

# Hansken - Academic version

The open platform for collaboration between the Hansken Community and the Digital Forensics Academic Community

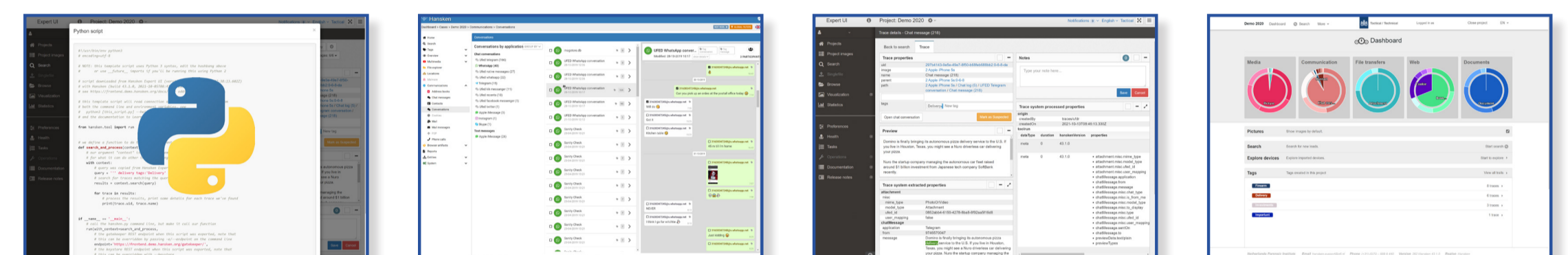
## What is Hansken?

Digital data and deduced digital traces play a continuously growing role in investigations and the furnishing of proof in crime cases. The volume, variety and variation of this data grow rapidly.

Hansken is an open digital forensics platform designed to give access to and insight in digital data and traces originating from seized and demanded material.

## Hansken interfaces

- Expert User Interface
- User interface for non-technical investigators
- User interface for intelligence analysts
- Python Application programming interface (API)



## Working together with academic researchers

- Educating digital forensic students
- Experimentation platform for testing innovative DF techniques
- Develop data for testing and for learning
- User interface innovation
- Academic license agreement for academia
- Option to experiment with Hansken in a research project with non-academic partners



## Hansken Academic SDK

- Hansken installed on a single-machine
- Containerized version of Hansken (Kubernetes)
- May not be used for case work
- SDK Documentation:
  - Hansken Query Language
  - Hansken python API documentation
  - Extraction-plugin SDK documentation



## Hansken Query Language (HQL) and trace model

- Every trace is enriched only once
- Every trace has a single 'parent'
- Simple & elegant (no silver bullet)
- Traces are not combined / linked
- Post-analysis done with Python where extra traces can be added



