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4th Indo-European Conference on Standards & Emerging Technologies
7th December 2023 | The LaLiT, New Delhi, India

Mobilising Data with Consents

Standards-Driven Framework for Web 2.0 and Web 3.0 Data Exchanges Complying to Data Regulations

Lal Chandran, Co-Founder and CTO, iGrant.io

Problem with data processing today

LAWFULNESS

Regulatory compliance requirements and fear of non-compliance.

DATA MISUSE

Large scale data misuse by data aggregators and lack of transparency.

CONSENTS

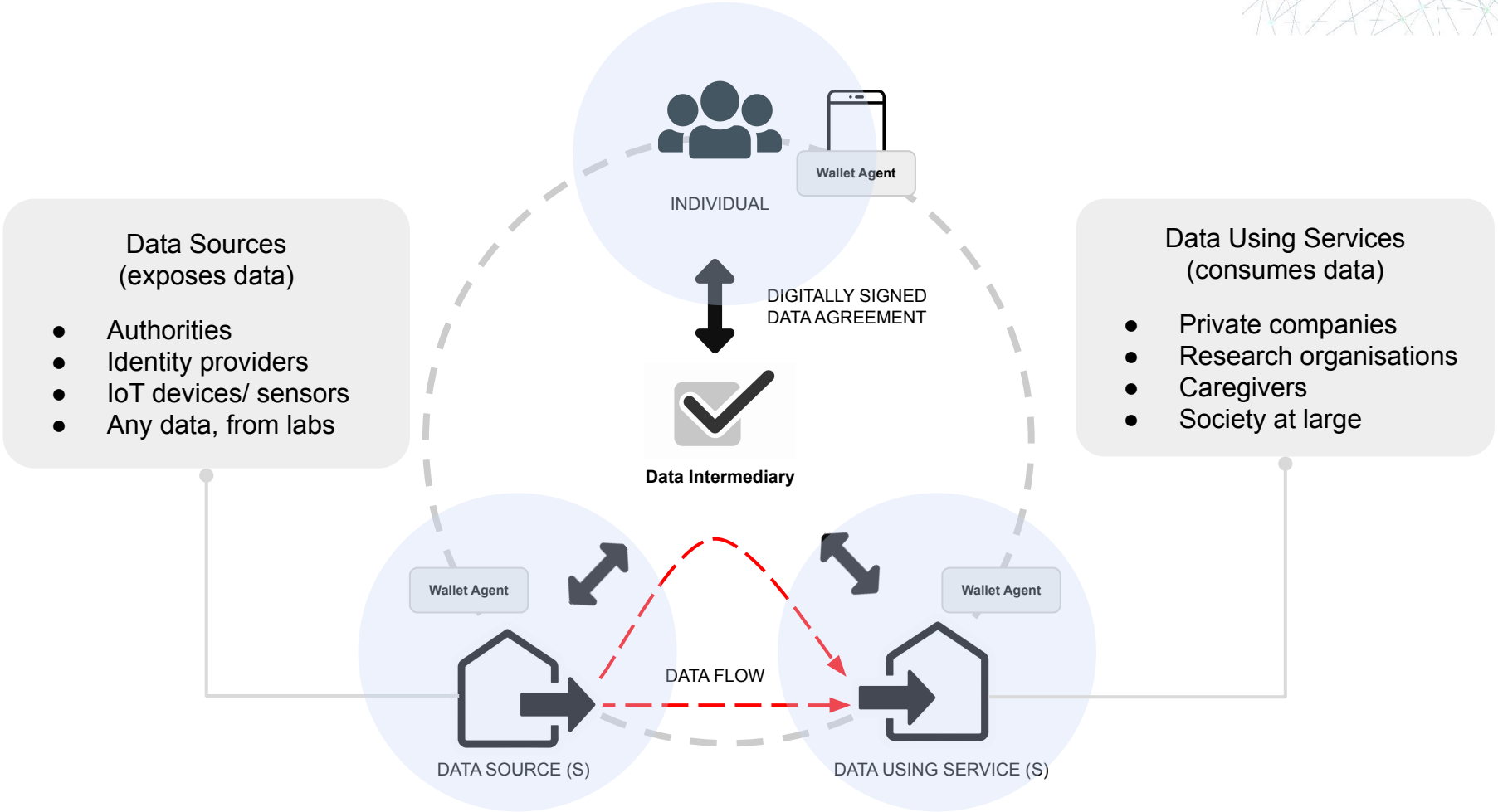
Complex process to obtain consents with unclear process for scalable audits

