Introduction

Available Nodes

Tracing

Using GIS

FoodChain-Lab Overview

Introduction to KNIME

Available Nodes

Tracin

Using GIS data

- KNIME is an open source data analytics platform, that allows users to assemble a data pipeline called "workflow".
- A workflow is built by dragging nodes from the Node Repository onto the Workflow Editor and connecting them (https://tech.knime.org/workbench).
- Nodes are processing units with input- and/or output ports.
- Data is transferred over a connection from an out-port to the in-port of another node.
- A comprehensive KNIME quickstart guide can be found at https:
 - //tech.knime.org/files/KNIME_quickstart.pdf.
- An introduction video is available at https://www.youtube.com/watch?v=ft7Ksgss3Tc.

Introduction

Available Nodes

Tracing

data



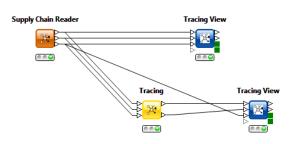
- Detailed descriptions of all nodes are available in the Node Description view of the KNIME workbench (https://tech.knime.org/workbench).
- All inputs and outputs are either data tables (triangles) or images (green square). Therefore standard KNIME nodes (Row Filter, Image Port Writer, ...) can be used in FoodChain-Lab workflows.

Introduction to KNIME

Available Nodes

Tracing

Using GIS data



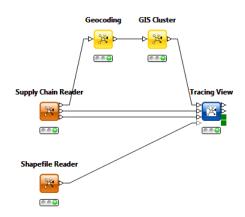
- Supply chain data is read from the internal database via the Supply Chain Reader.
- This data can be visualized with the Tracing View. The Tracing View also allows to perform a tracing on the data.
- The Tracing node performs tracing without visualization. Its output can be used in the Tracing View (e.g. to perform some tracings as a preprocessing step)

Introduction

Available Nodes

Tracing

Using GIS data



- The **Geocoding** node allows to acquire latitude/longitude data from addresses.
- This data can be geographically clustered with the GIS Cluster node.
- The **Tracing View** allows geographical visualization, if GIS data is provided from the **Shapefile Reader**.