

EU Brokerage Event

on Industrial KET* in Horizon Europe

*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &
Bilateral/B2B Meetings

Calls
2023- 2024

Project idea/ Field of expertise:

Creation of Digital Twin Development Platform and Standards / Digital Twins

Organisation Name:

Ford Otosan
Digital Twins Department

Addressed topic(s):

Developing digital twins—especially those with the ability to control actuators—is very time consuming and complex.

In addition, the available historical data are insufficient, as DoE is not possible, especially in large systems.

FORD OTOSAN

(Large OEM, Automotive)

Ford Otosan, being one of the top 3 exporting companies of Turkey since 2004, has achieved 9 consecutive years automotive industry championship and is Turkey's export champion for 5 years in a row.

Ford Otosan, operating in 4 main centers with its 3 Plants in Turkey, 1 Plant in Romania and Sancaktepe R&D Center Turkey İstanbul, employs almost 15,000 people.



Ongoing EU funded projects in AI & Physics-Based Digital Twin Development	Ford Otosan's Use Case
AITOC ITEA Project https://itea4.org/project/aitoc.html	To develop AI-Driven DT For machining process
FLEX-INDUSTRIES Horizon Project https://flexindustries.eu/project/	To develop AI-Driven DT For painting process
HI-CONNECTS Horizon Project (Will be kicked off 2023-Q1)	To develop AI-Driven DT For stamping process

Creation of a platform and standardization for AI-based Digital Twin development

- Ford Otosan's Digital Twin development team wants to develop a platform and standardization for AI-based Digital Twin development capable of industrial-scale self-process control.
- In particular, developing, testing and commissioning a self-control Digital Twin at major OEMs is extremely challenging and time consuming. At the same time, massive budgets are required and it becomes difficult to make a project investment decision as the benefits and risks are fuzzy at the beginning of the project is uncertain.
- Expected Outcomes

Industrial Standards
for Digital Twin
Development

Platform in which a
DT can be
developed virtually
for large systems

Cognitive Map that
could be simulated
to generate
estimations about a
DT project under
uncertainty

Contact details

Contact person

Organisation	Ford Otosan (Large OEM, Automotive)		
Address	Turkey, Kocaeli		
Phone	Ugur Uresin, Digital Twin Supervisor	+90 541 907 2390	
	Berc Uluk, R&D Supervisor	+90 542 844 1678	
	Berke Gezer, R&D Coord. Expert	+90 536 958 5972	
E-mail	uuresin@ford.com.tr		
	buluk@ford.com.tr		
	bgezer@ford.com.tr		

B2Match profile

LinkedIn/Twitter	linkedin.com/in/uresinugur
	linkedin.com/in/berculuk
	linkedin.com/in/berketurgaygezer
