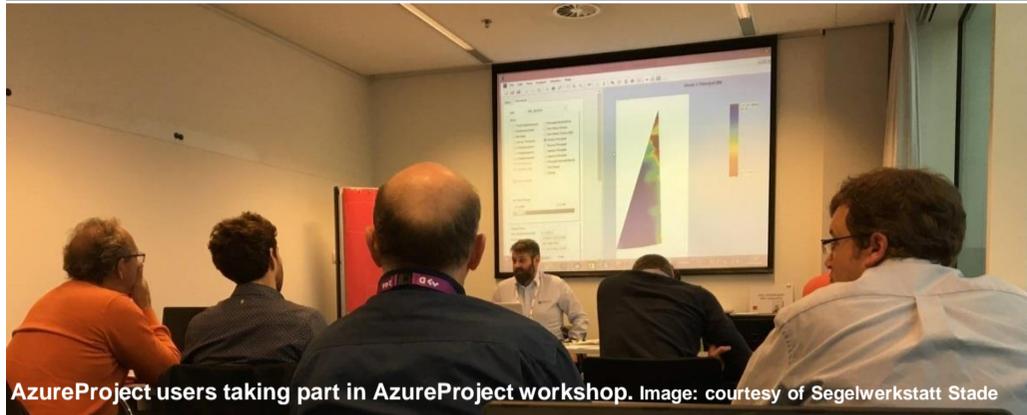




**It's been fabulous 2016 at SMAR Azure!**  
 Here's quick summary.  
 We have launched new versions of RigEdge, which has dramatically improved design and analysis experience. It is now used both by Lloyd's Register and RINA Service for the certification of yacht's rigs.  
 We have released 4 new versions of AzureProject: the integrated sail design and optimisation software and its user base has been expanding with over 200 users worldwide.  
 We have received lots of positive feedback from our clients, who were happy to report that their sails were winning!  
 & we have ended the 2016 with successful METS2016!



**METS 2016**  
 MANY THANKS to all visitors to our stand and all attendees of the 6th AzureProject User Group meeting.



**Dr Sabrina Malpede**  
 SMAR Azure Ltd, CEO  
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The Design and Technology Symposium, part of the Yacht Racing Forum, was held in Malta on the 28<sup>th</sup> of November. It brought together many industry players, designers and racers to discuss the latest innovation in sailing racing boats.

I was delighted to be part of an interesting panel discussion on the 'latest innovation in Sail Design', moderated by Seahorse Magazine's Dobbs Davis. The session started with the views of Jeremy Elliott, sail designer at North Sails. He illustrated the recent development of new sail manufacturing techniques. Then, Jordi Arbusa of Sailing Technologies, discussed the importance of the manufacturing environment and process to guarantee the quality of the final material.

Then, Dobbs asked my opinion, considering my experience in leading SMAR Azure, which has been providing innovative technologies for the design of sails for 12 years. Our direct experience in working in the design and analysis of sails and rigs and the indirect

## What's the latest development in sail technology?

experience of our customers, tells us that the main drivers for sail technology innovations are:

- Speed
- Reliability
- Engineering, and
- Cost

All designers and manufacturers in this industry are on a mission to design fast sailing vessels. That has generated a great deal of interest in light catamarans and foils. At the YRF, the discussion on foils and foiling covered almost half of the entire discussion time!

But fast sailing structures need to be reliable. Speed requires also low weight. As a result, engineering these structure usually requires the use of expensive materials and manufacturing process. Then, in our view, the last driver for innovation is cost. Cost are raising while the market is looking for cost control and ways to reduce the discrepancies between estimated and actual costs. It happens often that projects fail to start because of the higher cost or they are interrupted because of unforeseen higher costs.

Simulation is intensively used to validate design and reduce prototyping costs in many industries and racing industries, such as motor racing.

