



**The Kiel Data Hub and how citizens can donate data to
create a smarter city.**
Thies Schönfeldt, meteolytix

 **WERDE
DATENSPENDER**

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Data is collected at many different places in Smart Cities.



But often the data is not linked together and therefore not well used.

- Open Data which is available at different sources:
 - city council protocols
 - parking spot sensors
 - weather
 - etc.
- BUT:
 - no central storage
 - no central access platform
 - citizen participation is limited

Kiel Data Hub shall be a component for accessing and spreading open data.

The platform *Kiel Data Hub* wants to...

- connect,
- interpret,
- visualize,
- and harness „open“ und „donated“ data.

With these information we can create new ideas & projects which then can be used by citizens, companies and city administrations to start a smart urban development.

Kiel Parkhäuser

Parkhaus

All

Parkhaus

Altstadt

CAP

Exerzierplatz

Förde-Parkhaus

Holstenstraße I

Holstenstraße II

Hotel Steigenberger - Conti Hansa

Jensendamm

Karstadt Sophienblatt

Ostseekai Nord

Ostseekai Süd

Sophienhof

Sophienhof - Parkhaus

Sophienhof - Parkplatz Hopfenstraße

Sparkassen-Arena

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What did we do in this years „Digitale Woche Kiel“ hackathon?

- Implementation of FIWARE Context Broker
- Implementation of standard protocols
- Implementation of further sources
 - Park sensors by Stadtwerke Kiel (LoRaWAN)
 - Sensorbox (weather)
 - Datenspender-App

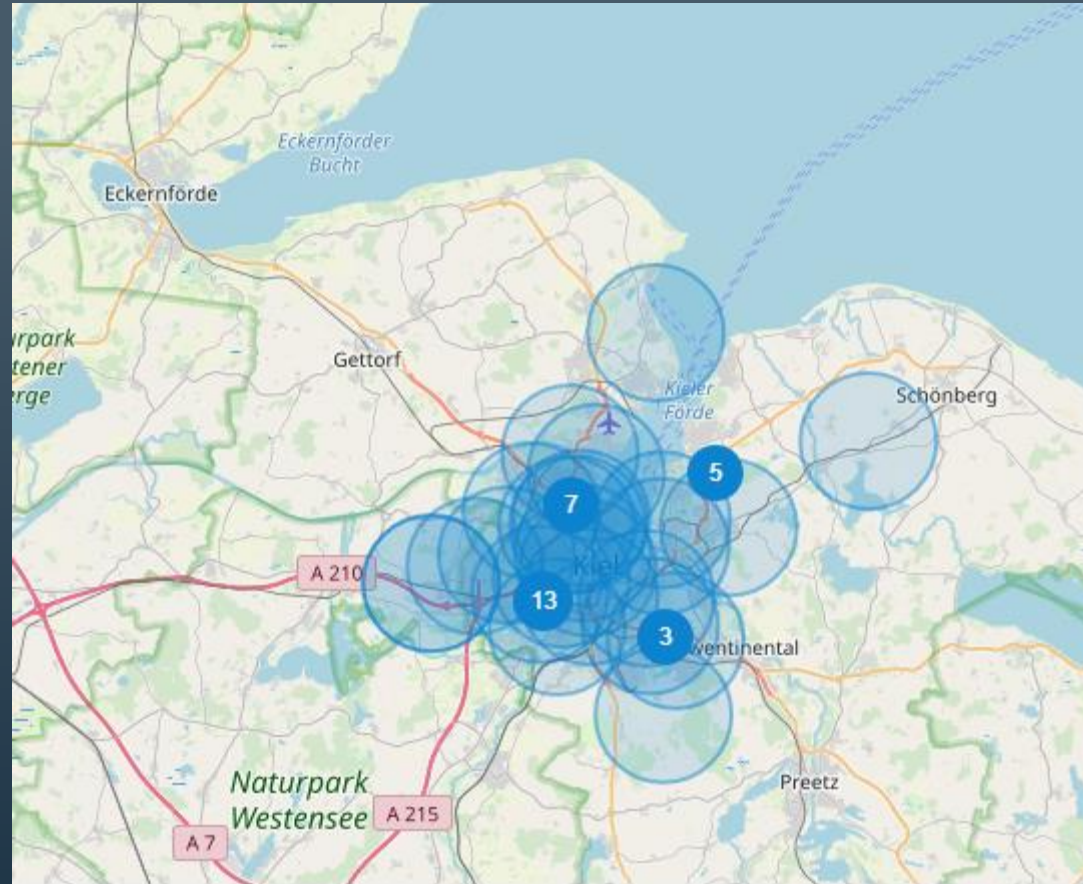
LoRaWAN Integration of parking spot sensors into Kiel Data Hub.

