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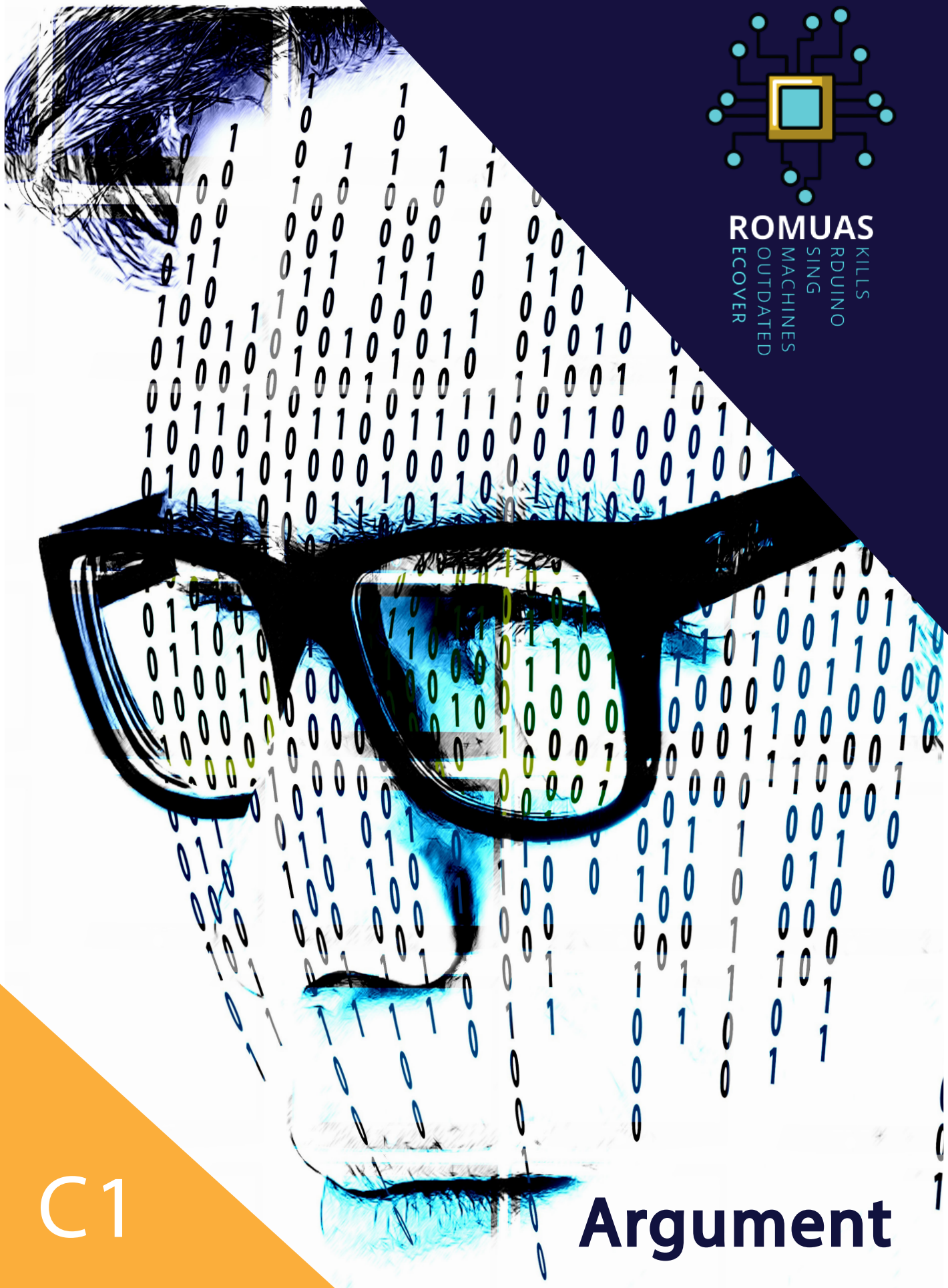
ROMUAS

KILLS
RDUINO
SING
MACHINES
OUTDATED
ECOVER



C1

# Argument

Expert program toolkit

PR1

## 1) Argument

The whole community faces many challenges in today's globalised society, both due to digitalization and climate change. All this contributes to the rapid change of the labour market, as well as the skills and abilities required. It is necessary to strengthen human resource skills, competitiveness and employability, prioritising education as the engine of society's development.
Nowadays, intelligence, innovation and creativity have become relevant reference points. They represent a guarantee of future prosperity for the whole world. We live in a world where they demand not only high value products and markets, but, increasingly, high-value skills. To ensure a knowledge society, excellence should be ensured at all stages of the educational process, to permanently update the skills base of the population according to needs, and to create a social environment, economic and regulatory environment that can stimulate research, creativity and innovation.
The purpose of the Expert program toolkit is to create a training material that provides the target groups of the project with high quality knowledge and skills needed to modernise existing machineries in order to make them “smart” and more adapted to the current requirements of the manufacturing industry.
The toolkit consists of:

1) a theoretical part and a practical part containing tutorials and videos on how to recover outdated machines (devices) using Arduino technology
2. a presentation of social innovation describing briefly the development of technology and then focusing on social skills and the impact of technology on those skills ending with interactive methods of developing them
3. a theoretical presentation of entrepreneurial competences and interactive methods to develop them
4. considerations on green skills, circular economy, advantages and benefits of refurbishing outdated devices and using them and interactive methods of developing the green skills

The people that will follow the first part of the program will have the chance of learning through relevant examples how to recover outdated machines that would otherwise be discarded using Arduino technology. The suggested examples would make them aware of a few possibilities of the uses of Arduino components and software and would spark their interest and creativity since the use of the aforementioned technology is limitless.
Those that will follow the second part will have the chance of finding some considerations on the development of technology and by answering the questions in the questionnaires and interpreting the results will have the chance of evaluating the level of their social skills and spotting the aspects that need to be improved.

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