

TIA and Digital Enterprise Software Suite
 TIA is an integral part of the Digital Enterprise Software Suite. Today, Siemens is already offering an optimized platform for Industrie 4.0 processes with the Digital Enterprise Software Suite, which combines the benefits of Siemens' Product Lifecycle Management Software with the proven properties of TIA via a shared database. In addition to horizontal integration, the Digital Enterprise Software Suite also offers vertical integration through the Manufacturing Execution System (MES), thus providing the necessary connection to the management level.

The benefits are obvious: Everyone participating in the process has access to the same consistent database where every change, every update, and every release is immediately visible and available to all.

This means a flexible production organization, shorter project execution times through simultaneous engineering, avoidance of duplication of effort, comprehensive process control, consistent data for quality documentation, integration of mechanics, electrical systems, and automation, and much more. You can enjoy the benefits of worldwide networking today – for example, by analyzing data in MindSphere – Siemens Cloud for Industry to optimize your repair and maintenance. The scenarios inside these pages show you which benefits TIA already holds in store for you as part of the Digital Enterprise Software Suite.

usa.siemens.com/tia

Visit our reference center to find out how our customers are using the Siemens TIA portfolio to implement their applications:
siemens.com/automation/references

Siemens offers a complete portfolio for the Digital Enterprise

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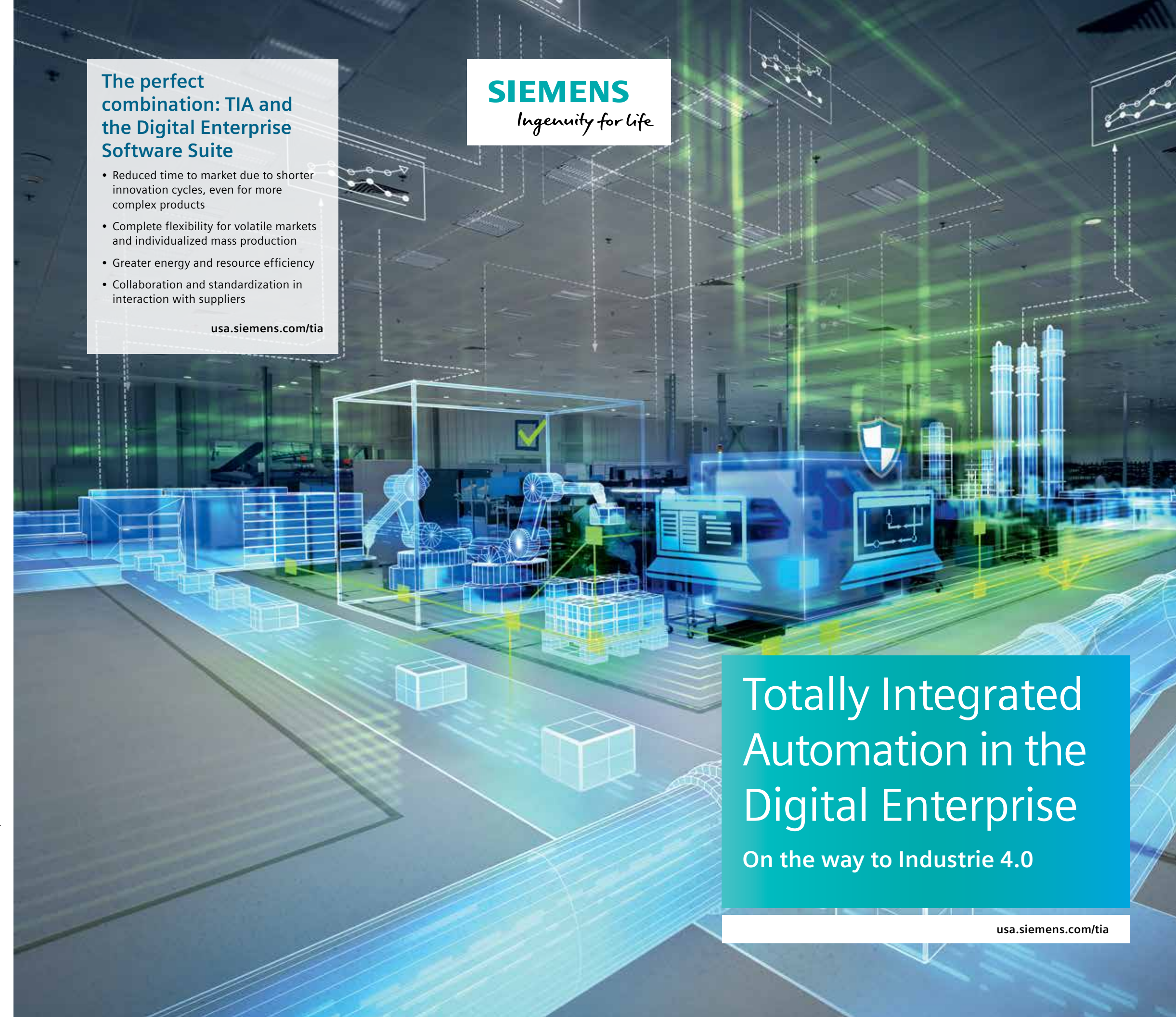
The technical data presented in this document is based on an actual case or on as-designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.

