UNPACKING AGE ASSURANCE: TECHNOLOGIES AND TRADEOFFS

Age Assurance is the broadest term for methods to discern the age or age range of an individual. There is no one-size-fits-all method, and it is important to consider context to determine a proportionate method of age assurance for each specific use case. Proportionality is key because in some contexts, a higher level of certainty is appropriate. This must be carefully balanced against the privacy risks and risk of barring access to legitimate content - especially if content restrictions have inequitable impacts. It may be appropriate to employ multiple methods in a layered approach.

AGE ASSURANCE QUESTIONS

WHAT ARE THE GOALS?
- Facilitate parental consent
- Limit access to an age-restricted service or provide age-appropriate content
- Verify an individual's exact age
- Place individuals within an age band (e.g. 13-15)

WHAT ARE THE POTENTIAL HARMs TO MINORS?
Harms could include children or teens accessing age-restricted services, content, or contact by unknown individuals.

WHAT IS THE APPROPRIATE ASSURANCE METHOD?
Choose a method or methods that provide a level of age assurance (accuracy) proportional to the goals and risks of the service, keeping in mind that legal obligations may dictate a specific method.

COMMON EXISTING & EMERGING METHODS

DECLARATION
AGE GATE
A user indicates their birthdate without providing supporting evidence. This common method is most appropriate in low risk situations, as children and teens frequently bypass by providing a false birthdate. Privacy risk is low, especially if birthdates are not retained or matched with a name or other indirect identifier.

ESTIMATION
FACIAL CHARACTERIZATION
Estimates age using a facial image, but the individual is not uniquely identified. Best used to place users in age bands, or signal that a user meets an age threshold, such as under 13 or 21+. Estimation is less effective for discerning age in a narrow range like 17 vs 18.

VERIFICATION
BIOOMETRIC + GOVERNMENT ID
Matches a scan of a government-issued ID and live photo or video using facial recognition. This method is more appropriate for higher risk, regulated or age restricted services. Government ID only is another method, but provides less assurance.

WHAT ARE THE GOALS?
- Unknown individuals
- Age-restricted services, content, or contact by teens or older
- Harm could include children or teens accessing services, content, or contact by unknown individuals

WHAT IS THE APPROPRIATE ASSURANCE METHOD?
Choose a method or methods that provide a level of age assurance (accuracy) proportional to the goals and risks of the service, keeping in mind that legal obligations may dictate a specific method.

IS ASSURANCE BALANCED WITH PRIVACY RISKS?
After considering privacy risks and mitigations, confirm that the assurance goal warrants the level of privacy risks and other impacts associated with the chosen age assurance method.

AGE ASSURANCE FOR ONLINE GAMING
In this scenario, Miles, a 16 year old, is accessing an online gaming service that is designed for teens and older. It has optional age-restricted features.

INITIAL EXPERIENCE
DECLARATION
The default user experience is "teen-friendly." Miles can sign up by providing their birthdate.

SECONDARY FEATURE
ESTIMATION
Later, Miles wants to enable a feature which the game developer has restricted to 16+. The developer wants a higher level of assurance. A "live selfie" uses facial characterization to determine Miles is between 16-18.

CURRENT EXPERIENCE
DECLARATION
To verify his age, Miles must take a "live selfie." However, many users, including 75% of 16 year olds, do not have a driver’s license. Miles must scan their driver's license and take a "live selfie."