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Geocoding with Photon

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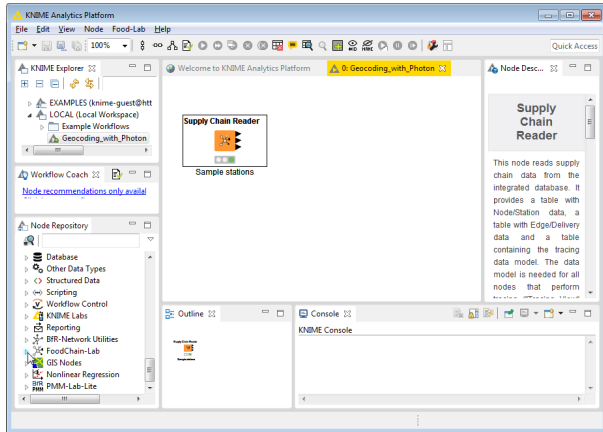
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Learn

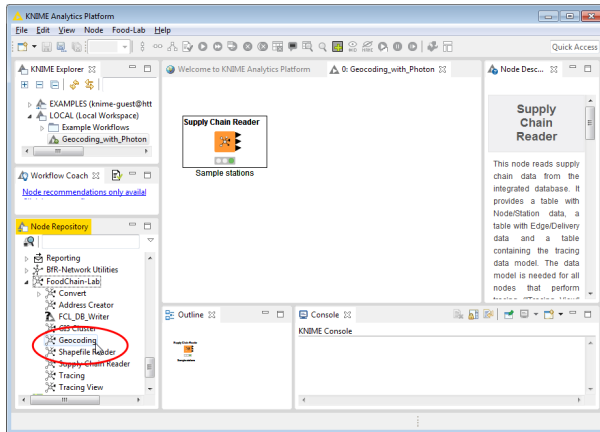
- what geocoding is
- how to use the Photon geocoding service

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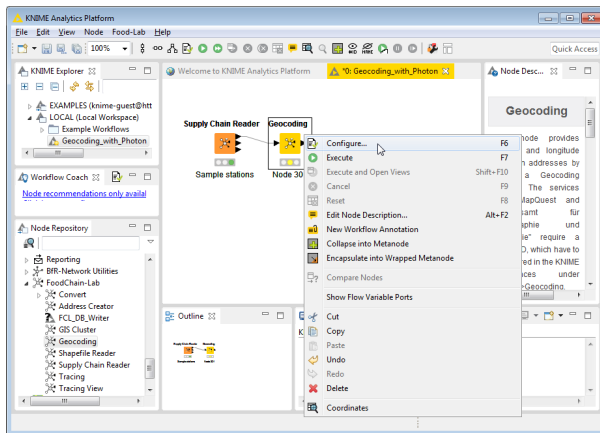
- Import the Geocoding workflow [“Geocoding_with_Photon.knwf”](#).



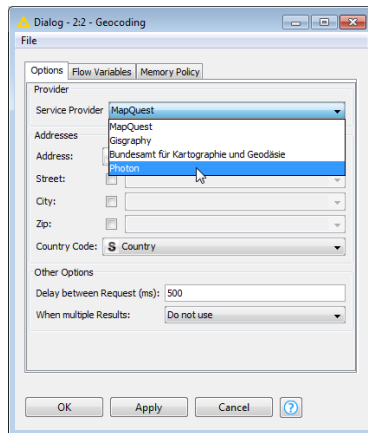
- To perform geocoding we need to add the **Geocoding** node. If the **Supply Chain Reader** is selected, double-click on the **Geocoding** node in the Node Repository.
- Another way to attach the **Geocoding** node to the **Supply Chain Reader** is to drag it from the Node Repository into the workflow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

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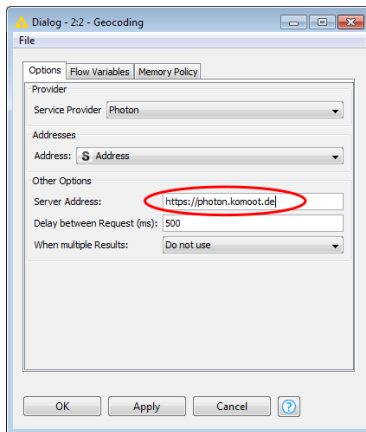
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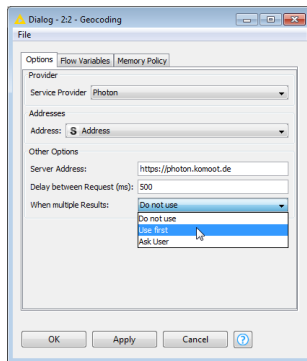
- The **Geocoding** node is connected to the **SupplyChainReader** and needs to be set up. Open its configuration by double clicking on it or by using its context menu (right click on the node, then choose “configure”).