The perfect combination: TIA and the Digital Enterprise Software Suite

- Reduced time to market due to shorter innovation cycles, even for more complex products
- Complete flexibility for volatile markets and individualized mass production
- Greater energy and resource efficiency
- Collaboration and standardization in interaction with suppliers

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Totally Integrated Automation in the Digital Enterprise

On the way to Industrie 4.0

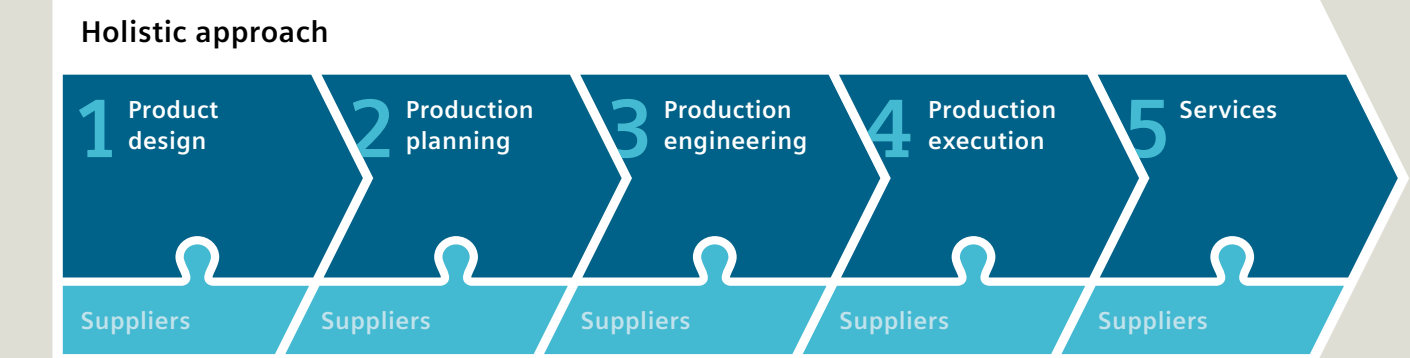
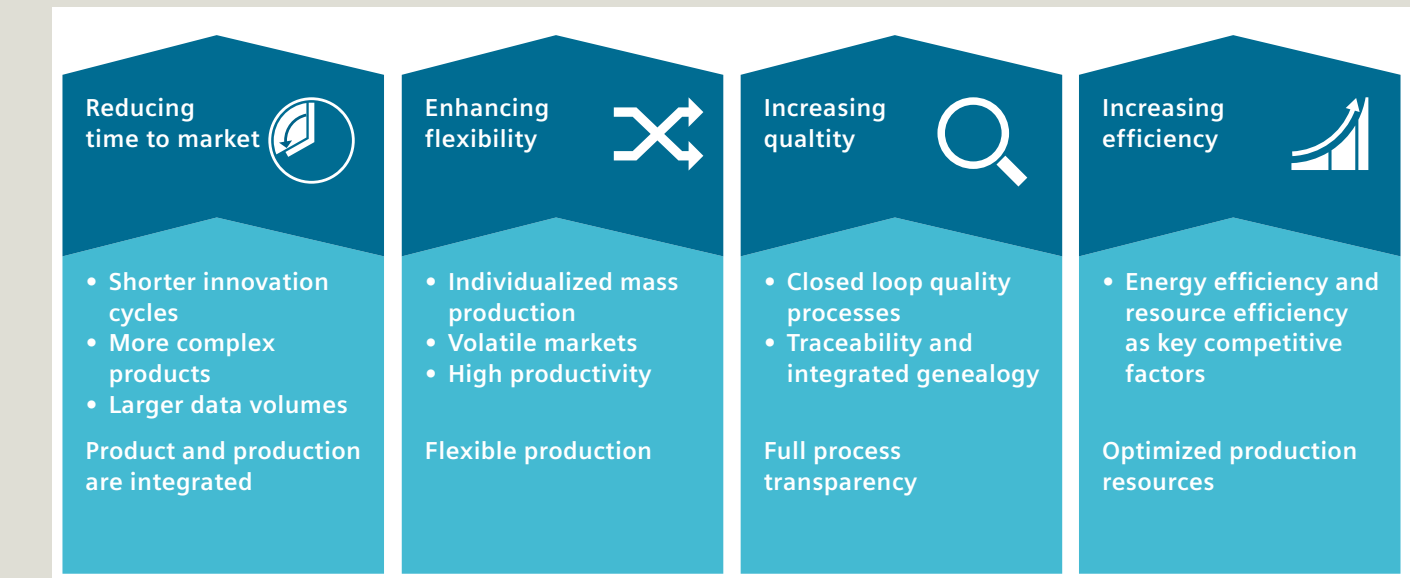
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On the way to the Digital Enterprise – with Siemens

