

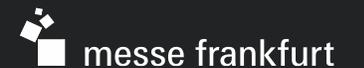
La nuova fase della progettazione: il virtual commissioning

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

Promosso da



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Introduzione

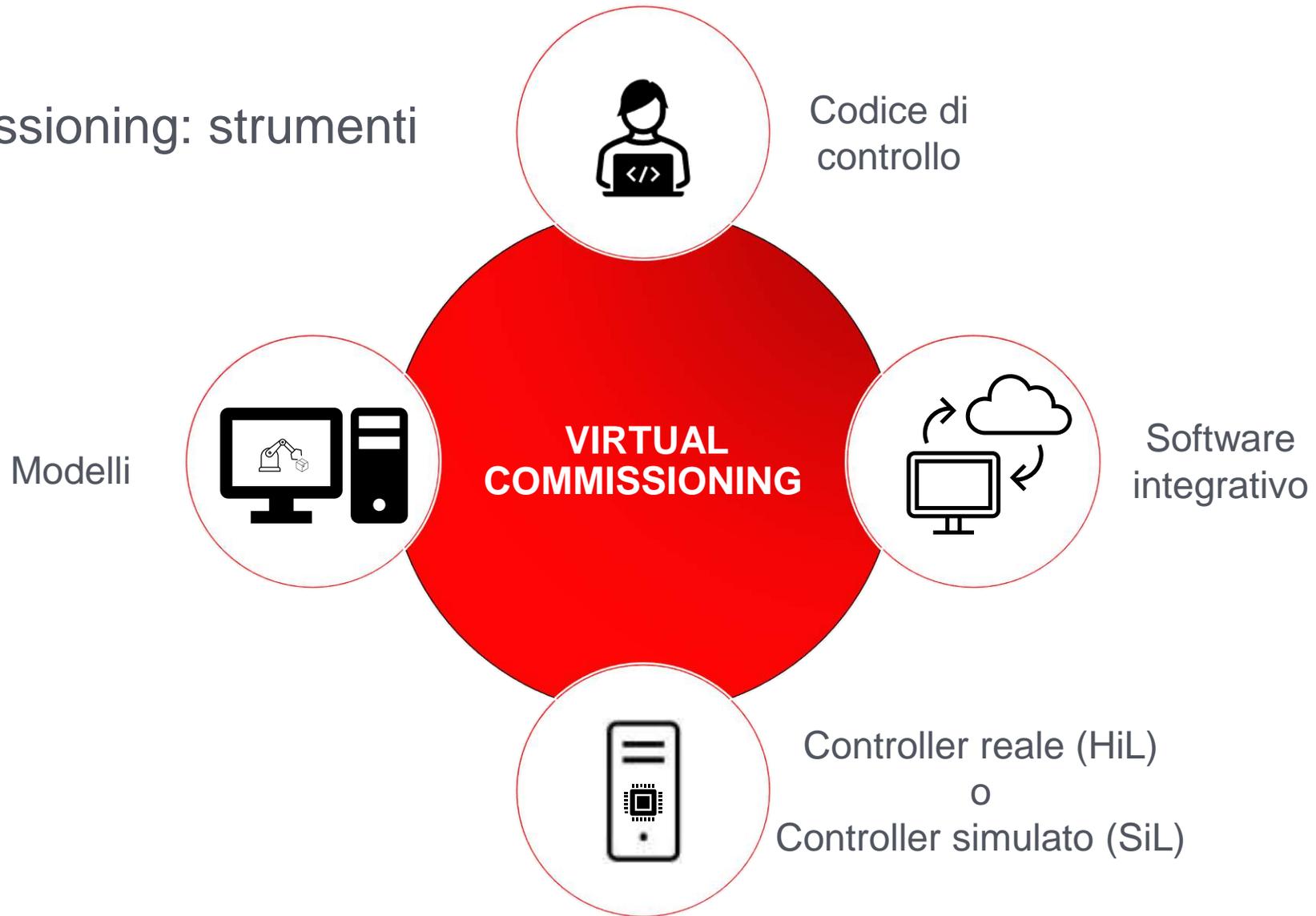
- Richiesta del mercato
- Necessità dei produttori
- Ricerca



