ESCCON





INCREASED DIGITALIZATION OF THE SUPPLY CHAIN, INCLUDING TESTING, IS BECOMING A NEW TREND

David Núñez, EEE Parts Division Director





"It is clear to see that digitising your supply chain and your company is not only the logical next step, but the necessary one. With financial and time-saving benefits being just two of the significant benefits from it, the sooner you begin the process the better."

https://www.supplychaindigital.com/supply-chain-2/how-supply-chain-logistics-can-improve-vehicle-tracking



More connectivity



Lower transaction costs



- Rising interconnectivity speeds disruption, upending the principles for disruptive innovation
- Free-moving information bypasses—and challenges existing hierarchies

- Barriers to entry and costs to achieve scale are evaporating
- Internal bureaucracy presents more friction than external interactions and free-market transactions

Unprecedented automation



- Increased automation undercuts the mechanistic thinking upon which organizations were created
- 200 years of management thinking on control and predictability become obsolete

Fundamental societal shifts



- Gen Z and beyond will have new, fundamentally different career aspirations
- Expect more variety and learning, more leadership and promotion opportunities, more social impact, and more career mobility

4

big trends are shaping the way to do business in the near future

a combination of heightened connectivity, lower transaction costs, unprecedented automation, and shifting demographics

https://www.mckinsey.com/business-functions/organization/our-insights/organizing-for-the-future-nine-keys-to-becoming-a-future-ready-company



01

Supply chain digitalization

E-commerce shift

04



23%

of supply chain leaders expect to have a digital ecosystem by 2025, up from only 1% today.



02

03



Globalization and offshoring

46% and 61%

of supply chain leaders anticipate declines in globalization and offshore manufacturing, respectively, over the next five years.

Remote and distributed teams **69**%

of supply chain organizations expect a decrease in consumer willingness to visit stores over the next five years.

05



of supply chain leaders believe working from home will increase over the next five years.

New business models

79%

of supply chain leaders think that an internet-/platform-based approach is the most critical new business model to support postpandemic recovery.

Source: Future of Supply Chain. Gartner. 2021



Most B2B seller interactions have moved to remote or digital ...

Current way of interacting with suppliers' sales reps during different stages^{1,3}

% of respondents



... and that's exactly what customers want.



of B2B decision makers prefer remote human interactions or digital self-service^{2,3}

Why?

- Ease of scheduling
- · Savings on travel expenses
- · Safety

https://www.mckinsey.com/business-functions/marketing-and-sales/our-insights/these-eight-charts-show-how-covid-19-has-changed-b2b-sales-forever

^{10: &}quot;How would you currently interact with sales reps from your company's suppliers during the following stages of interactions?"

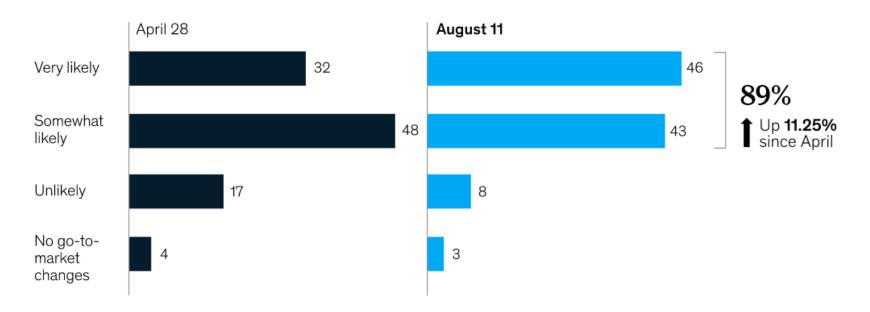
²Q: "How would you prefer to interact with sales reps from your company's suppliers during the following stages of interactions?"

³Figures may not sum to 100% because of rounding.



Companies expect the changes to stick.

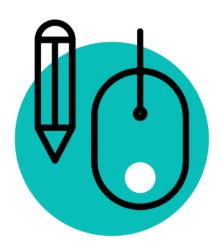
Likelihood of sustaining new go-to-market models for 12+ months^{1,2} % of respondents



¹Q: "Which of the following statements best describe the changes your company has made to its commercial and go-to-market model during COVID-19?"

