TEHDAS

Towards European Health Data Space

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TEHDAS, the joint action **Towards the European Health Data Space**, helps EU member states and the European Commission to **develop and promote concepts for the secondary use of health data** to benefit public health and health research and innovation in Europe

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TEHDAS JA – work areas

5 **Sharing data for health**
Governance models for secondary use and exchange of health data

6 **Excellence in data quality**
Develops guidance on ensuring data quality, incl. semantic interoperability

7 **Connecting the dots**
Provides options for the technical interoperability in the EHDS

8 **Citizens**
Getting them involved in framing a trustworthy exchange of health data

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4 pillars to frame the DQAF conversation

Expected queries

Level of inference | study design requirements

Unit of analysis

Type of data sources

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Expected queries
Pre-adoption

- Continuous Scanning
- Gap mapping of technologies
- Prioritization of technologies
- Grey areas in regulation
- Identification of relevant endpoints
- Identification of relevant comparators
- Access to the *state of the art*

Expected queries
Post-adoption

- Uptake monitoring
- Identification of unmet needs
- Misuse detection
- Decision aids efficacy and safety
- Measurement of patients' experience
- Impact of a tech on the HC processes
- Providers performance
- Health systems effectiveness
- Health systems efficiency

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Inference vs Requirements

Inference	Design (typical)	Data Quality (variable level)	Analytics (distribution)
Causal inference	Pragmatic trials	+++	+++
Inference on pop. subgroups	Cohorts	+++	+++
Inference on providers	Monitoring	++	+
Inference on populations	Ecological	++	+
Hypotheses generation	Mining	+	+

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Units of analysis

Variable	Data source	Institution (Data holder)
Missingness Incompleteness Relevance of outlier values Data distributions Encoding Comparability (standards) Etc.	Relevance Coverage Accuracy Reliability Timeliness Coherence Etc.	DQA system operational Procedures to find data Procedure to safely access Existence of meta-data catalogues Procedures to reuse – in house Procedures to reuse – federated Etc.

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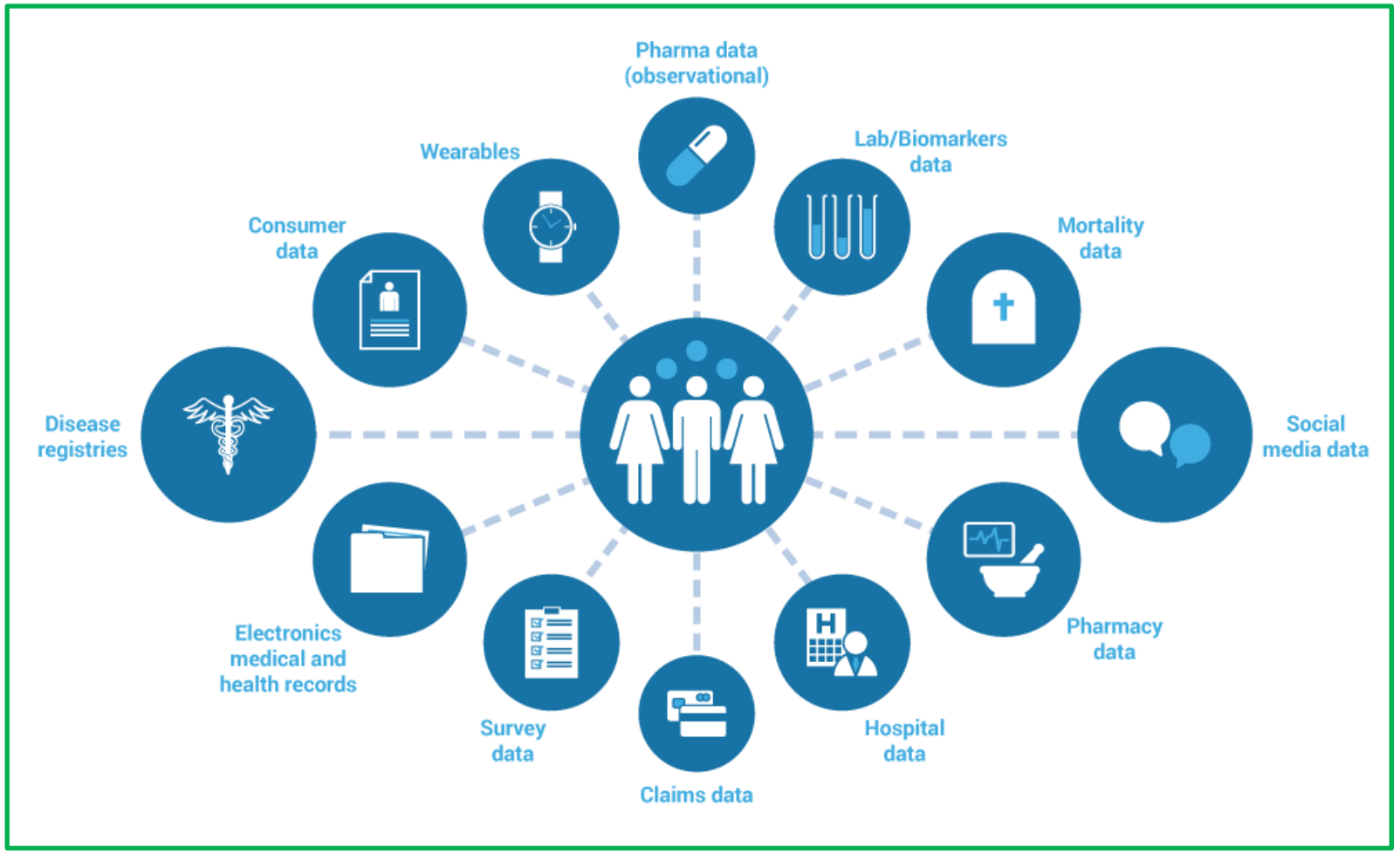
What data sources?



