



Logistic Support 4.0

Digital transformation applied to system maintenance

Indra's capabilities and experience in new disruptive technologies and digital transformation enable the user experience to be improved by applying:

Improved data quality

- Helps to complete and repair errors.
- Consolidates redundant information.
- Helps data referencing and data enrichment.

Real time information

- Real time monitoring, control and decision-making.
- Increased operability.
- Cost savings.

Predictive analysis with Artificial Intelligence

- Large volumes of information.
- Trend analysis.
- Predictive and error detection.
- Knowledge management.
- Multiplatform learning.

Connectivity and Cybersecurity

- Always-ON systems.
- Multiple connected platforms.
- Securing and segmenting the information provided.



The digital transformation in Defence

Operational Concept and Applications

Smart configuration control

- Automatic identification of the configuration of the installed equipment.
- Digital Twin.
- Use of augmented reality to provide contextual information about the equipment.
- Automatic updating of maintenance plans, based on the operating hours and conditions of each piece of equipment.

Smart BITE

- Real time knowledge and diagnosis of the status of a piece of equipment.
- The application of data analysis

techniques, trend study and the development of artificial intelligence algorithms (machine learning/deep learning) prevents catastrophic failures and enables predictive and condition-based maintenance.

System monitoring

- Use data from device's sensors and/or monitoring parameters with non-intrusive sensors.
- Sensing motors and electric machines functional parameters.
- Parameters recorded and monitored in control centers.

Tele-assistance operation and maintenance support

- Virtual and Augmented Reality.
- Real time remote assistance.
- Use of wearables devices.

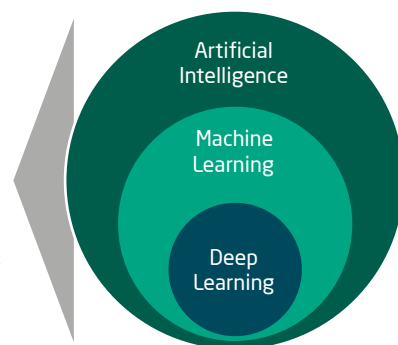
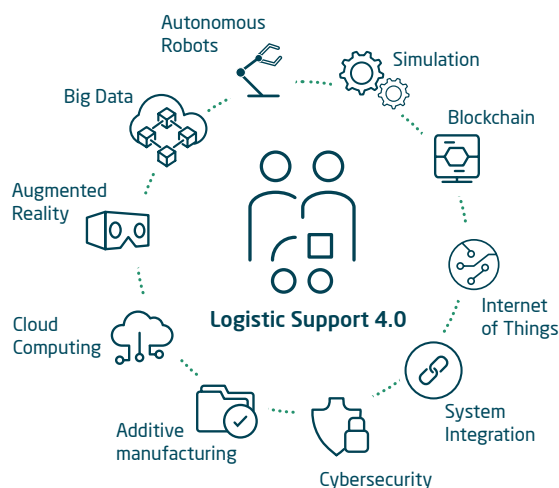
Smart Supply

- Total traceability: real time visibility and control of logistics flow.
- Logistical Intelligence: predictive demand models.
- E2E integration between actors: shared process, Blockchain.

Natural Language Processing

- Classification of faults with techniques.

The human factor, key to digital transformation and the integration of disruptive technologies 4.0



indracompany.com

Avda. de Bruselas, 35
28108 Alcobendas
Madrid, Spain

T +34 91 627 10 00
infodefence@indracompany.com

Indra reserves the right to modify these specifications without prior notice

indra