to this, EuroMaintenance is collaborating with MaintenanceNEXT on behalf of EFNMS!

EuroMaintenance provides eye-opening experiences, revealing blind-spots and memorable sessions. So, we encourage you to come up with a hands-on workshop proposal. How will you encourage interaction? Will you be teaching your attendees a new technique? Will you learn your audience how to make the most modern maintenance analysis? Create something new, generate ideas? Will you use digital media, physical media, or a combination?

We invite you to contribute to Europe's largest and most important event for Maintenance and Asset Management by writing up your workshop proposal and sending it to us.

Read all about it [HERE >>](#)

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# Call for papers – 26th HDO International and Mediterranean Conference on Maintenance



## MeditMaint 2020

### **MAINTENANCE 2020**

**May 12–14, 2020**

**Rovinj, Hotel Lone, Croatia**

Dear colleagues,

We are especially pleased to invite you as authors of the papers, equipment and materials exhibitors, or partners, to participate in the 26th HDO Mediterranean International Conference and Exhibitions MeditMaint 2020 – Maintenance 2020.

This year's conference and exhibition will be held under motto: **Maintenance is As Much Art As it is Science!**

We expect more than 150 participants, renowned plenary lecturers from Mediterranean countries, across Europe and the United States, which should especially focus on leaders and maintenance managers as well as professionals and asset management experts. We hope that in a constructive and above all enjoyable and relaxed Mediterranean atmosphere of counseling in the beautiful Rovinj, you will gain new experiences and knowledge, friends and partners that will be useful to you personally, the companies and the countries you come from.

[Call for papers, exhibitors and sponsors >>](#)

The mission of this conference is to exchange knowledge and experience as well as networking of experts, scientists and businessmen who are directly or indirectly linked to maintenance and asset management.

Keynote speakers are prof. dr. **Jezdimir Knezević**: (UK): *Reliability + Maintenance = What Now?*, **Janez Tomazin**, Slovenia: *Modern Management of Physical Assets*, **Damir Vandelić**, Croatia: *Management, Property, Maintenance*, **Zlatko Bukovac**, Croatia: *Photovoltaic power plants*, dr. **Mate Jurjevic**, Croatia: *Maintenance of autonomous ships*.

The official languages of conference are Croatian and English.

[Read more >>](#)

# Instandhaltungstage 2020

**New dates: 23.–25.6.2020**, Congress area Messe Salzburg

Modern maintenance is the backbone of every plant-intensive company. In the area of conflict between increasing cost pressure, plant reliability, preservation of substance and a lack of skilled workers, digital technologies appear to be the saviour. The future is now. But those who do not operate the right levers now will fall by the wayside.

Under the motto **Maintenance: Back to the future?!** practitioners and experts will discuss future-oriented questions, proven technologies and tested methods in Salzburg.

[Read more >>](#)

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## Activities

### New edition of the EFNMS Excellence Awards 2021

This edition will deliver three types of award:

- Master Thesis Award (MTA)
- PhD Thesis Award (PTA)
- European Maintenance Manager Award (EMMA)

This competition is a bi-yearly activity. The awards have been instituted by EFNMS, but the organization, the selection of the Laureates and the sponsoring of the prizes has been delegated to the "Salvetti Foundation", created for this purpose, under the presidency of Dr. Stefano Salvetti from Italy and honorary member of EFNMS.

EFNMS established the so called EuroMaintenance award in 1990 for the first time. In 2006 the Salvetti Foundation was created and from then the foundation sponsored the awards under the name EuroMaintenance incentive awards. These awards consisted of a certificate or diploma and a sum of money.

To achieve an adequate participation a relevant role is required to National Maintenance societies in order to promote the Awards. As in previous editions a coordinator(s) is required.

It's the intention to formally start the competitions after the General Assembly meeting at the end of April in Budapest.

More details will be made available towards the NMS's via the formal lines of communication between EFNMS and the Salvetti Foundation.

Friendly Regards  
**Hans van Selm**

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# EFNMS KPI's Benchmarking Survey 2020

It is accepted that anything that cannot be measured is difficult to improve. To reinforce this idea we can propose a Pseudopsychologicalism:

If you assure me "you control"

If you set goals and goals, you make sure and control

Then you get improvements

According to the previous one, the EFNMS through the EMAC Committee has set itself the objective of identifying best practices and values in key status indicators (KPIs) related to the maintenance function the end of data that allow the range of values of the look for opportunities to improve business maintenance control.

## Main Purposes of the Survey

- Identify the most common used indicators, according to Maintenance functions, in the defined sector.
- Provide useful information about the range of values of the indicators according to the sector.

