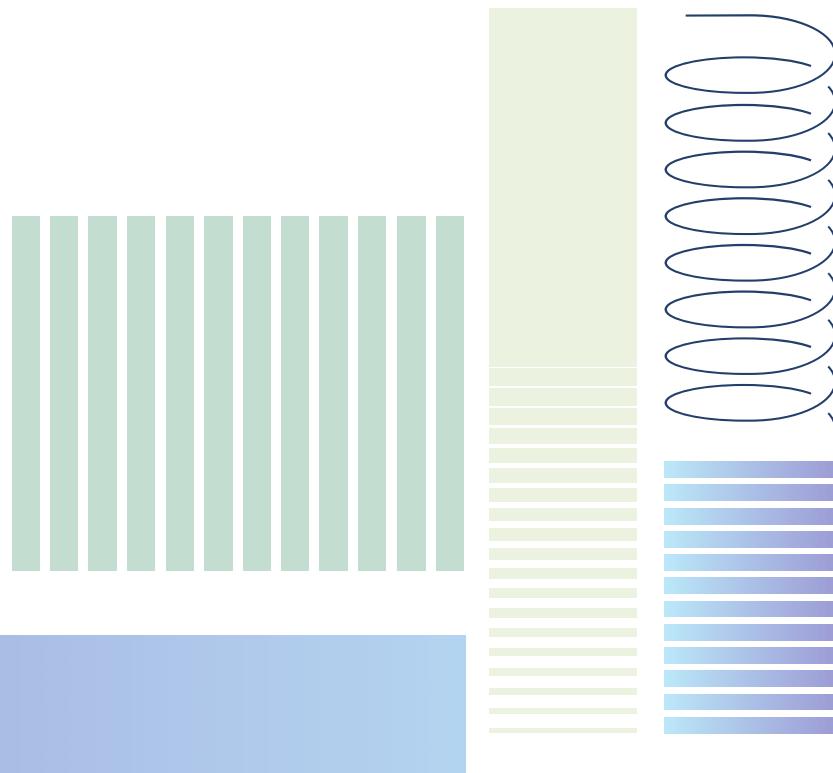


## D6.2: Data Interchange Application



Deliverable number and name

D6.2 – Data Interchange Application

Due date

31/08/2018

Work package

WP6

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Public

Version

V1.0

# SILKNOW

## Document revision history

Version	Date	Contributor	Comments
1.0	11/09/2018	Raphael Troncy	Full deliverable

## List of acronyms

CRM	Conceptual Reference Model
OWL	Ontology Web Language
RDF	Resource Description Framework
SKOS	Simple Knowledge Organization System
SPARQL	SPARQL Protocol and RDF Query Language

# SILKNOW

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This deliverable complements the deliverable D6.1 and provides the initial set of tools developed as part of the SILKNOW platform.

