

The logo consists of a stylized red and grey triangle on the left, followed by the text 'ASSET PERFORMANCE 4.0' in a bold, grey, sans-serif font.

ASSET PERFORMANCE 4.0

CALL FOR PRESENTATIONS, WORKSHOPS & HACKATHONS

Asset Performance 4.0 2021 takes place from October 26th till 28th 2021 in the Flanders Meeting & Convention Center Antwerp, Belgium. The 2021 Asset Performance 4.0 Conference & Exhibition is a hybrid event, meaning you can join live in Antwerp, but also watch online.

What is Asset Performance 4.0?

The industrial landscape is currently right in the middle of the fourth industrial revolution with new technologies such as the Industrial Internet of Things (IIoT), big data, predictive analytics, machine learning and more being implemented at an ever-increasing pace. The combination of IIoT and predictive analytics offers unseen possibilities for operations, maintenance and asset reliability with more diverse and affordable solutions to monitor and increase asset performance (equipment uptime, energy consumption, quality output,...).

After having organised the very successful Euromaintenance 4.0 Conference, BEMAS took the initiative for the Asset Performance 4.0 platform. With this initiative, BEMAS offers an opportunity to stakeholders from all over Europe and beyond, to exchange ideas and inspiration in the field of digital transformation, industrial manufacturing and infrastructure management. Since the kick-off in September 2020, Asset Performance 4.0 inspires 800+ participants with more than 150 presentations.

From October 26th till 28th 2021, Asset Performance 4.0 features a hybrid conference and exhibition, with a mix of virtual presentations online and live presentations in Antwerp, Belgium. For this occasion, we are looking for speakers willing to share their insights on digital transformation in operations, maintenance and asset management in order to achieve higher equipment reliability and cost performance in asset intensive industries.

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1. How to get involved at Asset Performance 4.0

We're currently looking for people to give a **presentation, host a workshop and/or give an interesting idea for a hackathon.**

1.1 Presentations

Asset Performance 4.0 focuses on disruptive technologies and solutions to increase performance in the field of operations maintenance, reliability, condition monitoring throughout the asset lifecycle. We are looking for speakers who want to showcase their innovations and expertise in this field during a 40 minute presentation.

Industry cases, concepts, pilot cases, academic viewpoints or solution-oriented cases are welcome. For this, we are looking for in-depth, qualitative content that inspires our audience to continue working on asset performance.

We are also looking for managers and engineers working in asset intensive organisations in all types of industries (Oil&Gas, Chemical industry, Manufacturing, Food & Pharma, Infrastructure, ...) willing to talk on how they handle the challenges in maintaining and managing their assets. We are looking forward to hear about experiences with 4.0-solutions currently being implemented in (pilot) sites.

1.2 Workshops

Workshops have a duration of 1,5 hours, half a day (3 hours) or a full day (6 hours). The aim of a workshop is to give participants a first experience with a certain methodology or solution in the field of maintenance and operations.

So we are looking for workshop animators willing to teach participants how to use disruptive technologies or solutions and to get them acquainted with how new solutions can help them increase asset performance. Participants bring their own device, and of course you can also bring your own demo material.

1.3 Hackathons

In a hackathon, an asset owner defines a challenge in operations or maintenance. Interested individuals or solution providers try to formulate a solution using digital tools, such as predictive analytics, AI, IoT, ...

We're currently looking for asset owners who can present a relevant challenge. As a challenge owner, you are expected to explain your challenge during the kick-off webinar and to make available a historic data set relative to the challenge. After the kick-off, the interested experts start working out a solution, which they

submit on our hackathon platform. The challenge owner then selects the 3 best solutions, which are presented during the Asset Performance 4.0 Conference, after which the winner is determined.

In 2020, 3 hackathon challenges were selected, each of which received several solutions. [Learn more about the 2020 challenges and solutions here.](#)

1.4 Asset Performance Awards

The Asset Performance Awards are open to all types of organisations that operate in an asset-intensive environment. These can be maintenance services, project teams or asset management organisations in the industry or infrastructure world, but also technical service providers can take part in the competitions for the awards. The focus on three different sub-aspects makes the Asset Performance Awards also accessible to SMEs or organisations that have made strong progress in a particular aspect of maintenance or asset management.

This year's Asset Performance Awards are not only open to Belgian entries, but also to other European entries.