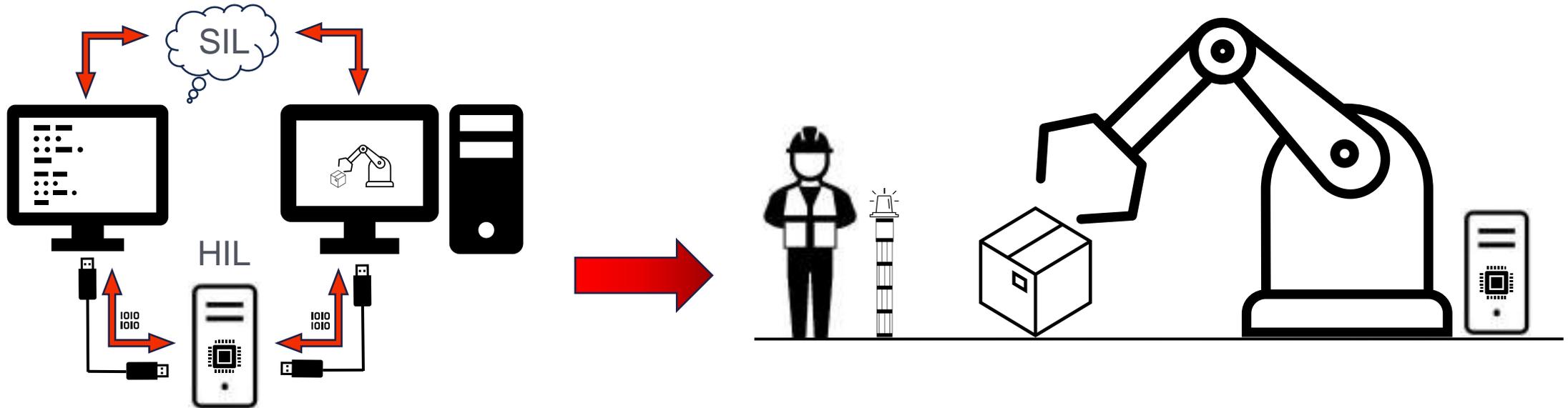
Fasi di sviluppo di prodotto



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

