**R&D phase** | Development **Expected Commercialization** | FY27-

Mehr Licht!
More Photonics for Intelligence

#C21

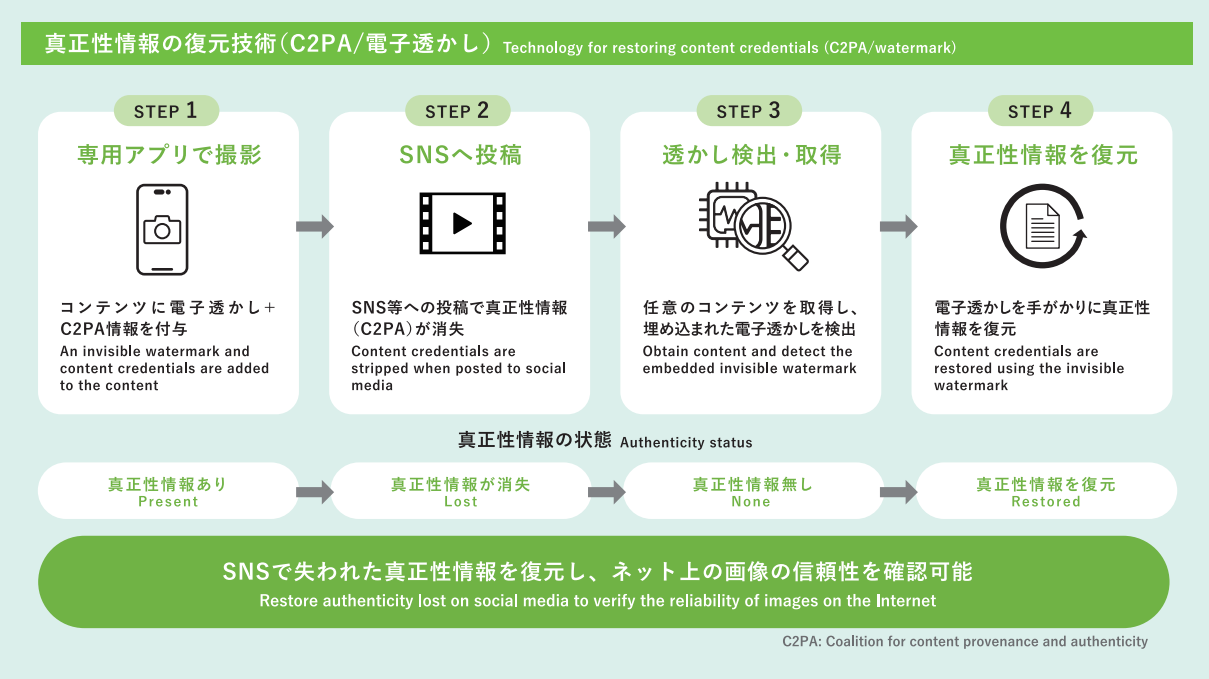
#Resilience#Safety and Security#Governance & Trust

# Authenticity Embed; Restore by Watermark

Restores content provenance lost on social media via watermarks

## Technical Challenges & Goals

During disasters, C2PA authenticity metadata in shared media are often lost via SNS compression. This technology uses embedded invisible watermarks to match and re-attach lost C2PA data. It enables origin verification even for web-shared content, supporting reliable information use for local governments.




## Key Technologies

### Core Technologies

- Technology combining watermarking with C2PA data embedding
- Algorithm for restoring authenticity info via DB search keyed by watermark

### Key Differentiators

- Reliably embeds tamper-resistant provenance metadata (C2PA) upon capture
- Accurately re-attaches C2PA metadata lost during social media posting

## Use Cases

**Communication Services**

By restoring lost C2PA metadata from invisible watermarks in images shared on social media, this solution prevents fake news from spreading and verifies copyright and provenance for digital media.

**Exhibitors**

R&D Innovation Division, NTT DOCOMO, Inc.
NTT DOCOMO Business, Inc.

**External Partners**

Spectee Inc.

**Related Links**

https://www.soumu.go.jp/main_sosiki/joho_tsusin/d_syohi/taisakugijutsu_fy2026.html

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