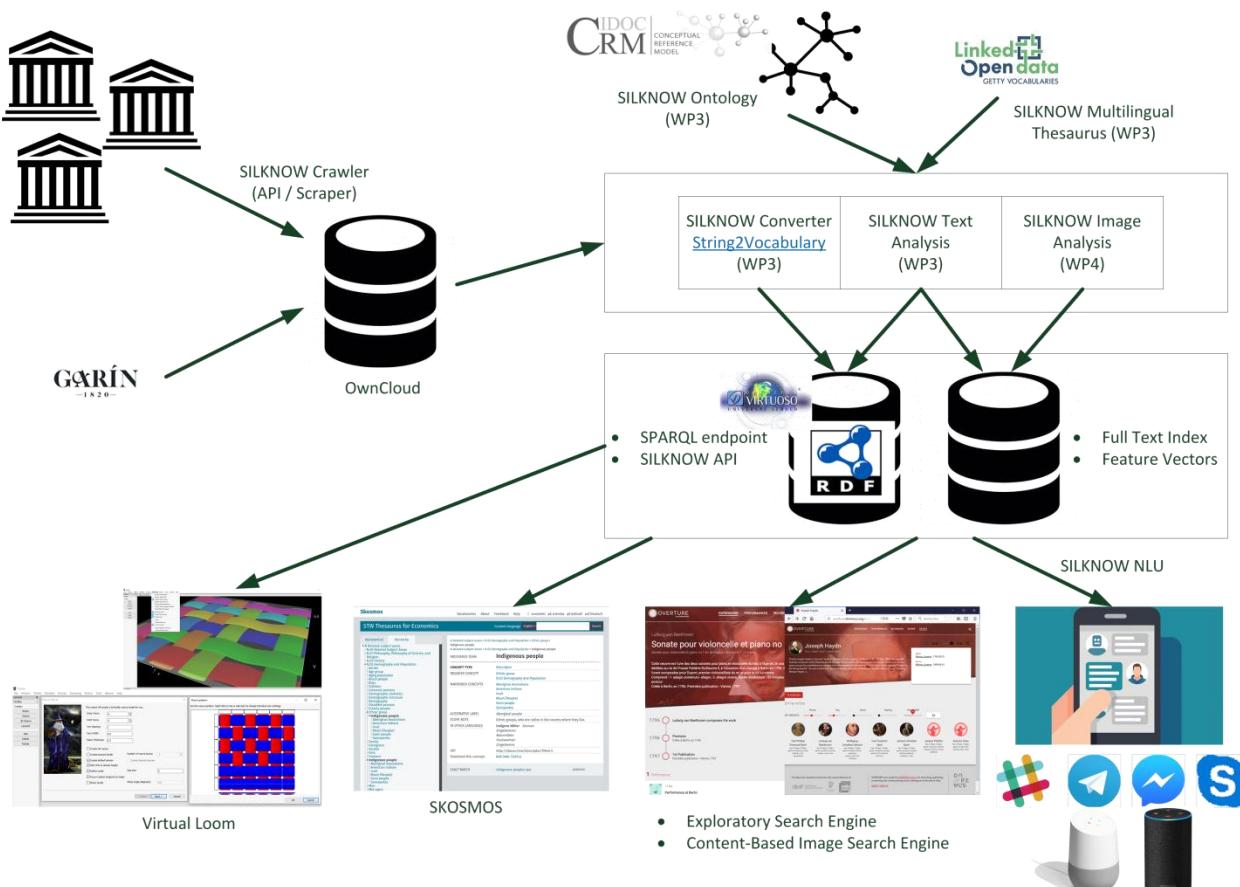
# SILKNOW

## 1. INTRODUCTION

The deliverable D6.2 is of type “Other” and corresponds to the actual software code that has been developed as part of the SILKNOW platform. We provide the various URLs where those tools are being developed and deployed.

## 2. SILKNOW General Architecture

The overall architecture of the SILKNOW platform is described in Deliverable D6.1 – Design Overall Software Structure and Data Sharing Framework.



# SILKNOW

## 2.1 SILKNOW Crawler

The crawler is made in Node.js. It uses [Axios](#) for HTTP requests, and [Cheerio](#) for DOM parsing when necessary. The source code is available at: <https://github.com/SILKNOW/crawler/>

### **Files structure**

- src/ source code of the various crawlers
- data/ resources storage (records metadata and images) for each crawler
- index.js entry point

### **List of crawlers**

- cdmr (CDMT Terrassa)
- ceres-mcu (Museos estatales del MEC)
- joconde (Joconde)
- les-arts-decoratifs (Musée des Arts Décoratifs)
- met-museum (Metropolitan Museum)
- mfa-boston (Boston Museum of Fine Arts)
- mtmad (Musée des Tissus de Lyon)
- risd-museum (Rhode Island School of Design)
- vam (Victoria and Albert Museum)

### **Usage**

```
$ npm start <crawler_name> # (eg. "risd-museum")
```

# SILKNOW

## **SILKNOW Database Statistics**

As of August 2018, the database has the following statistics:

Metropolitan Museum	7504 records	7244 images
Boston Museum of Fine Arts	6898 records	7931 images
Museos estatales del MEC	1290 records	2814 images
CDMT Terrassa	30916 records	21963 images
Musée des Arts Décoratifs	60 records	60 images
Victoria and Albert Museum	6299 records	19435 images
Joconde	366 records	367 images
Musée des Tissus de Lyon	661 records	2956 images
Rhode Island School of Design	689 records	1958 images
Garin 1820	3125 records	6626 images

## **2.2 SILKNOW Ontology**

The SILKNOW ontology is developed within the Task 3.3. This ontology is an implementation of the SILKNOW model as described in the Deliverable D2.1 – Data Model Definition.

The ontology will be referenced at <http://data.silknow.eu/ontology/>

## **2.3 SILKNOW Knowledge Base**

The SILKNOW knowledge base will be deployed at <https://silknow.eurecom.fr/>. A SPARQL endpoint will be available at <https://silknow.eurecom.fr/sparql>. We also plan to offer alternative access methods to the SILKNOW knowledge graph, via a REST API (developed using the Linked Data API) or via Linked Data Fragments interface.

# SILKNOW

## 3. REFERENCES

- [1] SILKNOW Deliverable D2.1 – Data Model Definition, May 2018.
- [2] SILKNOW Deliverable D2.2 – Initial Collected Data, July 2018
- [3] SILKNOW Deliverable D2.3 - Definition of the Graphical User Interface (GUI), August 2018.
- [4] SILKNOW Deliverable D2.4 – Pilot Scenarios Definition, September 2018.
- [5] SILKNOW Deliverable D4.1 – Training and Test Samples
- [6] SILKNOW Deliverable D6.1 – Design Overall Software Structure and Data Sharing Framework



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