In Yachting, simulation is yet not of common use and most of the times, yachts and its components are still developed separately. At SMAR Azure we strive to develop user-friendly simulation tools to aid the design of fast and reliable sail and rig structure, just because that approach will lead to:

- Optimal weight, sail sizes/sets, trimming
- Validation in extreme sailing conditions
- Tune the standing and running rigging
- Failure mode calculation
- Drive optimal engineering
- Reduced prototyping cost, thanks to the reduction of labour, material and time

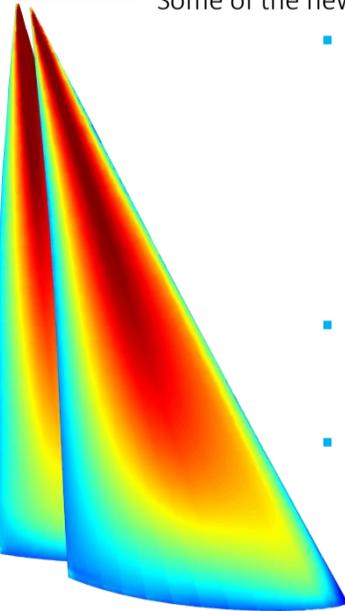
Today, the SMAR Azure technology and products, AzureProject and RigEdge are yet the unique, commercially available design and analysis tools for sail and rig design, providing accurate information about sailing loads for the design of boat. We will keep developing our proprietary technology and tools to enable designers to develop fast and reliable sailing vessels.

**AzureProject demo – CLICK HERE**

### AzureProject – new version released

New version of AzureProject has just been released. Some of the new exciting features include:

- **Panel layout developments** inc. further developments to broadseams on radial sails, in particular **broadseam in biradial panel layout** has been improved dramatically thanks to a refined panel development method to allow **smooth seam shapes** and help production to **avoid second cut of the panels**.
- **Patches & UV panels:** improvements on the **grouping of layers** that will drastically help the design of **multiple layer patches**
- **Rules and measurements developments:** the measurements of the sail are now performed according to the latest changes in the measurements systems (ERS, ORC & IRC), allowing **precise design** of the sails to satisfy the requirements of the certificate
- **Sail Design Developments:** among many new features **the hull model** can be exported/imported to/from a separate file to make reuse of a shape between projects more straightforward
- **Fibre layout developments:** glue weight has been added as a function of fibre content in the membrane weight calculation, which will allow to estimate the weight of the string sails **more precisely**
- **User interface developments:** user interface on modern high resolution screens has been optimised

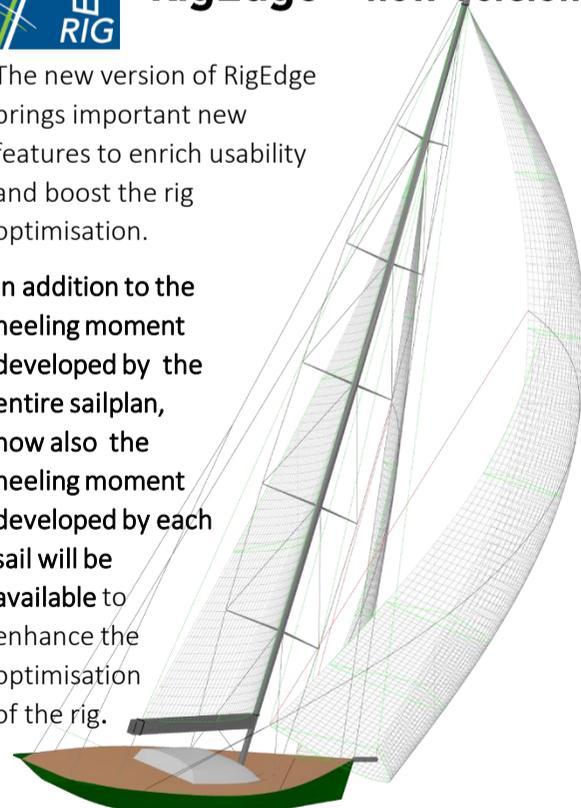


**RigEdge demo – CLICK HERE**

### RigEdge – new version

The new version of RigEdge brings important new features to enrich usability and boost the rig optimisation.

In addition to the **heeling moment** developed by the **entire sailplan**, now also the **heeling moment** developed by each **sail will be available** to enhance the optimisation of the rig.



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**NestFab demo – CLICK HERE**

NestFab is a high-performance nesting tool fully integrated with AzureProject, which means AzureProject users can simply nest panels and patches in one click. **See how: LINK HERE**