- Sensors report whether a parking spot is available.
- LoRaWAN sensors can communicate over many kilometres
- Network needs gateway boxes for Internet access.
- Network can be used for a wide variety of sensors.
- Network in Kiel is operated by thethingsnetwork.org



Source: stadtwerke-kiel.de

Whole city of Kiel is covered by LoRaWAN.



Screenshot: <https://www.thethingsnetwork.org/community/kiel/>, 7.10.2019

Parken in Kiel ▾

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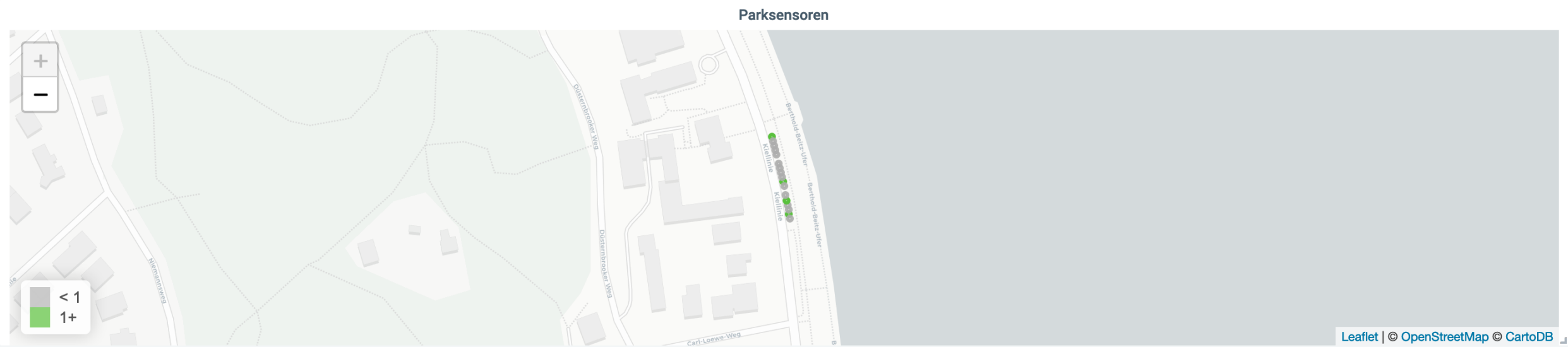
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Last 6 hours

↺

Parkhaus

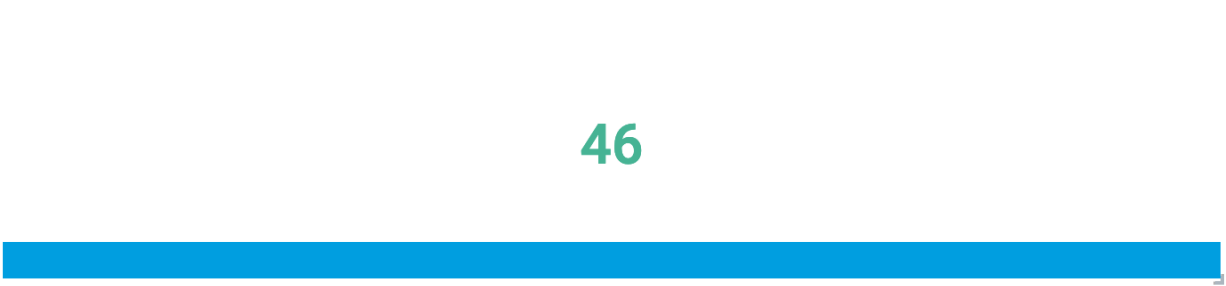
All ▾



Parkhäuser in Kiel

Parkhaus ▲	Gesamt	Frei
Altstadt	557	46
CAP	458	0
Exerzierplatz	450	0
Förde-Parkhaus	450	137
Holstenstraße I	350	287
Holstenstraße II	332	112
Hotel Steigenberger - Conti Hansa	54	10

