

**FORUMECCATRONICA**



# Il virtual commissioning e il digital twin guidano la creazione del codice PLC

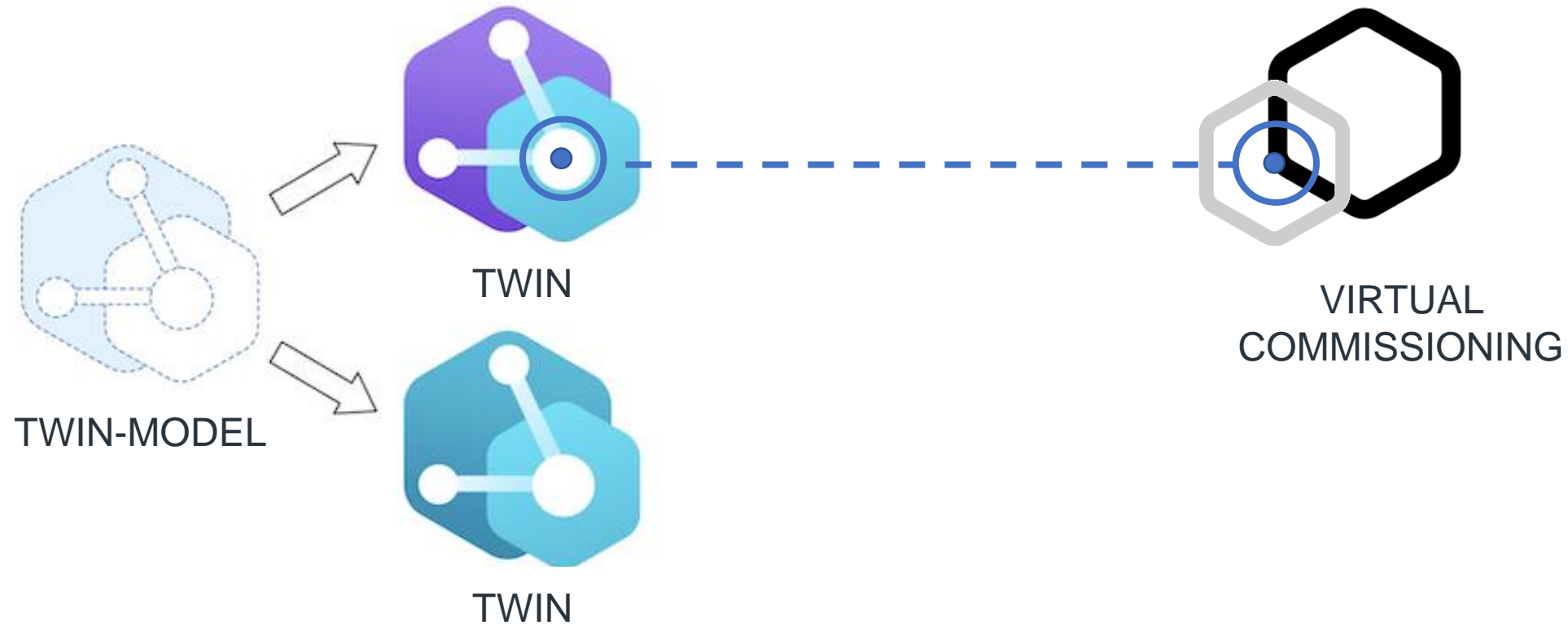
## Rockwell Automation

Simone Guglielmoni

