Da Data Analytics a Cognitive Digital Twins
prospettive di applicazione in HR

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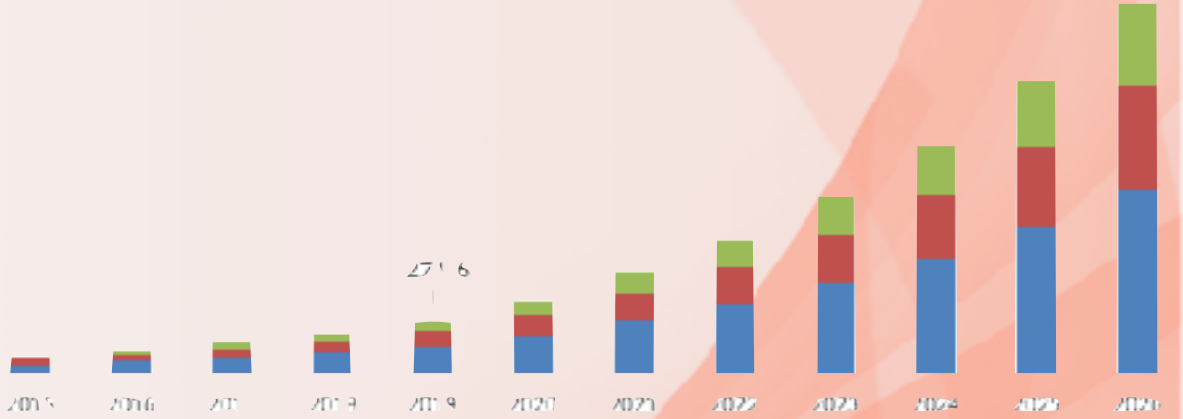
Advancing Technology for Humanity

Outline

- ★ *I Digital Twins…*
- ★ *Personal Digital Twins*
- ★ *Cognitive DT*
- ★ *Applicazione nel settore HR*

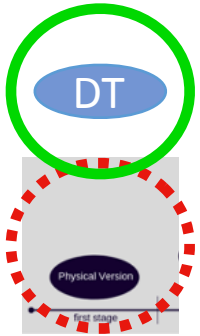


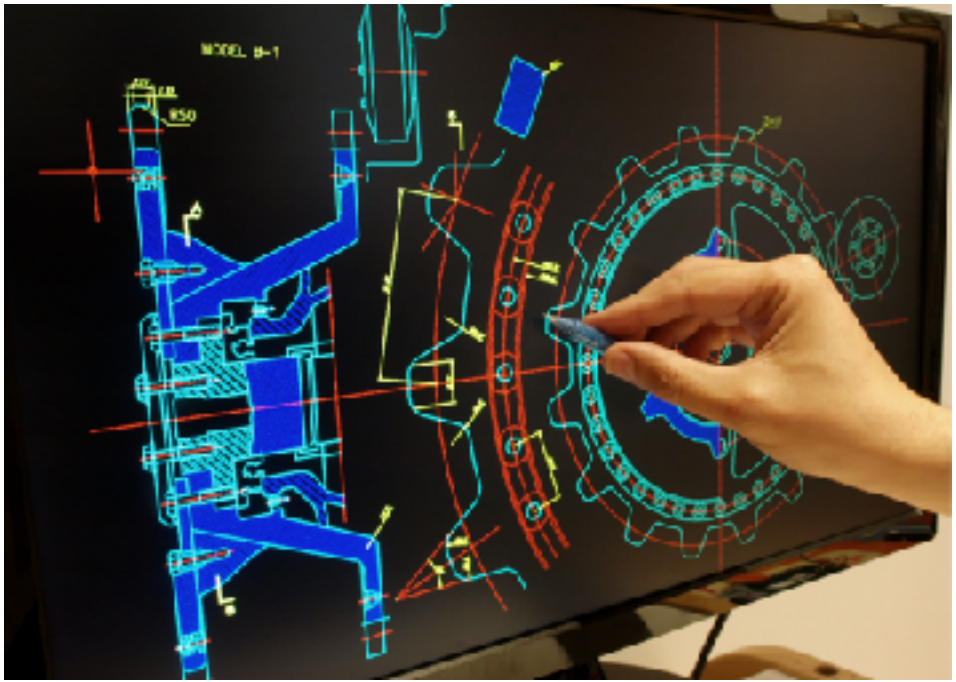
I Digital Twins …

Messa a valore del CAD

- Creazione di un **DIGITAL MODEL**- CAD
- Utilizzo del Digital Model in Manufacturing
- Traccia/storia del Design/Manufacturing

