



**KAYTEK**  
smart digital business

# **BUILDING THE FUTURE AEROSPACE INDUSTRY**

Kaytek Platform digitalizes your industrial processes, providing real time control of your production and all the assets (machines, robots, people...)



**Take the decisive step for the digitalization  
of the Aerospace Industry**

Blockchain, Big Data, IoT y AI technologies

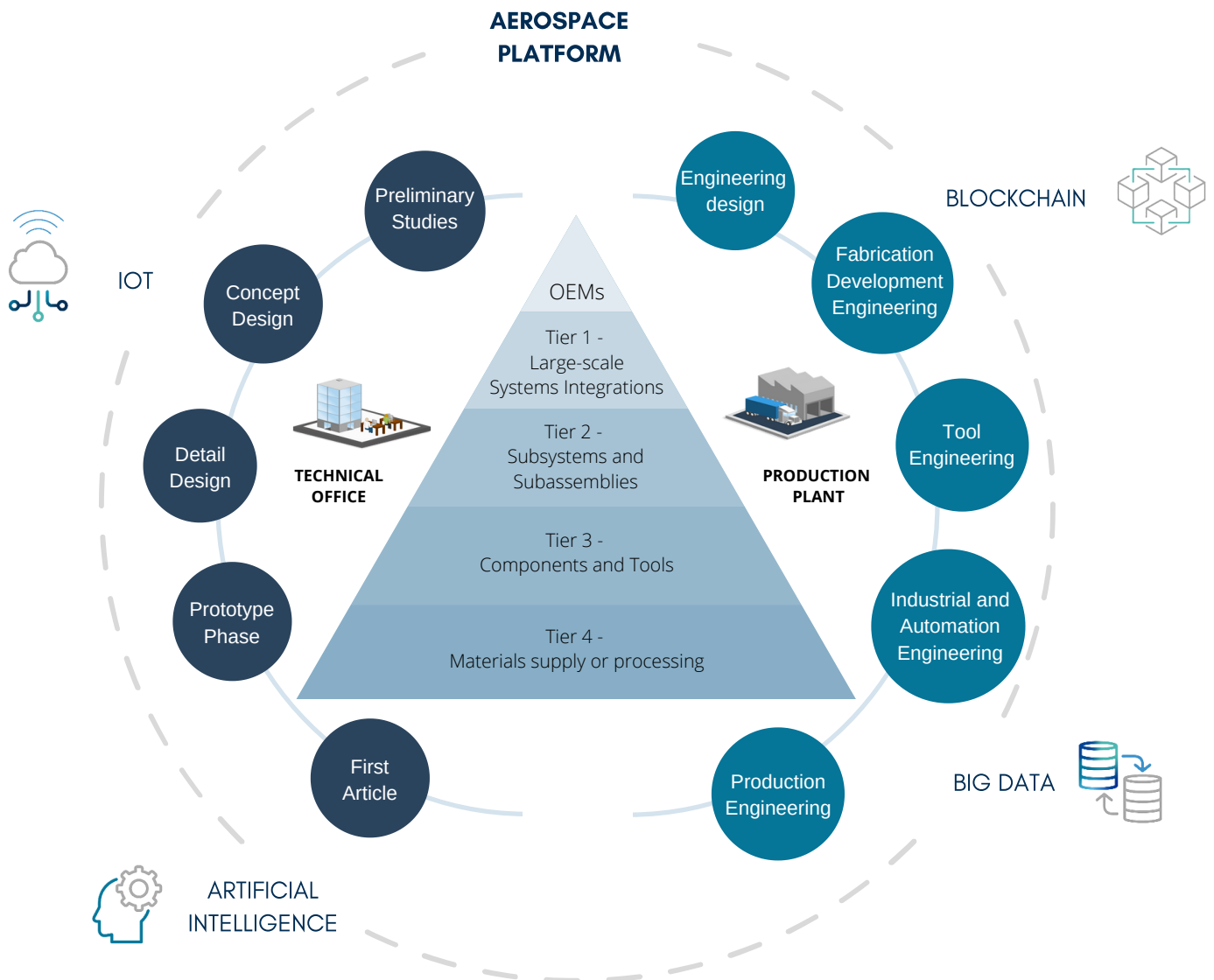
## AEROSPACE INDUSTRY

The aerospace sector is characterized by its innovative aspect and for being the most technologically demanding industry. It involves large engineering and production costs, being a factor to improve for the sustainability of the sector, digitization becomes a key tool.

The improvement of the sector is based on several concepts. More efficient aircraft; new propulsion systems, incorporation of systems that allow a more electric aircraft, advanced materials, or advanced manufacturing and design. In this last section, the existence of a global supply chain is essential, to be capable of managing the processes of the entire life cycle digitally, engineering and production.

Kaytek Platform is specifically developed to meet the current and future needs of the aerospace industry. The use of the latest technologies allows us to achieve this purpose, digitizing the engineering and production processes in a simple way, and associating all the information in a single system.

We will automatically be able to evaluate processes, quality compliance as defined and have a partial and global vision of the product, thanks to the traceability that Blockchain provides us.



## TECHNOLOGIES



### BLOCKCHAIN

Kaytek is the ideal solution to make industrial environments more efficient, especially those where multiple companies work together to build a product. The processes become digitally defined and certified according to the standards of the regulations, being stored and managed by Blockchain and Smart Contract technology.

The execution of the works faithfully follows the process with its complete traceability, which allows us to ensure that they are carried out according to the regulations, giving confidence to all the actors. The technology is applicable to any type of process; engineering, manufacturing or maintenance.

