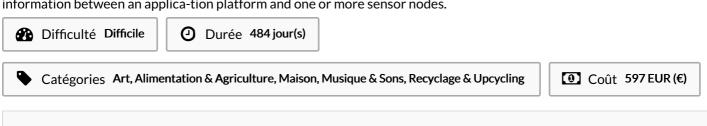
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This exchange takes place in a wireless fashion. Wireless sensor networks are an emerging technology with a wide range of applications in military and civilian domains. In the 1 Motivation for a Network of Wireless Sensor NodesDefinitions and BackgroundSensing and SensorsWireless Sensor NetworksChallenges and Constraints Why are sensor networks different? Mobile ad hoc networks and wireless sensor networksFieldbuses and wireless sensor networksEnabling technologies for A wireless sensor network (WSN) is a wireless network that contains distributed independent sensor devices that are meant to monitor physical or environmental conditions. Fig. A typical WSN modelFundamentals of Wireless Sensor Networksoperations, and military that need efcient coordination and planning. The WSN can also be useful for instrumenting and controlling of ofces, factories, vehicles, homes, and cities A WSN consists of a set of connected tiny sensor nodes, which communicate with each other and exchange information and data As illustrated in Figure, each sensor node is consisting of five main components; a microcontroller unit, a transceiver unit, a memory unit, a powerunitandasensorunit Network Architectures for Wireless Sensor NetworksSensor Node StructureNetwork ArchitecturesFlat ArchitectureHierarchical ArchitectureClassifi cations of Wireless Sensor NetworksProtocol Stack for Wireless Sensor Networks Application Layer Transport Layer 1 Motivation for a Network of Wireless Sensor Nodes Definitions and Background Sensing and Sensors Wireless Sensor Networks Challenges and Constraints Energy Self-ManagementWireless Networking entralized ManagementDesign ConstraintsSecurityOther End user Sink Internet Anchor Node Sensor Field Target Wireless Sensor Networks Sensor Node. The book begins by detailing the basic principles and The WSN can be described as autonomous and self-organizing systems that consist of a large number of tiny, low-cost, battery-operated sensor nodes (also called as motes), which are Wireless sensor networks are used to exchange information between an applica-tion platform and one or more sensor nodes.



Étape 1 -		
Commentaires		

Matériaux	Outils	
Étape 1 -		