

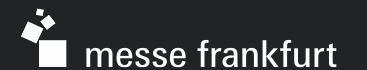
La nuova fase della progettazione: il virtual commissioning

Beckhoff Automation] **Enrico Bordignon**
Technical Support Engineer

Promosso da



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Introduzione

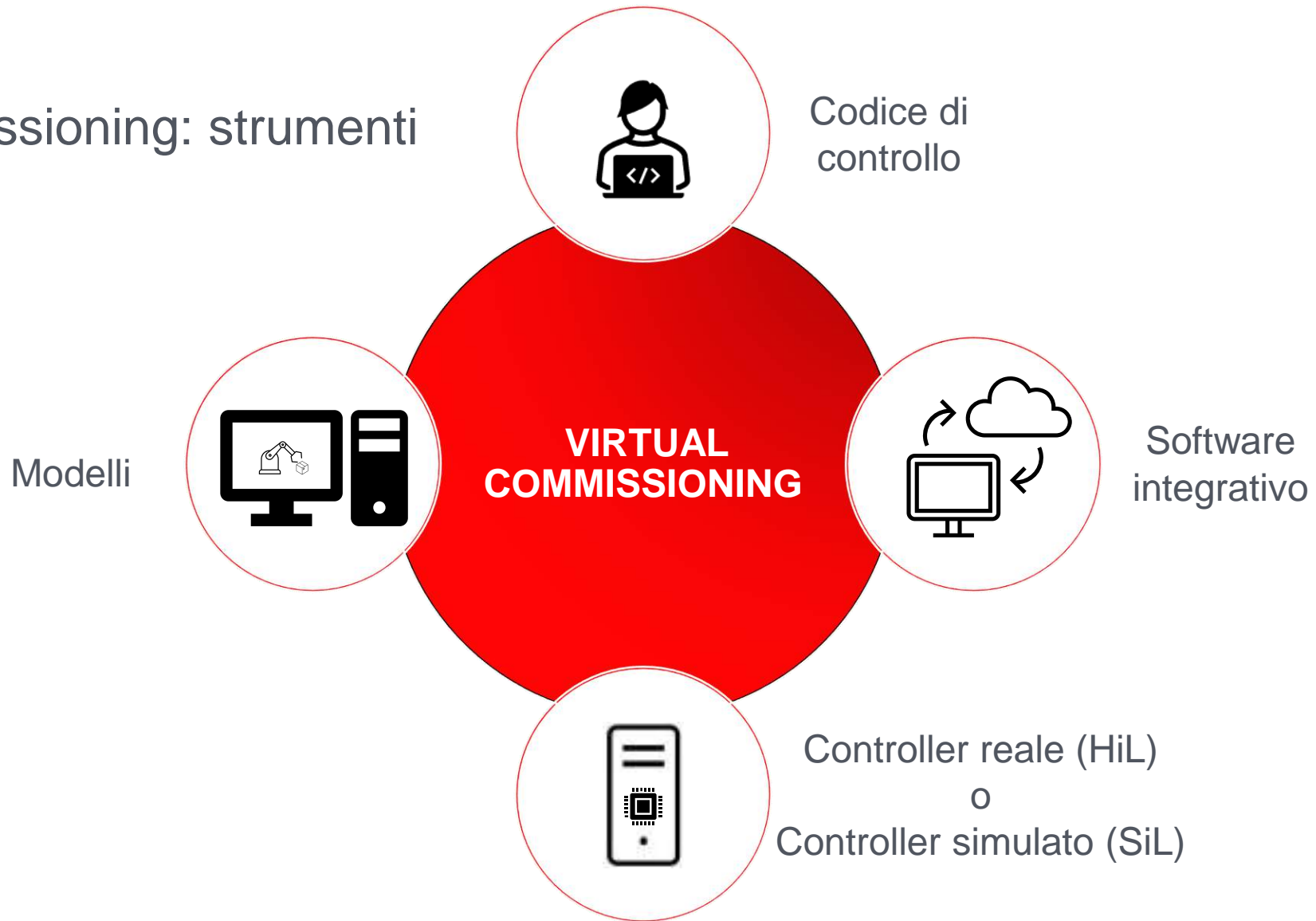
- Richiesta del mercato
- Necessità dei produttori
- Ricerca



