

## **DELIVERABLE 1**

Novel solutions in the field of de-identification.

Novel approaches to robust de-identification, based on the development of effective methods and algorithms for concealing (or removing where appropriate) the biometric identifiers as well as soft- and non-biometric features in the given multimedia documents.

- Non-biometric identifiers:
  - de-identification and anonymization of medical databases link [1](#) [2](#)
  - hair de-identification [link](#)
  - de-identification in natural language processing links [1](#) [2](#)
  - security and protection of digital images by using watermarking methods [link](#)
- Biometric identifiers:
  - face de-identification links [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#)
  - voice de-identification links [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#)
  - gait de-identification links [1](#) [2](#)
  - de-identification of persons performing various activities links [1](#) [2](#) [3](#)
  - de-identification of online handwritten signals [link](#)
  - de-identification of vein pattern [link](#)
- Soft biometric identifiers:
  - tattoos links [1](#) [2](#) [3](#) [4](#)
  - gender links [1](#) [2](#)
  - age [link](#)
  - race [link](#)
  - skin colour links [1](#) [2](#)
  - silhouette and weight links [1](#) [2](#)

## **DELIVERABLE 2**

Guidelines and recommendations for the development of standards.

- Active participation in preparation of Internal Report 8053 - De-Identification of Personal Information/ National Institute of Standards and Technology (U.S. Department of Commerce) NIST/ [link](#)
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## **DELIVERABLE 3**

Ethical, bioethical, societal and legal aspects and guidelines for de-identification and reversible de-identification.

- Privacy protection in citizen identification processes [link](#)
- Legal aspects of biometric data processing: current state of affairs [link](#)
- BiForD 2014. Session II. [link](#)
- The legal impact of digital age on employment relationship. [link](#)
- Strategic agenda on Ethical, societal, and Privacy aspect of biometric Technologies link
- 2 joint meetings of IC1206 WG4, IC1106 WG6 and the EAB, Darmstadt, 2013., 2015. [1](#) [2](#)

Dissemination to non-experts

- Forbes Voice Recognition: Risks To Our Privacy [link](#)
- Corriere della Sera (in Italian) [link](#)
- InfoTrend (in Croatian) [link](#)

**PUBLICATIONS** [link](#)