The Internet is now a part of production reality – while posing great challenges for automators and manufacturers: How can I manufacture cost-effectively, faster, and flexibly, even with batch size of 1? How can I minimize my use of resources? How can I help my customers to meet these requirements?

Siemens shows the way by combining Totally Integrated Automation (TIA) with the Digital Enterprise Software Suite.

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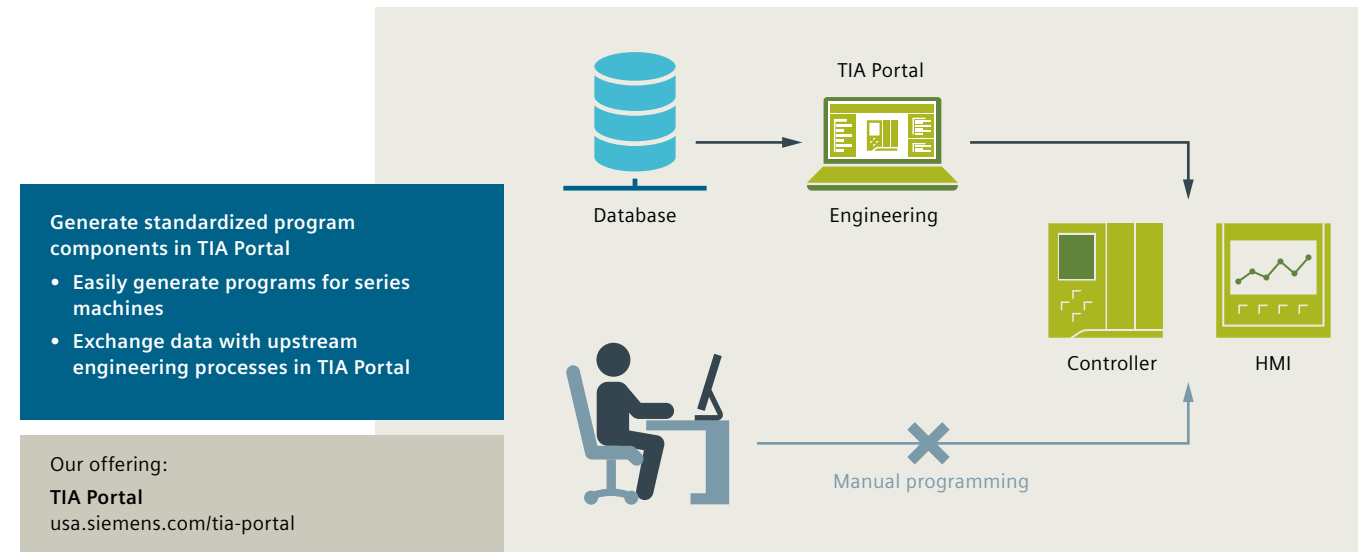