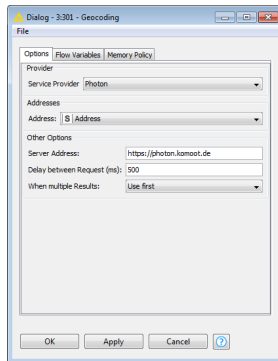
- Please choose the Service Provider “Photon”.



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

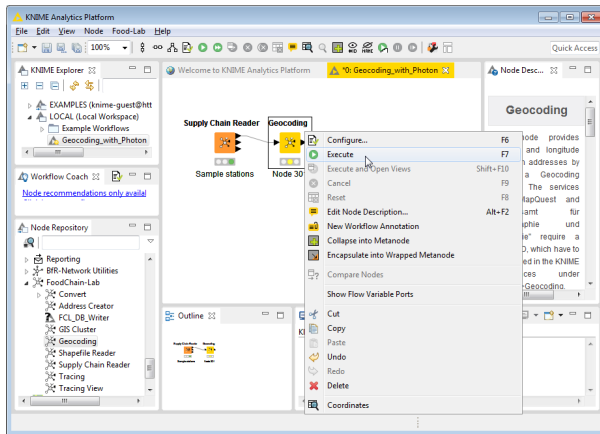


- For many requests geocoding services return multiple results, for example, if there are two streets with identical names. In the dropdown menu “When multiple Results” you can decide how to deal with this.
 - “Do not use”: All multiple results will be discarded.
 - “Use first”: The first entry of the 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”.

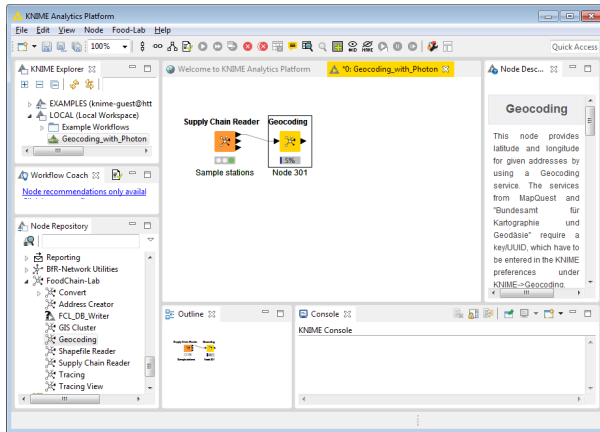
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- Right click on the **Geocoding** node and select “Execute”.

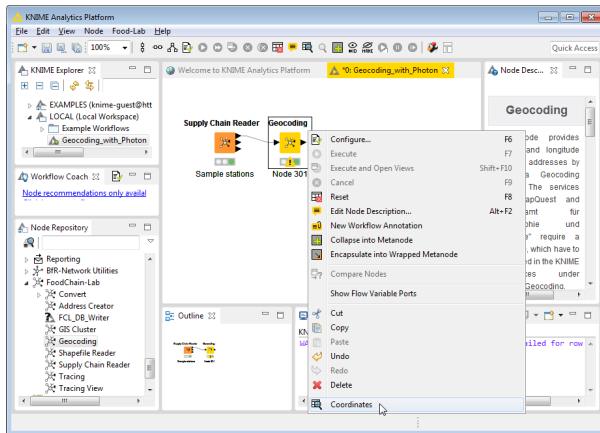
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- The execution might take a while.
- The progress bar under the node shows the percentage of data which has been processed.