>>> **DIGITAL THREAD**





CAD - Fernando Blanco Calzada / Shutterstock

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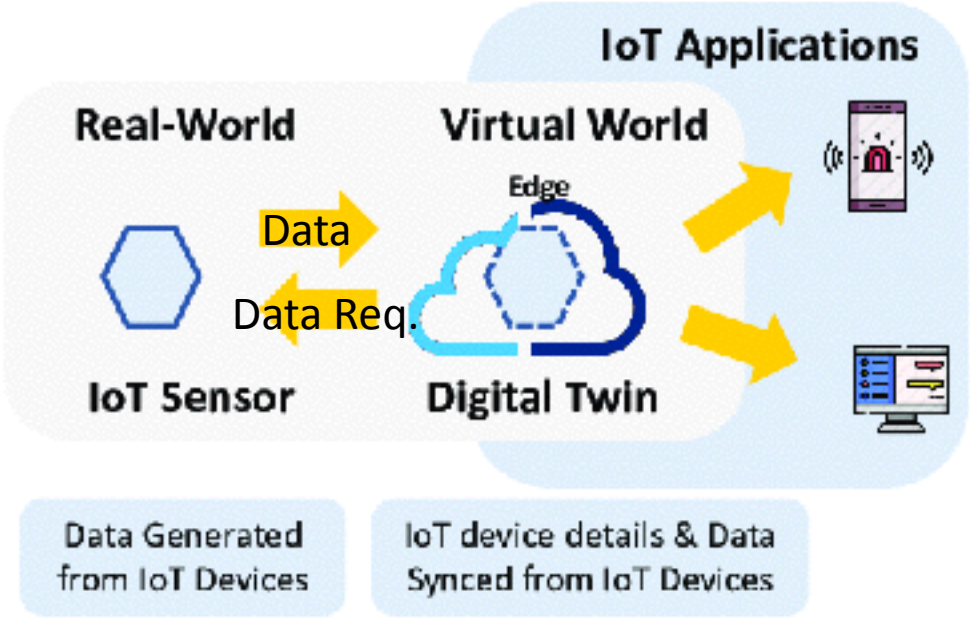
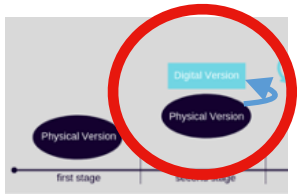
I Digital Twins …

Evoluzione spinta da IoT

- DIGITAL MODEL
- DIGITAL THREAD
- Aggiornamento continuo

  >>> **DIGITAL SHADOW**





Semantic DT model. Image credit: Shapna Muralidharan

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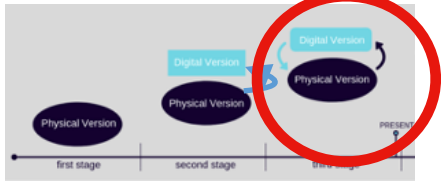
I Digital Twins …

Da Passivi ad Attivi

- DIGITAL MODEL
- DIGITAL THREAD
- DIGITAL SHADOW
- **Analytics :** Cosa succede?
  Simulazione: Cosa potrebbe succedere?
- **Feedback:** influenza il Physical Twin

