VERUM

HYPESCALING SOLUTIONS

VERUM is a management and orchestration platform for data processing chains that aims to enable and simplify the execution of complex analysis of large amounts of data, performed both in real time and in post-processing mode. These types of tasks usually require dedicated infrastructures, while **VERUM** enables the massive execution of processing in a short time allowing to carry out complex analysis that alternatively would require long processing times.

VERUM is a proprietary AI solution system that allows to leverage computing capabilities within an Enterpise.
Hyperscale processing is becoming a pervasive technology and even more Enterprises seek to leverage the benefits of applications that rely on AI, ML, IoT spanning from Cyber Security up to Business Intelligence.

VERUM enables the management of hyperscaling applications applications that consumes high quantity of computing resources.
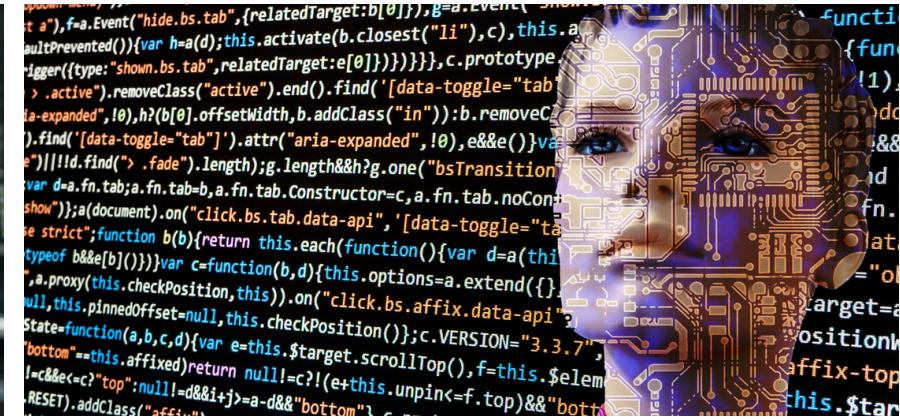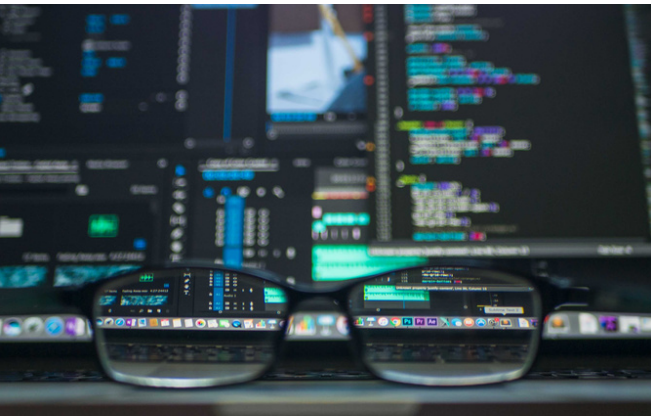
VERUM implements a modular and scalable architecture that adapts to the needs of a wide audience of users, since it allows the use of computing resources with an on-demand approach, thus exploiting the downtime of internal computing resources, or using resources external only when required and for the time necessary.

VERUM allows you to create and control the execution of the individual steps of a data processing by allocating them to specific resources of which the user can choose the main characteristics (eg: CPU core, RAM, Memory). In this way it is possible to modulate the execution with respect to needs which may be:

- the shortest execution time,

- by task priority.

- cost requirements.

VERUM was created to respond to the need of analyzing big amount of satellite imagery of environmental monitoring, but it was design with a "general-purpose" approach so that it can be applied in different operational contexts.

Geo-Intelligence

Near Real Time analysis of multispectral images generated by the COPERNICUS satellite program starting from the raw data up to the creation of thematic maps for georeferenced decision support systems.

Cyber Security

Solution for analysis of data traffic based on Artificial Intelligence which, through self-learning models, able to identify potential threats and improve, day by day, the accuracy of the forecast.
Implementation of effective solutions for threat and vulnerability discovery and cyber security risk assessment.