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

Coordinates - 0.2 - Geocoding										
File Hilite Navigation View										
Table 'default' - Rows: 40 Spec - Columns: 16 Properties Flow Variables										
Row ID	\$ ID	\$ Name	\$ Address	\$ Country	\$ Simple...	\$ DeadStart	\$ DeadEnd	\$ GeocodingURL	\$ Geo	
Row0	-2094546963	Kron Marlies	Schongauer Strasse 60, 82383 Peissenberg	DE	false	false	false	https://photon.komoot.de/api/?q=Schongauer+Strasse+60%2C+82383+Peissenberg		
Row 1	-193833008	Schach Peter	Bogenstrasse 2, 87527 SONT'HOFEN	DE	false	false	false	https://photon.komoot.de/api/?q=Bogenstrasse+2%2C+87527+SONT'HOFEN	Bogenstr	
Row 2	-1666638660	Jung Ralf	Im Thal 2, 82277 Penzberg	DE	false	false	false	https://photon.komoot.de/api/?q=Im+Thal+2%2C+82277+Penzberg	Im Thal	
Row 3	-1649474284	Martin Paul	Hauptstrasse 3, 79004 Döggem	DE	false	false	false	https://photon.komoot.de/api/?q=Hauptstrasse+3%2C+79004+Döggem	Hauptstr	
Row 4	-1629790613	Antretter R...	Hauptstrasse 17, 83075 Au	DE	false	false	false	https://photon.komoot.de/api/?q=Hauptstrasse+17%2C+83075+Au	Hauptstr	
Row 5	-1598026898	Bühler	Kleine Breite 2, 78187 Gessingen	DE	false	false	false	https://photon.komoot.de/api/?q=Kleine+Breite+2%2C+78187+Gessingen	Kleine Br	
Row 6	-149469366	Planthaler Z...	Salz-Strasse 12, 83451 Piding	DE	false	false	false	https://photon.komoot.de/api/?q=Salz-Strasse+12%2C+83451+Piding		
Row 7	-1393734210	Hecht	Herzog-Albrecht-Allee 49, 88361 Althausen	DE	false	false	false	https://photon.komoot.de/api/?q=Herzog-Albrecht-Allee+49%2C+88361+Althausen		
Row 8	-1285648160	Bachle Bern	Hauptstrasse 125, 79609 Schopfheim	DE	false	false	false	https://photon.komoot.de/api/?q=Hauptstrasse+125%2C+79609+Schopfheim		
Row 9	-1232735466	Kracht Roland	Holzstrasse 13, 79541 Lörrach	DE	false	false	false	https://photon.komoot.de/api/?q=Holzstrasse+13%2C+79541+LÖRRACH	Holzstr	
Row 10	-1188454082	Frank Adolf	Dammkarlstrasse 39, 82481 Mittenwald	DE	false	false	false	https://photon.komoot.de/api/?q=Dammkarlstrasse+39%2C+82481+Mittenwald		
Row 11	-1147021509	Grabl	Transtainer Strasse 2, 83329 Waging	DE	false	false	false	https://photon.komoot.de/api/?q=Transtainer+Strasse+2%2C+83329+Waging	Transtai	
Row 12	-1042110371	Sautter Alfons	Bodenseestrasse 106, 89682 Mittenhausen	DE	false	false	false	https://photon.komoot.de/api/?q=Bodenseestrasse+106%2C+89682+Mittenhausen	Bodense	
Row 13	-937266750	RABOLD H...	GRÜENTENSTRASSE 7, 87527 SONT'HOFEN	DE	false	false	false	https://photon.komoot.de/api/?q=GRÜENTENSTRASSE+7%2C+87527+SONT'HOFEN	Grüntens	
Row 14	-88501194	WACHNER YA...	HAUPTSTRASSE 47, 83224 KILBOLZING	DE	false	false	false	https://photon.komoot.de/api/?q=HAUPTSTRASSE+47%2C+83224+KILBOLZING	Hauptstr	
Row 15	-6842231178	FRISKA BRKA	SCHUMANNSTRASSE 5, 83059 KOLBERMOOR	DE	false	false	false	https://photon.komoot.de/api/?q=SCHUMANNSTRASSE+5%2C+83059+KOLBERMOOR		
Row 16	-56492380	Riescher Peter	Badeweg 3, 87509 Immenstadt	DE	false	false	false	https://photon.komoot.de/api/?q=Badeweg+3%2C+87509+Immenstadt	Badeweg	
Row 17	-552693339	Mayer Wolf...	Ludwigstrasse 26, 83278 Traunstein	DE	false	false	false	https://photon.komoot.de/api/?q=Ludwigstrasse+26%2C+83278+Traunstein	Ludwigst	