## Sectors of study

- Chemical
- Energy Production
- Oil & Gas
- Pharmaceutical
- Pulp & Paper

## Participants

The Survey is addressed to Maintenance managers in companies established on countries members of the EFNMS and belong to the sectors of the study.

## Ultimately doing a Benchmarking

To put this into practice we have chosen to do a short survey based on EN 15341 in its latest review and have chosen five sectors so that they can be comparable indicators in each of them.

Within the survey we have incorporated a series of questions that help us to know a little about the companies whose KPI's send us. These questions will be related to the following eight chapters:

- Overview of workplaces
- Maintenance Organization
- Maintenance Costs
- Maintenance contracted
- Management control
- Computerization
- Maintenance training
- Characteristics of the head of maintenance and his environment

What are the benefits to your participation in this survey? Participating companies will be provided with the survey results and will be able to see the best KPIs and know how close or far they are.

This survey will be launched in April 2020 and will be repeated periodically to see the degree of progress in the use of KPI's.

The results of the survey will also be presented at the Euromaintenance Rotterdam 2021.

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## **EFNMS Asset Management Survey 2020**

### **Invitation to participate in the first round of the survey**

EFNMS Asset Management Committee (EAMC) has launched a second survey concerning the implementation of Asset Management practices in Europe.

### **Main purposes**

The objective of this study is to collect background information for the development activities in the area of Physical Asset Management and the maintenance function as a part of Physical Asset Management.

To offer European organisations insight into the degree of implementation of Physical Asset Management within various business and technology environments.

### **Target respondents**

The survey is addressed to those who are involved in the establishment, implementation, maintenance and improvement of an asset management system (e.g. asset managers, operations managers, maintenance managers, production managers etc.).

### **What is Physical Asset Management?**

Physical asset Management is "the optimal life cycle management of physical assets to sustainably achieve the stated business objectives". A "physical asset" is defined as a physical item that has potential or actual value to an organization.

### **Want to participate in the survey?**

To access the survey, please use the following link or QR code.

[Participate in the Survey >>](#)



The EFNMS is committed with the confidentiality of the information provided by the participants and it will be only for analysis proposes.

Survey inquiries, contact: [kari.j.komonen@saunalahti.fi](mailto:kari.j.komonen@saunalahti.fi) or [damjan.maletic@um.six](mailto:damjan.maletic@um.six)

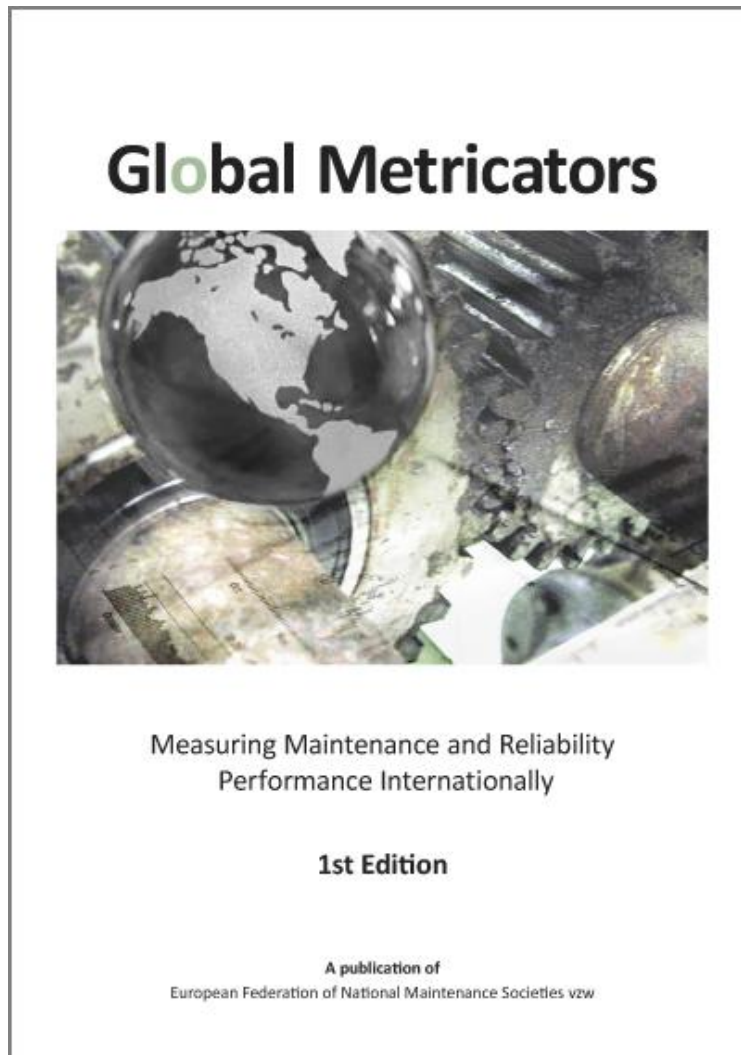
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# News

## The Global Metricators Guidebook – GloMe

In 2011 the guidebook Global Maintenance and Reliability Indicators was published.