Data transactions: Key actors and use cases

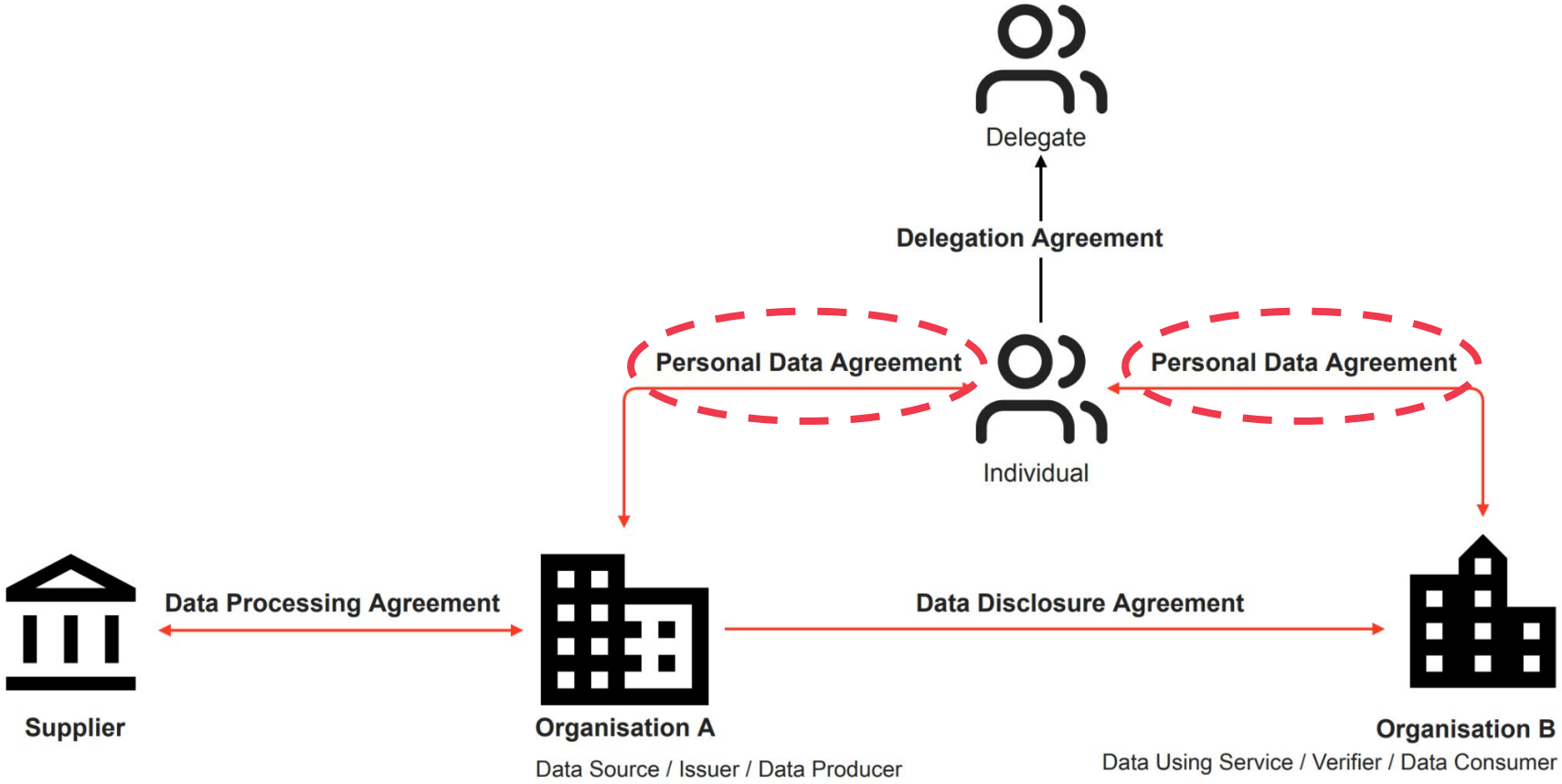
Make personal data transactions trustworthy and auditable with automated regulatory compliance during a data exchange transaction

Organisations (Data Sources and Data Using Services)	Individuals	Auditors
Can prove their legitimate rights to the use of personal data in a data exchange transaction	Stay in control of their data and know how it's being consumed by organisations	Are able to independently get end-to-end insight for any data exchange transaction

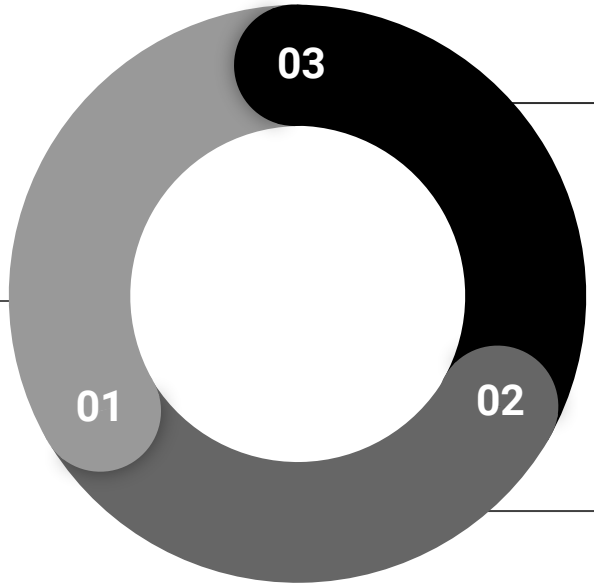
A data exchange landscape with data intermediation service providers



Data exchange agreement landscape



Data agreements: The 3 key drivers



Data Laws (E.g. GDPR, DGA etc.)