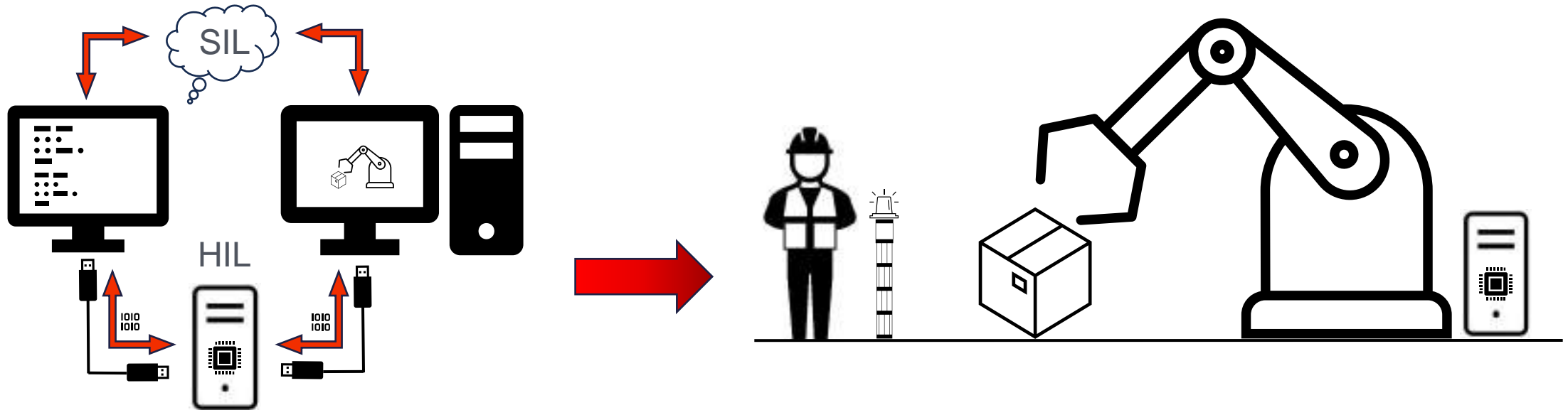
Fasi di sviluppo di prodotto



Virtual commissioning: strumenti



Dal Virtual Commissioning alla reale messa in servizio



1. Stabilire la connessione tra software controllore e modello virtuale (Software in loop / Hardware in loop)
2. Verificare il comportamento del sistema in ambiente virtuale
3. Installare software controllore sul PC a bordo macchina
4. Verificare il comportamento del sistema in ambiente reale

