Good afternoon, teachers.

My name is Du Sicong. And my title is A Semantic Annotation System for Web of Things.

First, I would like to introduce the concept of Web of Things with the help of the OSI seven layers model. Just like what the Web in the application layer is to the Internet which is at the network layer, Web of things provides an Application Layer to simplify the creation of Internet of Things applications. Instead of introduce brand new standards, Web of Things reuses existing web patterns and protocols to make things in real world part of the World Wide Web. Thus, we can identify and manage the devices more easily.

Then, I need to introduce the concept of semantic annotation. Semantic annotation aims at generating necessary metadata to describe the data in WoT applications. Of course, the metadata is valuable only if it is machine understandable and can be exchanged as knowledge on the Web. So, actually, the purpose of semantic annotation is to construct a structural knowledge graph which can extract the semantics in WoT applications in a common data format.