

**Comenius Regio 2012-2013**

**Ref. 2012-1-RO1-COM13-22682 2**

**Partner Region 2**

Secondary Education Authority of Karditsa Prefecture, Greece,

<http://blogs.sch.gr/plinetks/robotics>

## **Activities with Lego Robots**

### **1. Studying the following :**

- Introduction to programming with Lego Mindstorms NXT, K. Dimitriou, G, Korres (in Greek, the book included in the pack with the Lego NXT equipment)
- [Instructions to software \(in Greek\)](#)
- [Working sheets with Lego Mindstorms](#)
- [Working sheets from a former Comenius project](#)
- [Activities with NXT](#)

### **2. Practicing with the following specific examples from tutorials.**

- [MiniBot](#)
- [Building a More Versatile Robot](#)
- [Move](#)
- [Loops](#)

### **3. Creating programs :**

- Lego Wedo, programming with [scratch](#)
  - [Aligator](#)
  - [Train](#)

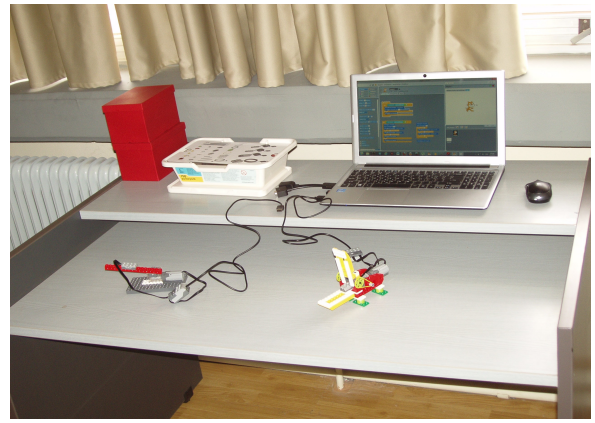
The advantage of 'scratch' is its ability to change the language of a program (eg. From Greek to English, from English to Greek, from Greek to Roman, etc.). This characteristic gives the opportunity to teams from different counties to cooperate.

- Lego NXT, programming with NXT Mindstorms
  - [Test](#)
- Lego NXT, programming with Enchanting
  - [File \(image1, image2, image3\)](#)

### **4. Teaching robotics to teachers :**

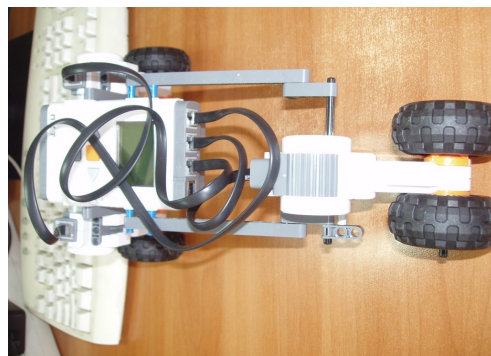
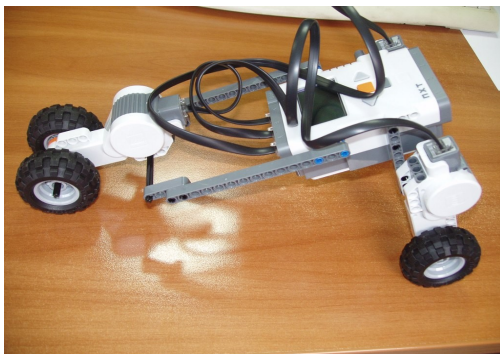
A seminar took place in 9/2/2013, in Karditsa, where 43 teachers attended a lesson in robotics. ([Announcement](#))