Now its successor, The Global Metricators Guidebook – “GloMe” is ready to be used by the International Maintenance community with updated European indicators and the North American metrics.



GloMe introduces a new term “Metricators” – a contraction of the “Metrics” and the “Indicators”.

The GloMe Guidebook will explain the similarities and differences between the indicators from the newly released European standard EN 15341:2019 and the SMRP metrics. GloMe contains 36 SMRP metrics and 40 EN15341 Indicators being harmonized.

Each of the Metricators are supported by a set of guidelines and examples of the calculation. This provides maintenance professionals with an easy-to-use guide for understanding the metricators, and the components which are included or excluded in the calculation of each indicator.

## The application of the metricators

A common question asked by the delegates at Benchmarking workshops has been "Which indicators are to be applied to my maintenance processes?"

In answer to this query, the GloMe authors have looked to the EN 17007 standard for maintenance processes and the associated indicators. The EN17007 standard proposes generic processes, for example Planning and Scheduling, Spare Part Management. and Maintenance Management.

GloMe contains a chapter recommending metricators which can be used to measure the performance of the maintenance processes. This link from the maintenance processes to the metricators offers a complete solution to the maintenance manager who looks to measure the efficiency of the maintenance processes.

GloMe also documents Best-in-Class values for a selection of the metricators.

A chapter in GloMe will help maintenance professionals interpret the sometimes daunting lexicon of maintenance and availability terms by explaining those frequently used and often misinterpreted.

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## APMI celebrated its 40th anniversary

In January 2020, the Portuguese Association of Industrial Maintenance (APMI) celebrated its 40th anniversary. It was an important date to remember the founders of this Association. Thanks are due to all those who over the past four decades made up the Board of Directors, have joined APMI and, also, to its Staff Members.





It is the objective of APMI to promote the dissemination of the importance of Maintenance as a factor in increasing the productivity and competitiveness of companies. It promotes, among its members, the knowledge and implementation of technologies, methods and maintenance techniques that allow to ensure the correct operation of equipment, systems, installations and buildings, in order to obtain the maximum return on the investment made in those assets, by extending their useful life and keeping them in safe operation as long as possible.

The ability to fulfil its objectives, the competence and the prestige of those who developed activities in this Association has guaranteed the continuity, success and prestige that APMI granted in the field of Maintenance in Portugal.

In these 40 years, Portugal and the industrial activity in which we operate have endured a large change. During that time, Portugal became a full member of the European Union. It is important to highlight the capacity that APMI has demonstrated to survive to all conjunctural and structural situations, maintaining its line of faithful compliance with its mission towards its Associates and the society in which APMI operates.

APMI's prestige has crossed the borders of our country and enjoys international recognition that must also be highlighted, through its participation in EFNMS and FIM (Federation of Iberia and Latin American Maintenance Associations).

For all this the APMI, as the unique Association in Portugal in the Maintenance field, is to be congratulated.

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## Reliable Reliability and Maintainability Database

### **Reliable Reliability and Maintainability Database: The database approach using Weibull 2p for reliability PDF and Normal for maintainability PDF**

One of the big challenges to perform reliability analysis and define reliability performance indexes in equipment and component level is the lack of historical data or even a lack of reliable database as reference.

In the last decades, the process industry such as Oil and Gas, petrochemical and Chemical has been using generic reliability database as input to their reliability and maintenance as well as safety study such as OREDA, AIChE and others.

Despite of very high effort to create such database, it's necessary to consider the different pattern of failure along time that is represented by different probability density functions (PDF) for rotating, static, electric and electronic equipment (*figure 1*).