Source: McKinsey COVID-19 B2B Decision-Maker Pulse #2 4/20-4/28/2020 (n = 3,755), McKinsey COVID-19 B2B Decision-Maker Pulse #3 7/27-8/11/2020 (n = 3,626)

²Figures may not sum to 100% because of rounding.





the 3 key elements

are a prefect fit for digitalization



More important topics when selecting a supplier. ATN survey on Supplier Selection. To be published soon in DoEEEt.com

DCEFE and the product quality







Access to key information otherwise disseminated

Hi-rel database with more than 22m references

COTS and automotive parts also available

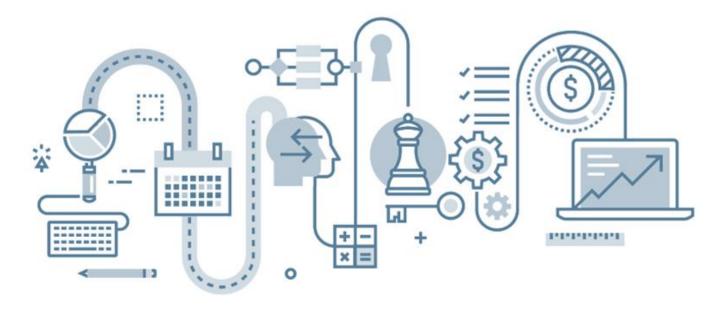
Comparison of product performance and quality

Access to test flows

Availability of all related documentation

DCEFET and the final price





Direct access to the key information

Reduced number of manual operations

Less intermediate steps

Integrated process

ALTER TECHNOLOGY

DCEFET and the (lead) time to market



All the information available Price info available in a in one place

click

Stock availability

24/7 Digital Self Services thanks to **MyDoEEEt**

Expedited decission process thanks to access to information



IDCEFET can be addapted to your specific needs

Application
Programming
Interface





Electronic Data Interchange

PunchOut catalog





Get immediate access to the only EEE Hi-Rel components tool for space applications Your place for EEE parts in space Browse parts by category



SUPPLIER ENABLED INNOVATION

can create a strong basis for innovation and collaboration Digitization allows a basis for sharing goals and values instantaneously and continuously. Communication is the first step behind collaboration. Collaboration is the first step behind innovation.

Creating a basis for strong buyer-supplier collaboration will eliminate the silo communication and productivity of suppliers, not interested in creating mutual value within the relationship.

https://kodiakrating.medium.com/digitization-of-the-supply-chain-the-future-is-now-767fc2db800e



VIRTUAL LAB CONCEPT

RUN EXPERIMENTS IN THE LAB FROM ANYWHERE IN THE WORLD





DESIGN

Design your tests over Virtual Lab conducts the web



CONDUCT

your tests



3 EXPLORE

Virtual Lab organizes your data into a smart data base



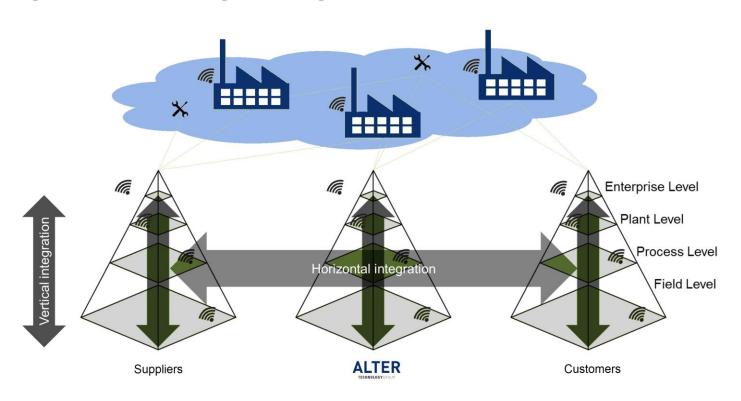
ANALYZE

DOEEET crunches and analyzes data



HORIZONTAL INTEGRATION

₹Virtual Lab



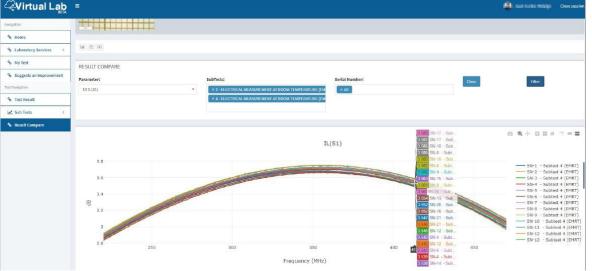


You can get access to our Virtual Lab through the following link:

