

Dassault Systèmes 3DEXPERIENCE World 2020

SOLIDWORKS moving onto the 3DEXPERIENCE Platform

SMS_ThinkTank™ Commentary

Key takeaways:

- *SMS_ThinkTank™ believes, that Dassault Systèmes with this strategy, will make a major step forward in providing business value to small and medium size businesses*
- *SMS_ThinkTank™ believes that Dassault Systèmes with its 3DEXPERIENCE WORKS offerings understands that proper platform integration and representation of the various lifecycle stages are enablers for digital transformation in this market segment.*

SMS_ThinkTank™ recently attended the Dassault Systèmes' 3DEXPERIENCE World 2020 in Nashville, TN, USA. It is very interesting and reassuring to see the huge following SOLIDWORKS has and continues to engage actively. The attendance of around 5,500 users is a strong sign of this continued support. This is especially noteworthy to mention since the conference changed its name from "SOLIDWORKS World" to "3DEXPERIENCE World". That change also highlighted one of the main messages for this conference, "SOLIDWORKS moving onto the 3DEXPERIENCE Platform". It is always a balancing act to keep the SOLIDWORKS following strong while bringing them along to a new environment and thinking.

Bernard Charles, Vice Chairman and CEO of Dassault Systèmes, reiterated Dassault Systèmes' overall message and thinking of "harmonizing product, nature and life". In order to do so, SOLIDWORKS as a product, needs to be integrated into the overall Dassault Systèmes ecosystem to better meet customer's expectations in the long run, thus, providing a seamless experience for the end user throughout the entire lifecycle – going from a 2D drawing to 3D to the live experience to the "virtual twin".

Furthermore, it was stated that progress will be driven primarily by the end users. (Figure 1) This was an additional key message throughout the conference – what and how can Dassault Systèmes help their customers to be able to easily collaborate, create and innovate. This was also evident during Bernard Charles' talk – new categories of *innovators*, create new categories of *solutions* for new categories of *consumers*.



Figure 1: Gian Paolo Bassi, CEO SOLIDWORKS, talking about the importance of the end user

This is also highlighted in the various initiatives Dassault Systèmes supports. Those range from the innovation labs that support startups to supporting specific projects, such as the “Magic Wheelchair” (Figure 2). This is not just to provide young companies with an environment and means that helps them to be creative but also those projects with a platform and ecosystem that enables an innovative and creative environment that helps one to learn, have fun and grow.



Figure 2: “The Magic Wheelchair” project on stage

With Solidworks moving onto the **3DEXPERIENCE** Platform, changes will happen naturally. This conference was focused on explaining the associated benefits to the users while providing the participants an environment to discuss this with each other and their partners at Dassault Systèmes. At the same time,

there were a large number of presentations describing the new features that are now available to the end users.

3DEXPERIENCE Works is the new offering with Solidworks at the core of that portfolio (Figure 3). It comes in:

