

# Simulation model and virtual shadow of an overhead crane

DigiTwin Demo Day 2



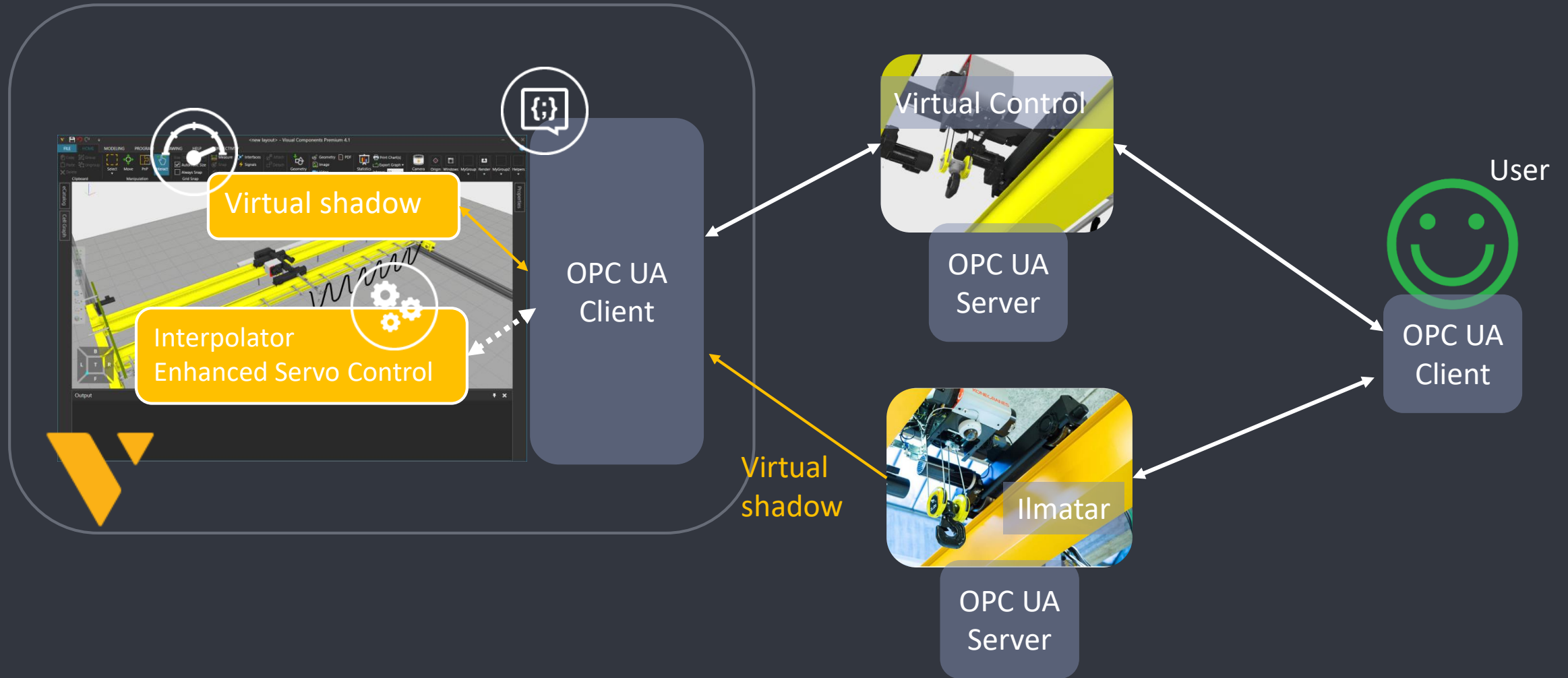
# TOPICS

- Ilmatar model overview and introduction
- Kinematics in simulation
- Cranes in production simulation
- Virtual shadow capabilities