https://virtuallab.altertechnology.com/







ALTER

TECHNOLOGY

Full access in real time to the output of the on going test

Direct link to the analysts performing the tests

Direct interaction with technicians

Permanent access to historical results

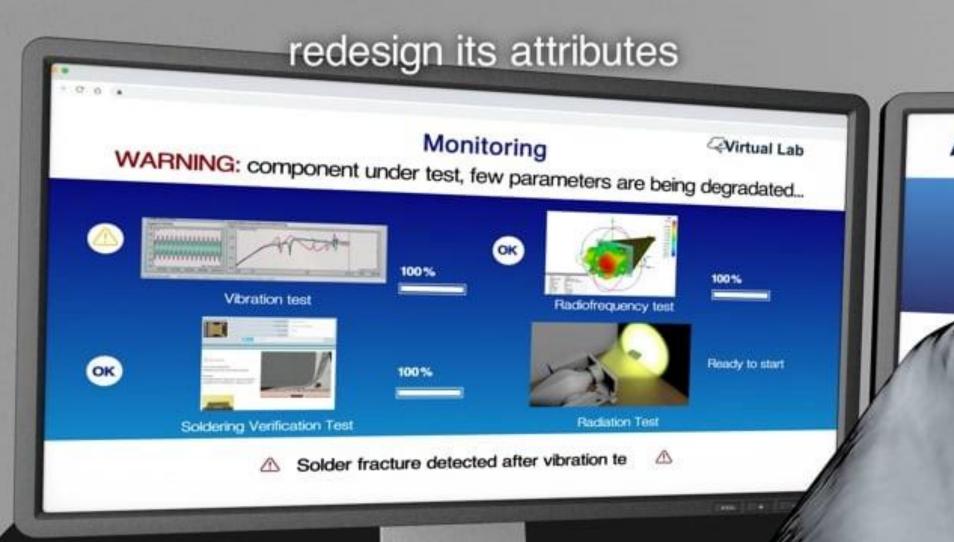
Predictive analysis

Documentation management

Push Notifications

https://vimeo.com/325170878





Sergio Rufini, Payload Assurance

DLR

VirtualLab is an advanced platform implemented as any modern project related tool should be. An intuitive and fast interface where all the test related material is easy to retrieve and well organized. Questions and discussions about results can be carried on within the tool by avoiding redundancy in communication or fragmentation of information. It is surely a useful instrument to use, an asset to the project that saves time.

Beatriz Sánchez, EEE Parts and RHA Engineer

OHB

It is great and practical to see the progress of the test, having all the images and information as they come out, and allowing comments and discussions with the lab technician

Peter Budac, Product Assurance Manager



The Virtual Lab is very useful tool where you can see actual progression of microsection of components one by one which save time in case of failed components Moreover, you can directly write comments to each microsection and get answers from inspector who performed metallographic analysis



Antoine Chassillan, EEE Parts Assemby Eng.

SODERN

VL offers is a user-friendly interface from which we can check in real time the upcoming DPA results for a higher reactivity

Carla Félix, PA & Quality Manager



It was surprising and super interesting to access the virtual lab, it is an extremely good alternative to be "present" during a testing campaign and saves travel costs.

Virtual Lab is a very convenient tool, very interesting, and the engineering staff was very friendly and attentive, always responding promptly to the questions asked

Elisa Torres, Technology and Processess Manager

TAS Spain

Our feedback with the Virtual Lab is very positive. It is possible to see results of microsections in real time. Welcome to digitization!"

Isabelle Ekström, Materials and Processes Engineer

ALTER

RUAG Space AB

It was great! Fantastic to be able to see the results in advance before the report is finished

María Isabel Herrero, Technology Session Manager

AIRBUS CRISA

tHey have a tool that allow us to consult on real time the evolution of the job on going, being a powerful tool that easy the developing of the activity according to customer requests, to avoid misunderstanding and allowing both parties to be satisfied with the result.

We rely on them totally and we hope to continue working with them from now on.

Bruno Campillo, EEE Parts Engineer

OHB

Virtual Lab is a giant leap ahead in the tracking of the advance of any testing activity. ALTER has made obsolete the old approach of a "black box": the test house received a test plan from the customer and, months later, they provided a test report to the customer, none knowledge in the meantime. Now, each step of the testing flow can be tracked, interim measurements can be consulted, any problem immediately spotted, with all the needed assessment information, and much more. Software interface is intuitive and superbly designed: it is a perfect container for pouring down the contrasted and profound technical skills and knowledge of ALTER

Frank Engelhardt, Head of Design Assurance

OHB

I really like the possibility of looking at pictures in time, before the report is released, thus offering the possibility of requesting additional views



David NÚÑEZ TERUEL

EEE Parts Division Director ALTER TECHNOLOGY TÜV NORD S.A.U.

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THANK YOU!

