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Geocoding with Photon

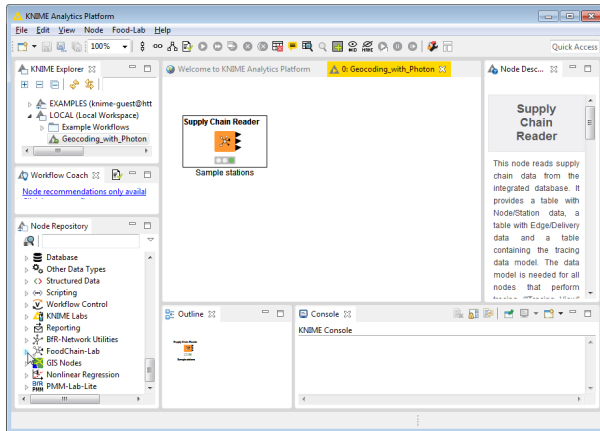
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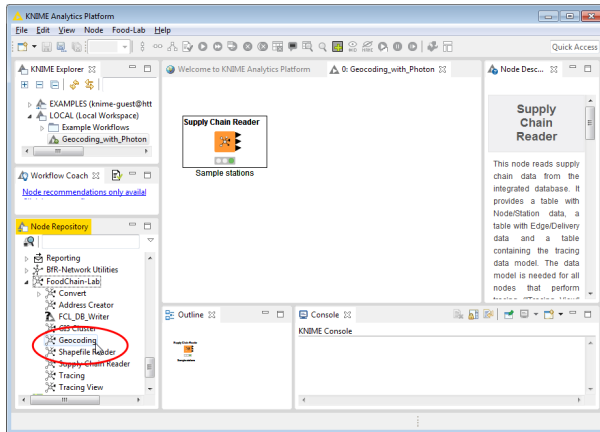
Learn

- what geocoding is
- how to use the Photon geocoding service

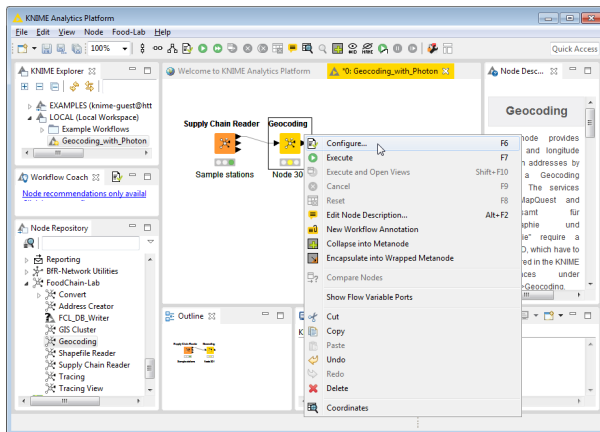
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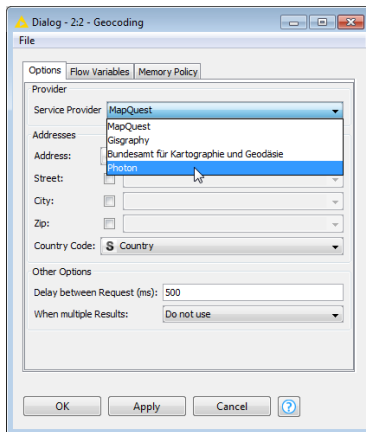
- Import the Geocoding workflow [“Geocoding_with_Photon.knwf”](#).



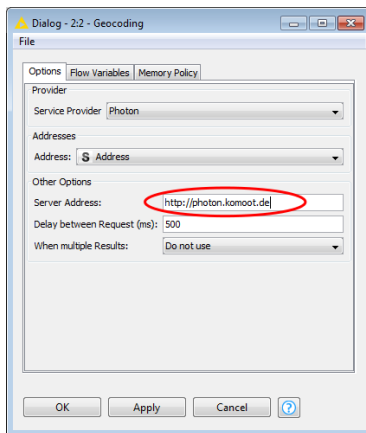
- To perform geocoding we need to add the **Geocoding** node. If the **Supply Chain Reader** is selected, double-click on the **Geocoding** node in the Node Repository.
- Another way to attach the **Geocoding** node to the **Supply Chain Reader** is to drag it from the Node Repository into the workflow editor and to connect the top output of the **Supply Chain Reader** with the input of the **Geocoding** node.



