**Launching Concurrent Design into the superyacht world**

Feadship, Aalsmeer, The Netherlands*; G. Swiers-Sellmeijer, g.swiers@vriesyard.feadship.nl*

1. **Concurrent Design @ Feadship**

After several years of development and innovation Feadship has opened three state-of-the-art Concurrent Design facilities which allow the different teams involved in a build to simultaneously communicate with owners teams in an interactive way. Developed with the European Space Agency, this revolutionary new methodology facilitates immediate responses to design and engineering decisions, speeding up the process and adding even more innovation flair to each Feadship.

* 1. **Unique & complex yachts**

As every Feadship revolves around a pure custom build, each is full of unique ideas devised by the owners and their team in partnership with our designers, naval architects and engineers. By its very nature this process has traditionally been a lengthy one as concepts go backwards and forwards in an iterative process between the teams involved.

Feadship owners are demanding increasingly complex custom yachts which place pressure on engineering capacity. The amount of engineering work is also increasing due to our ‘design for production’ strategy, short innovation cycles and an ongoing desire to reduce construction schedules even further.

These factors may potentially result in an increase in both the amount of early design capacity required and the throughput time involved in engineering activity. To tackle these challenges, we partnered with the European Space Agency to find ways to translate its successful concurrent engineering approach into the superyacht world.

1. **Collaboration between ESA and Feadship**

Together with ESA Feadship started a business case based on three pillars;

* The CD methodology: capture and document the Feadship CD-methodology, taking into account the existing Operational Excellence Program.
* The Typical roles: define the CD roles and ensure connection with the familiar roles within a Feadship project team.
* The CD-facility: Design the layout and set up the program requirements of the CD facility.

1. **Current use & Future vision**

Since 2016 the methodology of Concurrent Design is implemented and Feadship is on an upward trend. However, the methodology is not fully embraced yet and is sometimes seen as additional work. It is now time to act to get CD as a daily practice within the organisation and show the importance and major benefits of CD.

This paper describes the implementation of concurrent design as a new methodology within Feadship.The paper is divided into two subjects that cannot be seen separately; first the creation and design of the CD facility - at the same time knowing that proper equipment is not a guarantee for a good CD process. Second, the challenges within the CD process and creating the trust of people in this new way of designing a yacht.