accenture

Creating Value in new Dimensions – Sustainability

AUDIO TRANSCRIPT

00:08 - 00:22
Olivier Ribet
It's clear that today there is a sustainability imperative that is incentivizing all the companies across the world, the traditional established players, but also the small startups, to re-imagine the way they design, they manufacture, they simulate planes.

00:23 - 00:41
John Schmidt
Sustainability is being driven by what companies are doing within their own four walls, if you will, as well as in the products that are designed and delivered with this technology. Thinking about new energy pathways, new propulsions in technologies, airframe configurations , structural materials onboard systems to really go for that net zero 2050 goal.

00:42 - 01:17
Torsten Welte
If you want to build a sustainable industry by 2050, you need all aspects of the lifecycle. Yes, there is the majority of the CO2 footprint established doing operations, but it starts with the design. So there's a need of a new design, there is a need of changing of designs that come in to have way better products, much more sustainable, much more recyclable parts, and an end of life to really close the loop and bring some of the components back in because we don't have all the raw materials anymore.

01:18 - 02:13
Olivier Ribet
So, when you really want to operate a product in operation for a long time and you really think about the sustainability of the product and services you deliver, you need to embrace a totally different way of thinking about product development, product maintenance, product operation. But you also want to make sure that an entire ecosystem comes together to bring the right level of value at the right time. Some people will look at that as a pain, as a constraint. It's actually a huge opportunity. Why so? Because suddenly you unlock a new set of value for the customers who suddenly realize that you are not just sitting on product as a service like we have been talking about for many, many years now and there is a fundamental realization that the product is not finished when it's shipped. Actually, the real life of a product starts when it's being used, when it's being maintained, when its being repaired, when its being upgraded, transformed, recycled.

02:14 - 02:43

Craig Gottlieb

There's a lot within an aircraft that can be made out of more sustainable products and not just things like recycled metals, things like seats, things like the materials within an overhead bin are increasingly being looked at for not just natural products like fibers, but also how can we recycle fiberglass and other plastic materials to reuse not just for sustainability, but also for things like weight and strength that are critically important to our aerospace and defense clients.

02:45 - 03:31

Barry Chapman

Sustainability is such an important target. What we're doing is providing capabilities to look at sustainability not only from a product side, but also from a production side. So what we'd like to do is help our clients manage the sustainability of how you can sustain and how you can develop products in a more sustainable way. But from a manufacturing side and a logistics side and almost creating a sustainability bomb of the material that can help you manage that sustainability. But then on the product side, we're doing the same thing where you can have a sustainability bond for the product. So putting metrics together and being able to take a look at the sustainability for product, production and actually the performance of the aircraft and within team center and within accelerator you can manage that whole process.

03:33 - 03:48

David Zeigler

It's imperative to start from the ground up, from the requirements to the design to the simulation, to the manufacturing, to work on that digitalization and to make sure you leverage the virtual twin of your product. But as well, the virtual twin of your factory.

03:49 - 04:11

Russell Bertwell

we think about our ability to have a digital twin of the entire factory. By having that, we actually can measure and assess and plan for and simulate for an optimal building with optimal energy output and the right places to make trade offs that help us reduce the carbon footprint, get us to A&D's priority of net zero by 2050.

04:12 - 04:39

Jean Luc Brincourt

The sustainable growth will be a very complex stuff and alone nobody can do that.
It's something we need to defend our planet, which is our common asset, and we need to collectively act in coordination. And so for that, the digital is a way to coordinate all through the fall between the regulator, between the different industry to make the glue and to make sure that we are all going in the same way.

04:40 - 05:04

Julio Juan Prieto

This will require a combination of industry and government initiatives and ecosystem plays to simultaneously decarbonize this the supply chain, the energy supply needs, and deploy new technologies needed to fully realize the benefits of the carbon decarbonization.

05:05 - 05:25

David Zeigler

One way to attack that will be the more electrical aircraft. And we are seeing a full new segment activation around electrical vertical takeoff and landing aircraft that are coming, but also hybrid technology for regional aircraft. So, my advice would be don't be afraid, embrace the change and look forward to a decarbonated future in aviation.