- Standard
- Professional
- Premium

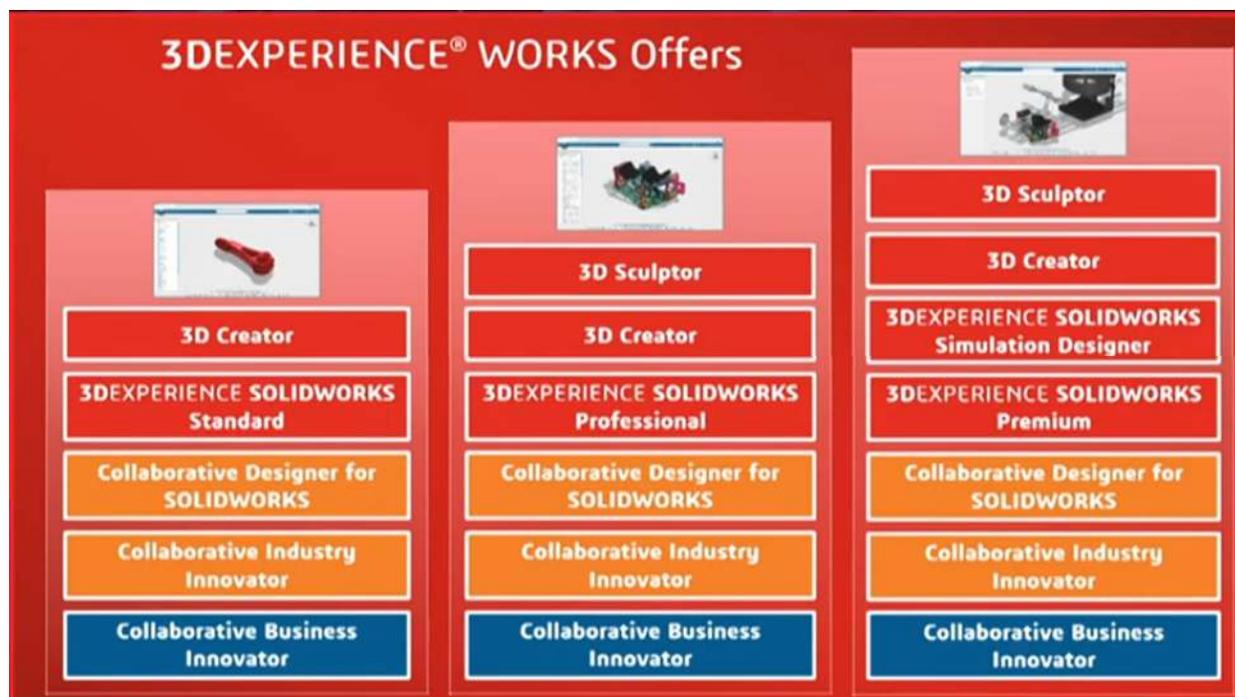


Figure 3: The new 3DEXPERIENCE Works Offerings
(Courtesy Dassault Systèmes)

When working in this new environment, SOLIDWORKS data will automatically be updated into the platform. At the same time, data management is embedded through its connection with the platform. The fundamental thinking behind this offering is to:

- Design
- Simulate
- Manufacture
- Manage
- Provide service
- Support concept development

All this will be done while ensuring that everything is connected and integrated. In addition, newly available capabilities will be easier and better support the automation of tasks.

In continuing with the thought that this new offering provides a seamless experience for the end user throughout the entire lifecycle, it needs to be mentioned that 3DEXPERIENCE Works also integrates capabilities from SIMULIA and DELMIA. Furthermore, the linking with the platform to provide the data management backbone allows the users to focus on the tasks at-hand invoking the required app based on

the user's role within the lifecycle. In addition, separate linear processes are being connected and allow for continuous looping. As Gian Paolo Bassi, CEO SOLIDWORKS, stated "It's not about point solutions anymore.". (Figure 4)

