L’ Industrial Internet of Things (IIoT) per l’Operatore 4.0

a che punto siamo?

IRS Ingegneria Ricerca Sistemi

NATIONAL INSTRUMENTS

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irsweb.it

Matteo Bambini

ni.com

Per 30 anni i sistemi sono rimasti uguali a loro stessi

?

1990 2000 2010 2020

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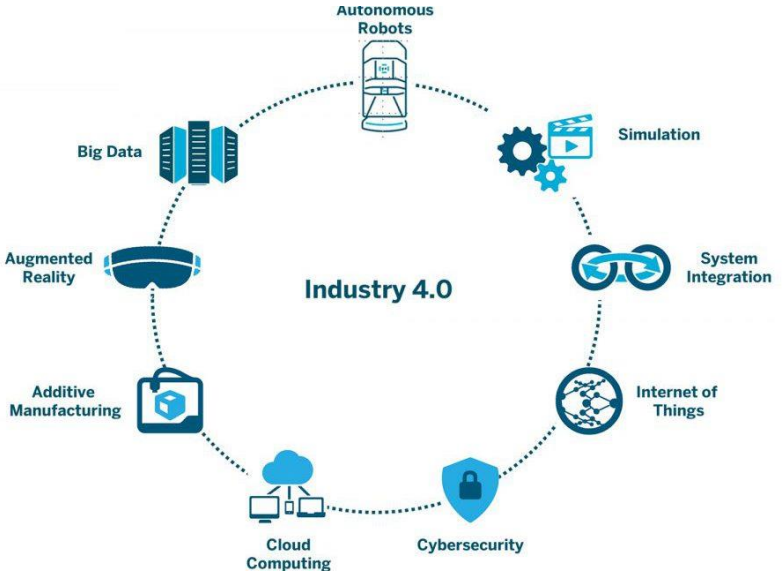
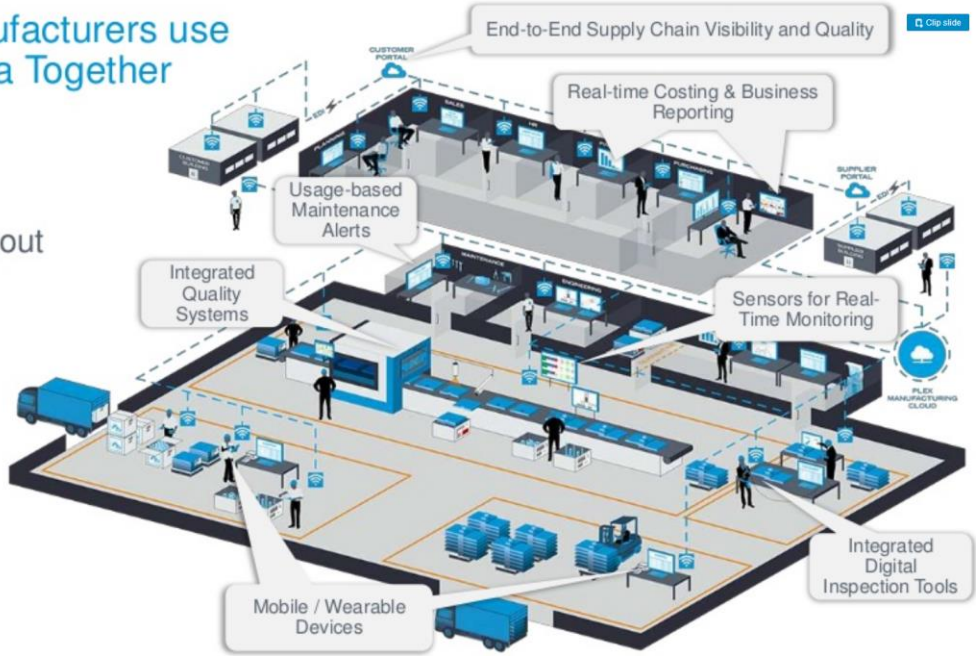
Smart factory



Connected Manufacturers use Cloud to Tie Data Together

Fully connected enterprise delivers data points throughout the enterprise



Manufacturing is the #1 IoT Opportunity

- $1.2-$3.7 trillion of economic impact
- IIoT isn't "technology looking for a problem" – this is a solution to existing needs