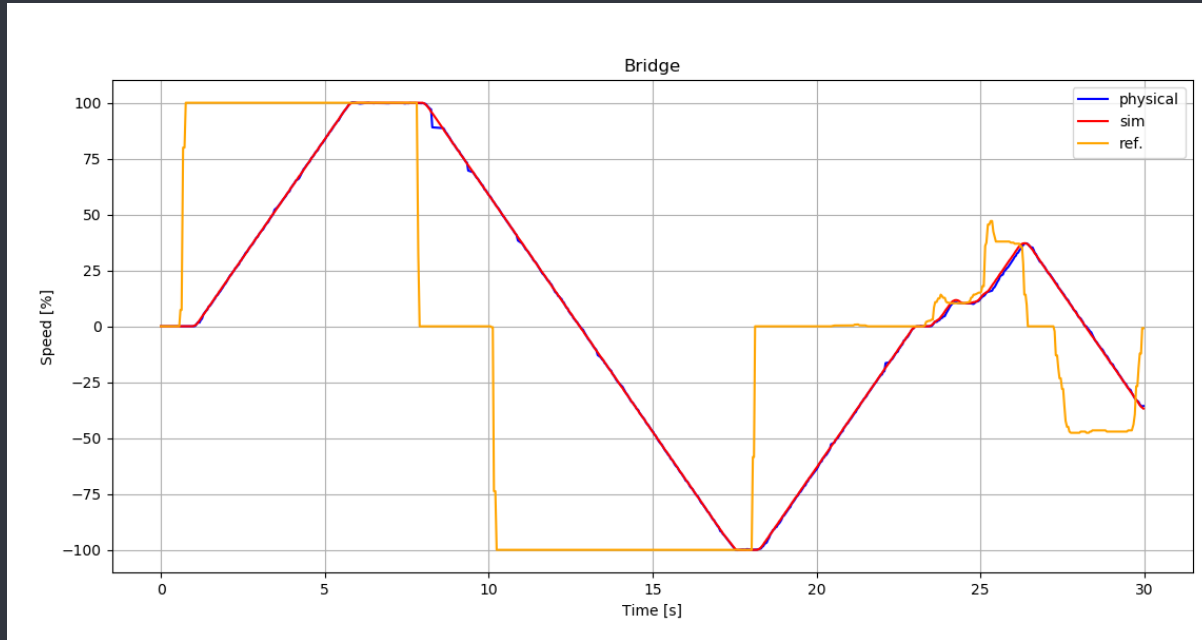
# MODES OF OPERATION

- Simulation by sending control signals via OPC UA interface
- Simulation by controlling the crane with Python script within VC
- Simulation with smart libraries (conceptual layouts)
- Visualization of physical counterpart (Virtual Shadow)

