



TRANSPORTA
UN SAKARU
INSTITŪTS

iDEA HUB

ArgentoLab

IDEA PROPOSAL: *Software interface for Autostainer*

NATIONAL
DEVELOPMENT
PLAN 2020



EUROPEAN UNION
European Regional
Development Fund

INVESTING IN YOUR FUTURE

Company profile

Industry:

- IT, Innovation's development

Directions for innovation solutions

- Biomedicine technologies
- Complex digitalization
- Blockchain solutions

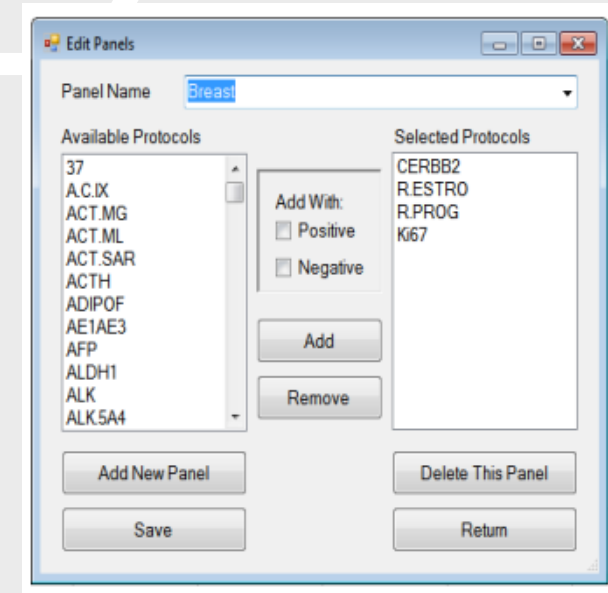
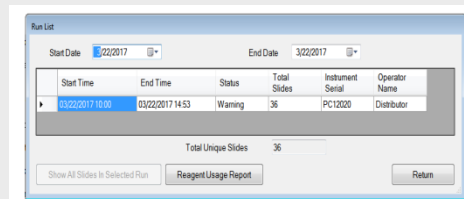
BACKGROUND

- The idea of innovation is an automated system, which provides the complete labeling cycle of proteins of interest (method: immunohistochemistry) and nucleic acids DNA or RNA (method: in situ hybridization) in biological tissue material, allowing following microscopic analysis. Traditionally the labeling (often called 'staining') is performed by laboratory specialists and may take several days to complete.
- Very few automated labeling systems ('auto-stainers') present on market either utilize outdated technologies or are designed for very specific workflows, which makes them inflexible, very expensive and often unreliable. We are going to combine most efficient modern technologies into completely innovative architecture of the auto-stainer, providing significant improvement of the quality of processes, flexibility, and user experience.



PROBLEM:

- The existing software, and in particular the user interface, is a complex, not always effective tool for interacting with the autostainer system.
- Existing analogues have certain limitations in functionality. Another problem is the need for some (often complex) training to use, the lack of understandable visualization and workflow.



CHALLENGE:

- The intuitive and interactive user-centered software specifically designed to ensure the improvement of the workflow of the staining protocol preparation, testing and staining process itself

