# Deliverable D4.7

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Abstract

After two years of work developing CADMAD technology we are ready for editing of partner DNA libraries. The following deliverable is a prototype DNA editor that can perform DNA editing projects and additionally execute self monitoring operations to gauge its accuracy. We deliver this accomplishment both on a liquid handling robot and on a microfluidic electro-wetting cartridge. The prototypes will be delivered through two full demonstrations to reviewers and CADMAD partners during the review meeting on the 21st of March.

Keywords:
Prototype, demonstration, robot, electro-wetting device

Introduction

a. Aim / Objectives
   To demonstrate the robotic and Microfluidic prototype DNA editors

b. State of the Art
   We know of no automated and fully integrated DNA editing systems in the art

c. Innovation
   The prototype is a significant step towards establishing off-the-shelf DNA editors

2. Implementation

Two independent programs will run, one on the robotic liquid handling robot and one on ALL’s electro-wetting based Microfluidic device. Both programs will demonstrate real scripts that we use in DNA editing. The robot will run a program for self monitoring and the Microfluidic device will run a CPA DNA editing program.

3. Results

Will be presented in the demonstration

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7 Keywords that would serve as search label for information retrieval