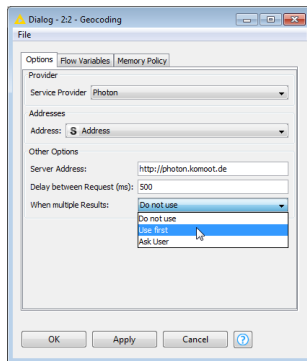
- The **Geocoding** node is connected to the **SupplyChainReader** and needs to be set up. Open its configuration by double clicking on it or by using its context menu (right click on the node, then choose “configure”).



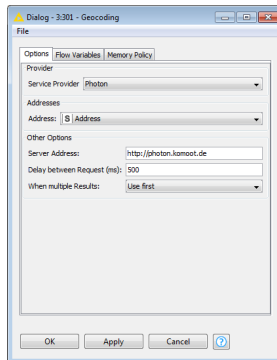
- Please choose the Service Provider “Photon”.



- The address is properly set, automatically.
- You need to set the server address. Please copy the URL <http://photon.komoot.de> into the respective field. This is a publicly available service.

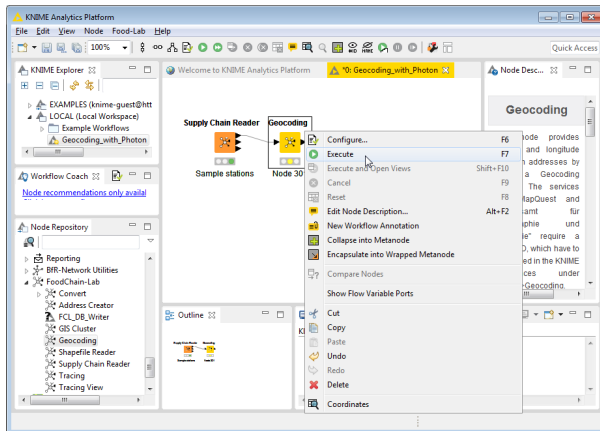


- For many requests geocoding services return multiple results, for example, if there are two streets with identical names. In the dropdown menu “When multiple Results” you can decide how to deal with this.
- “Do not use”: All multiple results will be discarded.
 - “Use first”: The first entry of the multiple results list will be displayed for each address
 - “Ask User”: All multiple results will be displayed. The user needs to go through all results and pick the favourite one manually. This is a lot of work for large data sets.



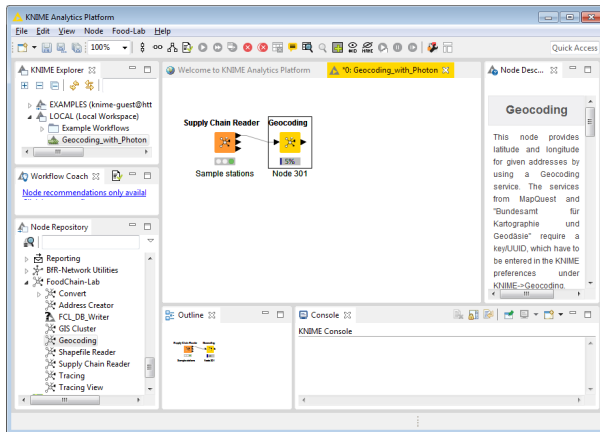
- In this tutorial select “Use first” and click “OK”.

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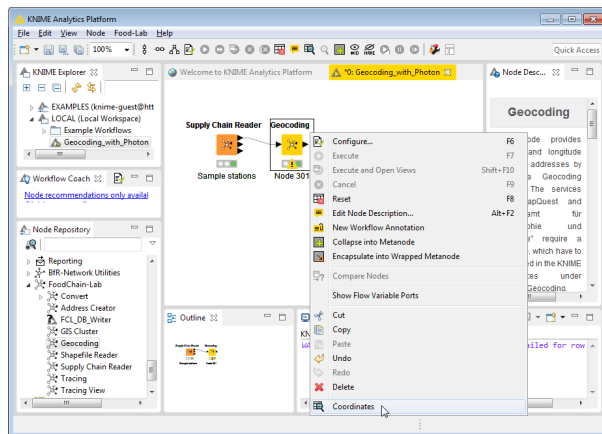


- Right click on the **Geocoding** node and select “Execute”.

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- The execution might take a while.
- The progress bar under the node shows the percentage of data which has been processed.



- When the execution is finished, we can look at the results.
- Right click on the **Geocoding** node and select “Coordinates”.

- In the dialog that pops up, you can look at the whole data table.