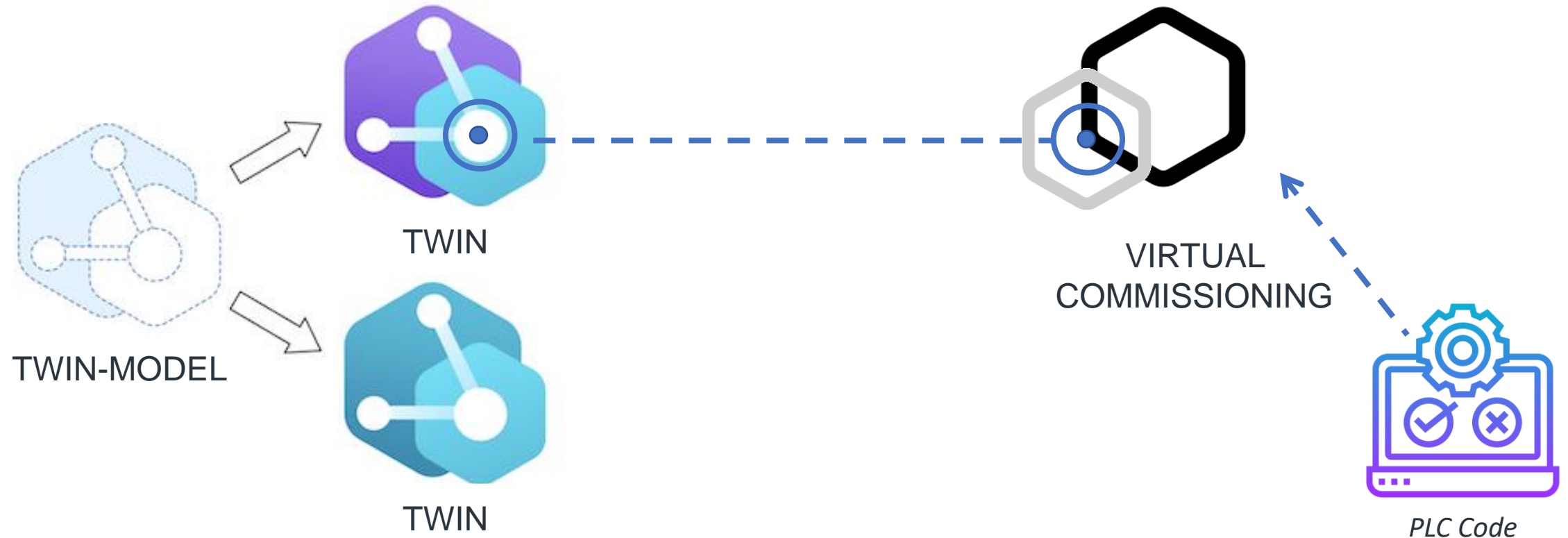
Technology Consultant - Mechatronics



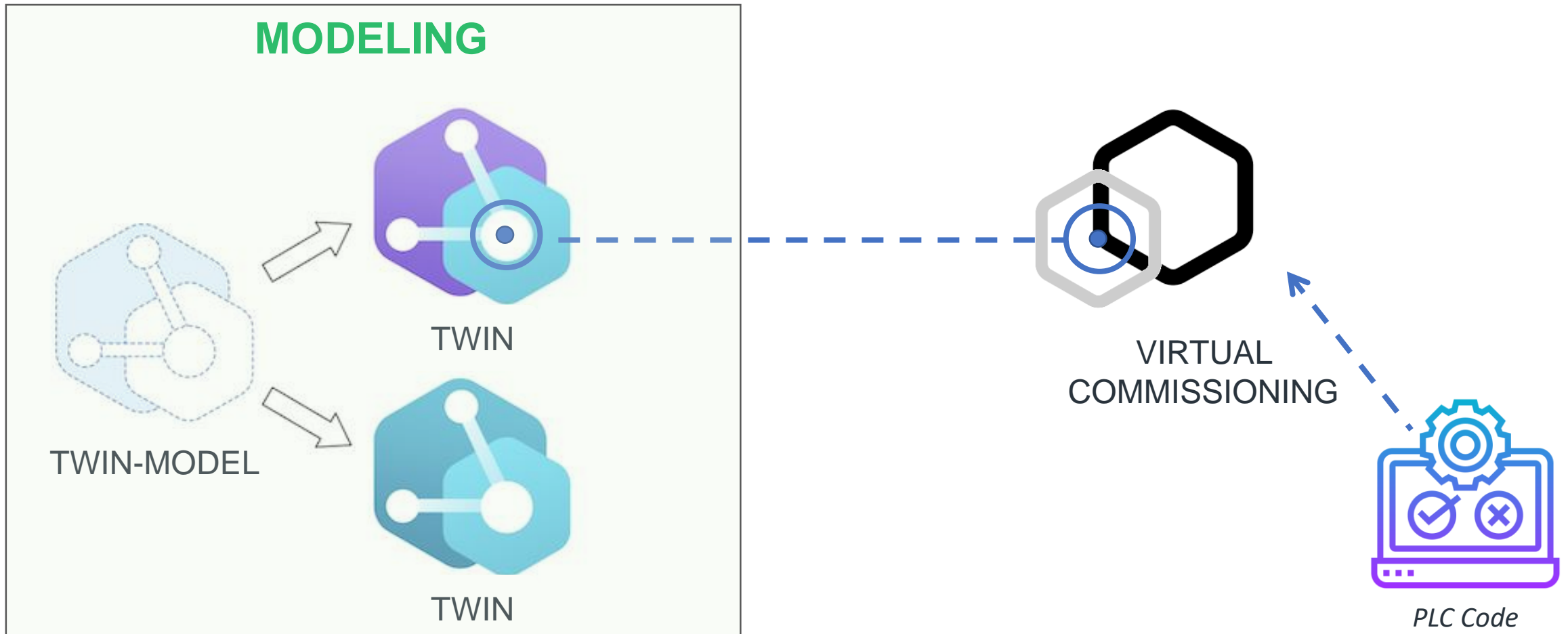
# Il Virtual commissioning per mezzo del digital twin



