

■Title

Immersion Quality & DX Forum

■Sub

Immersion to the company's largest exhibition

■Thumbnail



■Lead

Learn about quality and DX and apply it to your work. One of the company's largest exhibitions was held in November to "expand the possibilities of mobility with technology and passion." This article introduces Quality and DX exhibitions. While enjoying change, what challenges is JATCO taking on?



Quality Forum Mr. Kondo



Mr. Sone Digital Innovation Forum

■①Quality Forum

The first thing I would like to introduce is the Quality Forum (hereinafter referred to as QF), which focuses on quality. We spoke with Mr. Kondo from the Corporate Quality Assurance Department of the Management team.

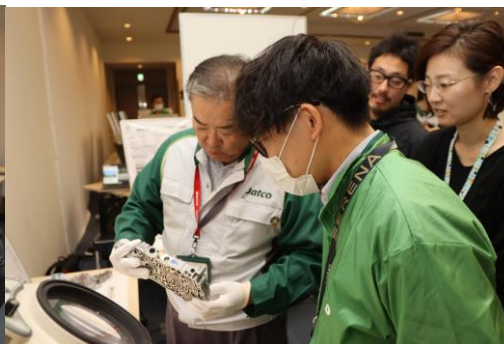
Q: Please tell us the concept of the exhibition content.

This year's QF theme is "Enhancing future quality through learning." It embodies our desire to learn from past bitter experiences and current quality initiatives to improve quality in the future. At this year's booth, we have prepared a hands-on corner and quizzes to attract the interest of those who are not directly involved in quality. In the hands-on corner, we exhibited a project to find soldering defects in conventional ATCUs (control units that operate units) and burrs in control valves.



Challenge of soldering defects

Procurement Department Mr. Lai



Challenge of finding burrs on control valves

Sato CEO

Q: What are the other highlights?

The first one is vegetables produced at Jatco Green Farm (JGF). We exhibited this to learn about customer oriented from fields other than CVT/AT.

JGF is characterized by being extremely customer-oriented, as it handles food products and is close to its customers. In addition, JGF's vegetables are produced using JATCO's quality processes. The quality is high, with the number of bacteria being 1/14 of the national standard, proving that the CVT/AT quality process is effective in other industries as well.

The second is preparation for electrification. JATCO is taking responsible for manufacturing the electric powertrain "X-in-1" that will be installed in Nissan's electric vehicles. For this reason, the entire company is working to acquire electric powertrain technology.

We exhibited mock-ups of 3-in-1 and 5-in-1 that were just completed last month, as well as inverters, which are the core components of electric powertrains, to help people learn about their functions and structures. The content was designed to attract interest and deepen knowledge.



Lettuce area Inverter display



3-in1 (for ePOWER)



5-in-1 (for EV)

Q: Please tell your enthusiasm for the future!

Quality is determined by customer expectations, so it is important to always strive for high goals. To achieve this, I would like to look back on what I have learned from the past and present, acquire the knowledge necessary to correspond with electrification, and continue to supply products that are trusted by our customers !



Mr. Kondo

■② Digital Innovation Forum

Next, we will introduce the Digital Innovation Forum (DIF), which introduces initiatives aimed at operational reform. We spoke with Mr. Sone from the Digital Solution department of the booth management office and the explainers.

Q: Please tell us about this year's theme and highlights.

Sone: This year's DIF theme is "deepening DX, penetrating it into the workplace, and creating a mechanism for change." The booth exhibition was divided into two parts: deepening operational are and deepening the plants. Management data driven and Chat GPT initiatives are recommended.



Mr. Sone

Q: Please tell us about your efforts to Management data-driven.

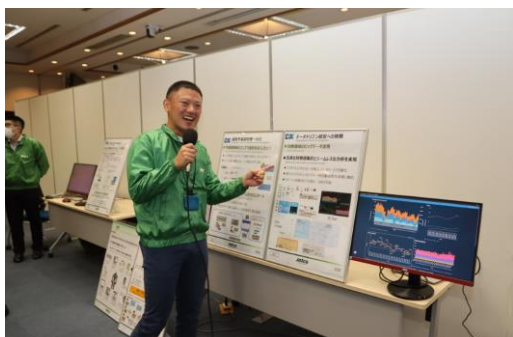
Kato: We are aiming to use data-driven in terms of cost and profit information, which was only available for specific products so far. Data-driven refers to making decisions and solving problems based on data, rather than judging events based on experience or sense.

Previously, cost and profit information was handled by humans, but now AI can analyze the huge amount of data accumulated in big data, making it possible to immediately generate data on a product-by-product and customer-by-customer basis. We are currently thinking how we can use this tool to contribute to management in the future!

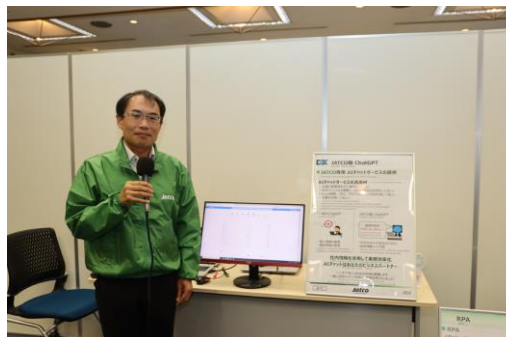
Q: Please tell us about your efforts regarding Chat GPT.

Tamura: One of the generative AIs that has become a hot topic these days is “Chat GPT.” Chat GPT, which is available to the public, can make many tasks more efficient, but it also brings problems, such as the risk of leaking confidential company information. Therefore, we are developing our own products to create a JATCO original environment. By using Chat GPT in an environment with low risk of information leakage, we will contribute to improving working environment efficiency, such as automatically generating meeting minutes. In addition, by taking advantage of the features of conversational AI, we aim to be able to answer any questions you may have about internal information, for example.

This tool will be ready by the end of this year, so please look forward to it!



Mr. Kato, Management Data Driven Explainer



Mr. Tamura, Chat GPT Explainer

Q: Please tell us about other highlights.

Ueno: This is an initiative to improve production line efficiency using invariant analysis*, which is patented by NEC Corporation. In production line processes such as heat treatment where human intervention is not possible, quality checks are performed by sampling after the product is completed. When a product fails during a sampling inspection, it is difficult to know when the product is “NG”, leading to high waste costs. However, by using invariant analysis, anomalies can be detected in real time, making it possible to significantly reduce losses.

*Even minute differences can be detected in real time that adversely affect quality, preventing the production of a large number of defective products.



Invariant Analysis explainer Mr. Ueda



Crowd with visitors

●Comment from Chairman Honda

I once again felt that the exhibits were exhibiting initiatives that gave a sense of JATCO's future in various fields. QF was able to analyze past issues like an engineer and was also able

to see preparation for electrification. Although DIF is a new field, I feel that it is beginning to be applied to a wide range of work, including development, production, quality, and maintenance. I hope that you will continue to aim for further deepening.



Chairman Honda tours the exhibition and gives his impressions.