Coordinates - 0.2 - Geocoding

File Hiltie Navigation View

Table "default" - Rows: 40 Spec. Columns: 16 Properties: 16 Variables

Row ID		GeocodingSt...	Geocod...	Geocod...	Geocod...	Geocod...	Geocod...	Latitude	Longitude
Row0	iot.de/api?q=Schongauer+Strasse+60%2C+82383+Peissenbergsm..._tag=highway:residential&limit=2	Schongauer Straße	Peissenberg	?	Bavaria	Germany	82380	47.791	11.061
Row1	iot.de/api?q=Bogenstrasse+2%2C+82752+SONTHOFENsm..._tag=highway:residential&limit=2	Bogenstraße	Sonthofen	?	Bavaria	Germany	87527	47.512	10.28
Row2	iot.de/api?q=In Thel+2%2C+82377+Penzbergsm..._tag=highway:residential&limit=2	In Thel	Penzberg	?	Bavaria	Germany	82377	47.756	11.377
Row3	iot.de/api?q=Hauptstrasse+3%2C+79004+Dogenheim..._tag=highway:residential&limit=2	Hauptstraße	Dogenheim	?	Baden-Würt...	Germany	79004	47.607	8.168
Row4	iot.de/api?q=Hauptstrasse+17%2C+83075+Außernsm..._tag=highway:residential&limit=2	Hauptstraße	Nordwestsch...	?	Brandenburg	Germany	17291	53.335	13.653
Row5	iot.de/api?q=Kleine+Breite+2%2C+78387+Gessingen..._tag=highway:residential&limit=2	Kleine Breite	Gessingen	?	Baden-Würt...	Germany	78387	47.924	8.641
Row6	iot.de/api?q=Salz Strasse+12%2C+83451+Pidingsm..._tag=highway:residential&limit=2	Salzburger Straße	Piding	?	Bavaria	Germany	83451	47.772	12.915
Row7	iot.de/api?q=Herzog-Albrecht-Allee+49%2C+88361+Althausen..._tag=highway:residential&limit=2	Herzog-Albrecht...	Althausen	?	Baden-Würt...	Germany	88361	47.932	9.946
Row8	iot.de/api?q=Hauptstrasse+125%2C+79699+Münchsm..._tag=highway:residential&limit=2	Hauptstraße	Münchsm...	?	Baden-Würt...	Germany	79699	47.645	7.775
Row9	iot.de/api?q=H.N.C.Häffnerstrasse+11%2C+79541+H.N.C.Häffnerschloßsm..._tag=highway:residential&limit=2	Römerstraße	Lörrach	?	Baden-Würt...	Germany	79541	47.629	7.698
Row10	iot.de/api?q=Dammkarlstrasse+39%2C+83481+Mittenwaldsm..._tag=highway:residential&limit=2	Dammkarlstraße	Mittenwald	?	Bavaria	Germany	83481	47.442	11.266
Row11	iot.de/api?q=Traunsteiner+Strasse+2%2C+83329+Viaringsm..._tag=highway:residential&limit=2	Traunsteiner Straße	Vönnberg	?	Bavaria	Germany	83329	47.9	12.691
Row12	iot.de/api?q=Bodenseestrasse+106%2C+88682+Minnenhausen..._tag=highway:residential&limit=2	Bodenseestraße	Salem	?	Baden-Würt...	Germany	88682	47.764	9.285
Row13	iot.de/api?q=GRÜNTENTSTRASSE+7%2C+87527+SONTHOFENsm..._tag=highway:residential&limit=2	Grüntentstraße	Sonthofen	?	Bavaria	Germany	87527	47.514	10.279
Row14	iot.de/api?q=H.HALPENTSTRASSE+47%2C+83324+H.HALPOLDINGsm..._tag=highway:residential&limit=2	Hauptstraße	Ruhpolding	?	Bavaria	Germany	83324	47.761	12.649
Row15	iot.de/api?q=SCHLAMPENSTRASSE+5%2C+83059+HOLBERGsm..._tag=highway:residential&limit=2	Schlampenstr...	Koblenz	?	Bavaria	Germany	83059	47.85	12.065
Row16	iot.de/api?q=Bedeveg+3%2C+87059+Immenstadtsm..._tag=highway:residential&limit=2	Bedeveg	Immenstadt	?	Bavaria	Germany	87059	47.561	10.211
Row17	iot.de/api?q=Ludwigstrasse+26%2C+83278+Traunstein..._tag=highway:residential&limit=2	Ludwigstraße	Traunstein	?	Bavaria	Germany	83278	47.871	12.642
Row18	iot.de/api?q=Weiler+Strasse+3%2C+83277+Fischen..._tag=highway:residential&limit=2	?	?	?	?	?	?	?	?