Signing up for an Asset Performance Award can be done via www.assetperformanceawards.eu.

2. Possible presentation & workshop topics

In brief, we are looking for speakers to give an English spoken presentation, workshop or hackathon on one of the following topics:

1. Predictive & prescriptive maintenance

- 1.1 Asset Health Management (dashboarding, assessment, ...)
- 1.2 Predictive maintenance & Remaining Useful Life prediction
- 1.3 Prescriptive & Prognostic maintenance

2. Smart operations & manufacturing

- 2.1 Autonomous operations
- 2.2 Manufacturing process optimization
- 2.3 Smart production planning & scheduling
- 2.4 Yield optimization

3. Artificial Intelligence Systems & Algorithms

- 3.1 AI & Machine learning
- 3.2 Anomaly detection
- 3.3 Cognitive analytics
- 3.4 Conversational assistance
- 3.5 Decision-making algorithms
- 3.6 Hybrid Modeling
- 3.7 Hybrid Intelligence
- 3.8 Knowledge extraction

4. Asset Data Management

- 4.1 Asset data strategies
- 4.2 Cybersecurity
- 4.3 Data capture
- 4.4 Data logging & storage
- 4.5 Data quality management & enhancement
- 4.6 Data visualization
- 4.7 Digital twins

5. Asset Management 4.0

- 5.1 Asset Performance Management (Cost management, KPI's, Dashboarding, Benchmarking, Financial reporting, PDCA, ...)
- 5.2 Asset Portfolio management (Life Cycle Management, Life Cycle Cost optimization, Obsolescence, Asset investment & decommissioning decision taking, ...)
- 5.3 Digital transformation
- 5.4 Risk Management associated with operating assets (integrity, compliance, operational safety, ...)

6. Reliability 4.0

- 6.1 Approaches, solutions and (digital) tools for Reliability & Maintenance strategies
- 6.2 Condition monitoring techniques and tools for asset health assessment and asset degradation prediction
- 6.3 Leadership & Reliability Culture (Goal setting, change management, cultural change, motivation, ...)
- 6.4 Lubrication 4.0
- 6.5 Solutions and (digital) tools for Asset Condition Monitoring & Management

7. Smart Quality Assurance & Quality Control 4.0

- 7.1 Automated sampling & analysis
- 7.2 Production quality optimization

- 7.3 Smart quality inspection
- 7.4 Smart vision

8. Energy & Emission Optimization

- 8.1 Circular maintenance
- 8.2 Energy efficiency optimization
- 8.3 Smart energy monitoring
- 8.4 Smart energy reporting

9. Motor Systems 4.0

- 9.1 Explosion proof motors
- 9.2 Motor Energy Efficiency
- 9.3 Motor Health Assessment
- 9.4 Motor Life Cycle Management & Performances
- 9.5 Sustainability & Circular Economy applied on Motors

10. Smart maintenance & service supply chain

- 10.1 3D printed spares
- 10.2 Autonomous Supply Chain & Smart inventory
- 10.3 Blockchain for maintenance & service logistics
- 10.4 Digital services
- 10.5 Servitization
- 10.6 Turn Around Management 4.0

11. The connected operator & maintenance technician

- 11.1 Augmented, Mixed & Virtual Reality (AR, MR & VR)
- 11.2 Enhanced Health & Safety
- 11.3 Enhanced Technician efficiency & effectiveness
- 11.4 Mobile data for mobile workers
- 11.5 Remote assistance
- 11.6 Wearables

12. Industrial Internet of Things & Innovative solutions

- 12.1 Connected CMMS & ERP 4.0
- 12.2 Edge computing
- 12.3 IIoT Platforms
- 12.4 IIoT Security
- 12.5 Smart sensors & smart metering
- 12.6 Smart tools, drones & robotics for maintenance

3. Who can come speak at Asset Performance 4.0?

Submissions are open to everyone involved in maintenance & asset performance (asset owners, OEM, solution providers, service providers, research institutions...).

We are actively looking for industry cases. That is why we are asking solution & service providers to submit a presentation including a practical case presented by a user/asset owner. Furthermore, also concepts, pilot cases, academic viewpoints or solution-oriented cases are welcome. For this, we are looking for in-depth, qualitative content that inspires our audience to continue working on asset performance.