Implementation trends

da locale a globale

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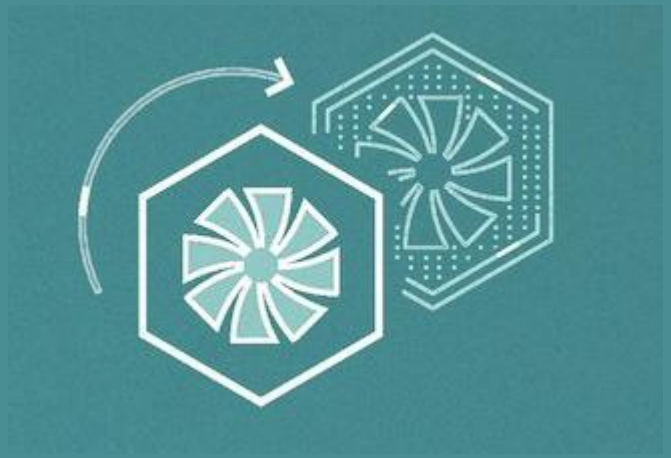
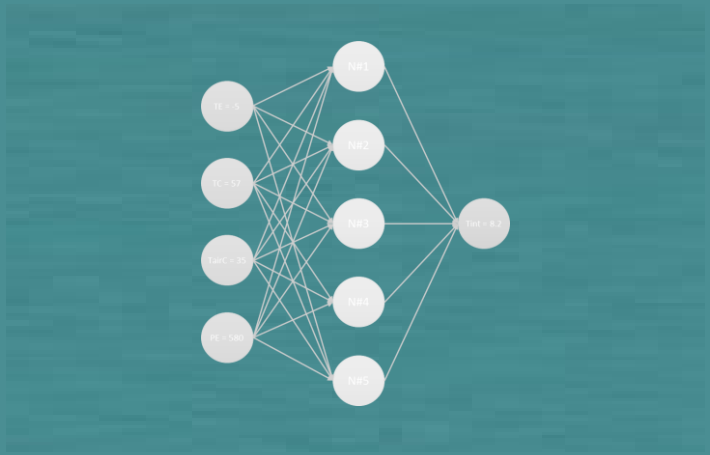
da dumb a smart



digital twin



deep learning

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da mono-interfaccia

a multi-interfaccia

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Hybrid Manufacturing 5.0

next r-evolution

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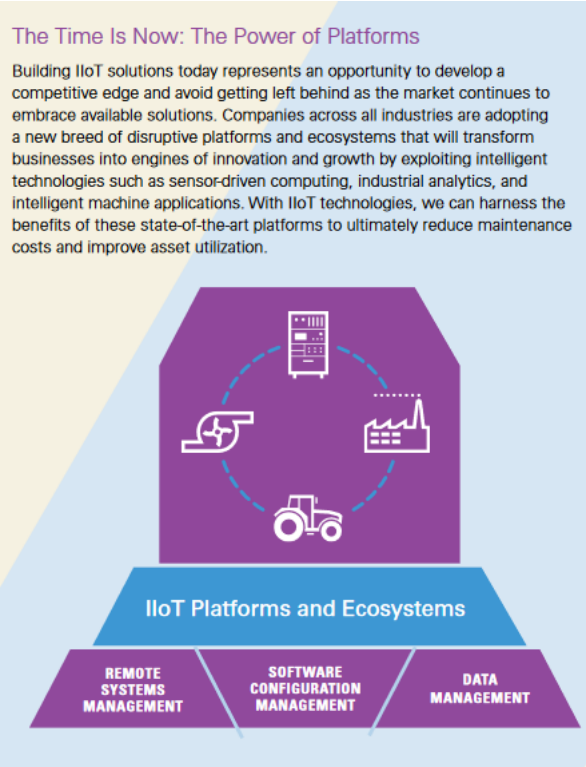

INDUSTRIA MULTIMILIARDARIA

Siamo solo all'inizio. Nei prossimi cinque anni, Roland Berger prevede infatti che la IIoT diventi un'industria multimiliardaria.

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A platform ready for change

Productive Software

Our extensive portfolio of software, from LabVIEW to TestStand, helps you translate your programming ideas into reality, reduce project development times, improve system performance, and deliver business insights based on collected data.

Flexible, Modular Hardware

NI modular hardware, which ranges from high-performance RF instrumentation to low-cost measurement devices, has flexible I/O that helps you to reconfigure hardware in software and avoid buying new equipment every time application needs change.

Seamless Integration

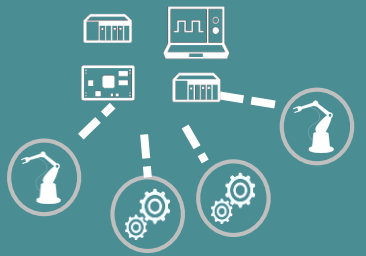
With seamless integration of flexible hardware and productive software from one vendor, you can design measurement and control systems more rapidly. NI software and I/O hardware work together so you can stop sweating the details and focus on designing better systems faster.

Openness and Interoperability

The openness and flexibility of the NI platform allows you to choose to use NI software and hardware or third-party tools in multiple different combinations. You can accelerate your system design to reduce complexity, innovate faster, and continually integrate new technologies based on the tools that you prefer.