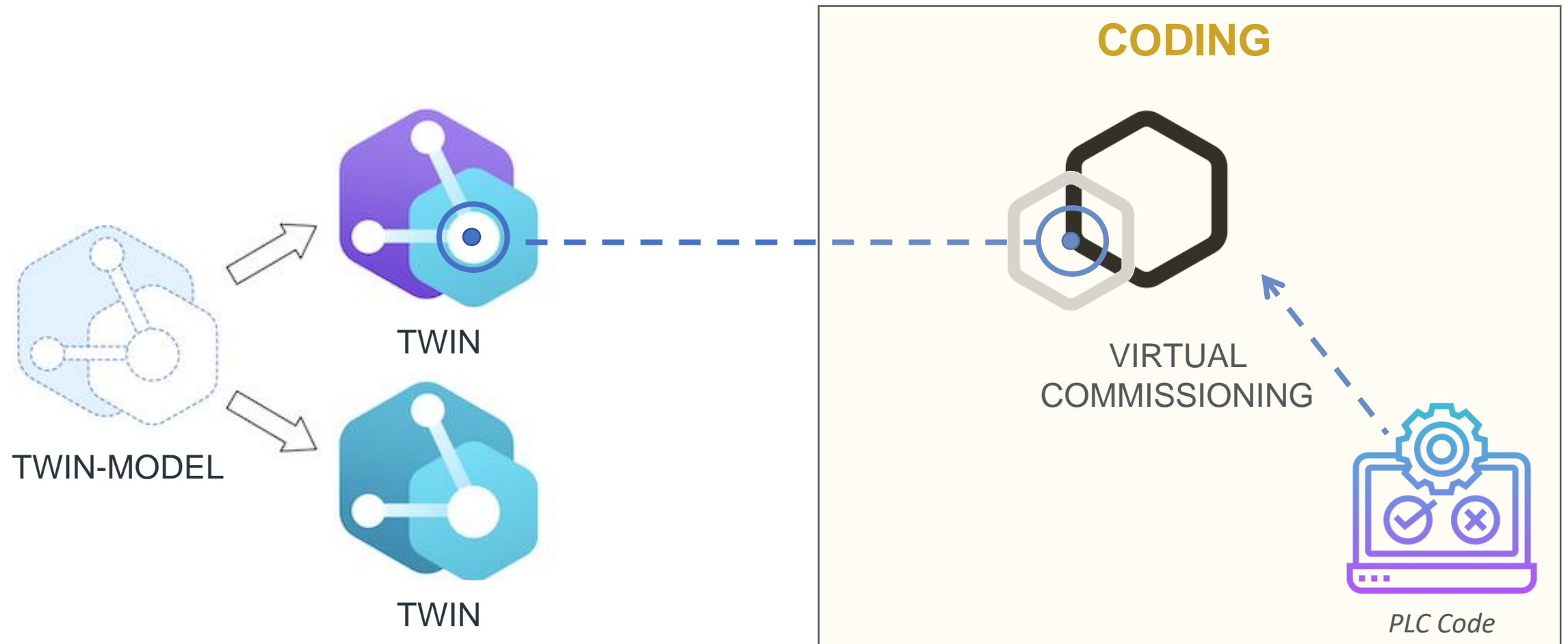
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