The Digital Enterprise Software Suite comprises the entire industrial production value chain as well as integrating the supplier network.

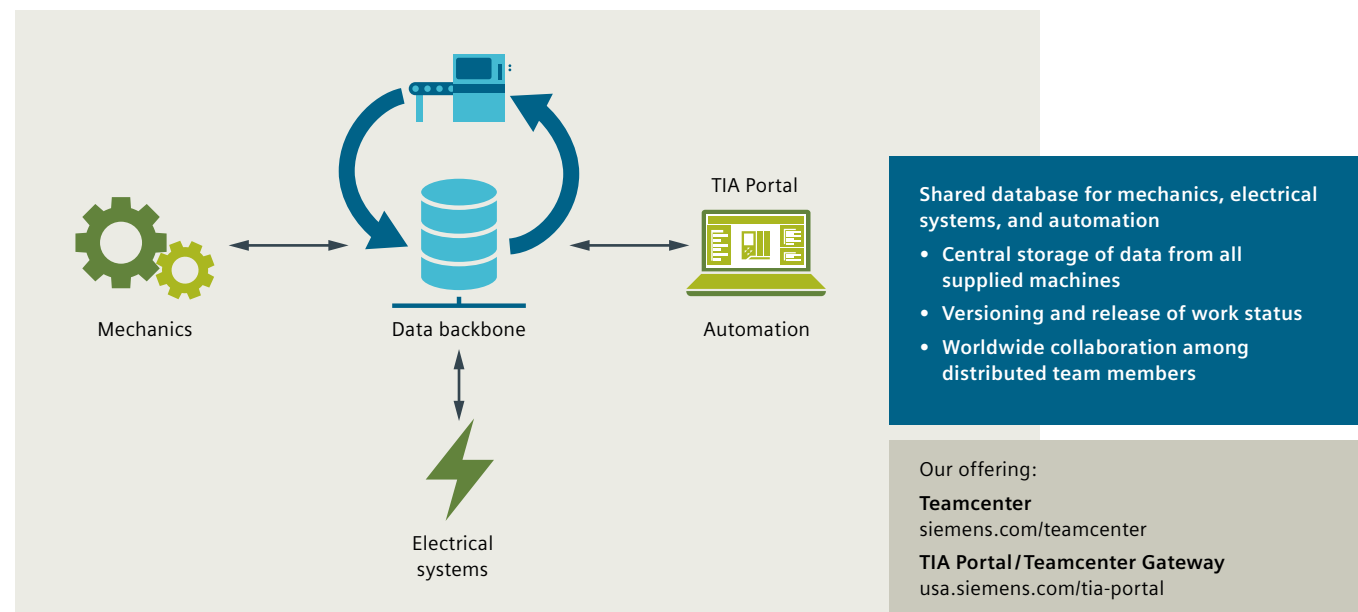
Totally Integrated Automation in the Digital Enterprise

These scenarios will start you on your way to Industrie 4.0 today!