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Expected outputs

Data quality assessment framework

- Recommendations on what elements should be assessed, who should do it and under which methodology
- Specific hints on what should be brought in legislation
- Recommendations on semantic interoperability issues

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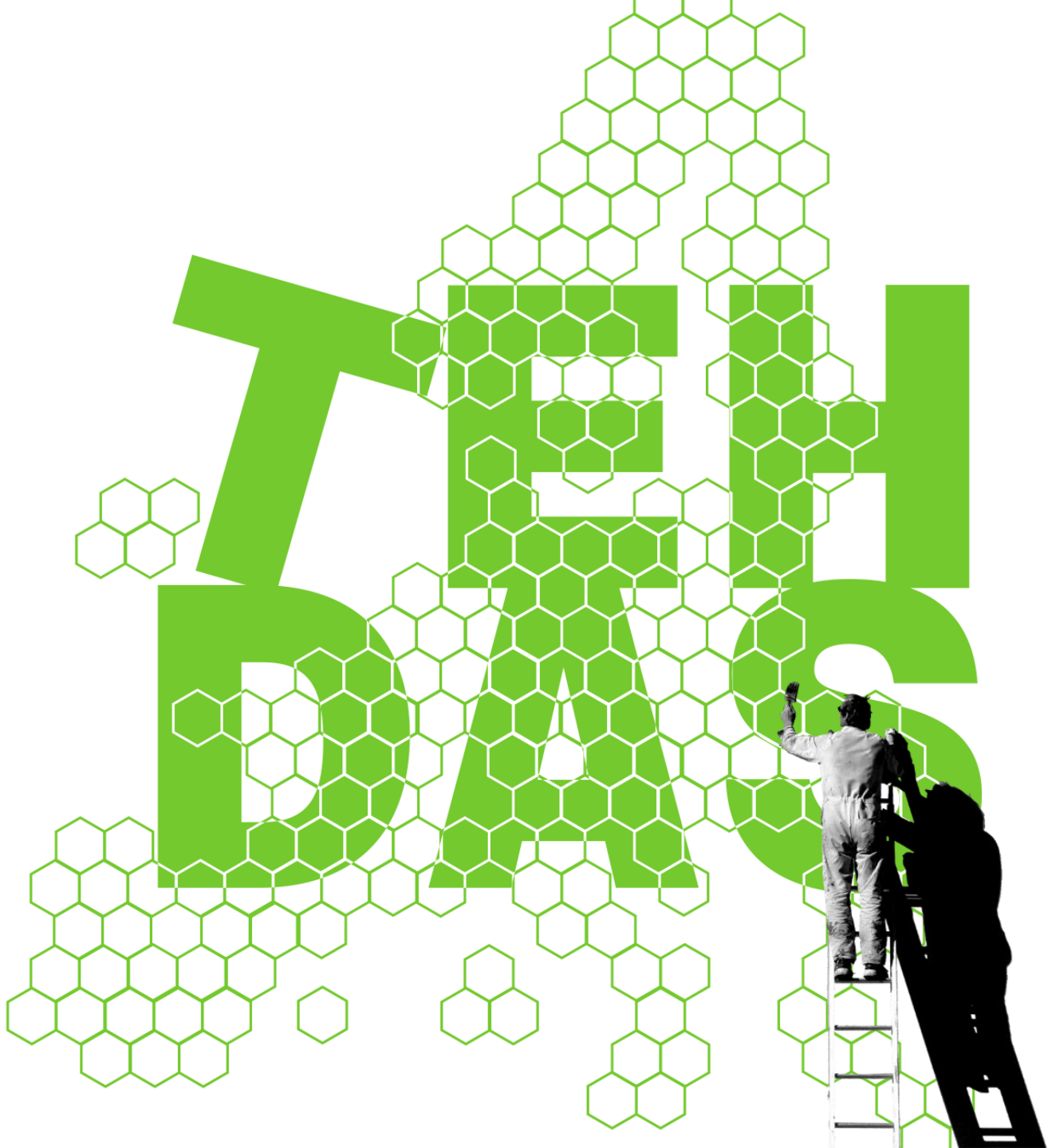
TEH DAS



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