

# Assessing the Quality of RDF Mappings with EvaMap



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## MOTIVATION AND PROBLEM

- **RDF Mappings** describe the transformations of structured datasets into RDF datasets.
  - Making RDF mapping is challenging, and for one dataset, different mappings are possible.
  - We argue that a tool capable of evaluating the quality of an RDF mapping would make the creation of mapping easier.
- The problem we address is:

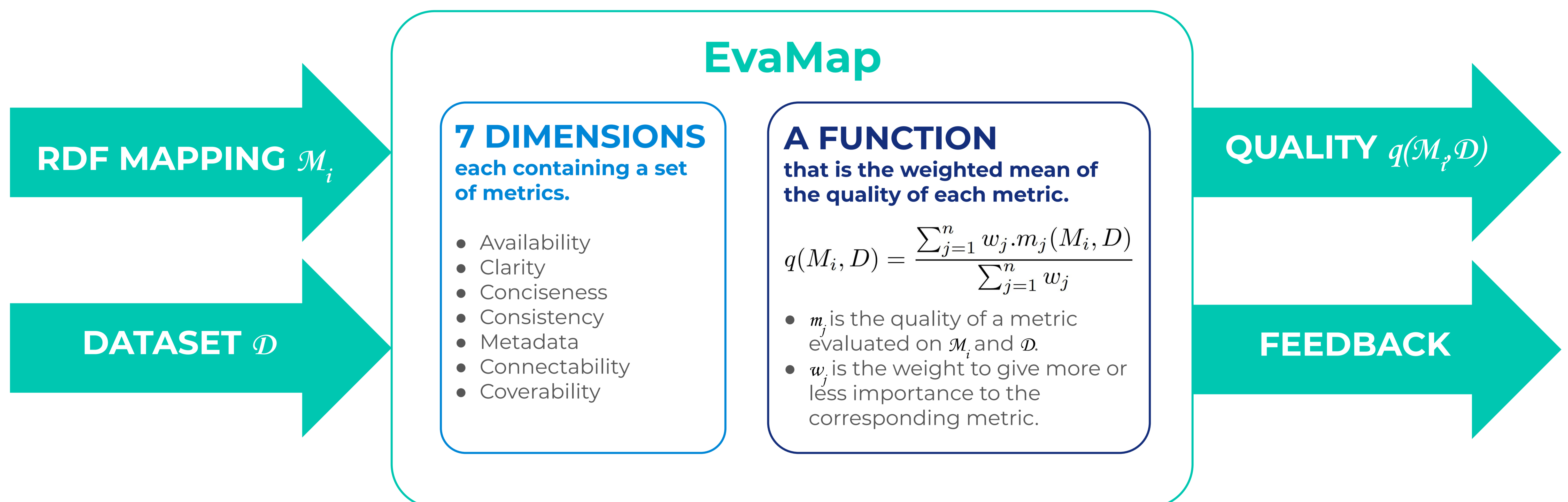
**How to automatically help users to create RDF mappings without errors  
and how to choose the best mapping from a set of RDF mappings?**