Vantaggi



Validazione codice



Ottimizzazione del processo



Simulazione guasti in ambiente sicuro

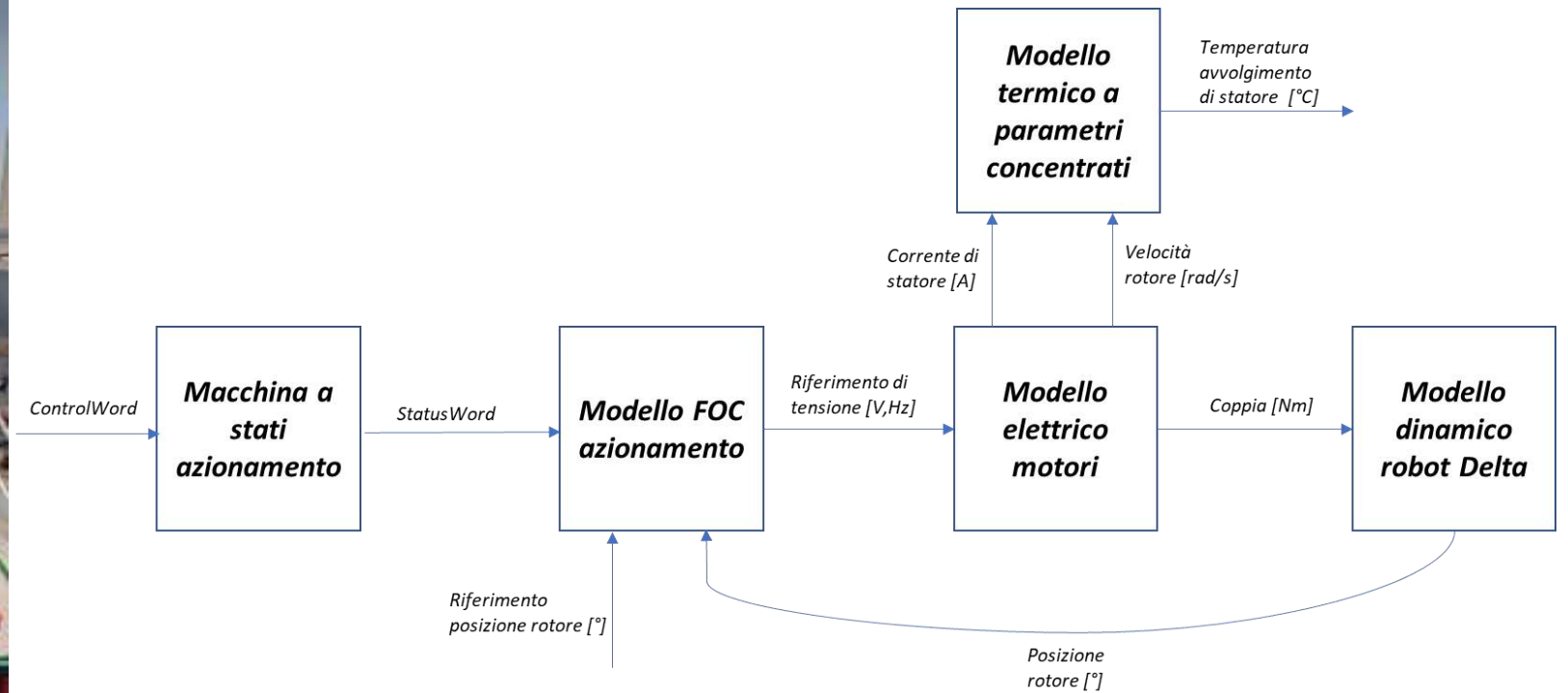
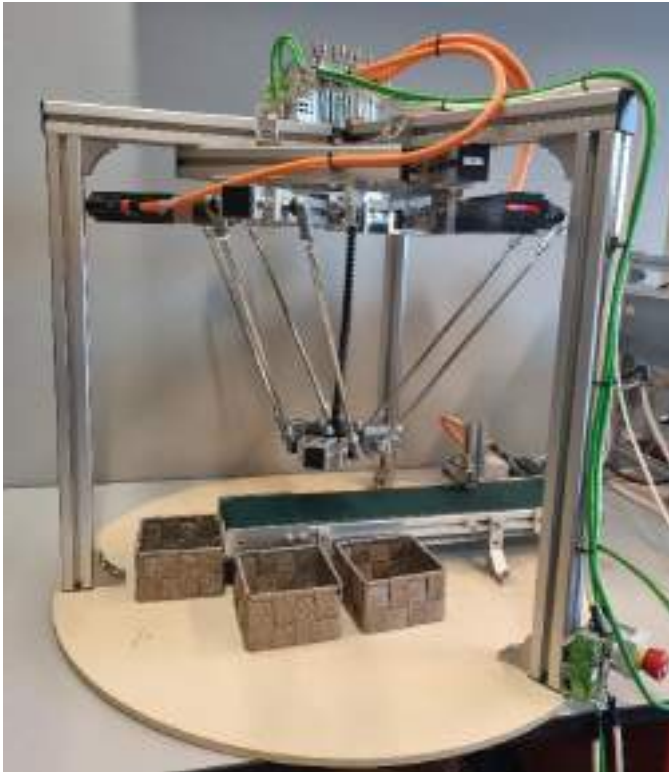


