Sustainable Manufacturing
Circular economy: responsible enterprises are growing, but what are the most virtuous examples? The Green New Deal is a reality, now we need a project-centered approach to sustainability.

Designing the Manufacturer’s Future
Past data no longer represents a foundation upon which to construct decisional processes; it is necessary to learn to anticipate what will be, distinguishing between forecasting, discovery and anticipation.

The Role of IT in Corporate Social Innovation
Considering the impacts of innovation from a social responsibility angle is an ethical challenge. Precisely because of this, a new alliance needs to be forged between CIOs and CRS Managers.

Open Innovation
Innovation projects are increasingly becoming the product of a virtuous alliance between employees, suppliers, clients and communities. A process that, in addition to the enterprise, also involves start-ups, research centers and universities.

Connected Products and Data Collection
The process of extracting knowledge from data generated in the production sphere allows companies to design new business models and offer the market new products.

Blockchains and Supply Chain Certification
Blockchain technology is set up more and more as the tool to trace the life-cycle of products, offering consumers new guarantees.

Incremental Innovation and Disruptive Innovation
The approach according to which innovation is produced is of consequence to the future of business. But there are differences in the contemporary Italian manufacturing industry.

The Development of Skills in the Factory of the Future
The digital factory demands to be populated by profiles with increasingly elevated skill sets. But there is an ample mismatch between profiles that the production world could absorb and the skills that the system requires?

Artificial Intelligence in the Production of the Future
Technology is in permanent evolution, and so is the current scenario of production, enabling new opportunities, but also revealing the limits of organizational models.

Energy Management
In a scenario in which sustainability is the most up-to-date topic, companies are enquiring into new modes for reducing consumption and optimizing energy resources.

Human-Robot Interaction in the Production Chain
In production environments, humans and machines coexist. Operators interact with robots within the confines of a single environment: a new dialogue opens up, and so do new perspectives for productivity.

The Factory as a Smart Ecosystem
The factory lives and develops within an ecosystem connected on a local level, but progressively more embedded in an international landscape. It is necessary to feed and grow an increasingly more open productive network.

Energy Management as a Skill-Growing Tool
Adopting Lean methods entails introducing Change Management processes capable of affecting the culture of the organization. Lean thinking optimizes processes and helps concrete skill growth.

Technologies for the Health Sector
Healthcare has been substantially impacted by technological innovations. New technologies are changing the ways in which we approach both research and treatment.

Additive Manufacturing and Production Personalization
Additive manufacturing as a tool to enable new business models within a production system that gradually transitions from series to mass production.

Smart Agrifood, Precise and Sustainable Agriculture
The agro-food production chains of the future will be always more connected, to guarantee greater productivity and profitability.

The New Role of the Operator in Logistics
Within a digital supply chain, the role of the operator changes to assume a strategic position for productivity increase along the entire value chain.

Technological Innovation for the Growth of Services
The manufacture challenge will be transforming every process into a service. There is no product that cannot be “servitized”, but in order to realize this paradigm-shift technologies and skills will be necessary.

The Weaknesses of Cybersecurity
Protecting information on production data is a priority. In an interconnected system, in addition to data protection, it is necessary to foster a culture of security that must permeate the entire organization. Often, in fact, human action is the source of greatest vulnerability.

The Advantages of Sustainability
Sustainability pays off, but on what terms? It is necessary to set up a reporting and monitoring strategy capable of supplying information to stakeholders.

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