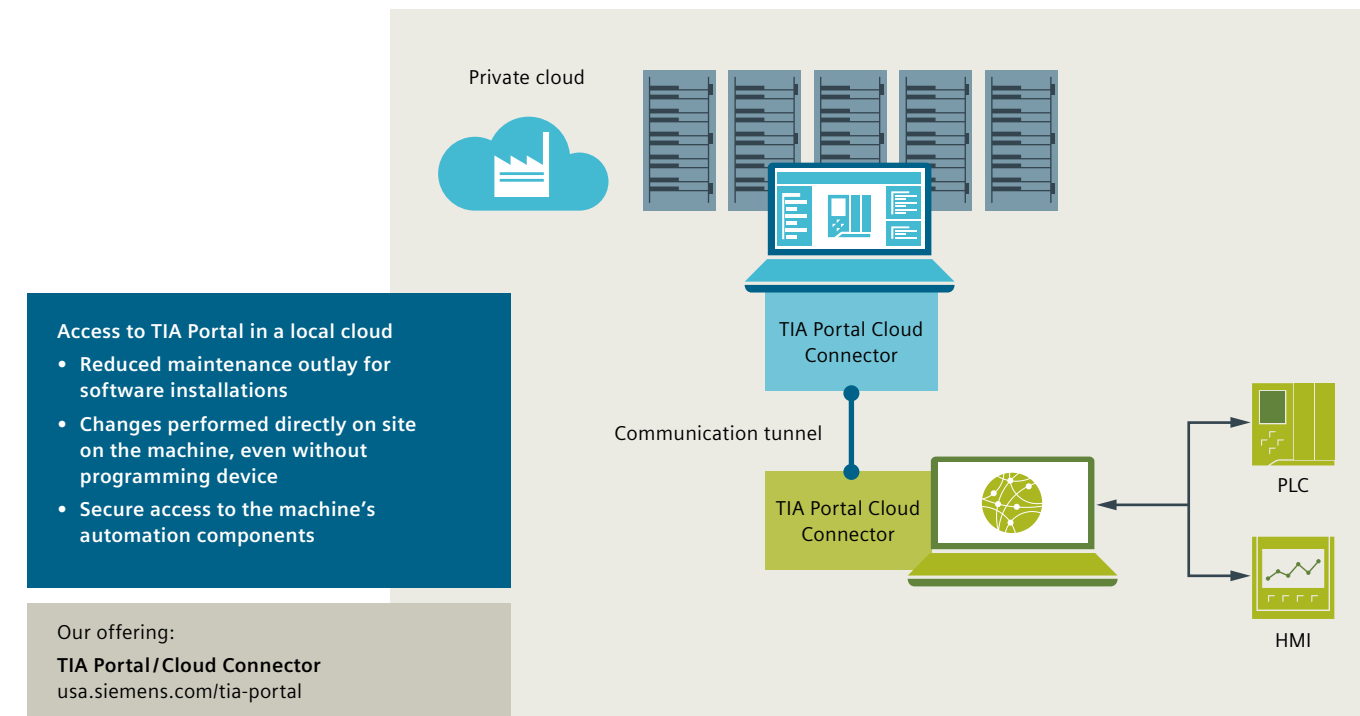
[1] Automatic execution of engineering tasks