Riduzione del time to market



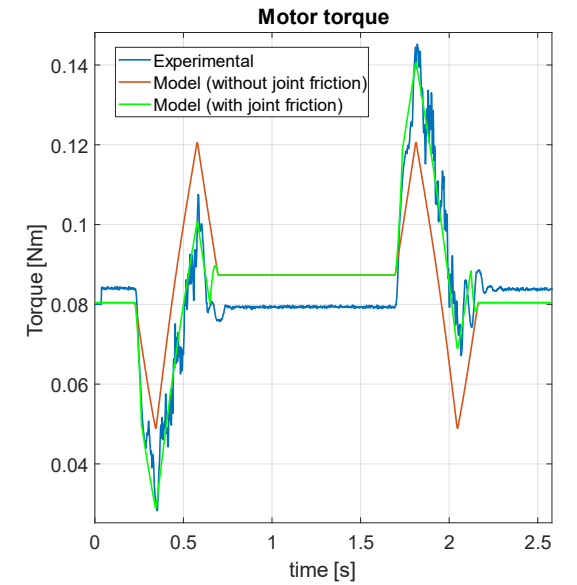
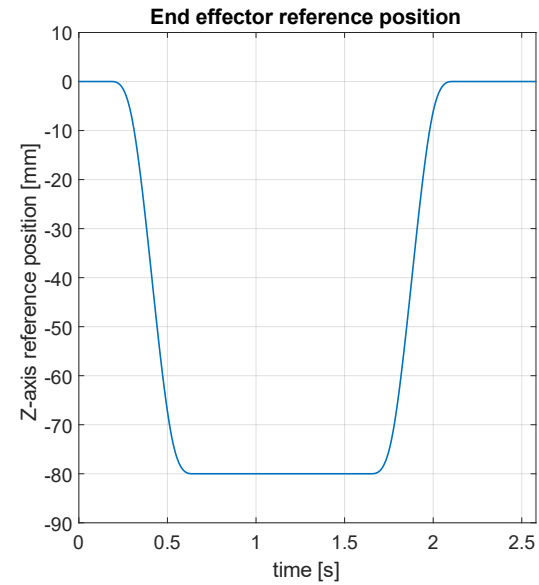
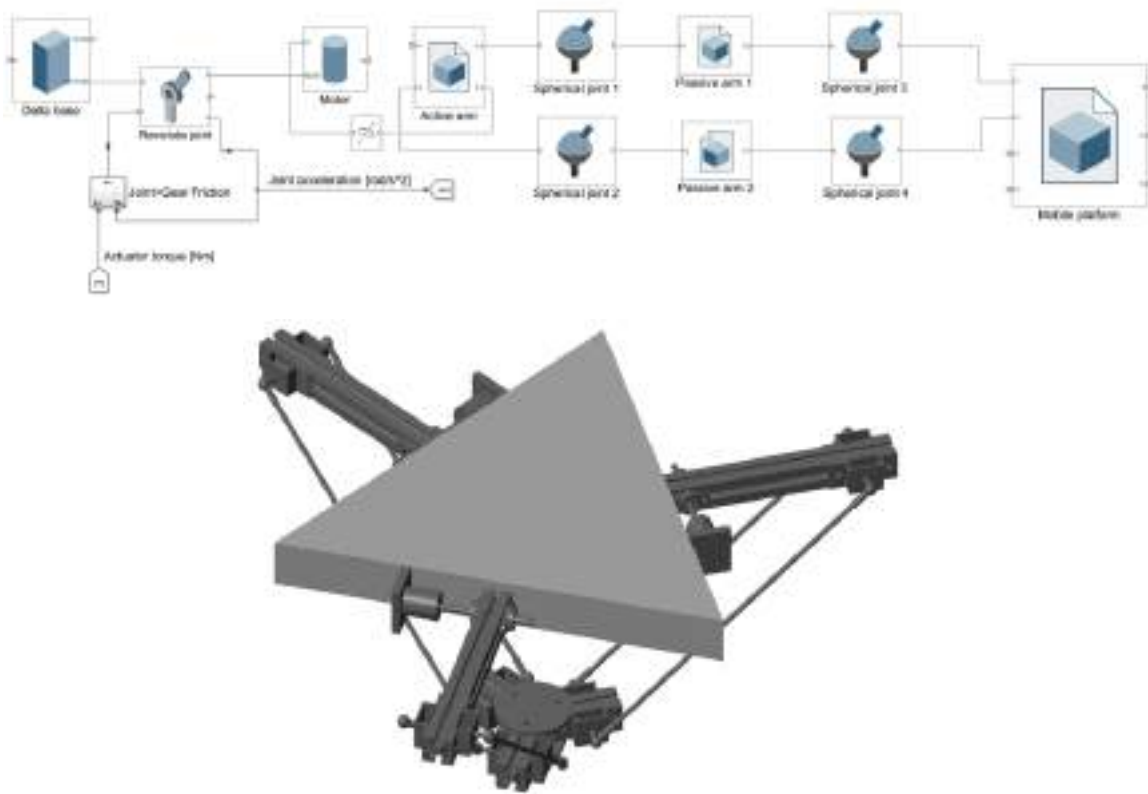
SOSTENIBILITA'

