

# DataGraft

**Flexible management and sharing of  
data and transformation**

<https://datagraft.net>

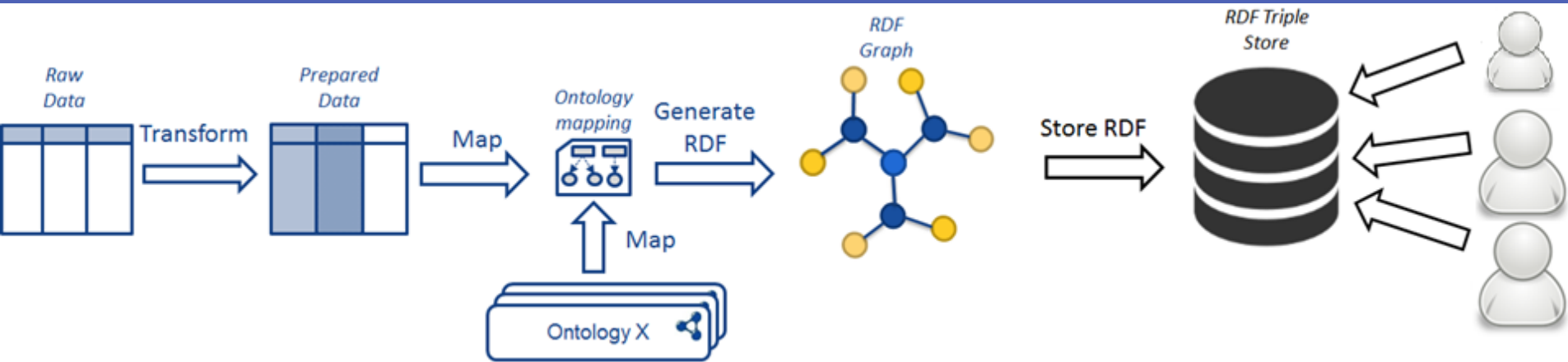
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# Overall Context

- **Open Data**  
... is changing the nature of business and reflects a cultural shift to an open society
- **Linked Data**  
... is great technology for Open Data but has been ignored by the mainstream
- **Data-as-a-Service (DaaS)**  
... is emerging as a cost-effective solution for publishing and consuming Linked Open Data  
... DataGraft: an emerging solution for DaaS

# Data Transformation and Linked Data Publication Process



- **Interactive** design of transformations
- **Repeatable** transformations
- **Reusable/shareable** transformations (user-based access)
- **Cloud-based** deployment of transformations
- **Self-serviced** process
- **Data and Transformation as-a-Service**

# DataGraft: Data-as-a-Service

For the Data Transformation and RDF Publication Process



Sharable/Repeatable/Reusable



Transformation



Tabular  
Data

Graph  
Data

# DataGraft

was developed to allow

**data workers**

to manage their data in a

**simple, effective, and efficient way**

Powerful

data transformation and

reliable data access capabilities

# **DataGraft key feature: Flexible management and sharing of data and transformations**

**Interactively build and  
modify transformations**

**Share transformations**

**Repeatable  
transformations**

**Fork, reuse and extend  
transformations**

**Programmatically access transformations**

# **DataGraft key feature: Reliable data hosting and querying services**

**Host data in a reliable,  
cloud-based storage**

**Share datasets**

**Query data on a dedicated  
endpoint**

**Programmatically access  
data**

# DataGraft – targeted impacts

## **Reduction in costs**

for organisations (e.g. SMEs, public organizations, etc.) which lack sufficient expertise and resources to publish open data

## **Reduction on the dependency**

of open data publishers on generic Cloud platforms to build, deploy and maintain their open/linked data from scratch

## **Increase in the speed of publishing**

new datasets and updating existing datasets

## **Reduction in the cost and complexity of developing**

applications that use open data

## **Increase in the reuse of open data**

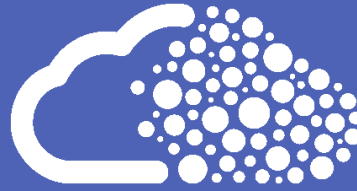
by providing reliable access to numerous open data sets to the applications hosted on DataGraft.net



# Example Demo Scenario

- Interactively create tabular data transformations
- Reuse/extend data transformations (incl. data annotations)
- RDF data publication and querying
- Integrating and visualizing data from different sources
- Using 3rd party tools with DataGraft

DEMO



<https://datagrft.net>

 DataCraft **beta**

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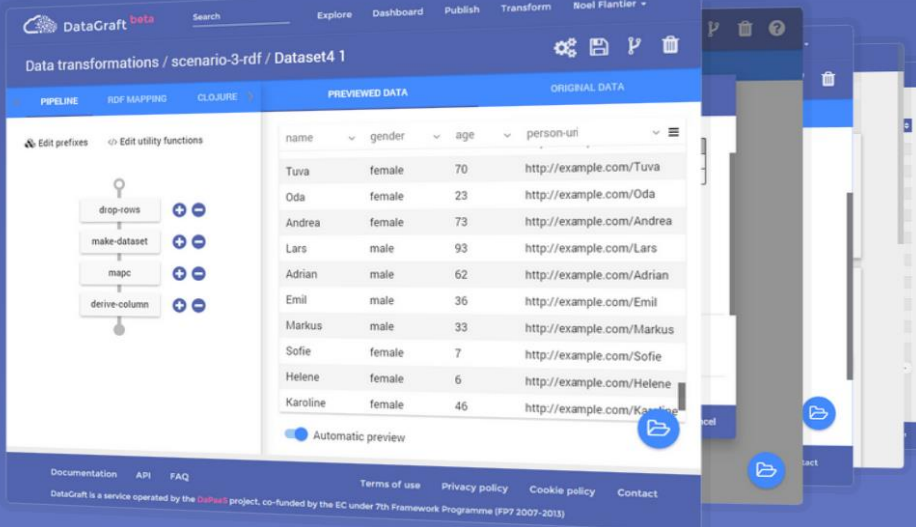
# One-stop-shop for hosted data management

Powerful data transformation and reliable data access capabilities

...for data workers to manage their data in a simple, effective, and efficient way

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[HOW IT WORKS](#)



The screenshot shows the DataCraft web interface. The top navigation bar includes 'DataCraft beta', 'Search', 'Explore', 'Dashboard', 'Publish', 'Transform', and 'Noel Flantier'. The main content area is titled 'Data transformations / scenario-3-rdf / Dataset4 1'. It features a 'PIPELINE' section on the left with a flowchart showing steps: 'drop-rows', 'make-dataset', 'mapc', and 'derive-column'. The 'PREVIEWED DATA' section on the right displays a table with columns 'name', 'gender', 'age', and 'person-uri'. The table contains 10 rows of data. At the bottom, there are links for 'Documentation', 'API', 'FAQ', 'Terms of use', 'Privacy policy', 'Cookie policy', and 'Contact'. A footer note states: 'DataCraft is a service operated by the **DataHub** project, co-funded by the EC under 7th Framework Programme (FP7 2007-2013)'.

name	gender	age	person-uri
Tuva	female	70	http://example.com/Tuva
Oda	female	23	http://example.com/Oda
Andrea	female	73	http://example.com/Andrea
Lars	male	93	http://example.com/Lars
Adrian	male	62	http://example.com/Adrian
Emil	male	36	http://example.com/Emil
Markus	male	33	http://example.com/Markus
Sofie	female	7	http://example.com/Sofie
Helene	female	6	http://example.com/Helene
Karoline	female	46	http://example.com/Karoline

# Thank you!

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