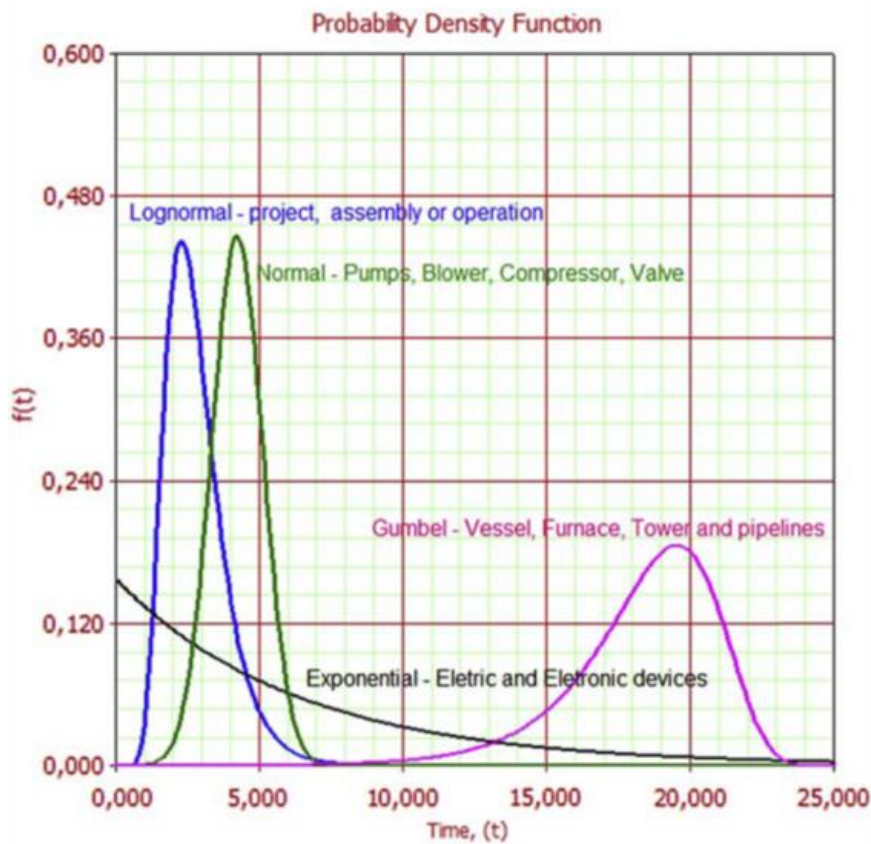


Figure 1: PDF and Equipment. Source: Calixto Eduardo, 2016.

Unfortunately, most of databases developed so far consider the exponential PDF by using MTTF and constant failure rates for all type of equipment. Under such assumption, poses the limitation of random failures and not represent the wear out phase, very characteristic of rotating and static equipment/component.

Another limitation to consider the exponential PDF by using MTTF and constant failure rate is that such approach does not enable to account the positive effect of preventive maintenance and inspection in the reliability by re-establishing the reliability of the state as good as new after repair. The reestablishment of the reliability of the state "as good as new" is possible by using Weibull 2p, that has the shape of Normal or Gumbel PDF considering the increasing failure rate, or in other words, the wear out phase ( $\beta \geq 2,5$ ). The reliability reestablishment to the state "as good as new" can be proved and demonstrated by using models such as RBD in the RAM analysis.

Therefore, the necessity of a reliability database that consider the real pattern of failure of each different equipment is very necessary. The Weibull 2p, is the generic PDF that represents all pattern of failure occurrence along the time such as early life, useful life and wear out phase by representing the different PDF and failure rate shapes such as Lognormal, Exponential, Normal and Gumbel.

Please go to the link below to see an example of the proposed reliability and maintainability database.

[Read more >>](#)

By Dr. Eduardo Calixto

# Solutions to the shortage of technicians in the ports of Ghent and Antwerp via Smart Motor Services

Technicians cannot be replaced but repetitive tasks and processes can be partly automated via smart sensors. These can now also easily be placed at the heart of almost all machines, the electric motor. The smart sensors provide the connection between the electric motor and a server application. Together they form "Smart Motor Services". As a result, no more time has to be spent on daily routine checks of electric motors. In this way, a solution is found for the acute shortage of technicians in the ports of Ghent and Antwerp.

Bracke Aandrijfspecialist proudly presents two new smart services at Maintenance Antwerp, Smart Motor Sensor Service and Spare Parts Service. This smart combination of new services relieves the maintenance department, optimises production processes and ensures the reliability of the assets. An important added bonus is that the more efficient use of people, materials, logistics and energy also brings an environmental benefit.

[Read more >>](#)

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Best regards,  
EFNMS Newsletter Team

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With Maintenance Greetings

**Cosmas Vamvalis    David Merbecks**

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**Heikki Jokinen**

Finnish Maintenance Society, Promaint



European Federation of National Maintenance Societies vzw

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