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Conclusions

The i3-MARKET project addresses the challenge of being integrative follow-ing design methods used in industry and OSS implementation best practices, interoperable by using semantic models that define a common conceptual framework and information model that enables cross-domain data exchange and sharing, and intelligent from the perspective of smart contracts generated automatically and associating those financial operations into a set of software tools that facilitate that data assets can be commercialized via intra-domain or cross-domain almost transparently in a secure and protected digital market environment.

In this book series is presented an overview of the i3-MARKET method-ologies and solutions that are the foundations of its software results in the form of a Backplane with a set of software support tools and as a solution addressing the challenge of enabling the coexistence of data spaces with marketplaces for enlarging the European digital market ecosystem.

The i3-MARKET project has built a blueprint open-source software architecture called "i3-MARKET Backplane" that addresses the growing demand for connecting multiple data spaces and marketplaces in a secure and federated manner. The i3-MARKET consortium is contributing with the developed software tools to build the European data market economy by innovating marketplace platforms, demonstrating with three industrial reference implementations (pilots) that a decentralized data economy and more fair growth is possible.

The i3-MARKET architecture design provides adequate and in-house developed building blocks for trustworthy (secure and reliable) data-sharing

and exchange of existing data assets for current and new future market-place platforms, with special attention on commercializing data assets from individuals, SMEs, or large industrial corporations. We used and developed the i3-MARKET backplane using open-source technologies that impulse the adoption and exploit the open-source culture, a tendency that, for more than a decade, is hitting the industry markets and that today more and more industries are following.