Distribution list – stakeholder community

- **COM:** In 2016 COM presented the action plan to strengthen the European response to travel document fraud, which includes strengthening R&D activities in the area of breeder documents and document verification – including image morphing - in the framework of the Horizon 2020 programme for Secure Societies 2018-2020;

- **Consortium on an Image Morphing Research Programme:** Consortium (to be) established by COM. Action Grant of the European Commission. Programme is called State of the Art Morph Detection (SOTAMD). Coordinator is the Dutch National Office for Identity Data (contact:). Partners:
  - Bundeskriminalamt;
  - University of Bologna;
  - Hochschule Darmstadt;
  - The University of Twente;
  - Norwegian University of Science and Technology.

- **ISO/IEC:** need to compose a comprehensive list of requirements that need to be taken into account when evaluating morphing attacks (Much like ISO/IEC 30107-3 on Presentation Attack Detection evaluation) (contact:█████████████████████);

- **National Institute of Standards and Technology (NIST):** NIST runs the Face Recognition Vendor Test (FRVT) MORPH test to provide ongoing independent testing of prototype facial morph detection technologies. The evaluation is designed to obtain an assessment on morph detection capability to inform developers and current and prospective end-users, and will evaluate two separate tasks:
  - Algorithmic capability to detect facial morphing (morphed/blended faces) in still photographs;
  - Face recognition algorithm resistance against morphing.

  (Contact:█████████████████████████████).

- **Biometrics and Internet-Security Research Group (da/sec):** The group is affiliated with Hochschule Darmstadt and the Center for Research in Security and Privacy (CRISP) and is led by █████████████████████████████████. It is among others also associated with the European Association for Biometrics (EAB) and Fraunhofer Institute (contact: █████████████████████).

- **The Federal Office for Information Security (BSI):** ████████████████████████ ██ ██ ██

██████████████████████████████████

);

- **Bundeskriminalamt (BKA):** ████████████████████████████
████████████████████████████████████

- **Biometix:** Biometix has released a freely availably Facial Morphing Dataset primarily to help biometric system owners to understand the level to which their biometric system is vulnerable to morphing attacks. The morph set can answer two key questions:
  - Are the biometric scores from morph images high enough to be accepted by any given face recognition engine?
  - Are morphs able to be detected via vulnerability detection (or presentation attack detection – PAD) measures?

(Contact: ██████████████);

University of Bologna: Professor ████████████ and his colleagues of the Department of Computer Science and Engineering have published several papers on the topic of image morphing relating not only to face, but also fingerprint and iris morphing. ████████. were among the first researcher to discuss morphing in the context of border control in the 2014 paper "The Magic Passport" (contact: ████████);

- **Fraunhofer-Institut for Telecommunications, Henrick Hertz Institute HHI, DE:** (Contact: ████████████████████████████████);

- **National Police Board of Finland:** Finland is conducting Morph detection experiments with large data sets (contact: ██████████████);

- **Norwegian Biometrics Laboratory, NTNU:** Involved in different research consortiums (contact: ████████████████████);

- **Cybersecurity and Safety Research Group, University of Twente, The Netherlands:** Involved in different research consortiums and organised a workshop on Morphing in May 2018 (contact: ████████████ ████████████████████████);

- **Dutch Vehicle Authority:** ████████████████████████
████████████████████████████████████
██████████████████████████████)

- **University of York/University of Strathclyde:** Prof ████████████████ have done extensive experiments on human and automatic recognition of morphed passport photos, and on possible training techniques (contact: ████████████████████);

- **EU MS/SAC:** MS/SAC experts involved in topics related to identity management, information management, identity fraud, etc;
- **EU/SAC Issuing Authorities:** Issuing authorities would have a primary interest in this topic. How to approach them should be clarified (contact persons/email addresses unknown. Perhaps DG-Home could assist);
- **Industry/Vendors?**