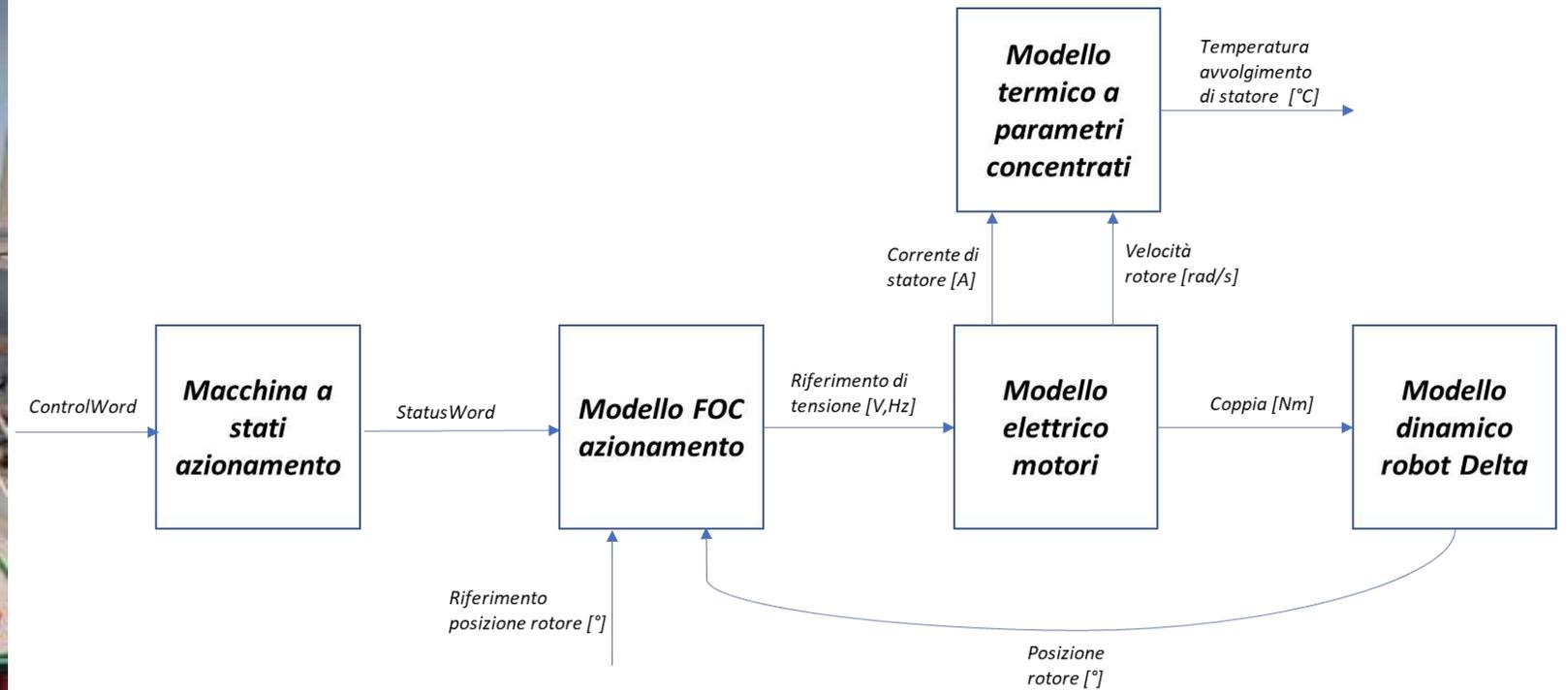


Riduzione del time to market



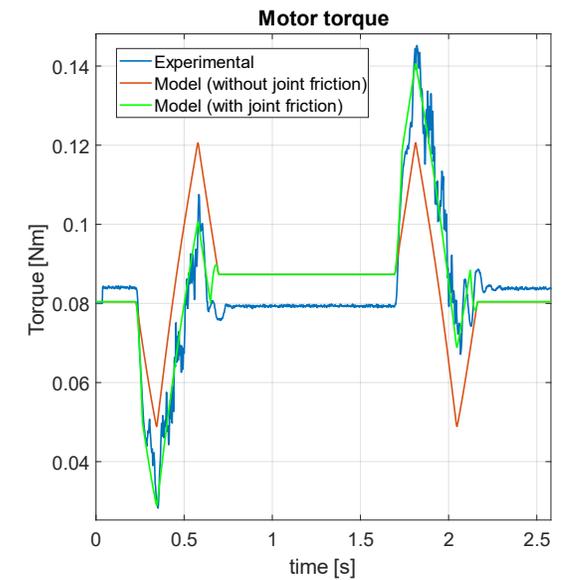