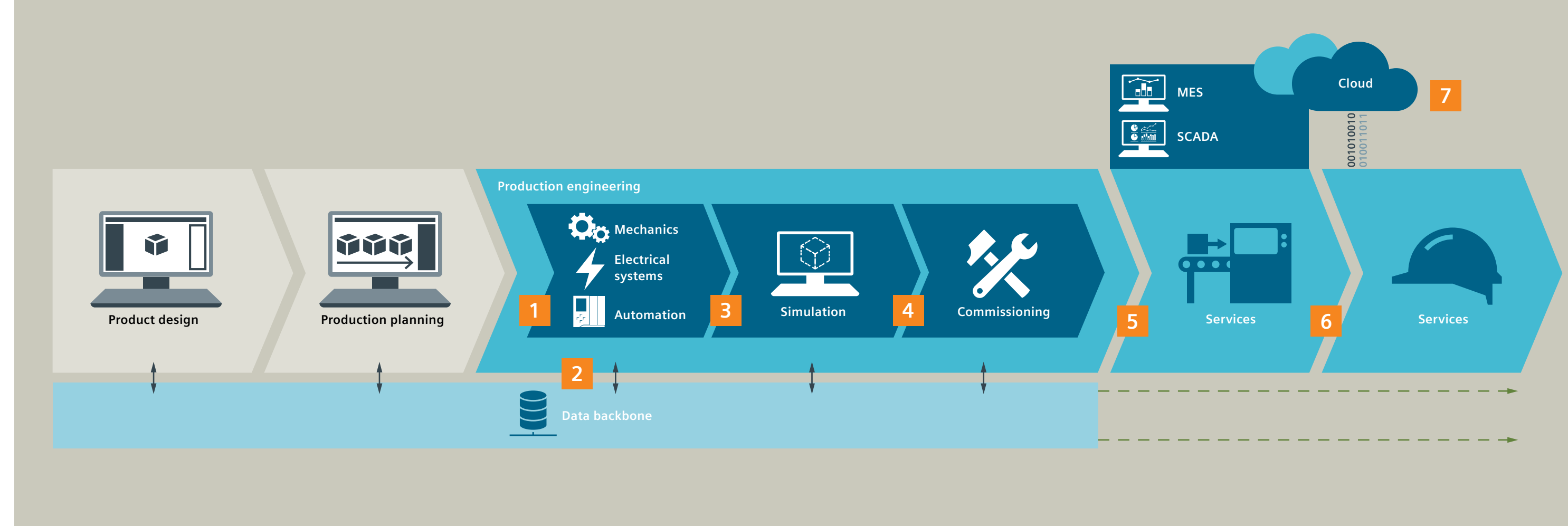
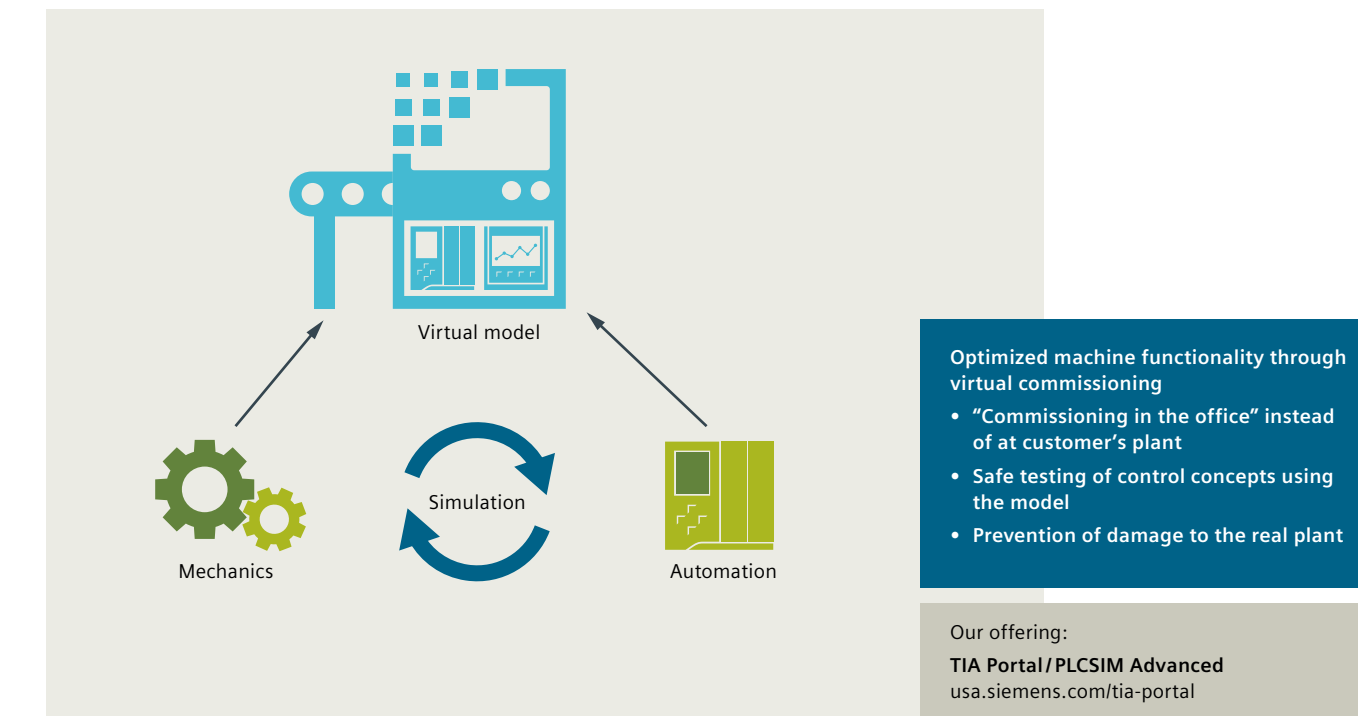
[2] Product lifecycle management connection to automation engineering



