

<b>Session</b>	<b>Glass in The Digital Age</b>
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Time (CET)	10:20 - 10:35
Chair	Seçil Erman



## Co-working with AI: Lessons Learned from Steel Industry

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### Biography

Dr. Yakup Bayram is CEO of PaneraTech. PaneraTech helps glass and steel manufacturers reliably make more products with their critical assets, even with a less-experienced workforce. PaneraTech's digital transformation of assets enables managers to make data-driven decisions by providing threefold support of technology, data, and expertise. Prior to PaneraTech, Dr. Bayram has been the Principal Investigator and leading scientist on various radar-based sensors for asset health monitoring at The Ohio State University. Dr. Bayram and his team have been working with manufacturers for over two decades, developing innovative solutions for effective critical asset management. Dr. Bayram received his PhD in Electrical Engineering from The Ohio State University, specializing in advanced sensor solutions.

### Abstract

Efficiency is the top priority in heavy manufacturing industries, requiring stable processes. Experienced operators are crucial for maintaining stability, as they know how to handle unexpected situations. However, many experienced managers are retiring, leaving a less-experienced workforce that often does not stay long enough to gain sufficient experience.

Digital transformation and data-driven decision-making, using Artificial Intelligence (AI), offer a solution. However, about 75% of AI solutions that need to work alongside humans never reach production.

This presentation will discuss the challenges of AI adoption in manufacturing, steps to address the reasons behind adoption failures, and lessons learned from our experience with AI in the steel industry.