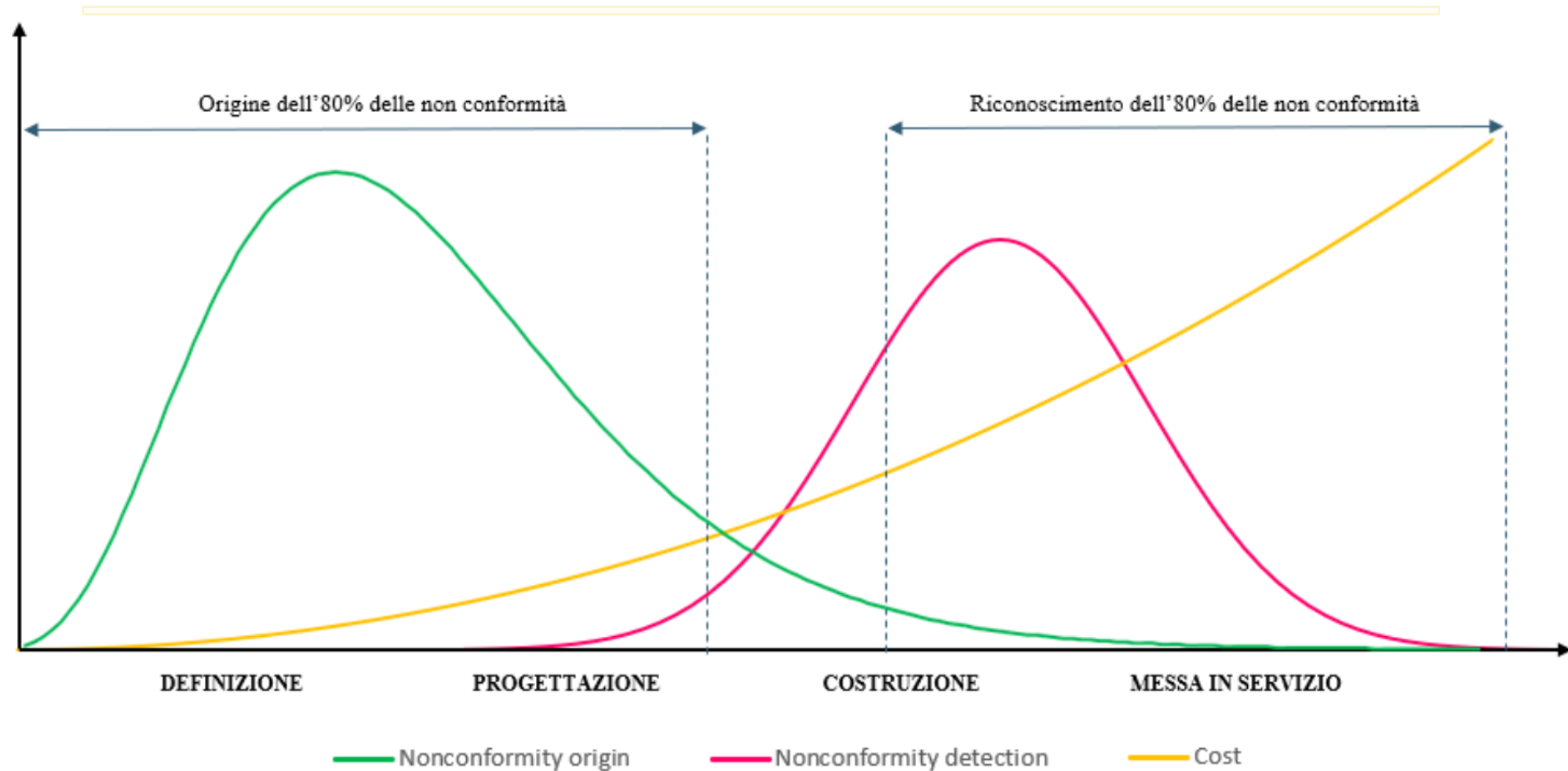
# Il Virtual commissioning per mezzo del digital twin



