

Methodology for adoption of Additive Manufacturing

Additive Manufacturing (AM) is creating new opportunities for Designers, Manufacturers and End Users. But making the right decisions is essential to maximize the benefits that AM offers. M4AM (“Methodology for Additive Manufacturing”) will help you seamlessly adapt AM into your process.

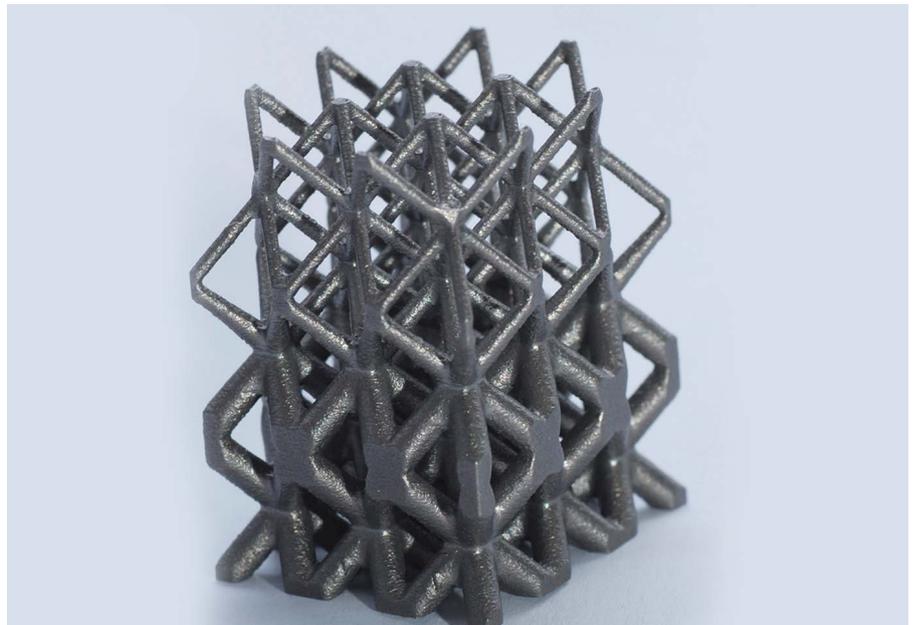
Leverage Additive Manufacturing for your business

Although when thinking about Additive Manufacturing we think of new technologies, additive manufacturing has been used for decades. In fact, the main actors of the different markets and sectors have used it first for prototyping and then for manufacturing small series.

Additive manufacturing technology is rapidly evolving to the point that it is ready for business use. This rapid advance, together with the benefits it can bring to all companies regardless of their size (design freedom, shorter lead times, on demand manufacturing...) will lead to a massive adoption of these technologies over the next few years.

To maximize the benefits that additive manufacturing can offer, it is essential to make the right decisions about the most accurate material and technology, as well as to define in which parts of the value chain additive manufacturing really gives added value. According to various surveys conducted in recent years, the lack of knowledge of these new technologies has been a difficulty for different companies.

Now the automation of decision-making based on the knowledge accumulated by experts in the field will allow accelerating and simplifying the adoption of additive manufacturing allowing these technologies to be available to everyone.



M4AM offers specialized Consulting and Engineering Services for AM adoption and industrialization

Our solution: M4AM

The methodology M4AM helps identify potential process improvements and determine efforts needed for AM solutions implementation within the customer's value chains.

M4AM offers

- Integrated modelling of Engineering, Business and IT aspects of Additive Manufacturing
- Libraries of relevant industry standards
- Templates and methodology for the identification and definition of Use Cases across the customer value chain
- Templates for evaluating the viability of the Use Cases (Proof of Value analysis)
- Advanced supporting tools like Technology Selector and Cost Calculator (Atos tools to support decision making).

The implementation

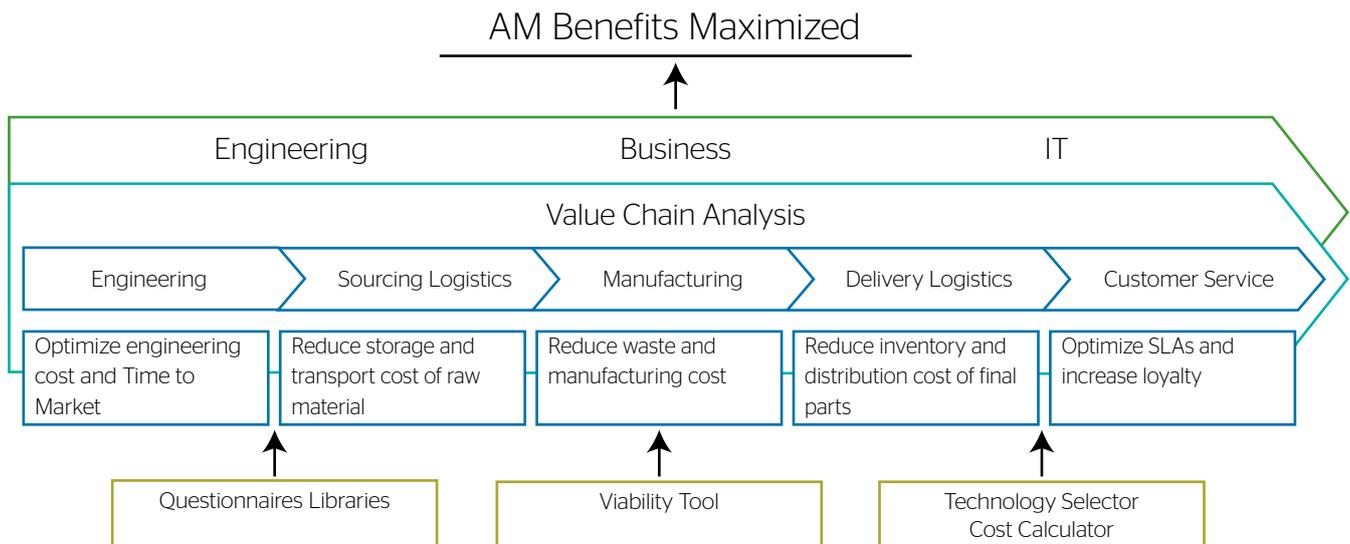
M4AM is deployed in two phases, both supported by questionnaires, templates and workshops with the client:

Use Case Definition:

- Opportunity discovery identifying potential use cases across the value chain
- Defining key levers to improve customer value chain processes through the implementation of AM

Use Case Validation:

- Quantitative and qualitative study to determine the viability of the use cases
- Utilizing specialized AM tools part of the M4AM methodology:
 - Technology Selector Tool to determine the most suitable additive technology.
 - Cost Calculator Tool to estimate the cost per part.
 - Viability Tool to estimate profits and ROI.



The benefits

M4AM offers many benefits:

- Strategy and use case definition for your product/parts catalogue, and directions for additive manufacturing-oriented redesign of parts.
- Documented and prioritized inventory of End2End Additive Manufacturing Use Cases, as part of your digitalization plan.
- Clear roadmap of Use Cases and initiatives for a comprehensive Additive Manufacturing adoption.
- Clear view of gap of capabilities, level of investments required and ROI to be expected.

With decades of experience in the manufacturing market, Atos is the ideal partner to support you in the adoption of additive manufacturing technologies.

For more information: <https://atos.net/en/contact-us>

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