Digital Twins of 787 Engines. Image credit: GE



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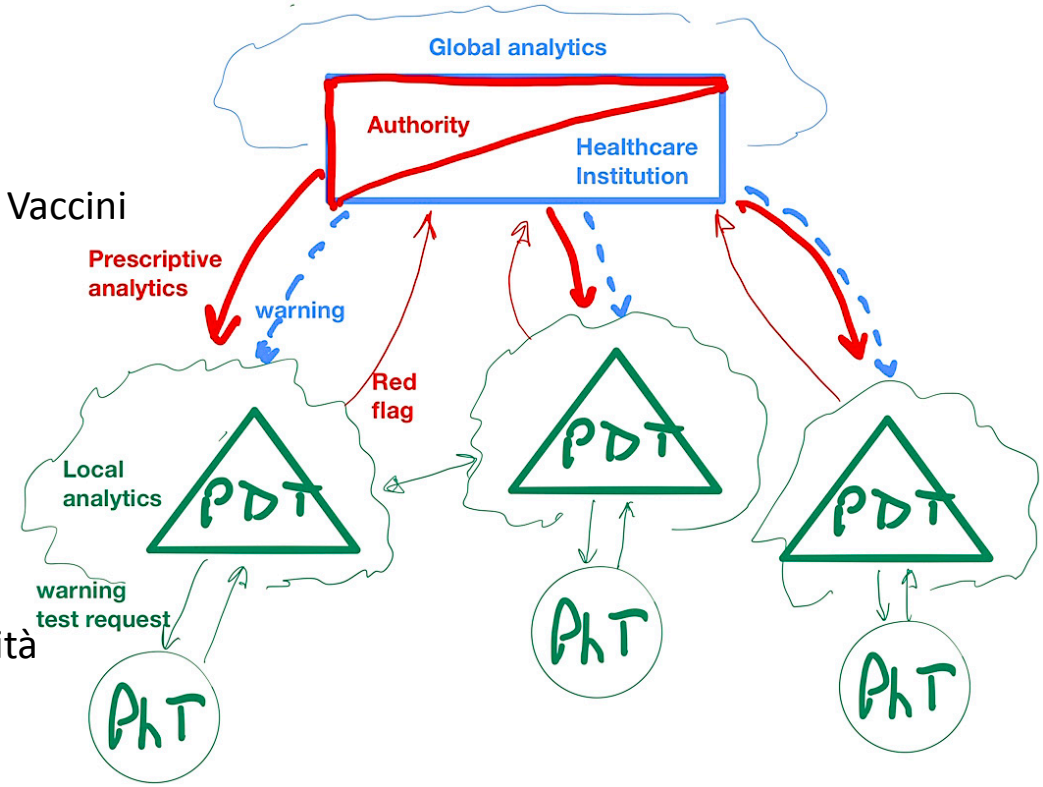
Personal Digital Twins

Personal DT nel settore Sanità

- Modello della fisiologia della persona - Vaccini
- Monitoring di parametri fisiologici
- Monitoring dell'ambiente
- Valutazione rischi comportamentali
- Swarm Intelligence a benificio collettività



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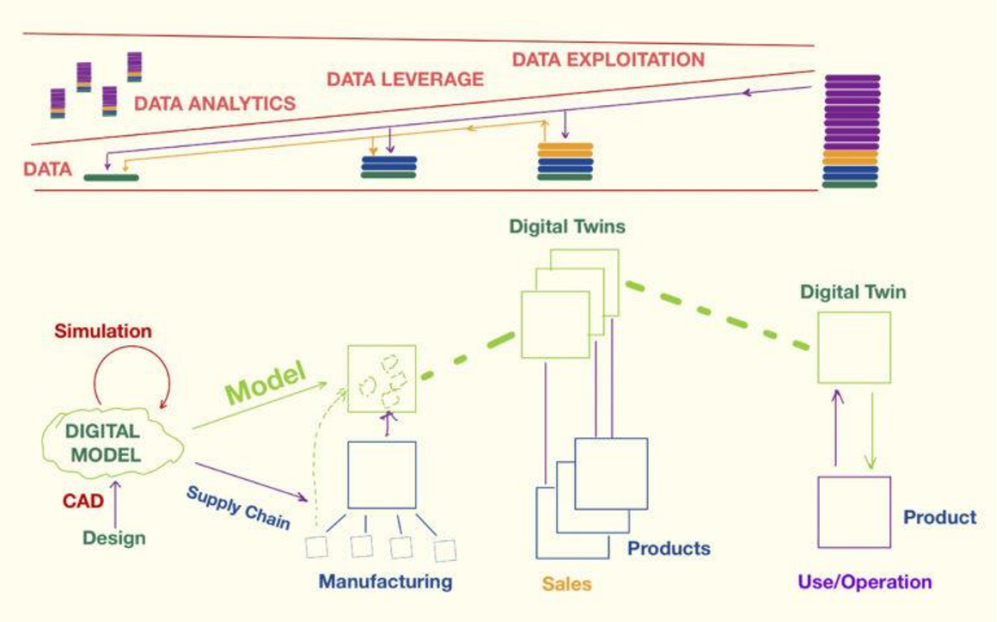
Cognitive Digital Twins

Cognitive Digital Twins

- Nascono da esigenze industriali (IBM)
- Punto di partenza verso Semantic Web
- DT Continuous Learning
- DT come strumento di Learning
- Esteso alla Human Knowledge



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Cognitive Digital Twins

Cognitive Digital Twins - Mind MIrror

- Rappresentazione della Conoscenza
- Conoscenza - Gap Analyses
- Protesi cognitiva
- Booster di conoscenza
- KaaS