Parkhaus Altstadt



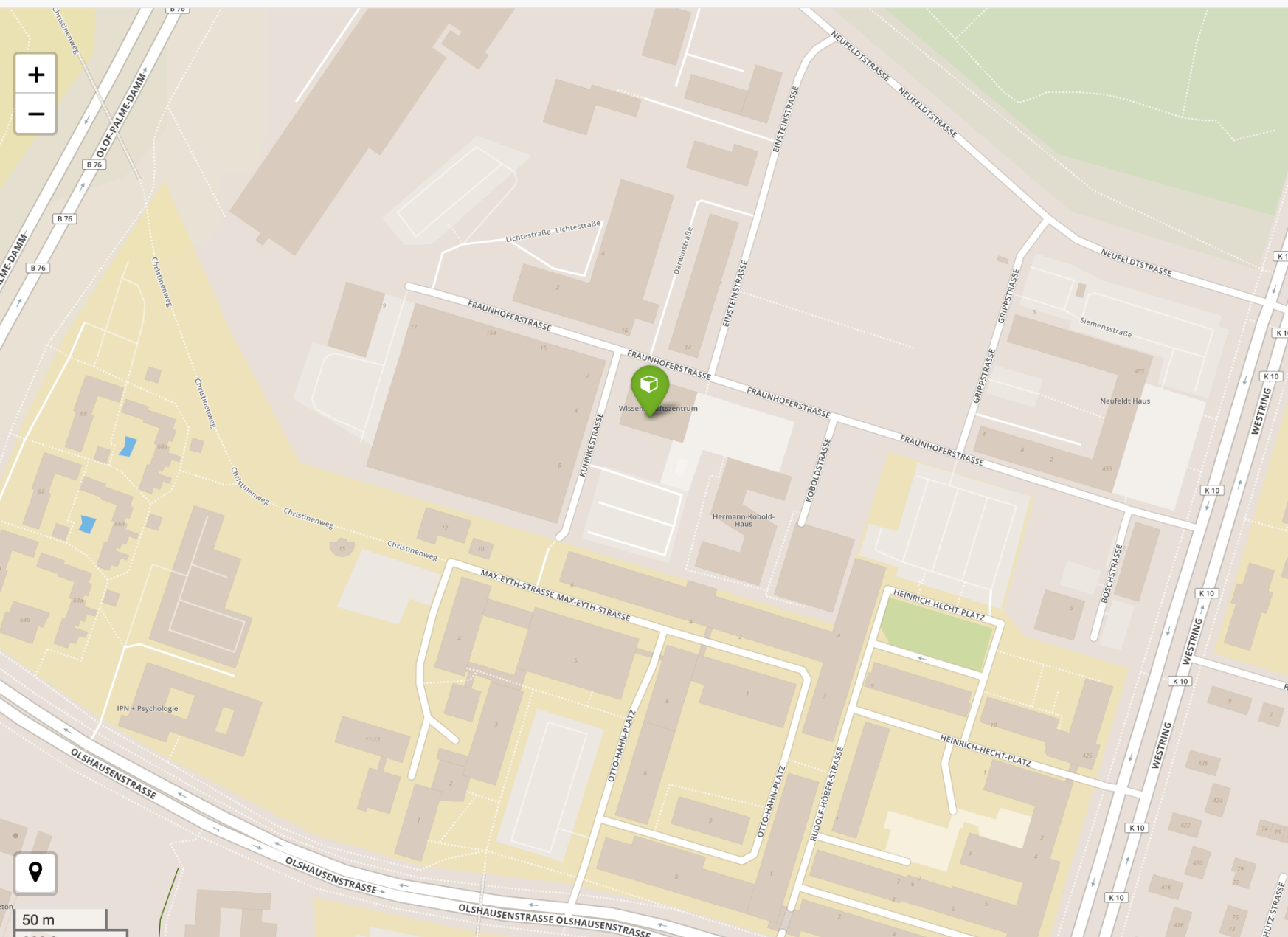
Parkhaus CAP







Search for boxes and places



KDH001

Group: Kiel-Data-Hub

outdoor

Refreshing in 49 secs

<https://app.kiel-data-hub.de>

Temperatur

21.2 °C

a few seconds ago

rel. Luftfeuchte

56.2 %

a few seconds ago

Luftdruck

1014.6 hPa

a few seconds ago

Beleuchtungsstärke

31776 lx

a few seconds ago

UV-Intensität

1288 $\mu\text{W}/\text{cm}^2$

a few seconds ago

PM10

To create an active citizen participation platform we created the „Datenspender-App“.

