

The background of the slide is a light gray gradient. It is decorated with numerous realistic water droplets of various sizes. Some droplets are large and prominent, while others are small and subtle. They are scattered across the slide, with a higher concentration in the top-left and bottom-right corners. Each droplet has a highlight and a shadow, giving it a three-dimensional appearance.

DIGITAL TWINS

MATTI KUIKKA 12.2.2019

WHAT IS DIGITAL TWIN?

A DIGITAL TWIN IS A DIGITAL REPLICA OF A LIVING OR NON-LIVING PHYSICAL ENTITY
(SOURCE: WIKIPEDIA)

DIGITAL TWIN CAN BE USED TO SIMULATE ACTUAL DEVICES BEFORE THEY ARE BUILD BUT ALSO SIMULATE ACTUAL WORKING PHYSICAL ENTITY

DIGITAL TWIN USES TECHNOLOGIES SUCH AS IOT AND AI

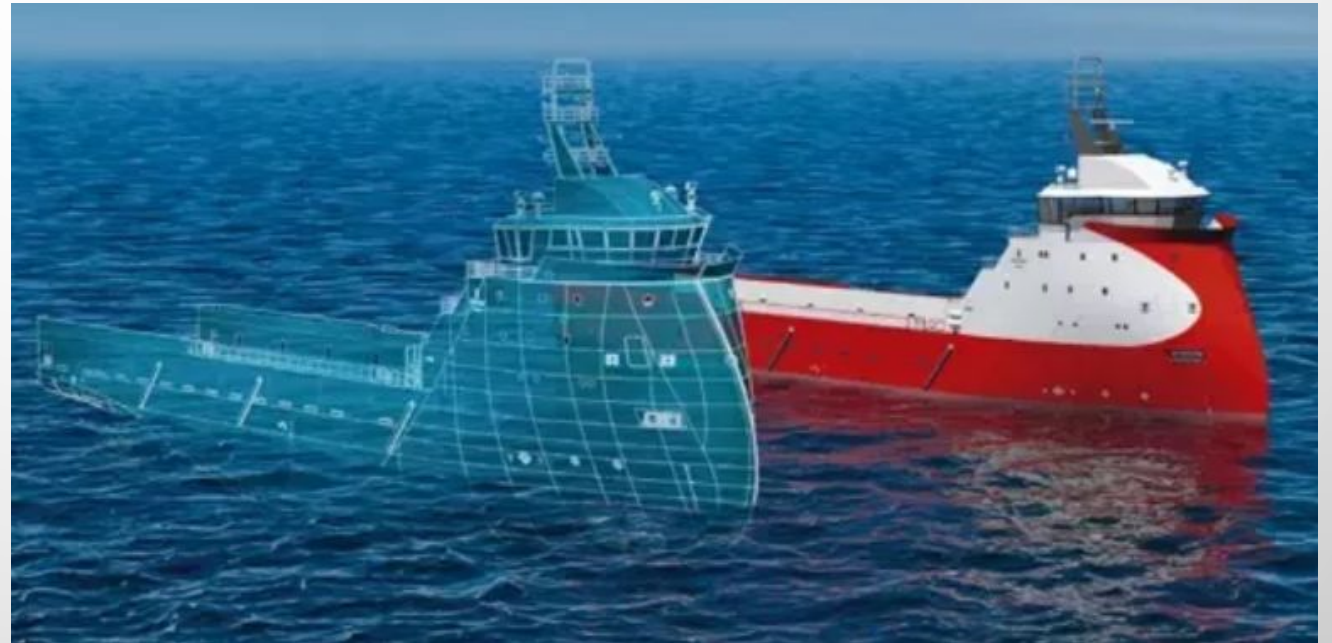


HOW DOES DIGITAL TWIN WORK?

SENSORS IN THE PHYSICAL ENTITY GATHER DATA AND TRANSFER THE DATA (E.G. POSITION, CONDITION, STATUS) TO CLOUD.

THE DATA IS PROCESSED IN CLOUD-BASED SYSTEM AND DIGITAL REPLICATE IS PRESENTED

EXAMPLE: VEHICLE AS DIGITAL TWIN



VIDEO

DOUBLE VISION: USING 'DIGITAL
TWINS' TO PAIR VIRTUAL AND
PHYSICAL WORLDS

