# MaFEA Overview of tool Lego Spike

MaFEA – Making Future Education Accessible

PR2 – Guiding successful adoption

# What Lego boxes are in the MaFEA project?

The MaFEA project has been using 5 sets of Lego Education SPIKE Prime Set



# Why were these boxes selected as a tool for MaFEA?

To investigate if robots are an extra value for education? What would be the best way for students to learn about robots, how robots work and how to use and to programme them.

# The Lego Spike sets were selected due to these reasons:

- Interest from the teachers in the partner schools;
- The popularity of the tools, ensuring a large amount of experiences available to use on the tools;
- Existing positive experiences from partner schools;
- Positive price / value ratio;
- Availability according to the project timetable.

# Learning goals that could be addressed:

- The students use the basic CNC machine to print. (programming);
- Students improve the design of the basic CNC machine. (engineering);
- Students add extra input or output features to the basic CNC machine. (engineering + programming).

# Tutorial links

- Starting to work with Lego Spike Prime
- Getting the right software for Lego Spike Prime
- Hands on with Lego Spike Prime
- Starting up your Lego Spike Experience

# Lesson plan links