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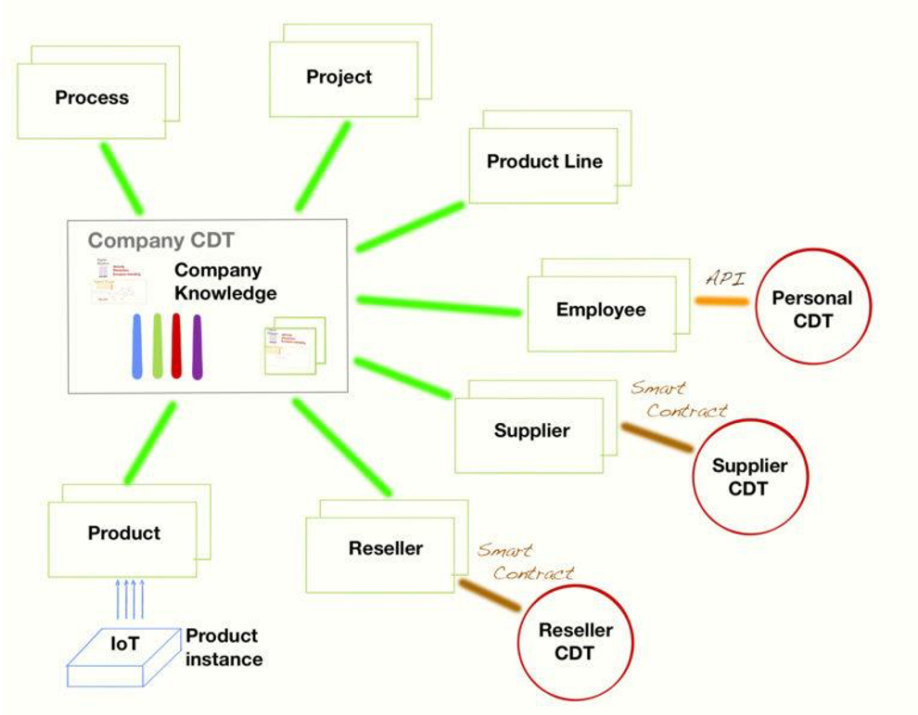
Applicazione al settore HR

Cognitive Digital Twins - Knowledge Asset

- Conoscenza “aziendale” pervasiva
- Flussi di / Accessi a Conoscenza
- HR come CDT repository e gestore
- CDT Ownership



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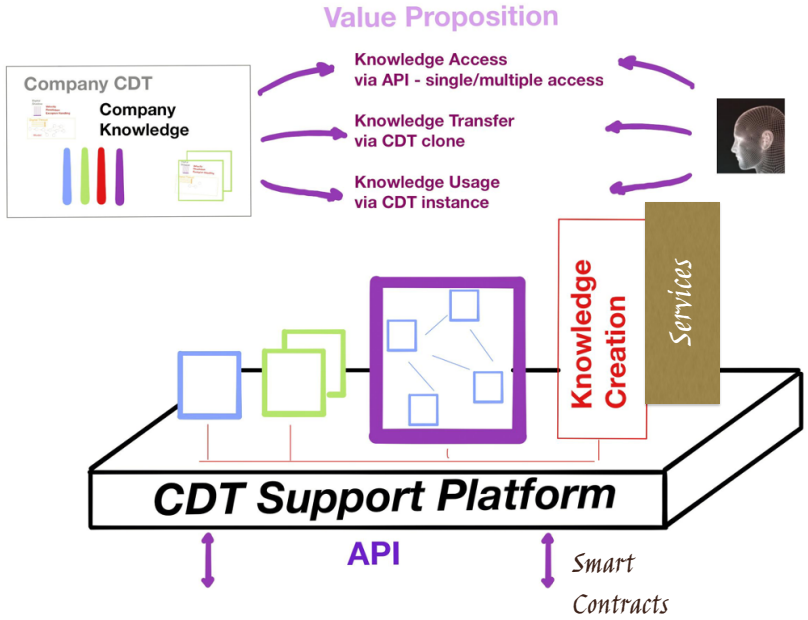
Applicazione al settore HR

Cognitive Digital Twins - Piattaforme

- Partire dai dati disponibili (tanti!)
- Creare l'ontologia aziendale (implicita nei D.A.)
- Estendere i servizi di Data Analytics
- Creare servizi per le persone >

> "**portarle a bordo**"



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Per saperne di più

Riferimenti

- Future of Digital Twins White Paper
- DRI DX Whitepaper IV
- DX Course
- Blog: https://cmte.ieee.org/futuredirections/category/blog/

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