GDPR Article 4 - 23 -
Article 4: Definitions -
Article 6(1): Lawfulness of processing -
Article 7: Conditions for consents -
Article 30: Records of processing activities -

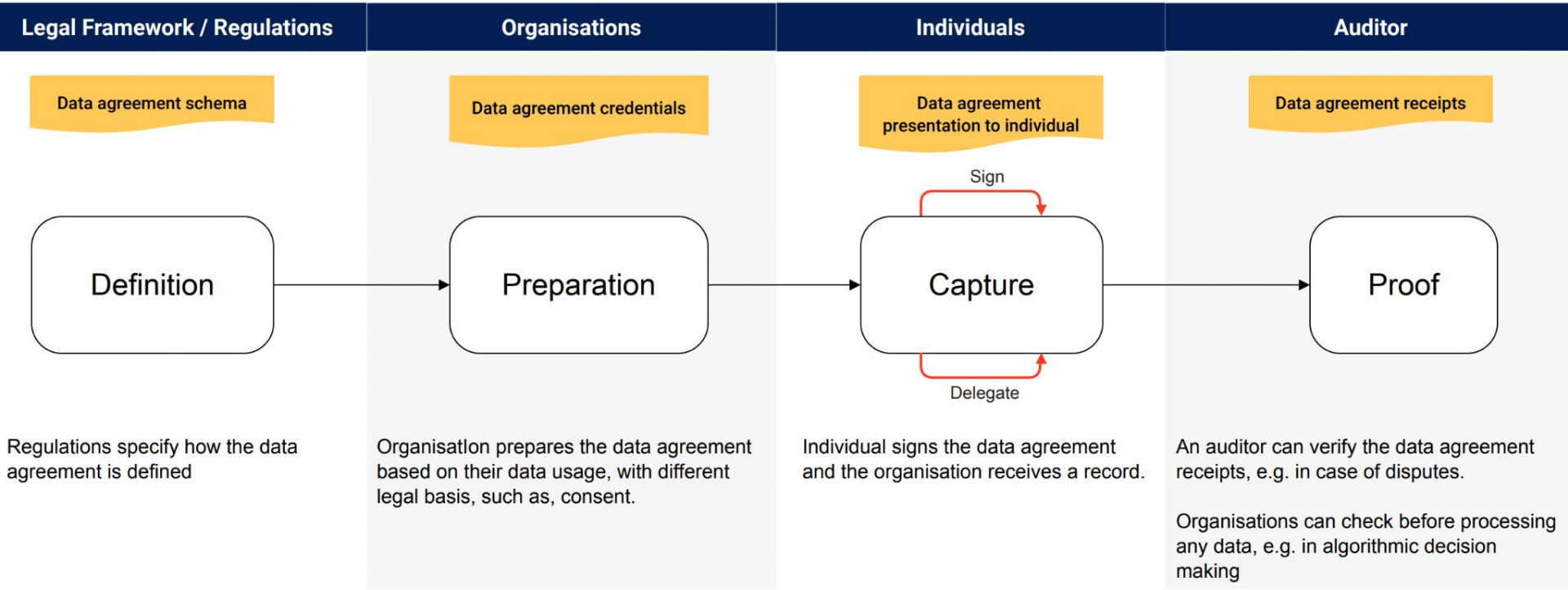
Standards and Architectures

- Kantara Consent Receipt Specification v1.1
- ISO/IEC 29184: 2020: Information Technology - Online Privacy Notices and Consent
- ISO/IEC TS 27560: Privacy technologies - Consent record information structure
- Data model, lifecycle, schema and common vocabulary (DIF, ISO 27560, Kantara, W3C)

Social and Ethical Norms

- MyData
- FAIR Data Principles
- Trust frameworks

Data agreement workflow



Summary and references

iGrant.io solution enables access to **right** data - Lawful, Scalable and Verifiable, where individuals stay in control of their data.

- iGrant.io Data Agreement Suite: Recognised as a Digital Public Good → **Govstack Consent BB** Implementation towards governments.
- European digital wallet implementations for large scale pilots enabling cross border data exchange using web 3.0 technologies.
- European Health Dataspace for multiple regions for health data exchange

L. Chandran, L. Lundin and G. Padayatti, "Transforming Personal Data Transactions with Auditable, Privacy-Preserving Data Exchange Agreements : Fostering Transparency and Trust in Digital Wallet Ecosystems," 2023 IEEE 28th International Conference on Emerging Technologies and Factory Automation (ETFA), Sinaia, Romania, 2023, pp. 1-9, doi: 10.1109/ETFA54631.2023.10275546.

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