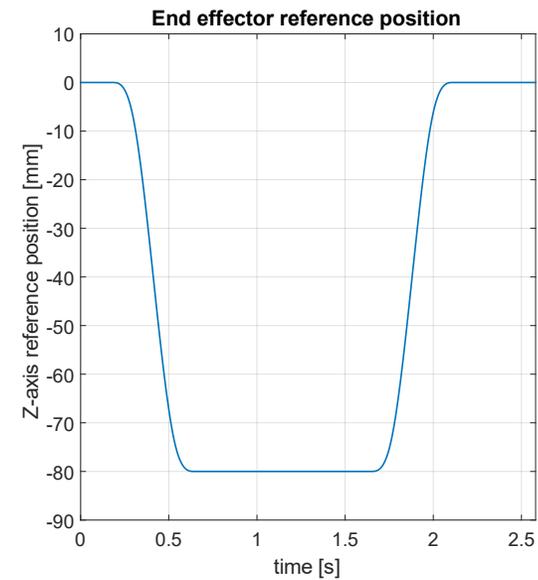
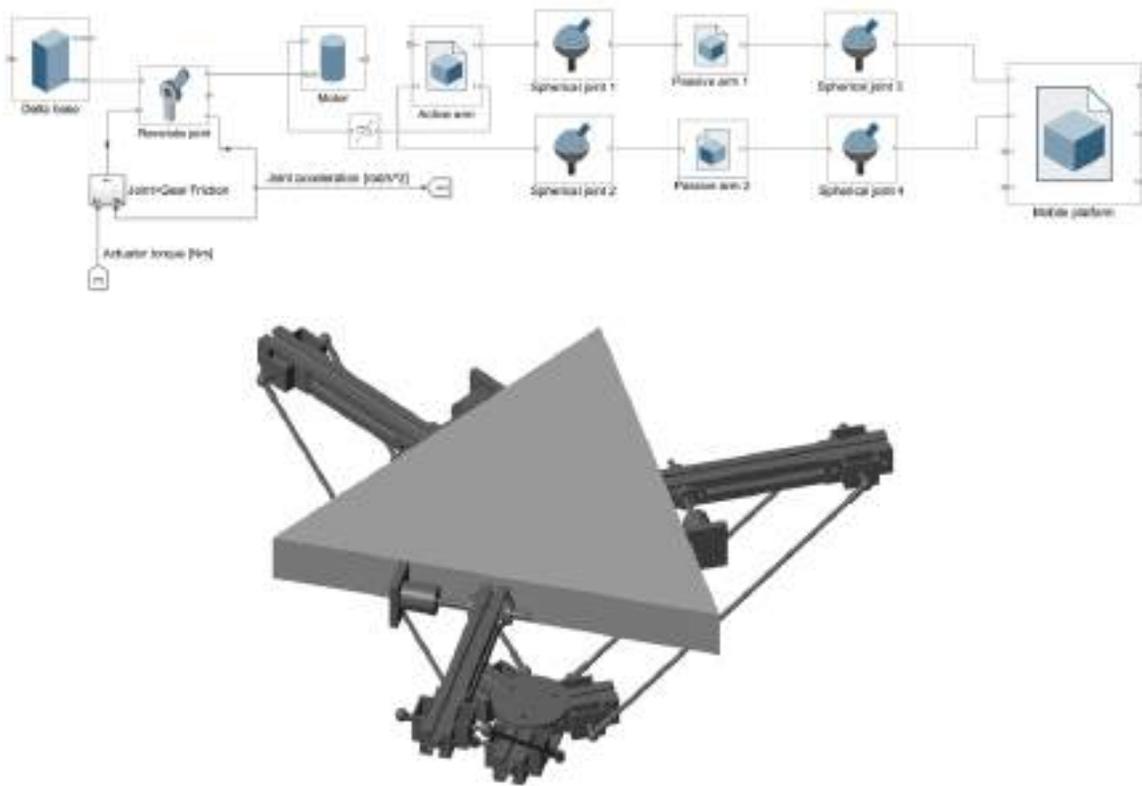
SOSTENIBILITA'

