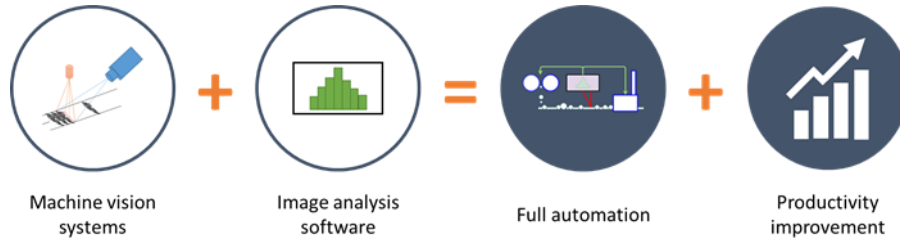


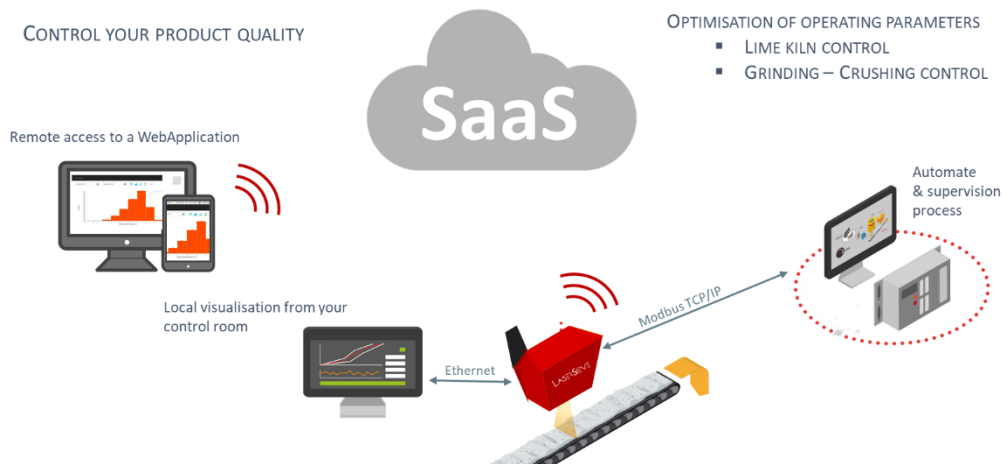
# “Enter into the digital stone age”

## The project “LaserSieve M2M”

In today's world, the raw material industry is progressing towards digitization and automation of their production processes. Depleting grades, market fluctuations and growing competitiveness in the market have prompted the related companies to look out for new technologies to increase their productivities for sustaining their businesses.



LaserSieve M2M project aims to help raw material industry to jump into the “Industry 4.0” by using a connected technology, LaserSieve<sup>1</sup>, and bringing IoT tools to monitor a crushing plant. Indeed, size reduction operations (Crushing/Grinding) are very critical and are considered to be the most energy intensive in mining and mineral processing industry (4% share of the world's total electrical energy consumption). The resultant particle size distribution dictates the subsequent processes. The current practice to monitor them is manually sampling and screening the material. However, this method is often considered as impractical especially when quick feedback is required for process control. The collection of samples and subsequently performing the sieve analysis generally have a longer response time. Consequently, it is necessary to have an agile and reliable technique for assessing the particle size distribution.



<sup>1</sup> LaserSieve technology is a non-intrusive and non-disruptive online vision system that provides continuously and in real-time the throughput, the size and the shape of bulk rock fragments scrolling on a conveyor belt in harsh industrial environments such as quarries or mines.