Internet of Things (IoT) collects data from any type of asset; machines, robots, humidity sensors, tools or raw materials. This allows us to have a complete traceability system for assets, identifying alerts, registration and management.

Another main characteristic is obtaining the data in real time, without alteration and avoiding human error. The data is integrated directly into the manufacturing processes. Quality measurements, compliance with standards and other requirements are automatically executed, streamlining processes and decision making.



### IOT



### BIG DATA

Industry 4.0 is making companies more complex and interconnected. The new generation of machines and robots generate huge amounts of data that traditional systems cannot handle.

Knowledge becomes an essential tool for correct decision-making. Kaytek's Big Data technology allows us to process large volumes of data in real time, providing us with a current view of our production processes and indicators.

Machine learning, pattern creation and anticipation of problems are some of the great future challenges of the industry. Another great challenge is the sequencing of jobs in an optimal way or the improvement of production processes.

With the data obtained through the platform, we are able to generate mathematical models that are applied to the industry in an autonomous way. We provide a tool capable of anticipating problems, that trains the improvement of processes and use of resources.

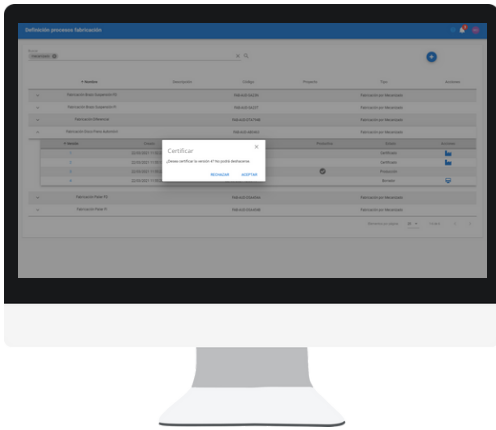


### ARTIFICIAL INTELLIGENCE

## HOW DOES KAYTEK PLATFORM WORK

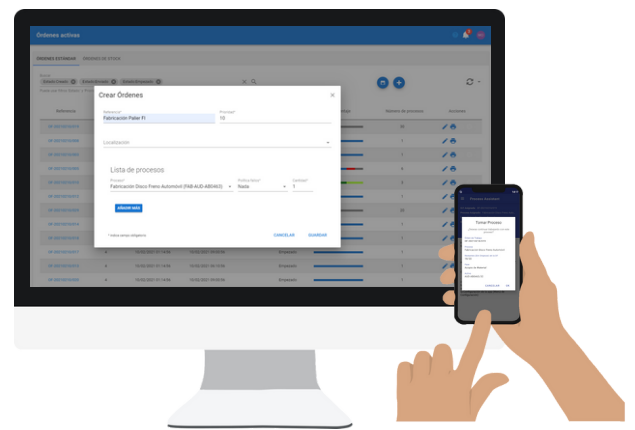
### Fase 1: DEFINE

- Intuitively through the management system, the client defines the manufacturing processes with their phases, steps and assets involved; machines, robots, people...
- The processes become digital, eliminating paper and allowing any type of change and versioning.



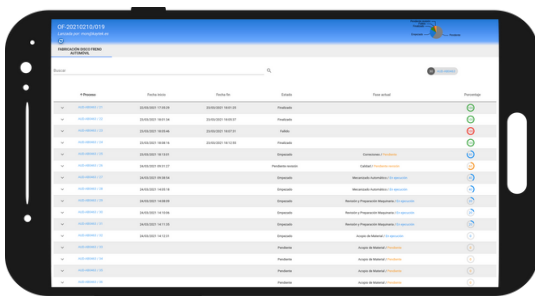
### Fase 2: CERTIFY THE PROCESS

- Once the process is defined, it is certified by authorized personnel using their Blockchain digital identity.
- Blockchain Smart Contract technology guarantees the immutability of the data and the execution of the process as specified.



### Fase 3: DEPLOY

- The client creates the manufacturing and work orders by choosing the processes to be carried out.
- Jobs are automatically generated and sequenced over time by the platform, using artificial intelligence to optimize production.



### Fase 4: EXECUTE

- The instructions are automatically sent to the workstations. People, machines and robots are guided without human intervention to achieve manufacturing objectives.
- IoT and Artificial Intelligence technologies monitor any type of asset in real time, showing the complete traceability of the plant's operations.

### Fase 5: MEASURE THE RESULTS AND IMPROVE

- The Big Data and Artificial Intelligence module constantly evaluates processes and jobs, providing a global vision of what is happening in our industry.
- Kaytek Platform facilitates optimized decision making for the improvement of production processes, product quality and early resolution of incidents.



## KEY POINTS



**Collaborative Work**



**Traceability**  
Controlling pieces  
life time

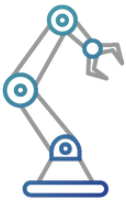


**Certification**  
Ensuring the control of  
the carbon footprint



**Automatization**  
Reducing the risk of failure, to  
ensure the quality of the pieces

## MAIN FUNCTIONALITIES



Automatic collection of  
information from machines  
and robots  
**IoT**



Real time data & Dashboards  
**OEE - Quality- Lead Time**



Automatization  
y digitalization  
**Paper elimination**



Control & reduction of the  
Costs and Stock  
**Supply Chain**



Optimization of the planning  
**Artificial Intelligence**



Geopositioning & full  
traceability of the work, tools,  
workers and equipment



Worker training, reducing  
manual labors



Changes in production and  
universal access from  
anywhere in the world





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