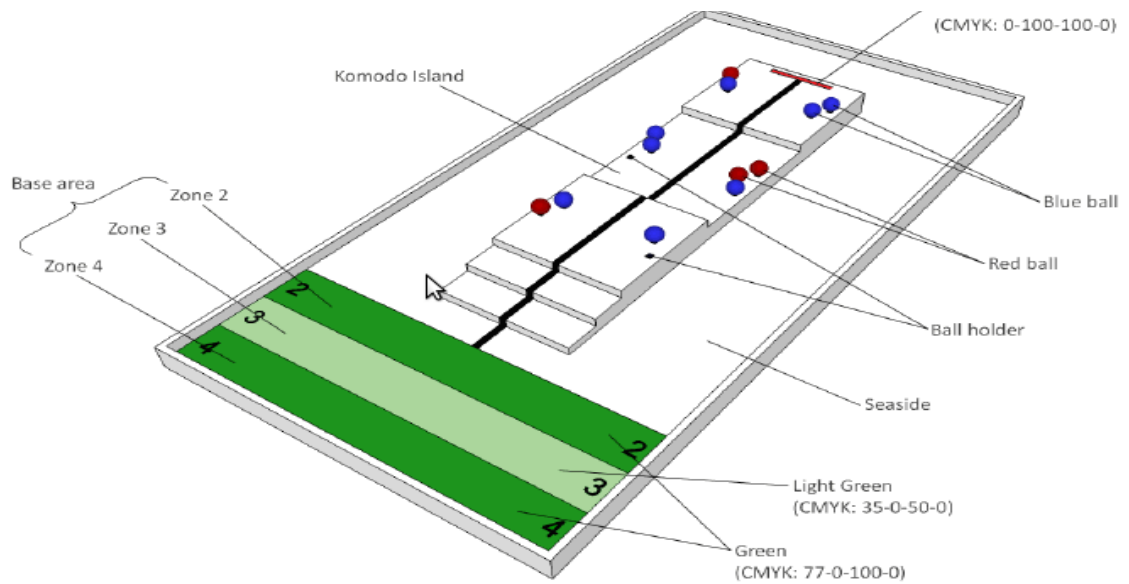


5. **Teaching robotics to students :**

([announcement](#)) Working with students in order to participate to the Regional competition of educational robotics (Larisa, Greece, 27/4/2013) ([Competition](#), [Annouement to school site](#))



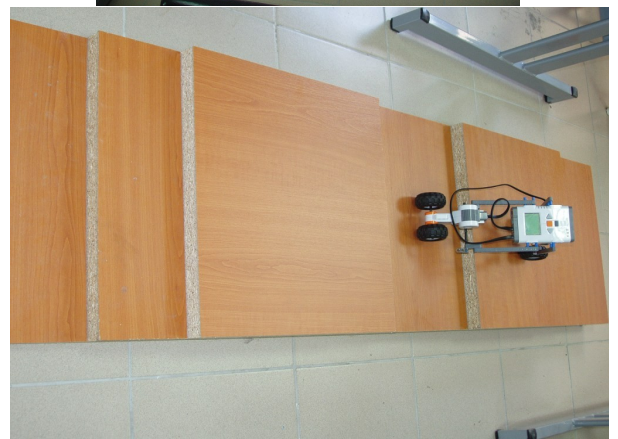
## World and National and Regional Competition stage



<http://www.wrohellas.gr/index.php/comp2013/chall/cl>

In order to prepare for the competition, we got some pieces of wood (thanks to an offer by a local wood industry)

Our stage



**6. Impact to other schools apart from these which participate in the Comenius project :**  
The Lego robots equipment used for teaching educational robotics in schools according to the [primary school syllabus page 45](#) and [secondary school syllabus page 44](#)).

**7. Impact to local region :**

- Publishing to local region the availability of Lego robot equipment ([announcement](#))
- The Lego robots equipment used to inform parents about educational robotics. A seminar in 'Internet Safety' held in our town during March – April 2013. A section of it concerned robots ([announcement page 45](#)). The instructor of the specific section, concerning the primary schools was Mr Giorgos Vasilopoulos who was the person responsible for the implementation of this Comenius Regio project.