

Plastic Energy halves training time with Glartek's Connected Worker Platform

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Background

Plastic Energy, a powerhouse in the Spanish chemical recycling market, transforms end-of-life plastics into Tacoil, a recycled oil that replaces fossil in the production of plastics. It operates two commercial plants in Spain and has over 12 years of experience.

This recycling leader is at the forefront of reducing fossil fuel dependence and cutting CO2 emissions footprint. Its goal is to play an important role in solving the global plastic problem by significantly contributing to a circular economy.

As a leading industrial company that is inserted in a complex field of activity, training speed, efficiency, and safety are key points that the company takes very seriously.



With over 200 professionals, the company has projects in Europe, Asia, and the US. With three more plants currently under construction in Europe, Plastic Energy aims to **recycle 5 million tonnes of plastic waste by 2030**.

Challenge

Plastic Energy wanted to reduce training times for junior workers and administrative efforts while ensuring the safety of all the frontline workers. To achieve those goals, the following challenges had to be addressed:

- Lengthy and time-consuming training
- Risk of operational errors due to non-contextualised training
- Lack of guidance on how to execute procedures
- Complex people management

The use of paper-based routines and work instructions resulted in lengthy and inefficient training processes for new workers. This often left them with incomplete skills, increasing the risk of operational errors. Additionally, the lack of clear, consistent guidance heightened the potential for safety hazards, particularly for inexperienced workers.

Solution

The challenges underscored the need for an efficient, skill-augmenting solution that would enhance training for new workers and overall safety across all operations. The solution focused on:

Digitalization of Procedures and Work Instructions

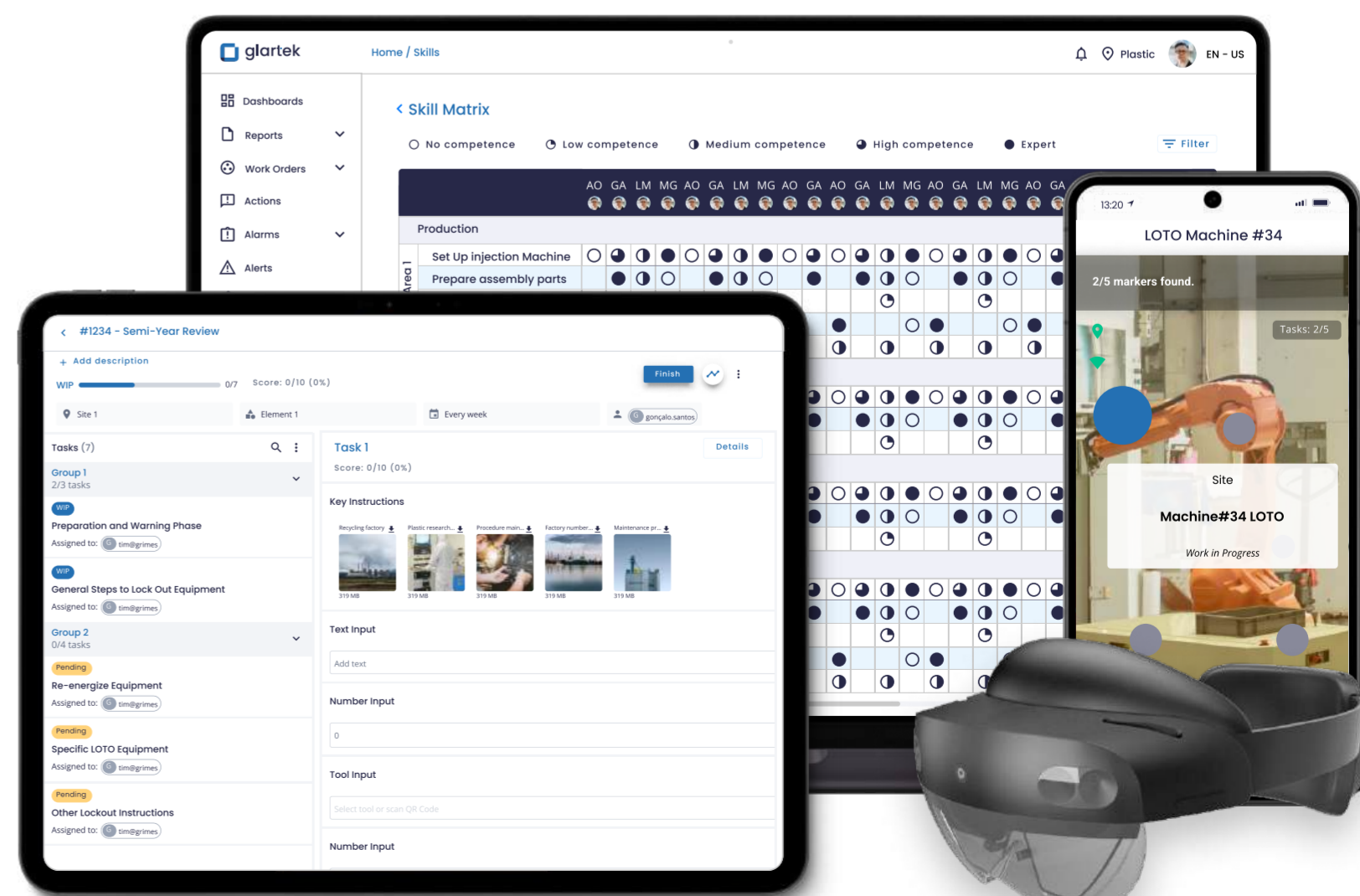
Digitalization of operational and maintenance procedures and work instructions to streamline training methodologies, and ensure the correct execution of all procedures. This digital approach provided workers with standardized instructions, helping minimize errors and ensuring that no crucial steps were skipped during their learning process, resulting in a quicker adaptation.