Esempio



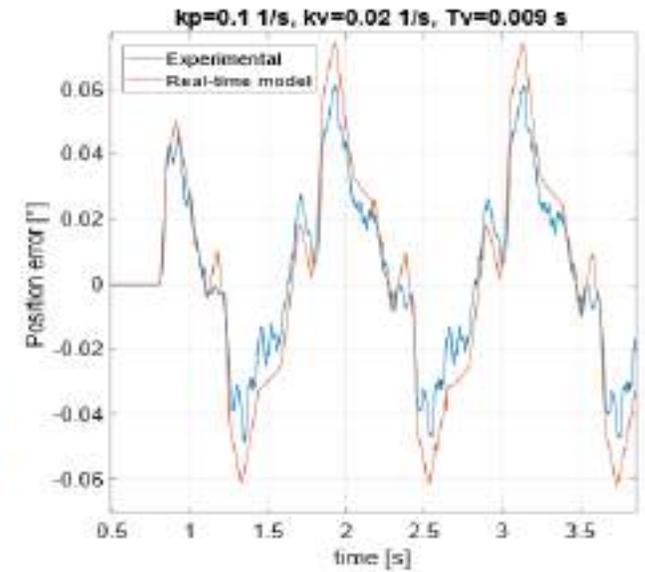
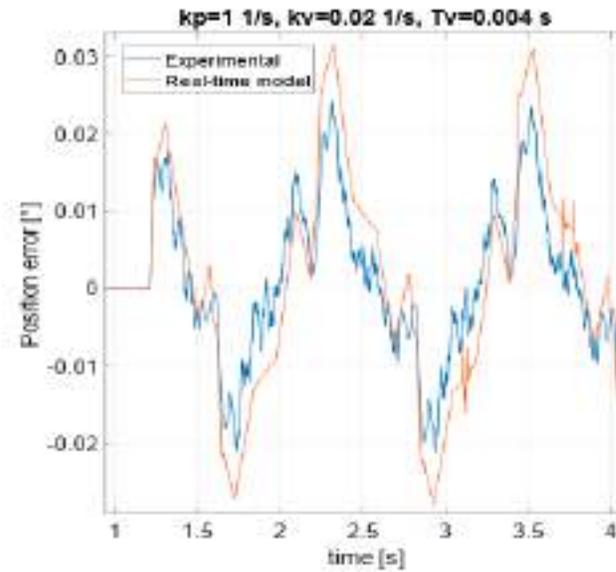
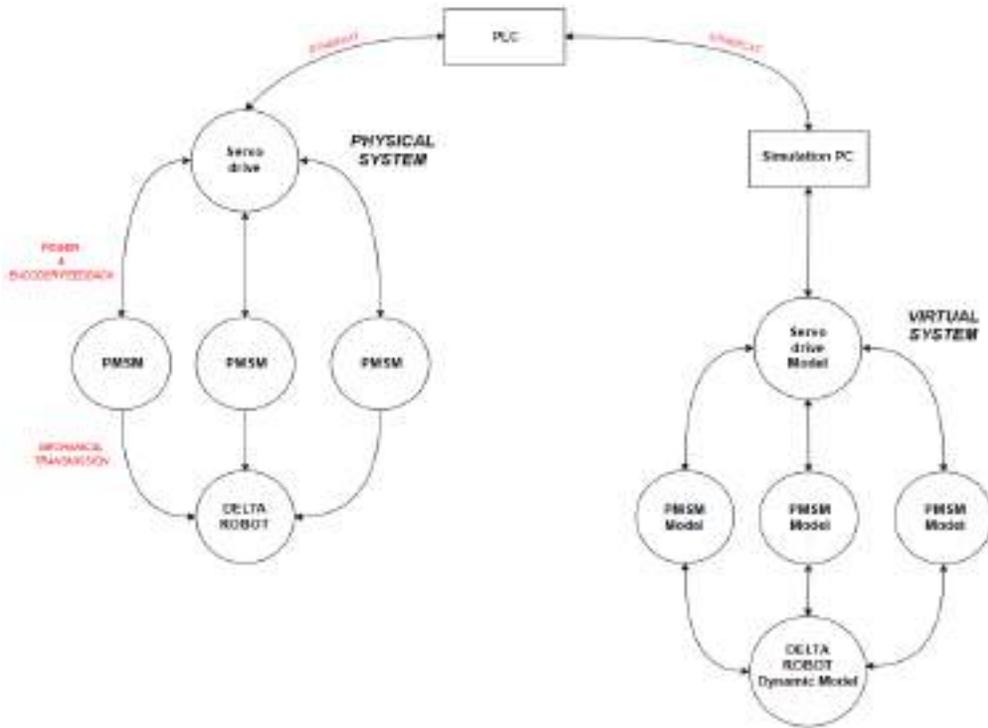
