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LARGE SCALE INFORMATION
EXPLOITATION OF FORENSIC DATA

2nd Workshop Outcomes

LASIE Project

FP7 - SEC-2013.1.6-1 - Framework and tools for (semi-) automated exploitation of massive amounts of digital data for forensic purposes – Integration Project

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Main outcomes of the 2nd LASIE workshop

The most relevant outcomes brought by the second workshop can be identified in:

1. **A deeper awareness around the LASIE project:** and a **better understanding of the LASIE project aims and functionalities by end users** (mainly investigators and forensic analysts). Thanks to the dissemination of the project event in the various channels, a large number of potential end users have been made aware of the project, its objectives and the benefits introduced. Furthermore, the awareness and the knowledge generated in the training session allowed to gain the interest around the project from the organisations got in touch. Indeed, the second training session was successfully used to present, demonstrate and teach the tool usage and some of the most relevant LASIE tools designed for the three use cases. In particular, evidence search, text analysis, 3D crime scene reconstruction and super recognisers tools have been demonstrated besides the three use cases. The features of the Graphical User Interface have been thoroughly described, showing the sequence of actions performed by the user during an investigation. During the practical session, end users have been able to interact with the software under the supervision of one of the LASIE experts. This allowed end users to familiarise with the current features of the system and provide relevant feedback to the consortium on the usefulness and usability of the tool. End users have posed multiple relevant questions which will allow to further refine the tool functionalities and usability. Additional feedback has been provided to the consortium by means of feedback cards designed for the different use cases, as well as the feedback questionnaire. Among outcomes, some of the attendees expressed the desire to get more involved in the project; therefore further contacts for keeping them updated on the progress have been maintained. One of the experts representing the Police of Turin (Italy) expressed the interest in continuing to be involved in the project and provide its availability to host in Turin's premises the last LASIE workshop and training session.
2. **An increase of the relationships and interactions with relevant security bodies and EU projects.** In particular, the session dedicated to EU projects' pilots and technical table, allowed a fruitful knowledge exchange among end users and different EU projects, and stimulated future collaborations. This session encouraged the sharing of previous experiences, challenges and future ideas regarding the treatment of digital evidence. Discussions have been carried out involving users, EU projects and experts about the current needs, challenges and solutions in treating digital evidence data. Discussions also touched ethical and privacy aspects regarding digital evidence and the regulatory framework.

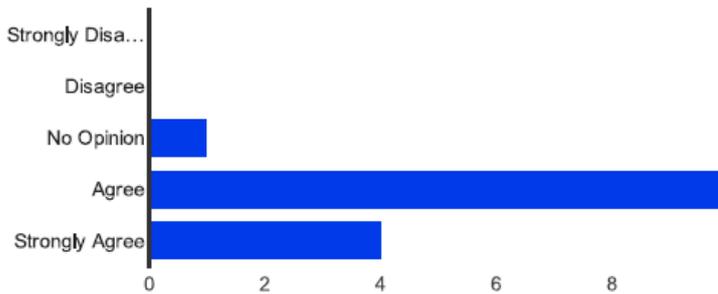
It is worth to say that end users present at the event were impressed by technologies presented by all projects represented at the event and interactions between LEAs representatives and research and industries representatives (both from LASIE and other EU projects) have generated some fruitful collaborations and produced partnerships in several project proposals prepared and submitted in the H2020-SEC 2015-2016 call. **Hence the LASIE workshop contributed to foster interaction between LEAs and research community which is considered a key factor in the fight against crime and terrorism.**

3. **Positive feedback has been expressed by the attendees** regarding the organisation of the event and the content of both sessions. An evaluation has been carried out by means of a questionnaire developed by the LASIE consortium specifically for the workshop. The questionnaire was performed following the ISO/IEC 9126-1 standard. It included questions aimed at assessing user's understanding of the technical aspects presented during the workshop as well as the user's opinion regarding the general organisation of the workshop. Details of the questionnaire results will be described in the deliverable D10.3 (LASIE Framework Evaluation). However, some general results are presented below.



In particular, the following figures depict the obtained results regarding the second training session, the results obtained regarding the content presented at the workshop and finally the results obtained regarding the demos and practical session. Finally, the following pictures present the results regarding organisational matters.