## SOLUTION

**EvaMap** is a framework to **Evaluate** RDF **Mappings**.

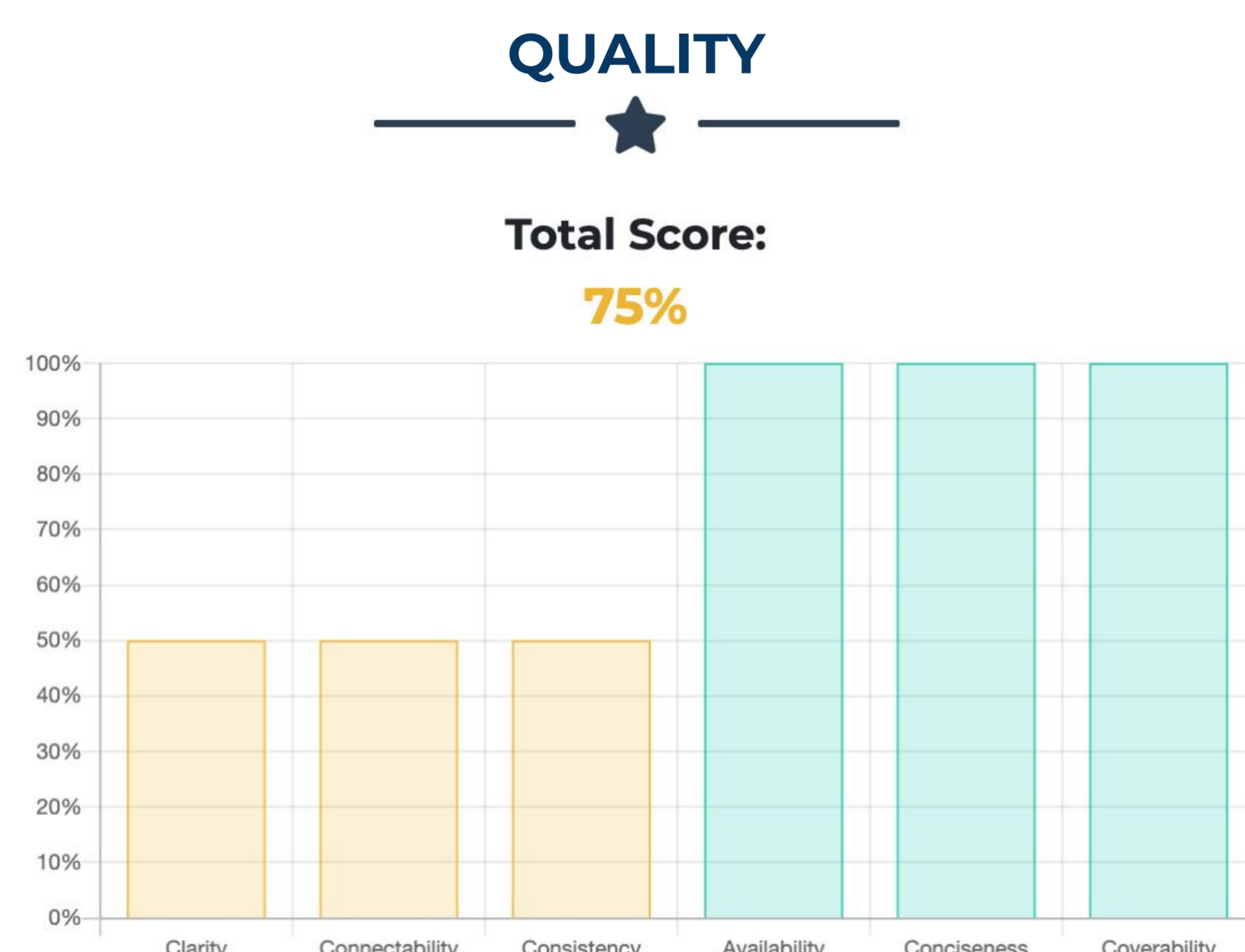
It can evaluate the quality of the resulting RDF dataset through its RDF mapping without having to generate the RDF dataset. It is based on:

- a **set of metrics** organized in **7 dimensions**.
- a **function** that is the weighted mean of the quality of each metric to compute the global quality of an RDF mapping.
- **feedback** for each metrics allowing user to improve its RDF mapping.



## OUR DEMONSTRATION

is an implementation of EvaMap to evaluate YARRRML mappings for datasets of the Opendatasoft's data network.



FEEDBACK	
Clarity 63 50%	
Human readable description of the resource https://example.org/\${name} is missing. Please add an rdfs:comment or rdfs:label	
Human readable description of the resource https://example.org/\${home_team}-\${away_team} is missing. Please add an rdfs:comment or rdfs:label	
Human readable description of the resource https://example.org/\${name}-\${home_team} is missing. Please add an rdfs:comment or rdfs:label	
Human readable description of the resource https://example.org/\${name}-\${away_team} is missing. Please add an rdfs:comment or rdfs:label	
Connectability 63 50%	
No sameAs defined	
resource https://example.org/\${name} is not linked to another resource	
resource https://example.org/\${home_team}-\${away_team} is not linked to another resource	
resource https://example.org/\${name}-\${home_team} is not linked to another resource	
resource https://example.org/\${name}-\${away_team} is not linked to another resource	

<https://evamap.herokuapp.com/>



Github [github.com/benjiimor/EvaMap](https://github.com/benjiimor/EvaMap)  
 Demo paper [hal.archives-ouvertes.fr/hal-2612705](https://hal.archives-ouvertes.fr/hal-2612705)  
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