## Hansken Python API

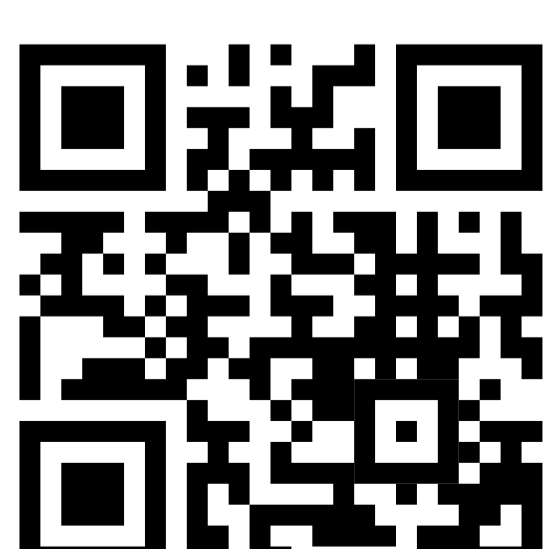
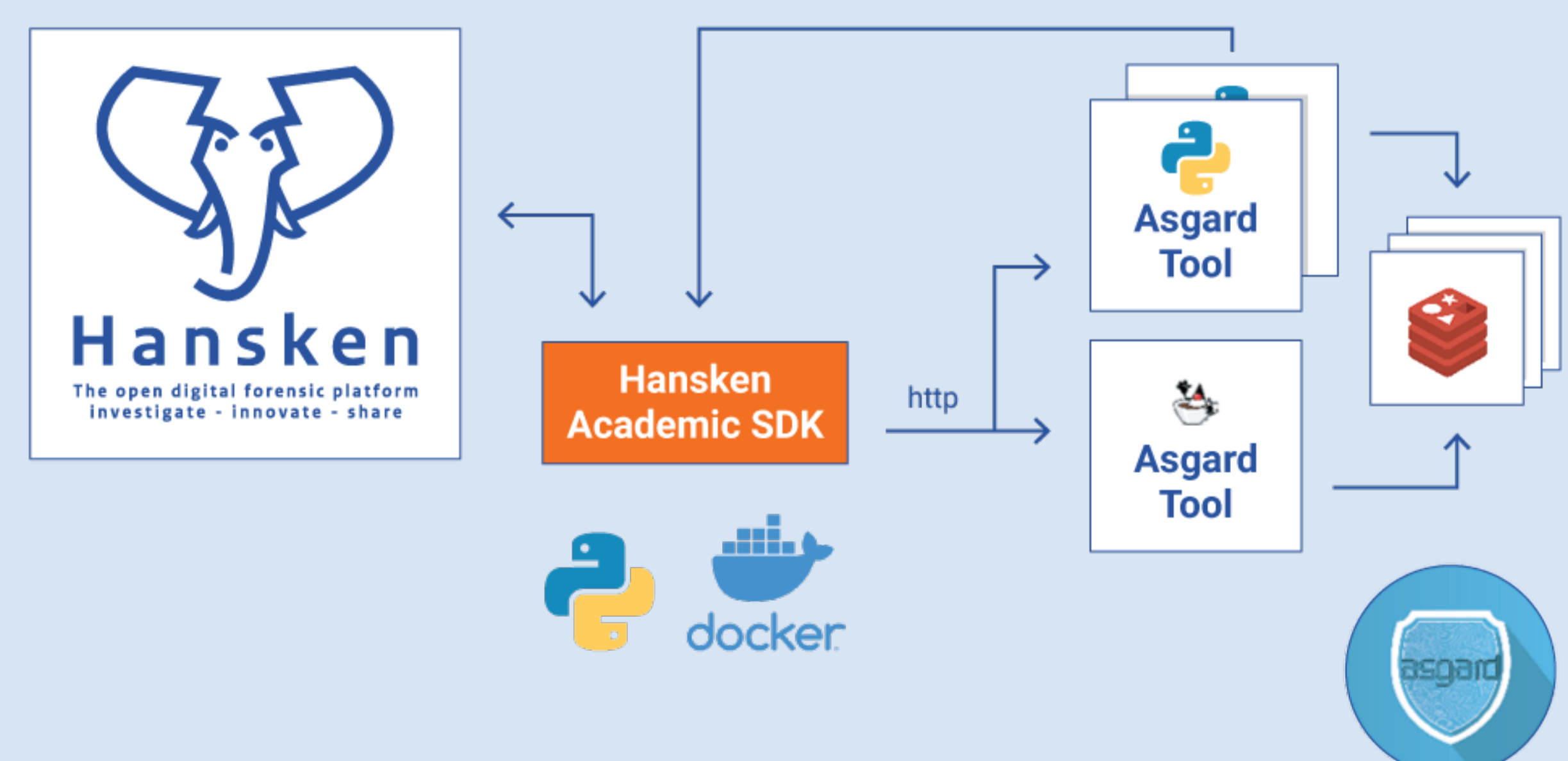
- Advanced search and retrieval of traces
- Analyse with Python data analyses techniques (e.g. Pandas etc)
- Write a script that extract new traces for types that are not (yet) supported by Hansken
- Jupyter notebook support in the Hansken Expert UI



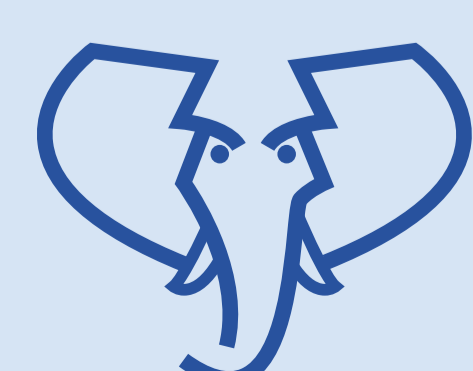
## Hansken Extraction Plugins

- Write plugins in Java or Python that can extract data
- Plugins run as docker containers inside the Hansken back-end
- Hansken extraction-plugin SDK available

## Example: Hansken & Project ASGARD



Want to know more? Visit [Hansken.org](https://Hansken.org)



**Hansken**  
The open digital forensic platform

