

D4A Solution

Name of your institution and contact	Carl von Ossietzky Universität Oldenburg Prof. Dr. Andreas Winter
Place of the implemented solution	Oldenburg
Implementation level (e.g. internal, municipal, intercommunal, regional)	global
Dimension	<ul style="list-style-type: none"> • Technical • (Organisational) • (Ethical) • (Regulatory) <p>A technical solution that addresses ethical, regulatory, organisational and technical issues.</p>
Subdimension	<ul style="list-style-type: none"> • Interoperability • Data management • Data governance • Data openness • Data ownership
Problem	Combining data from multiple heterogeneous sources is necessary for many sophisticated smart city/region applications, but hard to implement on all four dimensions.
Solution	Metadata on existing data sources can help with implementing interoperability solutions because they provide information that is required for interoperability. Our solution defines a metadata schema that includes the necessary metadata.
Feedback	Solution for one aspect of the interoperability problem
Format (e.g. Open Source)	Publication/Schema
Costs	Less than 100,000 €, not operation costs
Links	Publication by IEEE still outstanding, expected in June or July 2025

Screenshots, visuals, images