It fulfilled the purpose that was proposed



I'd like to participate in similar events in the future

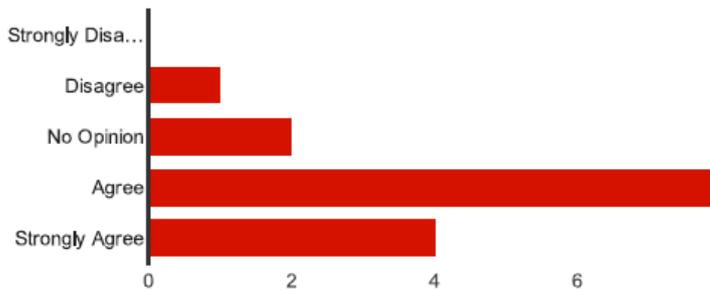
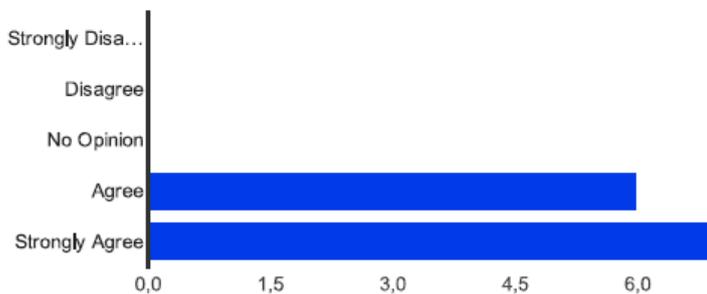


Figure 1: Statistics of the results regarding the second training session.

The technologies presented and the possibility they offer to the dealing with digital evidence were interesting



The contents presented met your expectations

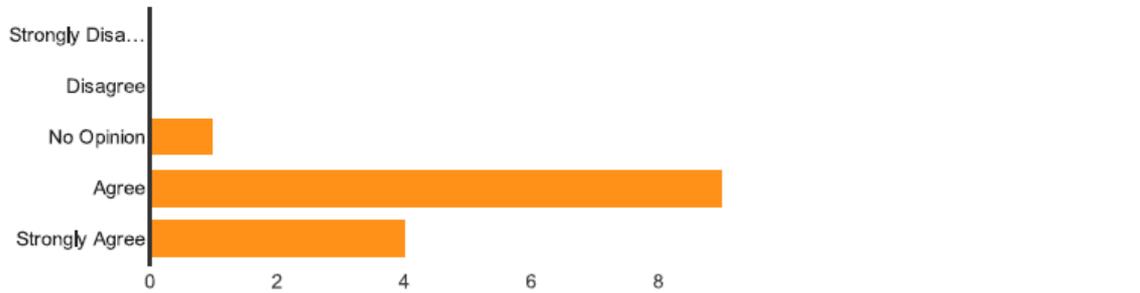
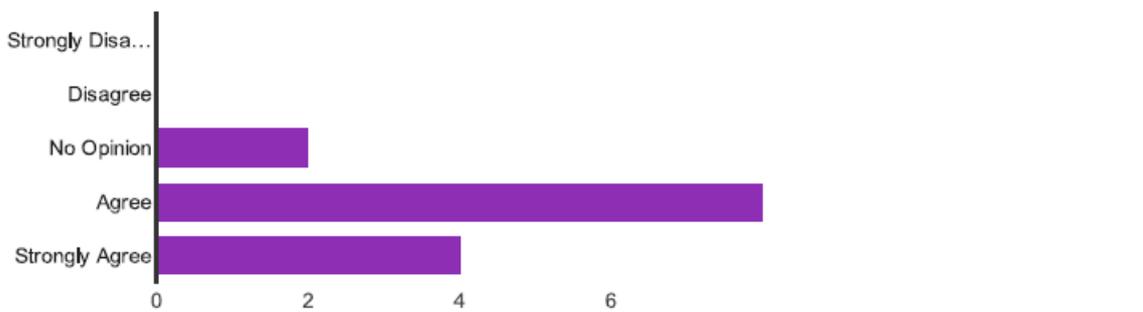


Figure 2: Results regarding the content presented at the workshop.