„The results of one could be foundations for decisions of the administration and city council. They could be used to indicate which development trends should be taken in local politics or not, where they should be strengthened or corrected.“

Quote: Dr. Tim Hoppe, Leiter Amt für Statistik der Stadt Magdeburg



Moin Datenspender!

Danke, dass Du die nachhaltige, partizipative Stadtentwicklung von Kiel und dessen Umland fördern willst!



Kummerkasten

Gefahrenquellen, wilder Müll oder Vandalismus?
Melde ganz unkompliziert Dein Anliegen.



Blitzumfragen

Über Push-Mitteilungen wirst Du zu aktuellen Themen rund um Kiel befragt und kannst so Deine Meinung einbringen.





UMFRAGE

Soll das Radwegenetz in
Kiel weiter ausgebaut
werden?



UMFRAGE

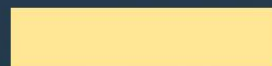
Wie gut siehst Du
die Kieler
Wirtschaft in der
Digitalisierung
aufgestellt?



Gut, aber mit Potential



Gut



Digitale Zentren sind vorhanden



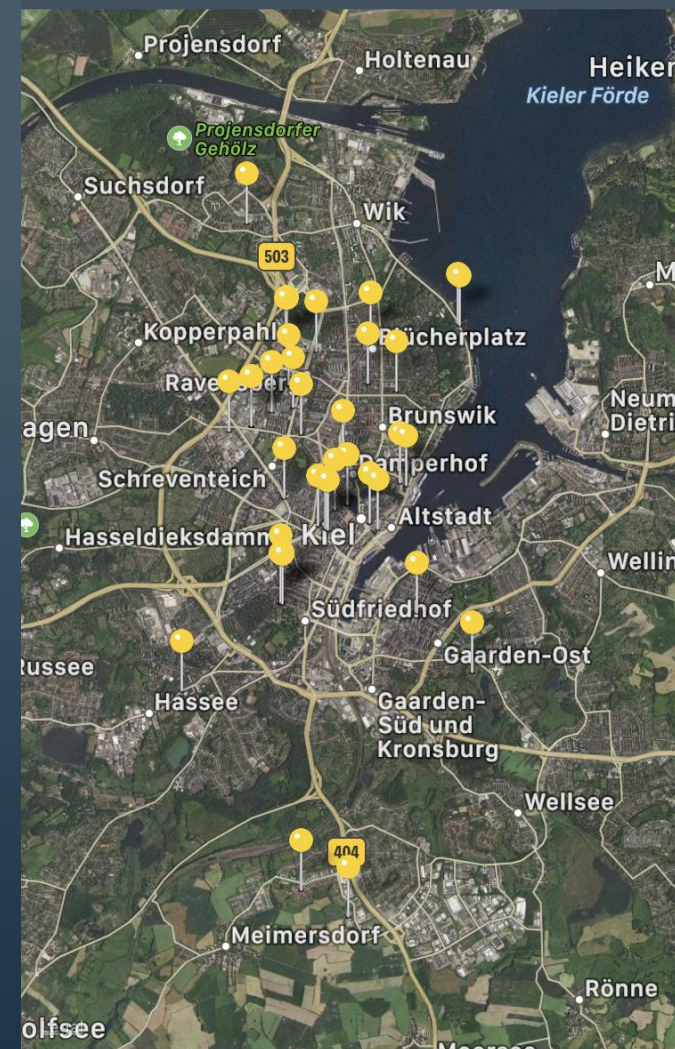
Hervorragend



Weiter



KARTE





The results show an interest in the topic and motivates us to continue our work.

- 200 app users in one week
- 96% of all users would like to participate in upcoming Blitzumfragen
- We're discussing the topic with the city of Kiel to start a wider prototype.
- Results available on app.datenspender.de

#WERDEDATENSPENDER



Stay in contact:



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datenspender.de

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