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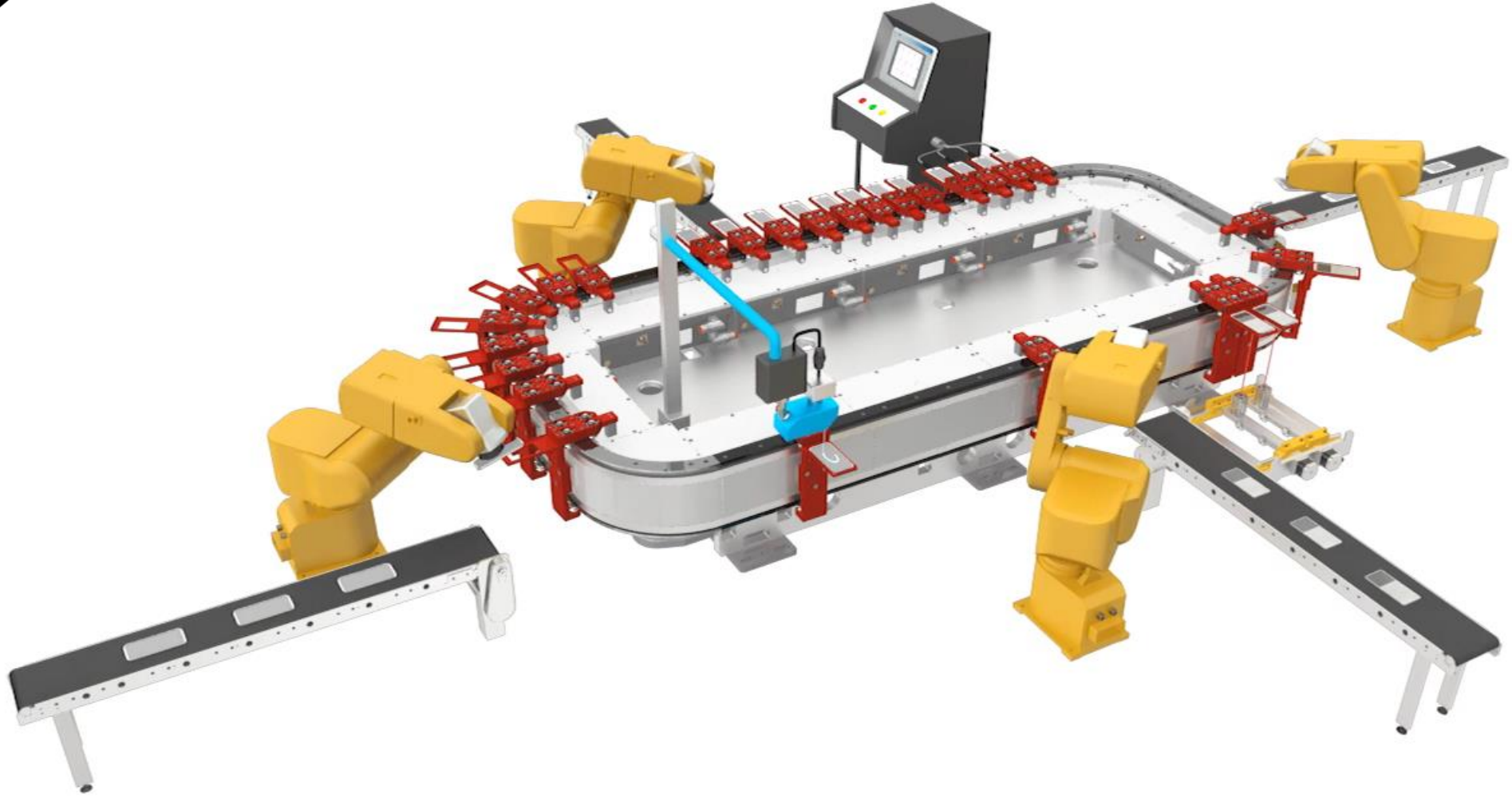