Esempio



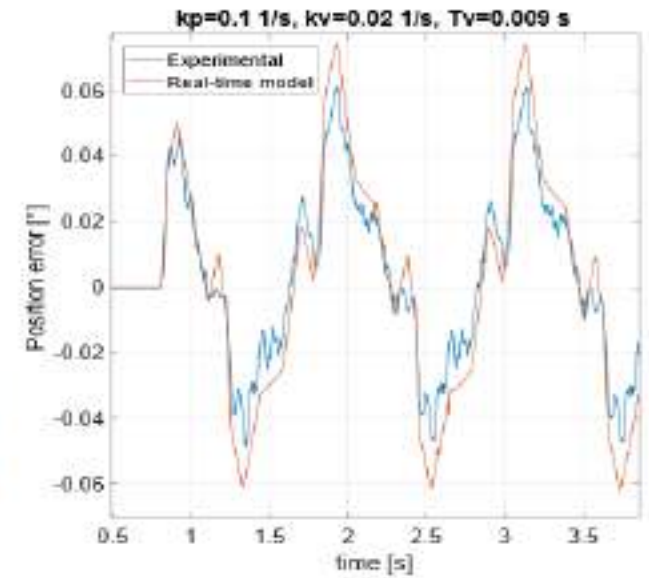
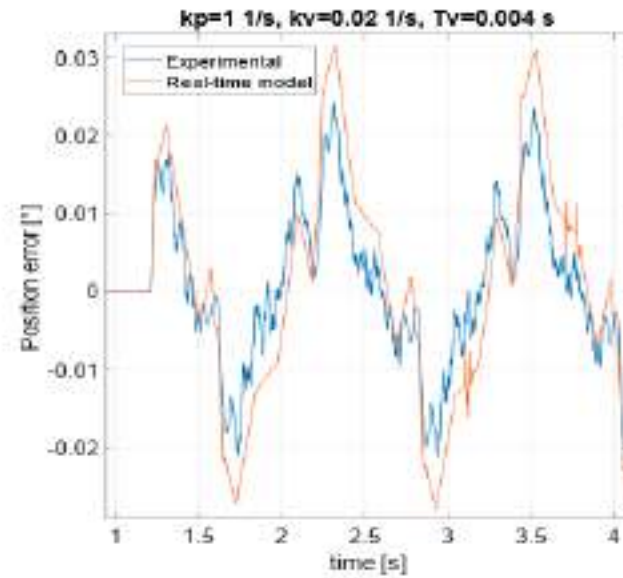
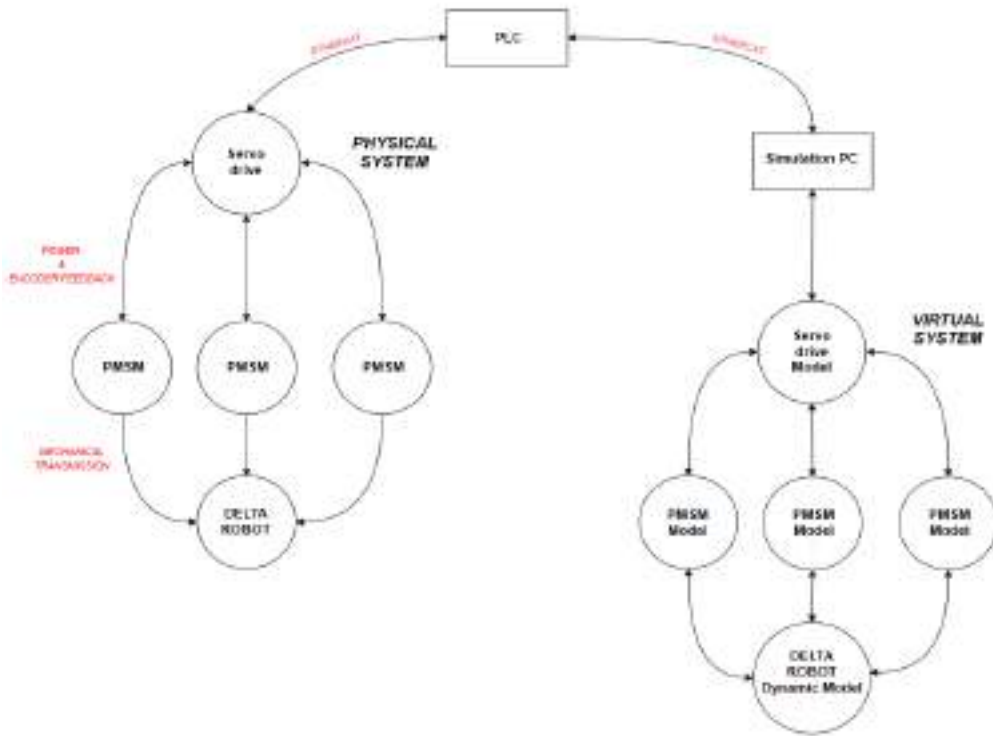
Esempio

Modello dinamico robot Delta



Esempio

Validazione modello real-time

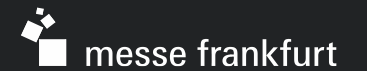


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TwinCAT 3



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Machine Learning



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Kinematic



Vision

