We have shown how rare disease research data can be made Findable, Accessible, Interoperable and Reusable (FAIR) whilst ensuring good data protection practices through semi-automated support for researchers.

Rare diseases: making environmental health studies' data as open as possible

Albert Navarro-Gallinad¹, Maria Christofidou², Solange Gonzalez Chiappe³, Fabrizio Orlandi¹, Nathan Lea², Dipak Kalra² and Declan O'Sullivan¹

Data protection problem!













Location and **time** from environmental data

Context from a person's rare disease

Data protection risk without effective anonymization

Our solution: an approach that yields data that can be published as open as possible!



Region-season alike example data as a data table and a graph



Transparent metadata record as a graph

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¹ ADAPT Centre for Digital Content, Trinity College Dublin, Dublin, Ireland

² The European Institute for Innovation Through Health Data (i-HD), Ghent, Belgium

³ Department of Rheumatology, Kantonsspital St.Gallen, St. Gallen, Switzerland