# Impatto del virtual commissioning



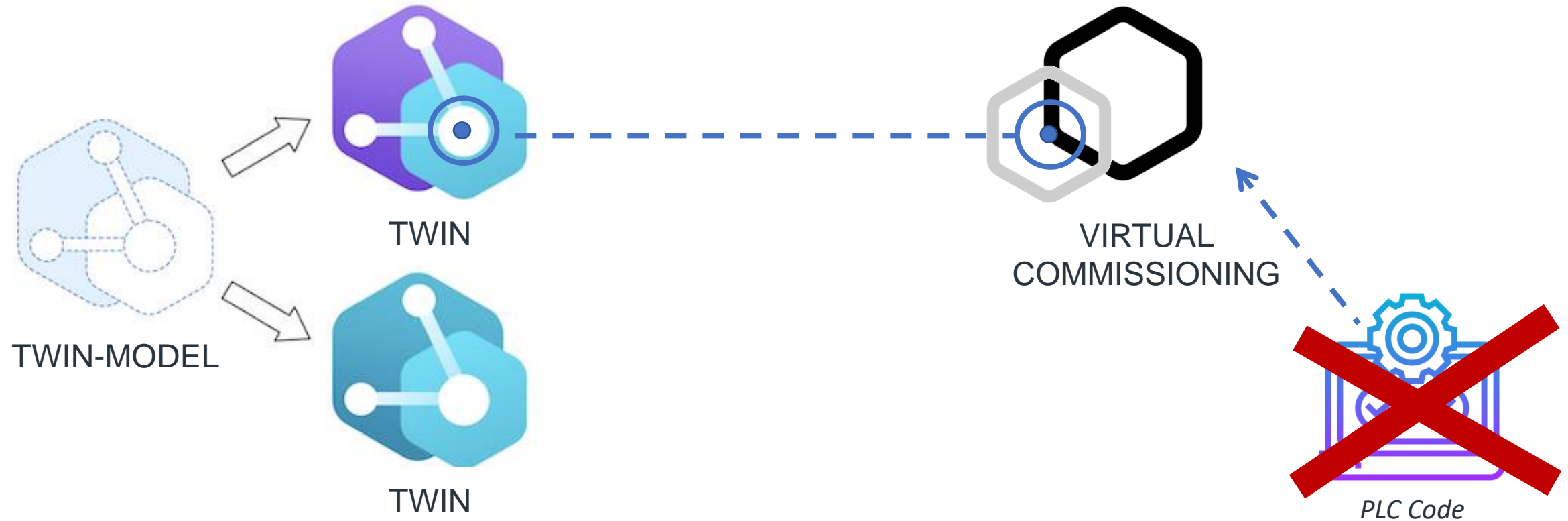
SOURCE: Product Life Cycle Risk Management, 2017