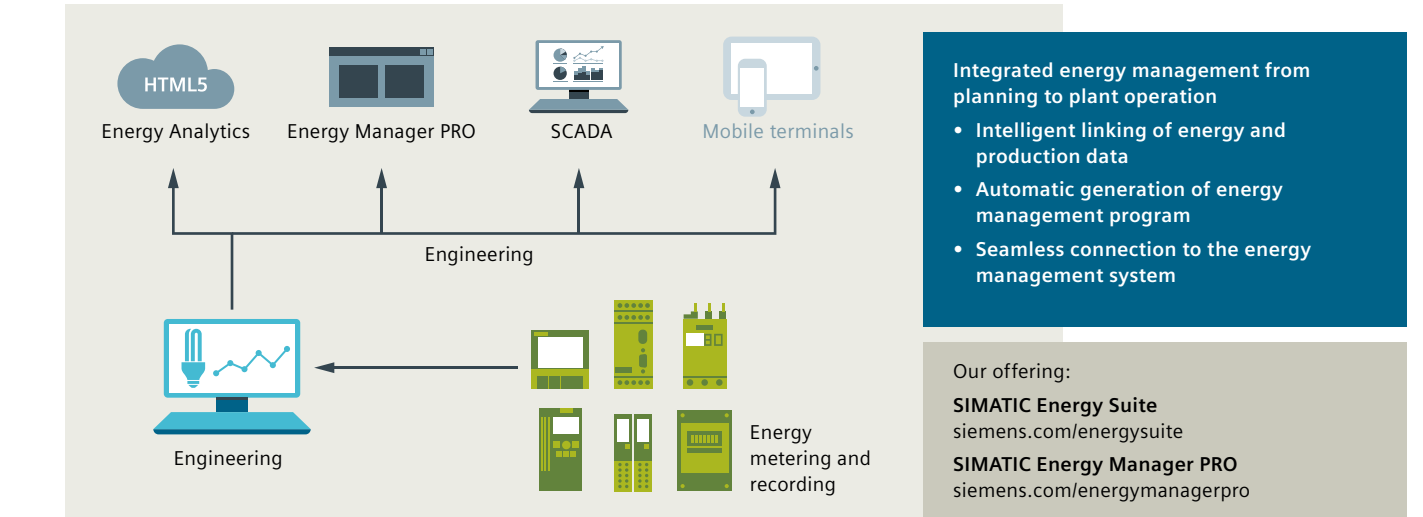
[3] Efficient cloud-based engineering



[4] Virtual commissioning



[5] Integrated Energy Management



[6] Machine and plant security



[7] Data acquisition for Cloud Services