Row19	iot.de/api?q=M.N.C.3%2C+83703+Grundsm..._tag=highway:residential&limit=2	Münchner Straße	Gmund	?	Bavaria	Germany	83703	47.762	11.733
Row20	iot.de/api?q=Kaisersstrasse+19%2C+83022+Rosenheimsm..._tag=highway:residential&limit=2	Kaisersstraße	Rosenheim	?	Bavaria	Germany	83022	47.858	12.128
Row21	iot.de/api?q=Frederichstrasse+46%2C+88320+Freisinger..._tag=highway:residential&limit=2	Frederichstraße	Wiesinger ten	?	Baden-Würt...	Germany	88320	47.804	9.639
Row22	iot.de/api?q=Mainlandstrasse+57%2C+79843+H.N.C.3%2C+87619+Löffingen..._tag=highway:residential&limit=2	Mainlandstraße	Löffingen	?	Baden-Würt...	Germany	79843	47.892	8.339
Row23	iot.de/api?q=Robert+Koch+Strasse+1%2C+82547+Eurasburgsm..._tag=highway:residential&limit=2	Robert-Koch-Straße	Eurasburg	?	Bavaria	Germany	82547	47.857	11.408
Row24	iot.de/api?q=Herrenstrasse+244%2C+88353+Kösling..._tag=highway:residential&limit=2	Herrenstraße	Kölling	?	Baden-Würt...	Germany	88353	47.788	9.883
Row25	iot.de/api?q=Wilhelm+Stahl+Strasse+6%2C+79822+Tilsee+Neustadt..._tag=highway:residential&limit=2	Wilhelm-Stahl-Str...	Tilsee-Neus...	?	Baden-Würt...	Germany	79822	47.909	8.217
Row26	iot.de/api?q=Max-Josef+Strasse+14%2C+83209+Grasslkarlenfeldsm..._tag=highway:residential&limit=2	Max-Josef-Straße	Gröfkarlen...	?	Bavaria	Germany	83209	47.887	12.075
Row27	iot.de/api?q=Hebelhornstrasse+46%2C+87361+Oberndorfsm..._tag=highway:residential&limit=2	Hebelhornstraße	Oberndorf	?	Bavaria	Germany	87361	47.407	10.265
Row28	iot.de/api?q=Gartenstrasse+38%2C+88410+Bad+Würzachsm..._tag=highway:residential&limit=2	Gartenstraße	Bad Würzach	?	Baden-Würt...	Germany	88410	47.908	9.894
Row29	iot.de/api?q=HOHENZOLLENSTRASSE+42%2C+88639+WALDsm..._tag=highway:residential&limit=2	Hohenzollenstraße	Wald	?	Baden-Würt...	Germany	88639	47.933	9.172
Row30	iot.de/api?q=Am+Litzelbacher+Weg+15%2C+88630+Pfulldorfsm..._tag=highway:residential&limit=2	Am Litzelbacher ...	Pfulldorf	?	Baden-Würt...	Germany	88630	47.933	9.237
Row31	iot.de/api?q=Letteweg+11%2C+79639+Grenzach-Wyhlen..._tag=highway:residential&limit=2	Letteweg	Grenzach-W...	?	Baden-Würt...	Germany	79639	47.549	7.622
Row32	iot.de/api?q=Petersgasse+3%2C+82418+Munnaulsm..._tag=highway:residential&limit=2	Petersgasse	Munnaulsm...	?	Bavaria	Germany	82418	47.679	11.2
Row33	iot.de/api?q=Obere+Stadt+55%2C+82362+Weilheimsm..._tag=highway:residential&limit=2	Obere Stadt	Weilheim in ...	?	Bavaria	Germany	82362	47.838	11.151
Row34	iot.de/api?q=Schmidengasse+5%2C+82487+Oberammer..._tag=highway:residential&limit=2	Schmidengasse	Oberammer...	?	Bavaria	Germany	82487	47.597	11.065
Row35	iot.de/api?q=GRASSAUER+STRASSE+46%2C+83336+3%2C+83336+Cheresheimsm..._tag=highway:residential&limit=2	Grassauer Straße	Überssee	?	Bavaria	Germany	83336	47.82	12.481
Row36	iot.de/api?q=Andreas-Schmidt-Strasse+11%2C+82362+Weilheimsm..._tag=highway:residential&limit=2	Andreas-Schmidt...	Weilheim in ...	?	Bavaria	Germany	82362	47.843	11.147

■ Scroll to the right to look at the columns with latitude and longitude (the two rightmost columns).

■ For 39 out of 40 addresses longitude and latitude could be found. One geocoding request was not successful.