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Internet of Things Research on Semantic Interoperability to Address Manufacturing Challenges; 1. Introduction - IERC Activities 2. Internet of Things Research and Innovation on Semantic Interoperability 2.1. Semantics and Technology; 3. IERC Challenges in Interoperability; 4. IERC AC4 Position and Envisioned Solutions; 5. IERC Semantic Interoperability and Manufacturing Challenges; 6. Conclusions; Manufacturing Integration Challenges: Top-Down Interoperability and Bottom-Up Comprehensiveness Towards a Global Information Backbone for Smart Factory; 1. The Importance of Information and Knowledge in Manufacturing; 2. The Evolution; 2.1. From Automatic Machine...; 2.2. ... To Smart Machine 4. The IoT Based Solution 5. References; Leveraging IoT Interoperability for Enhanced Business Process in Smart, Digital and Virtual Factories; 1. Introduction; 2. FITMAN Business Process Innovation and High Level Technical Features for Smart, Virtual and Digital Platforms; 3. ComVantage Interoperability Framework for Business Collaboration; 4. Acknowledgements; Workshop 2: Future Internet Methods, Architectures and Services for Digital Business Innovation in Manufacturing, Health and Logistics Enterprises; Report; 1. Cloud Strategy and Cloud Journey 2. Combination and Interoperability of Generic Software Components for Building New Complex Applications

#### Sommario/riassunto

Enterprises and organizations of any kind embedded in today's economic environment are deeply dependent on their ability to take part in collaborations. Consequently, it is strongly required for them to get actively involved for their own benefit in emerging, potentially opportunistic collaborative enterprise networks. The concept of "interoperability" has been defined by INTEROP-VLab as "The ability of an enterprise system or application to interact with others at a low cost in a flexible approach". Consequently, interoperability of organizations appears as a major issue to succeed in buildi