



## **Examples of technology solutions for each objective**

Objective 1: Detect, remove and refer known and new child sexual abuse materials (CSAM), including self-generated CSAM in open and closed online environments and mobile networks

- Expansion and universalisation of hash-based filtering of CSAM
- Use of crawlers to detect and refer content for removal
- Artificial Intelligence (AI) to detect, classify and refer known CSAM
- Al to detect conversations and behavior that may indicate (new) CSAM is shared
- Tools to detect and distinguish between adult and child language and behavior to prevent the self-generation and sharing of CSAM and to refer the child to appropriate quidance or services
- Establishment or strengthening of reporting mechanism (hotlines or other) for CSAM and/or other forms of online and offline CSEA, with national and international referral channels to facilitate removal and appropriate referral of illegal content

## Objective 2: Prevent and disrupt online sexual grooming of children in digital environments

- Lexicon-based, machine learning algorithms and text analysis of chat room conversations to detect online sexual grooming
- Online platforms and games to raise awareness of digital dangers
- Natural language processing (NLP) chatbots to alert the sites' administrator of the suspected grooming, and/or to pre-empt children if online grooming is suspected and offer real-time support via redirecting the child to appropriate services

## Objective 3: Prevent and disrupt the live-streaming of child sexual abuse

- Tools to detect, block and/or refer transactions before they occur, for instance via identifying and disrupting patterns of migration from one platform to another e.g. for introductions, online CSEA and payment
- Tools to disrupt financial transactions and refer victims and/or offenders and potential offenders to appropriate services
- Establishing or strengthening reporting mechanisms to ensure anonymous reporting of known and suspected live-streaming activities

## Objective 4: Expand tools and services to prevent the victimisation of children and harmful behaviour by offenders and potential offenders in digital environment

- Chatbots, online helplines with instant messaging, Al powered services, etc. to provide services for child victims, and possibly offenders and adults with sexual interest in children
- Establishment or strengthening of helplines and/or (self) referral mechanisms for offenders and people with a sexual interest in children, including through international exchange of expertise