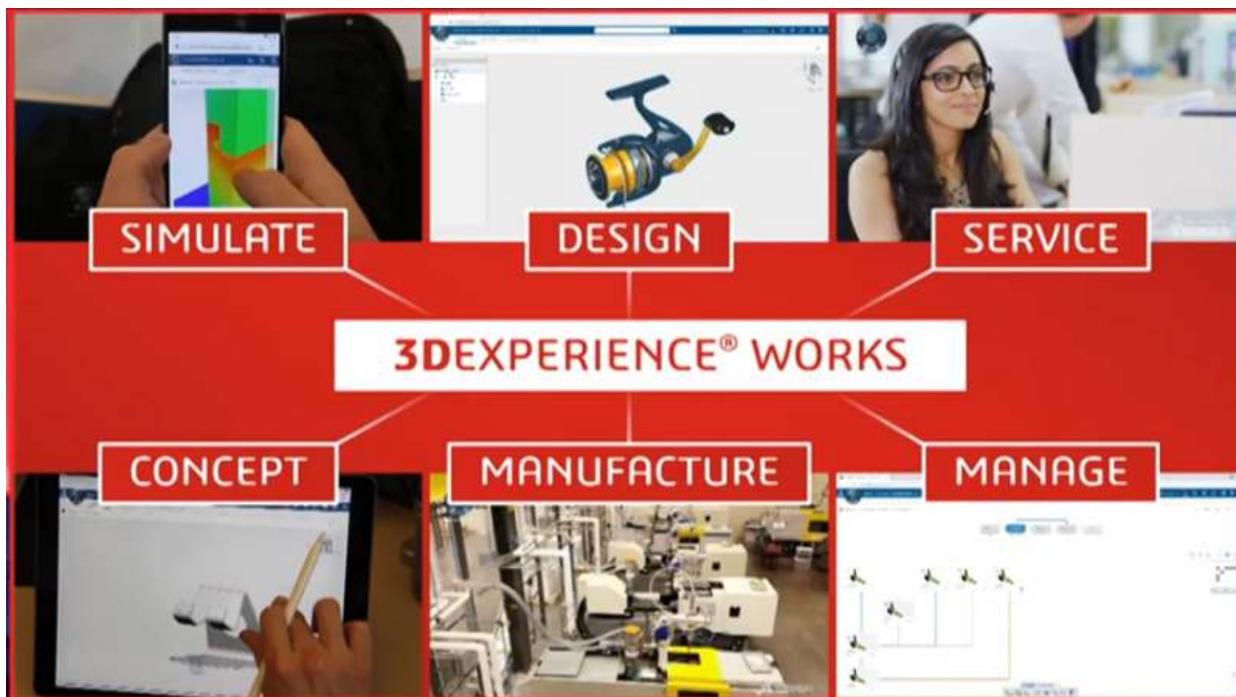


Figure 4: 3DEXPERIENCE Works - Going beyond point solutions
(Courtesy Dassault Systèmes)

Additionally, DELMIAWORKS as part of this umbrella was heavily presented during this conference. The focus of DELMIAWORKS, similar to SOLIDWORKS is to the small and the mid-market segment – mainstream manufacturers. DELMIAWORKS is the rebranding from the acquired in 2019 IQMS MES and ERP software. By integrating IQMS's solutions into the 3DEXPERIENCE platform on the cloud, Dassault Systèmes will provide these manufacturers with an affordable system for operations that improves the collaboration, manufacturing efficiency and business agility needed to serve their customers successfully. The manufacturers – many of them SOLIDWORKS users – also gain the flexibility to rapidly scale-up as a business grows. In parallel, these manufacturers can engage in new business opportunities and create value by supplying their manufacturing know-how and services to a large community of designers and engineers in Dassault Systèmes' 3DEXPERIENCE Marketplace – the world's largest virtual factory.

Conclusions

By combining SOLIDWORKS and DELMIAWORKS, as well as integrating other Dassault Systèmes capabilities over time, such as SIMULIA into the 3DEXPERIENCE WORKS environment, Dassault Systèmes will be able to more comprehensively address the small and mid-size markets, especially when focusing on the manufacturing industry.

3DEXPERIENCE WORKS not only makes the power of the platform available but also helps these companies with their digital transformation addressing the various lifecycle stages better. User adoption over the next year will show how this new thinking will be received by the traditional SOLIDWORKS community. However, if the attendance of this year's conference is a sign, it will be positively received.

About SMS_ThinkTank

SMS_ThinkTank™ LLC is the global resource and leader in system modeling and simulation, bringing the worlds of systems engineering and computer aided engineering together. The SMS_ThinkTank™ is a vendor neutral firm which provides strategic systems engineering and CAE management consulting to help enterprises embrace Model-Based Systems Engineering (MBSE) to achieve sustainable innovation bringing higher quality products to market faster. SMS_ThinkTank™ helps enterprises in developing the methodologies to support these new technologies including emerging systems engineering and CAE standards. To learn more about SMS_ThinkTank™'s services, visit our website at www.smsthinktank.com or contact SMS_ThinkTank™ at +1-877-254-5171