



<p>Brief Description of the Challenge Sponsor</p>	<p>Renault Group is at the forefront of a mobility that is reinventing itself. Renault Group comprises 4 complementary brands - Renault, Dacia, Alpine and Mobilize - offering sustainable and innovative mobility solutions to its customers.</p>
<p>Context of the proposed challenge</p>	<p>The logistics process covers managing raw materials, coordinating suppliers, production planning, storage, and distribution. A good system optimizes timing, avoids accumulation, and reduces costs. Traceability is crucial to ensure vehicle quality and safety, making it easier to identify issues and conduct recalls if necessary.</p>
<p>Description of the challenge</p>	<p>A low-cost system is required to enable the most accurate possible traceability (in time and place) of all parts that an automotive factory receives for vehicle manufacturing.</p>
<p>Key words</p>	<p>Inventory management, traceability, logistics, efficiency, supply chain</p>
<p>Type of solution</p>	<p>The solution must ensure the traceability of pieces using both software and hardware references. It is imperative that this is achieved at 15-minute intervals worldwide. The solution must be capable of functioning within a temperature range of -40°C to 300°C. It is essential to utilize recyclable materials and facilitate easy recycling, while minimizing the energy consumed by the solution throughout its entire lifecycle. In case of the piece is being through a uncommunicated rural or mountainous area, the solution should be able to estimate the position or a system to inform the user of that situation, and when would be able re send the data of trace</p>

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