


Irakaslegoak aurkeztutako GRADU AMAIERAKO LANAREN proposamena	 BILBOKO INGENIARITZA ESKOLA ESCUELA DE INGENIERÍA DE BILBAO
Propuesta de TRABAJO FIN DE GRADO por parte del profesorado	

GEHIENEZKO LUZERA: ORRI BAT (2 ALDEAK) / LONGITUD MÁXIMA 1 HOJA (2 CARAS)

DATU OROKORRAK / DATOS GENERALES

Lanaren izenburua / Título del Trabajo: Publication of scientific result following FAIR principles

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Hizkuntza / Idioma: Ingles/Euskera/Castellano

Izena emateko aurrebaldintzak / Requisitos para apuntarse:

Sistemas Web

Programación orientada a objetos

Bases de Datos

DESKRIBAPEN ZEHASTUTA / DESCRIPCION DETALLADA

The project SUPPORT4LHS, funded by the Agencia Estatal de Investigación (AEI) is generating result datasets that should be published following FAIR principles (<https://www.go-fair.org/fair-principles/>). In this project the student will implement a pipeline to process the datasets and a web frontend to publish them according to FAIR principles.

Pipeline: the pipeline processes the datasets (Linking, Conversion to RDF with Morph-KGC, Quality control with SHACL, metadata extraction) and stores the resulting data in GraphDB (Data and metadata in RDF) and CKAN (Data in non-RDF format files). Data in both systems is related through DCAT-based links. The pipeline is implemented through Workflows based on CWL (Common Workflow Language).

Web frontend: the web frontend is a FAIR Data Point server.

The deployment of the whole system is done through a Docker orchestration at Universidad de Murcia (UM) servers.

GrAL-AREN HELBURUAK / OBJETIVOS DEL TFG


- Metadata extraction.
- Data transformation.
- Data quality.
- Data and metadat storage.
- FAIR Data Point.

GrAL-AREN EKARPENAK / CONTRIBUCIONES DEL TFG

- Publication of scientific results following FAIR principles.
- Development of pipelines and best practices for the FAIRification of data.

ERABILIKO DIREN TRESNAK / HERRAMIENTAS A USAR

- GitHub: <https://github.com/>
- Docker: <https://www.docker.com/>
- GraphDB: <https://www.ontotext.com/products/graphdb/>
- CKAN: <https://ckan.org/>

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- Morph-KGC: <https://github.com/morph-kgc/morph-kgc>
- FAIR Data Point: <https://www.fairdatapoint.org/>
- Common Workflow Language (CWL):<https://www.commonwl.org/>