Augmented Reality Guidance

Integration of AR into the training process to enhance its effectiveness. Workers were guided through their tasks with real-time step-by-step AR instruction, allowing for a more contextualised training experience. AR not only accelerated the learning curve but also enabled workers to become more autonomous, requiring less hands-on supervision.

Skills Management

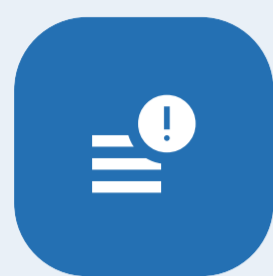
Due to data gathered through the platform and the skill matrix feature, managers are able to increase their team management skills. They can provide better guidance to their workers, from assigning specific training for possible skill gaps to suggesting actions to increase employees' own continuous improvement or even assigning the right jobs to the most qualified workers.



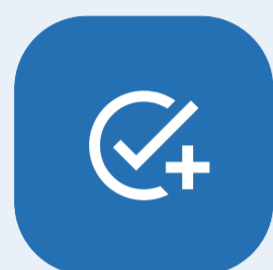
Results



3x
Faster-training sessions



0%
Frontline workers error rate



84%
First time successful execution rate



22%
Less paperwork to prepare training

Next Steps

As a global company, continuous improvement is key to ensuring a competitive advantage in the industry. Therefore, once the company saw a rapid increase in efficiency, **future next steps** were considered:

- **Extend** the Connected worker solution to other operations
- **Digitalize** other operational processes
- **Adapt** the solution to other facilities



Conclusion

Glartek and Plastic Energy have introduced a new reality for frontline workers, enabling faster training, fewer errors, and increased autonomy. Managers can easily monitor workers' skills and create AR-based training programs.



We've been able to decrease training times, requirements, and errors. Also, now we have real-time guidance supported by digital tools increasing workers' autonomy leading to greater productivity and efficiency."

- María Sánchez, Process Engineering at Plastic Energy

ABOUT US

Founded in 2017, Glartek specializes in Augmented Reality (AR) solutions tailored for the industrial sector. Our core mission revolves around enhancing efficiency and safety within industrial processes. We achieve this by integrating Augmented and Connected Worker technologies, providing visibility, optimization tools, and reassurance for frontline workers. Our focus is on improving industrial efficiency and safety for frontline workers while fostering a culture of Continuous Improvement to drive Operational Excellence. Our customer base is diverse, ranging from asset-intensive companies like EDP to manufacturing firms such as Renault.



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