Hybrid manufacturing

test results
get personal



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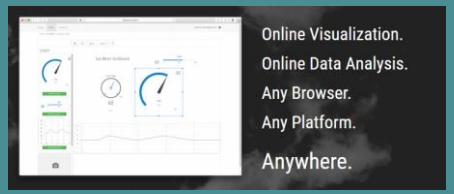
Human at the center



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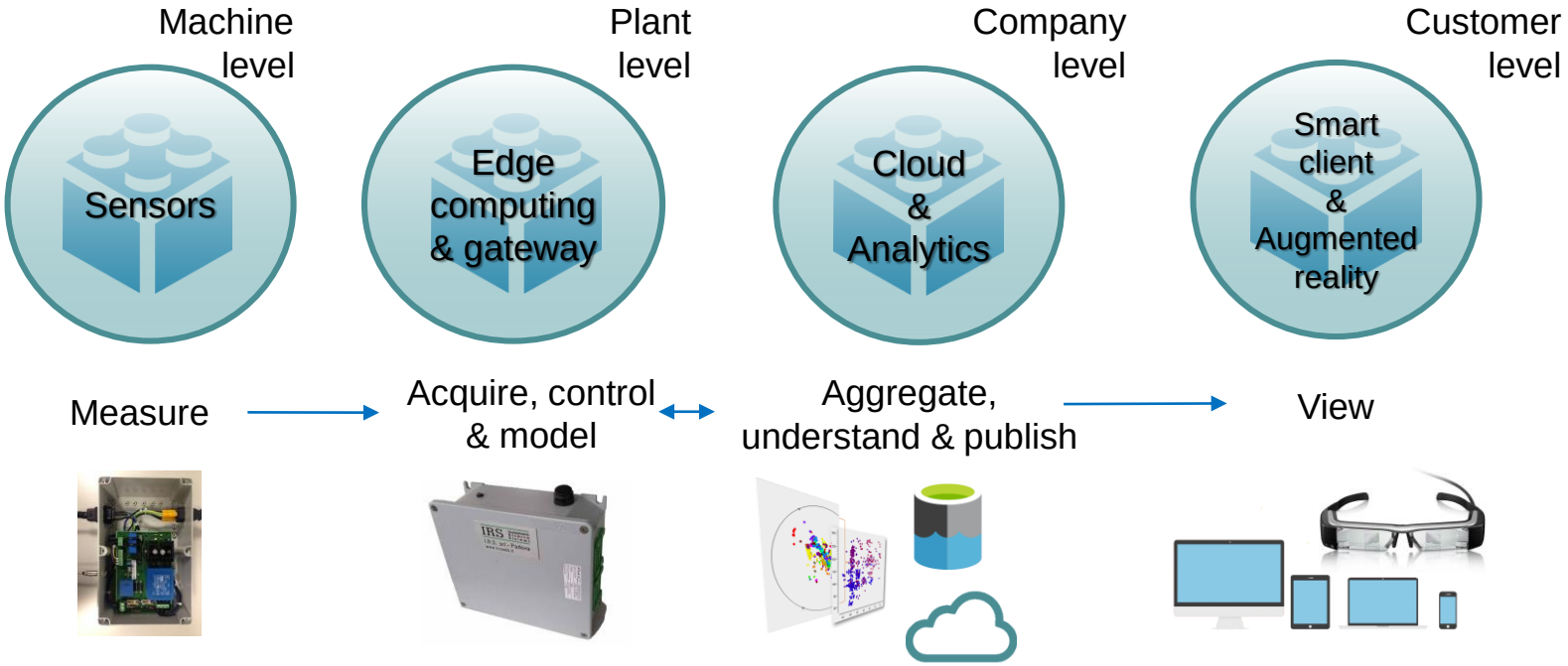
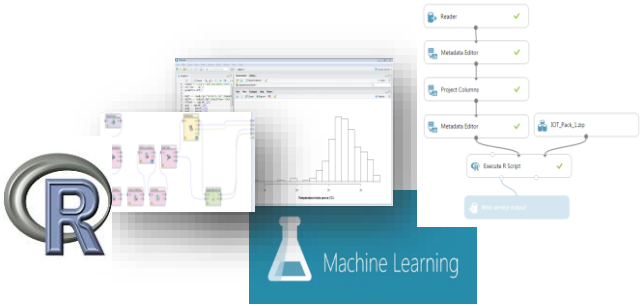
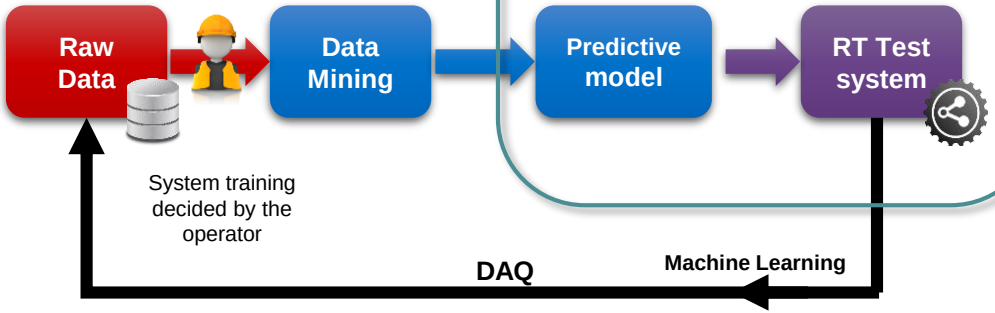
Il test diventa globale



Il test diventa smart



Intelligence at the edge



Conclusioni

la persona ibrida
la persona «aumentata» grazie alla tecnologia

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