Row 18	-510652320	Voggel Anton	Weller Strasse 5, 87527 Fischen	DE	false	false	false	https://photon.komoot.de/api/?q=Weller+Strasse+5%2C+87527+Fischen		
Row 19	-222036612	Guggenbichl...	Münchner Strasse 11, 83703 Gmund	DE	false	false	false	https://photon.komoot.de/api/?q=MÜNCHNER+Strasse+11%2C+83703+Gmund		
Row 20	-207746550	Kiesner An...	Kaiserstrasse 19, 83022 Rosenheim	DE	false	false	false	https://photon.komoot.de/api/?q=Kaiserstrasse+19%2C+83022+Rosenheim	Kaiserstr	
Row 21	-130275997	Spehr Waltr...	Friedhofstrasse 6, 80210 Völklingen	DE	false	false	false	https://photon.komoot.de/api/?q=Friedhofstrasse+6%2C+80210+Völklingen	Friedhof	
Row 22	-117421376	Müller Bernd	Mäenlandstrasse 5, 79843 Leffingen	DE	false	false	false	https://photon.komoot.de/api/?q=Mäenlandstrasse+5%2C+79843+LÖRRACH	Mäenlan	
Row 23	-91556729	Libotte Walter	Robert Koch Strasse 1, 82547 Eurasburg	DE	false	false	false	https://photon.komoot.de/api/?q=Robert+Koch+Strasse+1%2C+82547+Eurasburg	Robert K	
Row 24	-303376716	Wienzier	Herrenstrasse 24, 88353 Kesslegg	DE	false	false	false	https://photon.komoot.de/api/?q=Herrenstrasse+24%2C+88353+Kesslegg	Herrenst	
Row 25	-542906671	Hir i Kiemens...	Wilhelm-Stahl-Strasse 6, 79822 Titisee-Neus...	DE	false	false	false	https://photon.komoot.de/api/?q=Wilhelm-Stahl-Strasse+6%2C+79822+Titisee-Neus...	Wilhelm	
Row 26	-807302264	Brosch Gerhart	Max-Josef-Strasse 14, 83109 Grosskaroline...	DE	false	false	false	https://photon.komoot.de/api/?q=Max-Josef-Strasse+14%2C+83109+Grosskaroline...	Max-Jose	
Row 27	-872727243	Hedmer An...	Heidelstrasse 46, 87561 Oberstdorf	DE	false	false	false	https://photon.komoot.de/api/?q=Heidelstrasse+46%2C+87561+Oberstdorf	Hedmer	
Row 28	-954980192	Geyer Josef	Gartenstrasse 30, 88410 Bad Wurzach	DE	false	false	false	https://photon.komoot.de/api/?q=Gartenstrasse+30%2C+88410+Bad+Wurzach	Gartenst	
Row 29	-959356300	ERATH EGOH	HÖHNZOLLERSTRASSE 42, 88639 WALD	DE	false	false	false	https://photon.komoot.de/api/?q=HÖHNZOLLERSTRASSE+42%2C+88639+WALD	Höhenzoll	
Row 30	-1086124279	Dehm Otto ...	Am Litzelbacher Weg 15, 88630 Pfaffendorf	DE	false	false	false	https://photon.komoot.de/api/?q=Am+Litzelbacher+Weg+15%2C+88630+Pfaffendorf	Am Litzel	
Row 31	-1200618531	Otte	Lettenweg 11, 79639 Grenzach-Wyhlen	DE	false	false	false	https://photon.komoot.de/api/?q=Lettenweg+11%2C+79639+Grenzach-Wyhlen	Lettenwe	
Row 32	-1259984197	Pantle Hor...	Petersgasse 3, 82418 Murnau	DE	false	false	false	https://photon.komoot.de/api/?q=Petersgasse+3%2C+82418+Murnau	Petersgass	
Row 33	-1386661959	Ebert Josef	Obere Stadt 55, 82362 Weilheim	DE	false	false	false	https://photon.komoot.de/api/?q=Obere+Stadt+55%2C+82362+Weilheim	Obere St	
Row 34	-1497889952	Ammergau...	Schützlergasse 5, 82487 Oberammergau	DE	false	false	false	https://photon.komoot.de/api/?q=Schützlergasse+5%2C+82487+Oberammergau		
Row 35	-1537444135	BRUNNER K...	GRASSAUER STRASSE 46, 83236 Übersee	DE	false	false	false	https://photon.komoot.de/api/?q=GRASSAUER+STRASSE+46%2C+83236+Übersee		
Row 36	-1584336686	Staudinger ...	Andreas-Schmidner-Strasse 11, 82362 Weil...	DE	false	false	false	https://photon.komoot.de/api/?q=Andreas-Schmidner-Strasse+11%2C+82362+Weil...	Andreas-	

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

- 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.