The practice session allowed me to well understand the features available



Using the User Interface make more clear the technologies used in LASIE

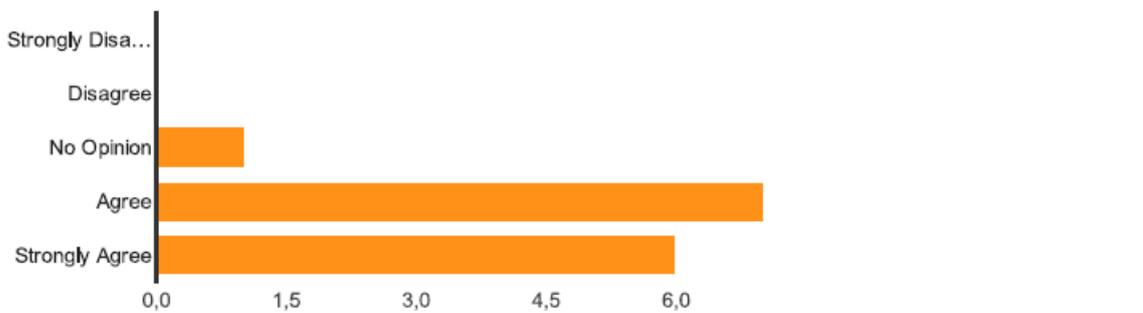
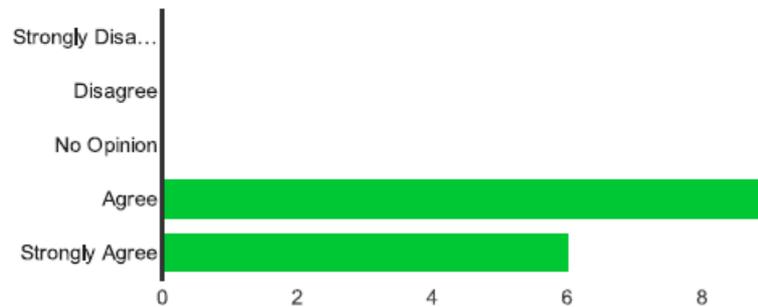


Figure 3: Results regarding the demos and practical session.



The venue was appropriate



The communication with the organizers worked well

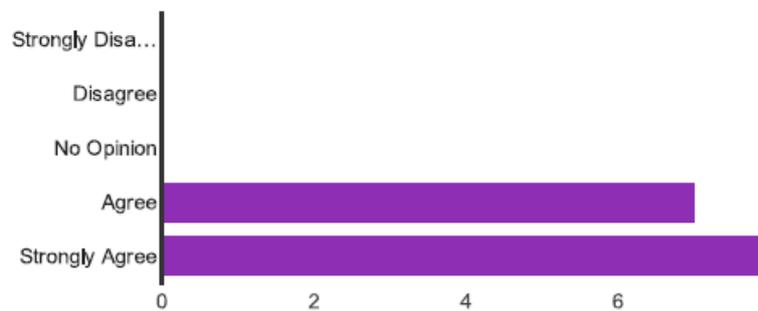


Figure 4: Results regarding organisational matters.

The overall results regarding the workshop organisation are very positive. A great majority of the attendees expressed their satisfaction with the event organisation, including the venue, duration and schedule of the sessions. Most of the attendees agreed on the usefulness of the training session to better understand LASIE functionalities and would like to participate in similar events in the future. The content of the presentations, demos and practical sessions has been described as appropriate and well designed. On the other hand, attendees did not agree on the most interesting topics discussed during the event, due to the different background and necessities of the participants.

4. **Intermediate evaluation of the LASIE GUI:** An intermediate evaluation was carried out during the workshop through a formal assessment session with the help of a questionnaire that has been developed by the LASIE consortium specifically for this event. The evaluation carried out in the second workshop consisted mainly in the assessment on the usability of the graphic User interface, with the intent of gathering feedback for the further improvement of the GUI, therefore it contained various quality attributes both from the user's perspective. Details will be reported into the deliverables D8.3 The LASIE User Interface (2nd iteration) and D10.3 LASIE Framework Evaluation.
5. **Relevant questions and comments received during the workshop:** participants provided the consortium with interesting comments and suggestions coming from their daily activities and experience. Some of the points addressed are:
 - Questions related to systems functionalities (video detection tools, text processing, etc), the use of geolocation and temporal data, traslingual capabilities of the system.



- Questions related to the added value of the LASIE text processing features compared to commercial tools.
- Concern about the limitations of statistical approaches in identifying complex situations such as racism.
- Discussions about ethical and privacy issues (use of social media data, access to personal data, etc).
- The suggestion to connect CCTV cameras via Psim.
- Questions related to the 3D crime scene reconstruction tool and the suggestion to allow including animations into the scene (people moving, events happening, etc.).
- The possibility to use the analysis results in court.
- Benchmarking for system evaluation.
- Further development of the super-recognisers tool is suggested, with additional features and real data testing.

Comments will be thoroughly evaluated and taken into account during the next stages of development of the LASIE system.