**EXAMPLE**

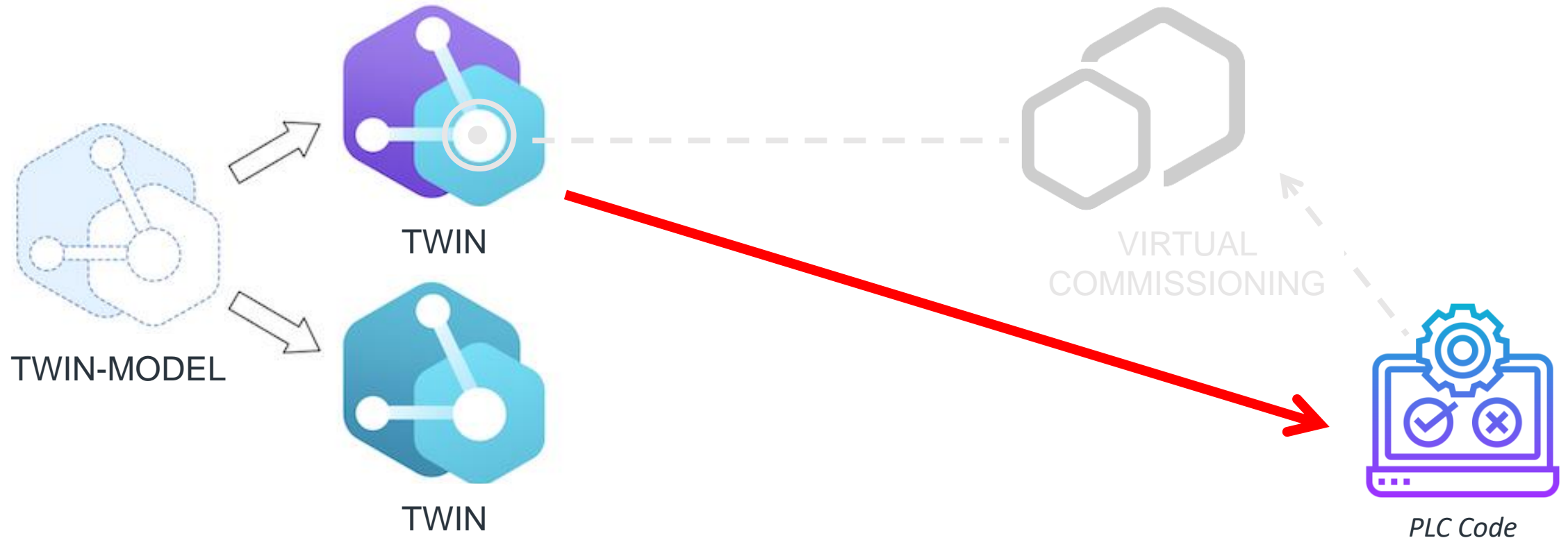




# Il Virtual commissioning per mezzo del digital twin

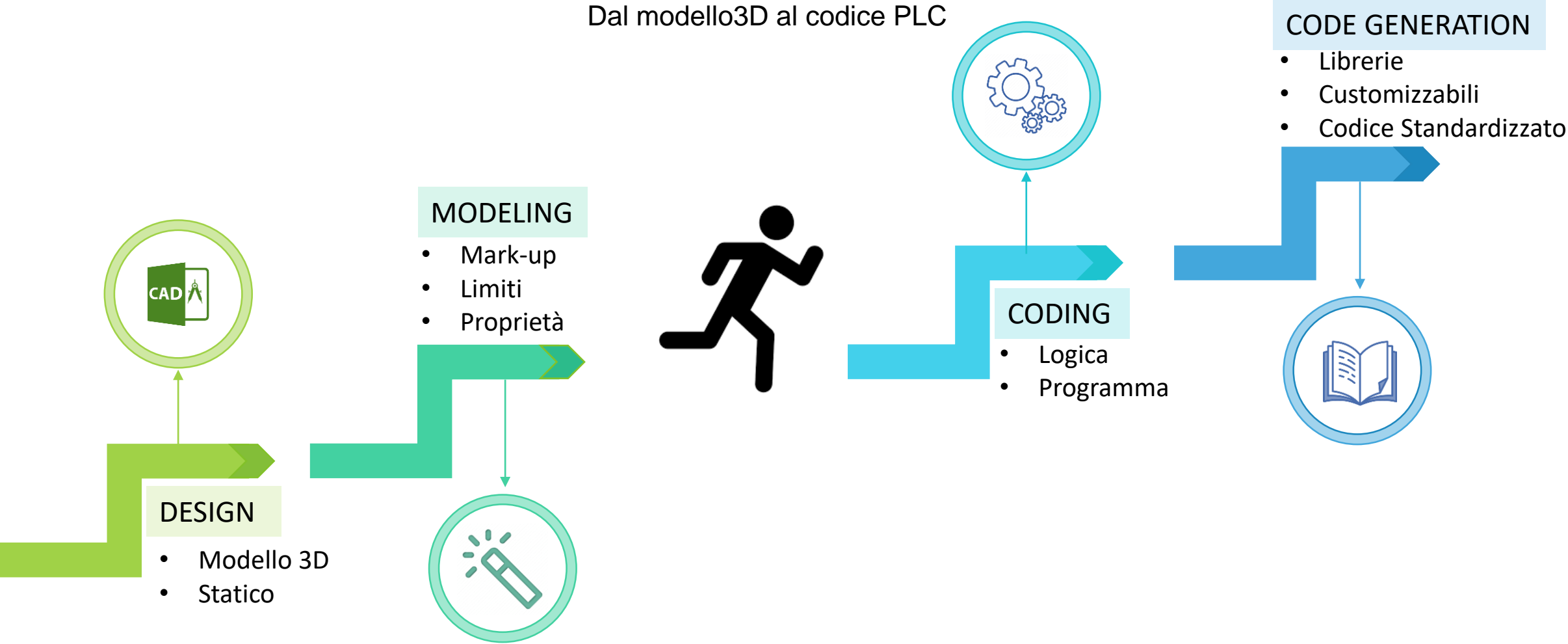


# E se fosse possibile generare il codice PLC dal modello?



# Flusso di lavoro

Dal modello3D al codice PLC



# Vantaggi

Del digital twin e della code generation

## Ridurre Tempo



## Ridurre Errori



## Standardizzazione



# Independent Cart Technology Libraries

An extension of the Machine Builder Libraries

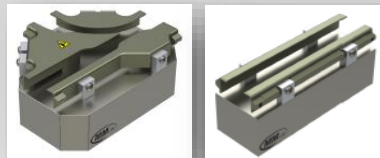
## KEY FEATURES:

- Life-cycle managed
- Application-centric
- Flexible, granular & modular
- Tested and documented
- Designed in a modular way to maximize granularity
- Utilize standardized interfaces to assure interoperability

## iTRAK



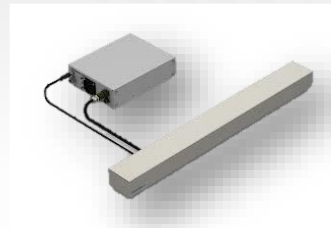
## MagneMover LITE



## QuickStick HT



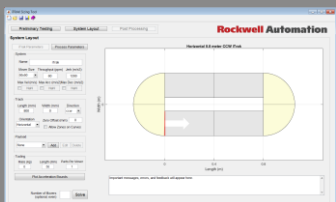
## QuickStick 100



## LIBRARY OBJECTS:

- iTRAK Device Handlers
- MagneMotion Device Handlers
- Standardized operations and sequences for energize, de-energize, recovery, etc
- Collision avoidance features
- HMI Visualization
- Zone and Station management

## ESTABLISHING A COMPLETE WORKFLOW FROM CONCEPT TO PRODUCT



Sizing tool



ACM Library management



Generate ACD including all libraries needed



Virtual engineering tools



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GRAZIE PER L'ATTENZIONE!