

**Case study for Road Map on Statistics for SDGs 2.0**  
**Norway: The ontology for SDG statistics**

<b>Description</b>	<p>Based on the proposed taxonomy, the Norwegian University of Science and Technology (NTNU) in collaboration with Trondheim Kommune has developed a working open-source platform on SDG ontology. The ontology is a metadata layer and is using the classification of SDG Key Performance Indicators (KPIs) and acknowledged research on SDG synergies and trade-offs to visualize how the SDGs and KPIs connect to each other.</p> <p>Subjects and objects are nodes that represent the two resources being related through a predicate; the predicate represents the nature of their relationship. The predicates are directional and enable to assign strength to the relation between the subject and object. For example, something can be a trade-off one way and a strength the other way.</p>
<b>Advantages</b>	<p>The ontology enables a more holistic approach to SDG KPIs by visualizing related data from various KPI sets and in that way improves the decision-making process. In addition, the semantic approach by use of <i>Web Ontology Language</i> (OWL) enables inferencing, meaning that relations do not have to be made explicit in the structure in order to be found.</p>
<b>Challenges</b>	<p>The large amounts of data and relationships can make the ontology quite complex.</p>
<b>Future steps</b>	<p>Future steps include adding more models and research on synergies and trade-offs, as well as making the digital platform more user friendly and robust.</p> <p>Also, a goal distance computation algorithm will be added.</p>
<b>More information</b>	<p><a href="https://github.com/ntnu-informatikk-2021/SDG-ontology-visualizer">https://github.com/ntnu-informatikk-2021/SDG-ontology-visualizer</a></p> <p>Contact details: Mr Oyvind Tanum The Head of Smart Cities, Trondheim Kommune <a href="mailto:oyvind.tanum@trondheim.kommune.no">oyvind.tanum@trondheim.kommune.no</a></p>