Anonos Data Embassy Maximises Lawful Data Value With All 7 GDPR Protections

GDPR-compliant Pseudonymisation is *legally necessary** because it is the only measure that satisfies all these data protection objectives to be less intrusive to fundamental rights.

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		Anonos Data Embassy GDPR Pseudonymisation	Tokenisation (Pre-GDPR Pseudonymisation)	Encryption	Anonymisation	Differential Privacy	Synthetic Data	Homomorphic Encryption
1	Defeats Brute Force Attacks & Quantum Computing Risk.[1]	✅	✅	❌	✅	✅	✅	❌
2	Enables Protected Processing of Data When in Use.[2]	✅	✅	❌	✅	✅	✅	✅
3	Relinkable Only Under Controlled Conditions.[3]	✅	✅	✅	❌	✅	❌	✅
4	100% Speed & Accuracy vs Processing Cleartext.[4]	✅	❌	❌	❌	❌	❌	❌
5	Accountable Reconciliation of Data Utility and Protection.[5]	✅	❌	❌	❌	❌	✅	✅
6	Protects Centralised and Decentralised Use Cases.[6]	✅	❌	❌	✅	❌	✅	✅
7	Defeats Unauthorised Re-Identification via the Mosaic Effect.[7]	✅	❌	✅	✅	✅	✅	✅

* Pseudonymisation is "legally necessary" under EU law when it is less intrusive to and more protective of rights under the GDPR and the EU Charter of Fundamental Human Rights than other data protection techniques. See European Court of Justice (ECJ) Case C-362/14, Schrems v. Data Protection Commissioner (October 2015 – "Schrems I"), and ECJ Case C-311/18, Data Protection Commissioner v Facebook Ireland Limited and Maximillian Schrems (July 2020 – "Schrems II").

1. EDPB Final Guidance paragraphs 83 and 89 and footnotes 80 and 81.
2. EDPB Final Guidance executive summary "...the protection granted to personal data in the European Economic Area (EEA) must travel with the data wherever it goes."
3. EDPB Final Guidance paragraphs 85, 94 and 96.

4. GDPR Article 5(1)(d). See also www.anonos.com/data-scientist-expert-opinion.
5. EDPB Final Guidance paragraphs 3, 4, 5 and 67.
6. EDPB Final Guidance executive summary "...the protection granted to personal data in the European Economic Area (EEA) must travel with the data wherever it goes.

7. EDPB Final Guidance paragraphs 79, 85, 86, 87, 88. See also https://mosaiceffect.com/