Option 1 **An SNMP Management Station for Wireless Indoor Network**
The growth of wireless networks and the Internet of Things (IoT) has the potential for making building more pleasant and energy efficient places to live and work. Several protocols exist for wireless sensor networks (ZigBee, Bluetooth, etc.). In this project you will examine whether SNMP is a good candidate for managing an indoor wireless sensor network. The question: is it practical and useful to manage an indoor wireless sensor network using SNMP?

Option 2 **Big Data & Network Management**
‘Big’ Data requires distributed computing, coordination across different clusters and the complex management of processing, memory, storage, and other resources. Tools such as the Apache Hadoop stack (including Yarn) facilitate the management of distributed processing for big data. This work would look to examine the network management (and systems management) of a big data cluster using SNMP. The objective is to examine the Bigdata specific aspects of network management, to suggest and characterise the impact of this type of computing on management. The question: How do we manage Big Data as part of an overall network?

Option 3 **Android Network Management**
One platform that has found significant success with portable computing is Android. This project would examine the use of Android in network management. The question: Can you manage a network from your phone? Is it a good idea?

Option 4 **Network Management and Social Networks**
While network management is principally concerned with the management of telecommunications networks and data networks, there are similarities with other networks, such as networks of people. The objective of this project is to examine online social networks and to apply network management principles to them. The question: Is there a benefit to treating a social network like a telecommunications network?