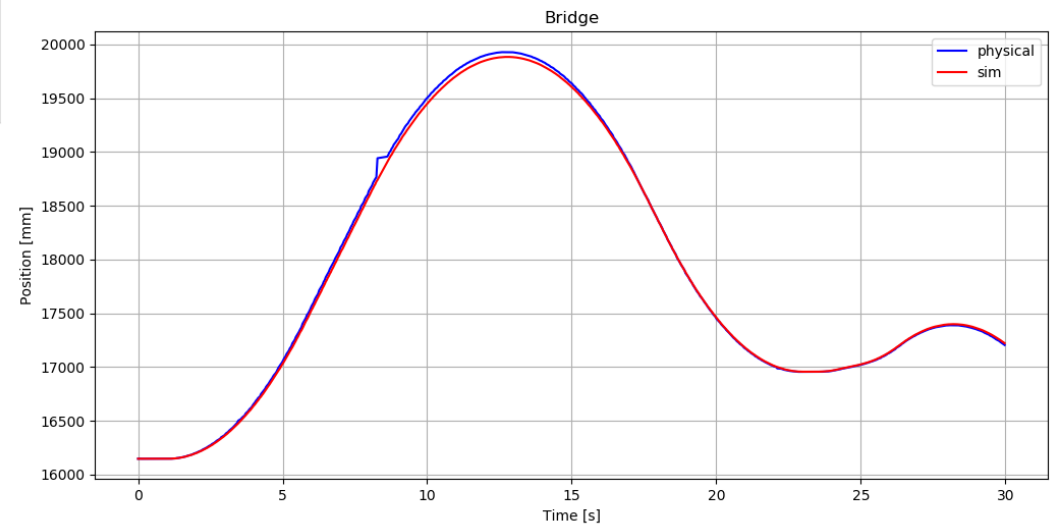
# ARCHITECTURE



# KINEMATICS



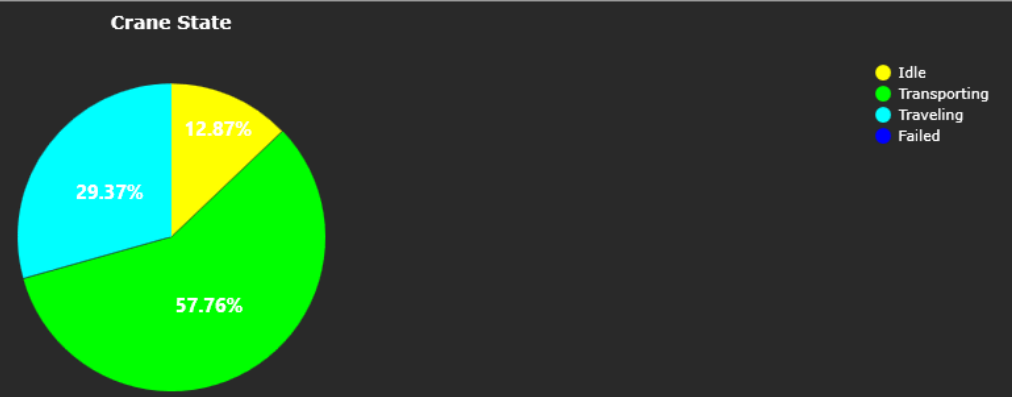
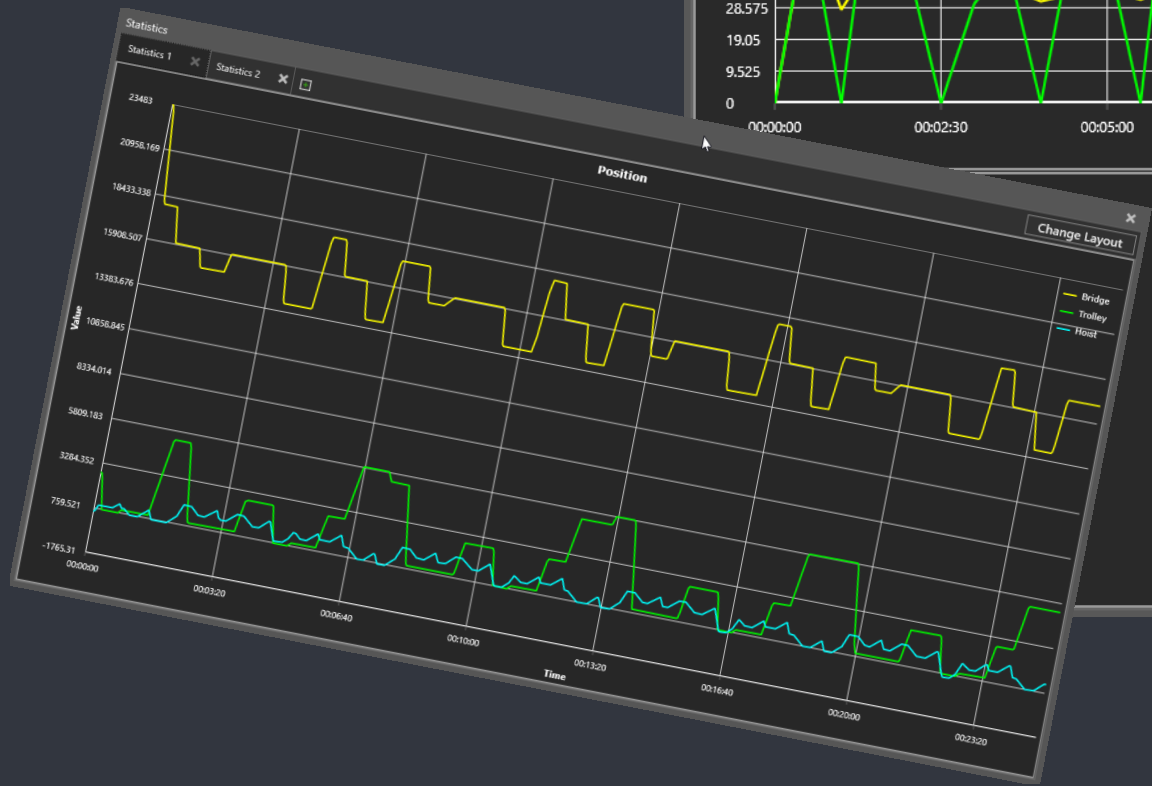
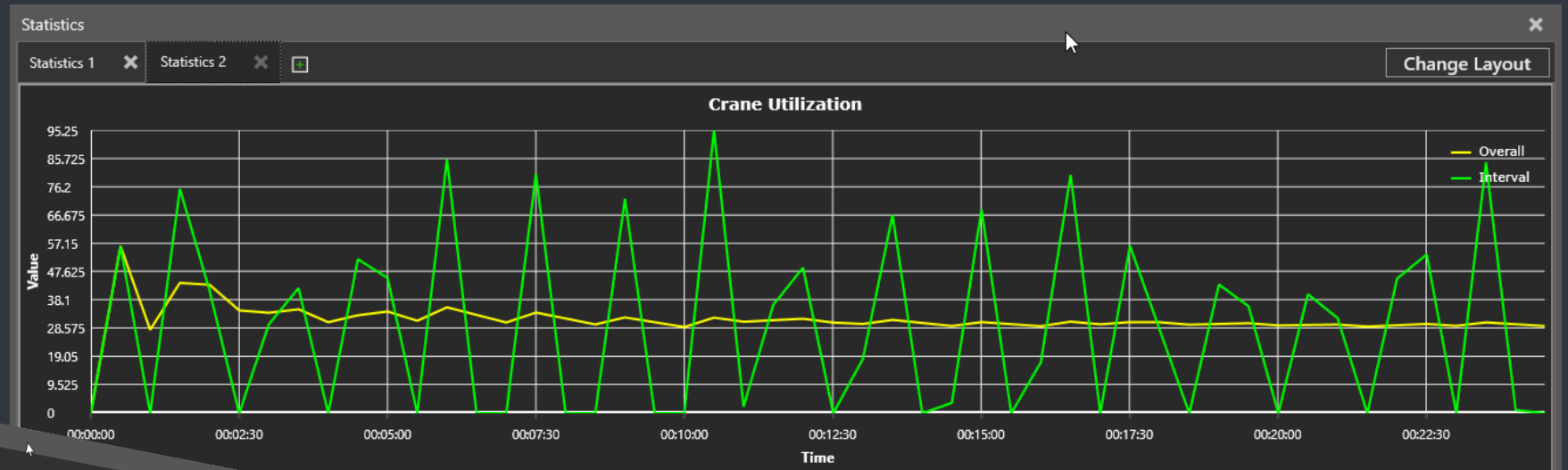
## Bridge



# PRODUCTION SIMULATION



# STATISTICS



DEMO TIME...