As Asset Performance 4.0 will be a hybrid conference, co-speakers can present from a remote location. We do however encourage all presenters to be present live. Speakers and co-speakers receive a free admission for the conference and the online platform.

There are no financial obligations to speak at Asset Performance 4.0. Speakers neither have to pay for registration nor have to purchase a booth in order to be allowed to present at the conference.

Asset owner speakers can participate with 2 speakers for free. Academic presenters can participate with 1 free speaker. Special rates apply for accompanying speakers.

Workshop animators can participate with 2 people for free. For additional animators, special rates apply.

4. Why come speak at Asset Performance 4.0?

- Speaking at the conference helps you to demonstrate the competences of your company in the field of asset performance.
- Get feedback from peers.
- Speaking or giving a presentation helps you to crystallize your ideas and concepts, which helps you to gain new insights.
- Free access to the online platform & free access to the conference.

5. Submission deadline

Submissions must be filed by March 1st, 2021 on the official platform on www.assetperformance.eu/2021

The proposals will be reviewed by the program committee. The selected speakers and workshop animators will be informed prior to May 1st, 2021.

6. How to submit a presentation, workshop or hackathon proposal

Visit proposal.assetperformance.eu to submit your proposal(s).

1. Click on Log-in in the upper right corner or click on Submit your proposal.
2. Before you can submit a proposal, you have to **create an account**. With this log-in, you propose new ideas, but you also get an overview of the proposals you have already made.
3. Enter your **personal details** and upload a picture of yourself. When you're chosen as a speaker, this picture will be used on the website.
4. You can add 1 extra speaker.
5. Enter the **details of your presentation**. You don't need to upload your full presentation yet. We just need a concept and general idea of what you want to present.
6. **Review** your submission.
7. **Confirm** your submission.

If you want to make any changes later, you can always log in and change your submission.

You can add multiple submissions in the system.

7. Accompanying speaker rates

7.1 Speaker rates

*Valid for 2 presentation speakers for asset owners and 1 presentation speaker for academic presentations.
Prices per person. All rates VAT excl.*

Conference package for speakers: FREE

- Exhibition opening night
- 2 day Conference
- Conference event & dinner on 27 October 2021 is NOT included

Conference package with event & dinner: € 115

- 2 day Conference
- Conference event & dinner
- Exhibition opening night

Full package: € 555

- 1 day workshop
- 2 day Conference

- Conference event & dinner
- Exhibition opening night

7.2 Workshop facilitator rates

Valid for 2 workshop speakers. Prices per person. All rates VAT excl.

Full package without event & dinner: FREE

- 1 day workshop
- 2 day Conference
- Conference event & dinner is not included
- Exhibition opening night

Full package with event & dinner: € 115

- 1 day workshop
- 2 day Conference
- Conference event & dinner
- Exhibition opening night

7.3 Accompanying speaker rates

Valid for any extra presentation or workshop speakers. Prices per person. All rates VAT excl.

Conference package for speakers: € 1.055

- Exhibition opening night
- 2 day Conference
- Conference event & dinner is NOT included

Conference package with event & dinner: € 1.170

- 2 day Conference
- Conference event & dinner
- Exhibition opening night

Full package: € 1.495

- 1 day workshop
- 2 day Conference
- Conference event & dinner
- Exhibition opening night

1 day workshops on 26 October 2021: € 495

1 day conference on 27 or 28 October 2021: € 495

8. About Asset Performance 4.0 Conference and Exhibition

The Asset Performance 4.0 Conference & Exhibition offers a unique opportunity to learn how new 4.0 technologies and fundamentals in operations, maintenance and asset management reinforce each other in order to achieve higher equipment reliability and cost performance in asset intensive industries. The conference will take place in the brand new Flanders Meeting & Convention Center in Antwerp, situated only 30 min from Brussels airport. The Port of Antwerp is home to the largest integrated oil and chemical cluster in Europe. More on www.assetperformance.eu .

Asset Performance 4.0 schedule:

- Tuesday 26 October 2021 : Workshops and courses, opening of the exhibition
- Wednesday 27 October 2021 : Exhibition, different tracks and sessions, Asset Performance Award Night
- Thursday 28 October 2021 : Exhibition, different tracks and sessions, closing reception

The exhibition will take place simultaneously with the conference. Please contact info@assetperformance.eu for more information.