



RE-IDENTIFICATION RISK

MOTIVATION

- \ Enhancing security of open data
- \ Facilitating the balance between data security and information utility

SOLUTION

SCORING SYSTEM FOR DATA RECORD RE-IDENTIFICATION

PROBLEM DEFINITION

- \ Diverse approaches to fulfil legal requirements for open data
- \ Variability in open data quality and security based on approaches employed
- \ Limited tools for assessing open data



- \ Easy to use
- \ Minimal user interaction
- \ No expert knowledge required
- \ Privacy by design: Client-Side offline functionality
- \ Compatibility with EAsyAnon Recommender System



CONVENTIONAL METRICS

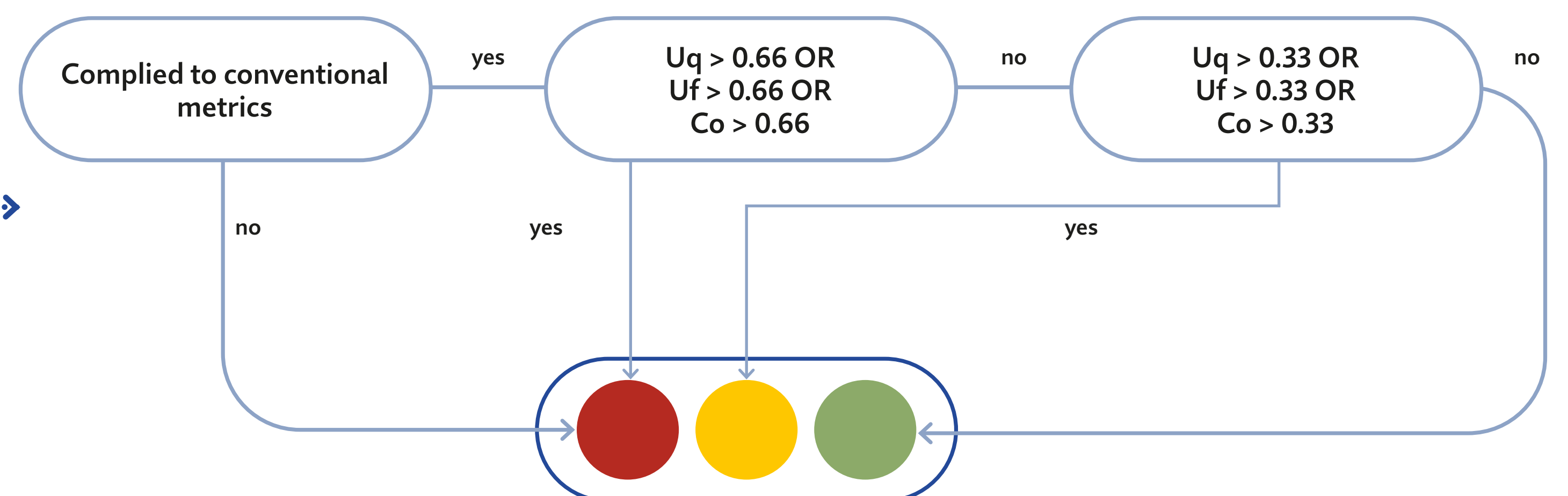
k-anonymity
l-diversity t-closeness

- \ Adherence to legal requirements
- \ Lack of privacy assurance

EXTENDED METRICS

Uniqueness
Uniformity Correlation

- \ Enhanced risk assessment
- \ Incorporates emerging threats



HIGH RISK

Release is strongly discouraged

MEDIUM RISK

Release not recommended due to remaining risks

LOW RISK

Low risk of re-identification

AUTO-AUDIT

- \ Fast automated results

PEER REVIEW

- \ Detailed results provided by experts

PROJECT EAsyAnon – Empfehlungs- und Auditsystem zur Anonymisierung

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PROJECT CONSORTIUM