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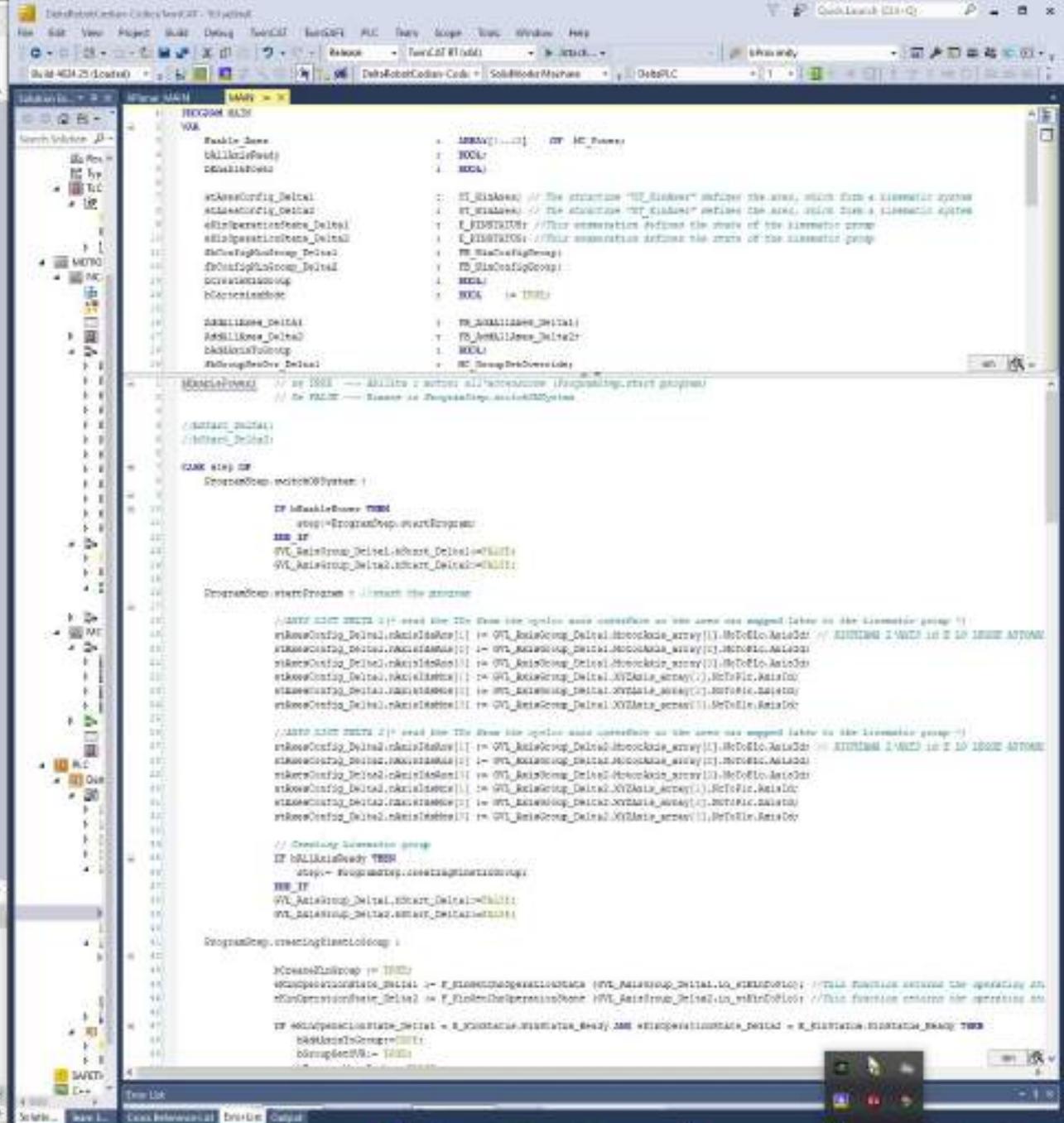
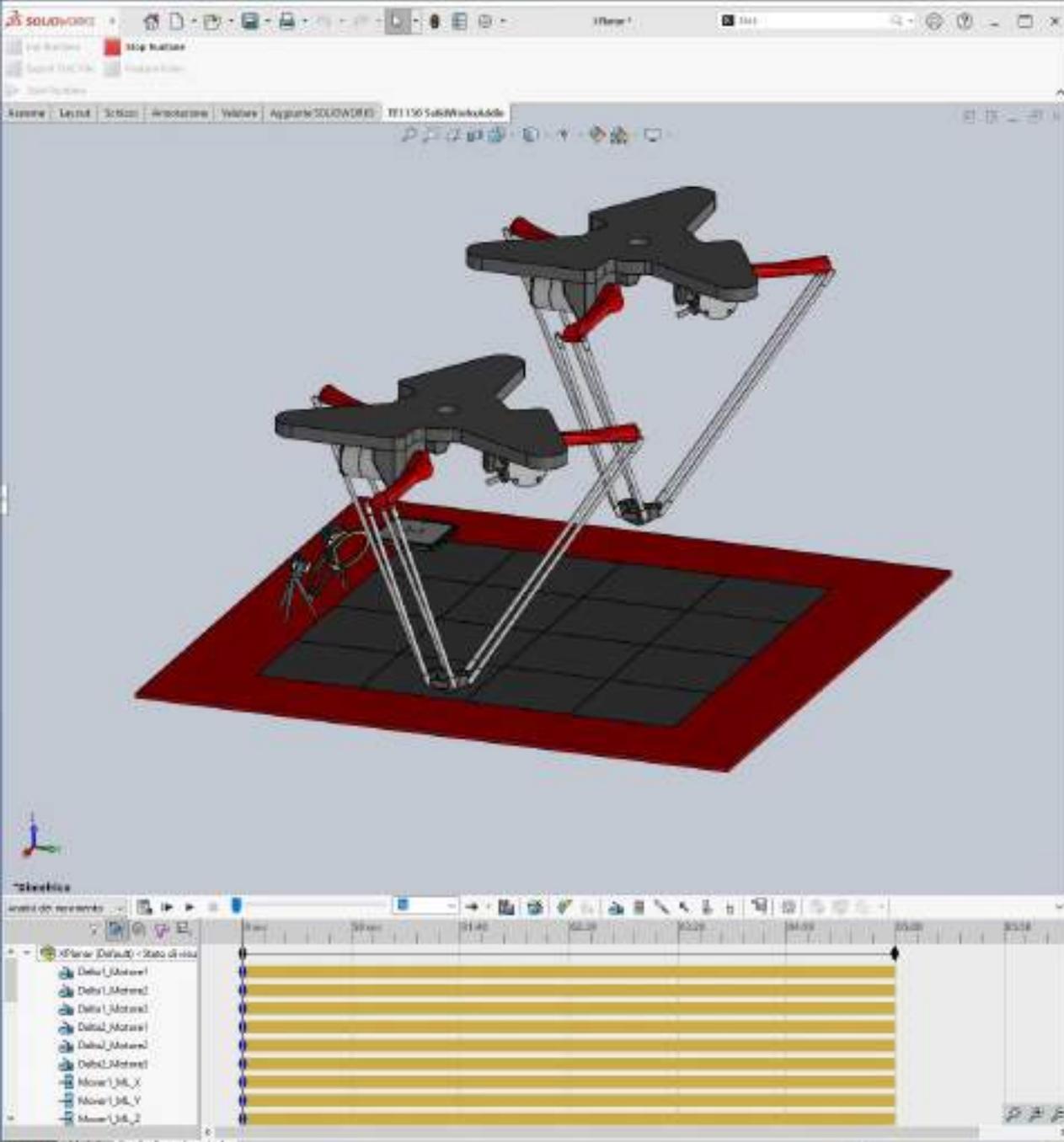
Modello dinamico robot Delta



Esempio

Validazione modello real-time



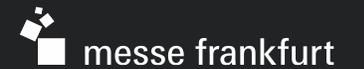


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