



The SDGs and the German Real Estate Cadastre

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Joint Conference of PCC and EuroGeographics 03 Nov 2020, Munich





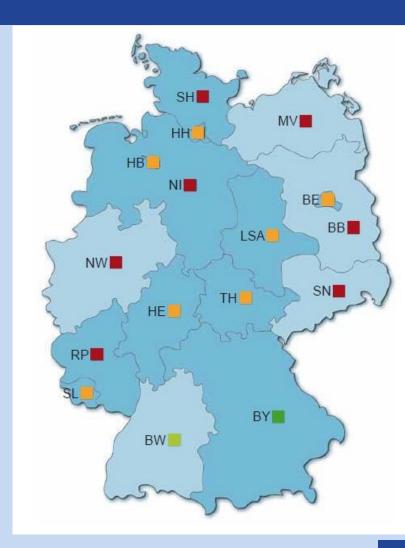
- German Real Estate Cadastre in General
- Legal aspects
- Public-Law-Restrictions ./. Private-Law-Restrictions
- Selected examples how cadastral data may help to achieve the SDGs
- Land readjustment procedures





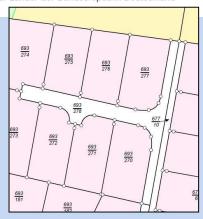
- 16 Länder
 - 16 different cadastral laws
 - 16 cadastral authorities

- Working Committee of the Surveying Authorities of the Laender of the Federal Republic of Germany (AdV)
 - recommends Germanwide standards



A_V

Arbeitsgemeinschaft der Vermessungsverwaltungen der Länder der Bundesrepublik Deutschland



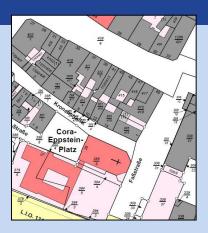
Cadastral Parcels

(including precise coordinates)

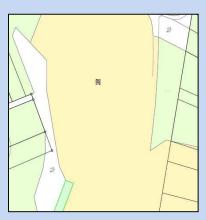


Public-Law Restrictions

Cadastre contents (as part of AAA – ALKIS)



Buildings



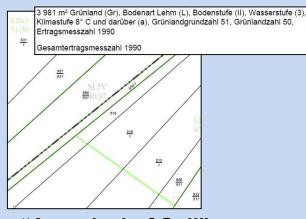
"Actual Use"

(Tatsächliche Nutzung, Mix of LC / LU)



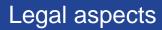
Owner Information

(copy from land register)

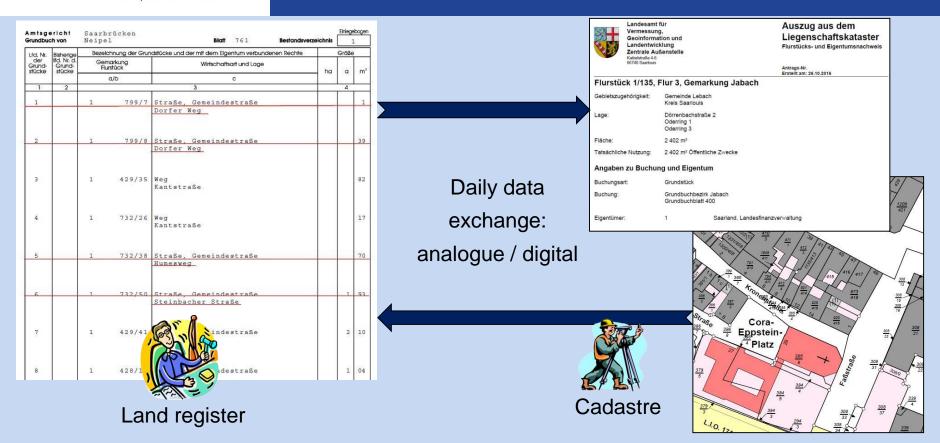


"Appraisal of Soil"

(Bodenschätzung)







Cadastral map takes part of the public faith of the land register

Very high legal certainty

http://de.coolclips.com/m/vektoren/vc016370/Richter-in-einem-Gericht/#

http://clipart-library.com/clipart/surveying-cliparts_8.htm





ALKIS-core-data ("germanwide must haves")

Attributname

Modellart

art Der Festlegung

Fachdatenverbindung[]

Lebenszeitintervall-Beginn

Lebenszeitintervall-Ende

Attributwert

DLKM

redevelopment zones

land reallocation (Flurbereinigung, Umlegung)

water law classification

road law classification

Laender-specific data ("germanwide may haves")

natural reserve, nature protetion area

monument protection

military zones

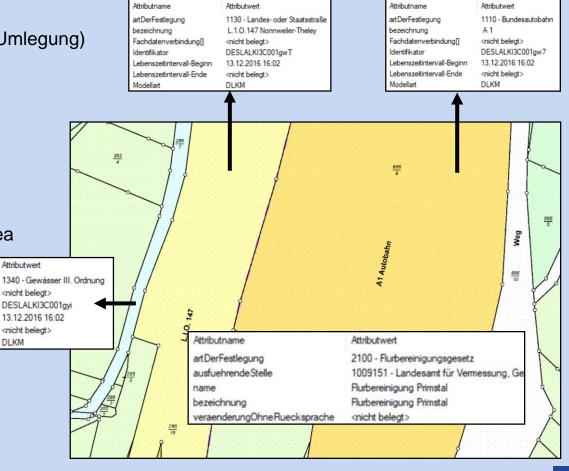
water protection area

FFH - area

contaminated area

public easement

forest law classification



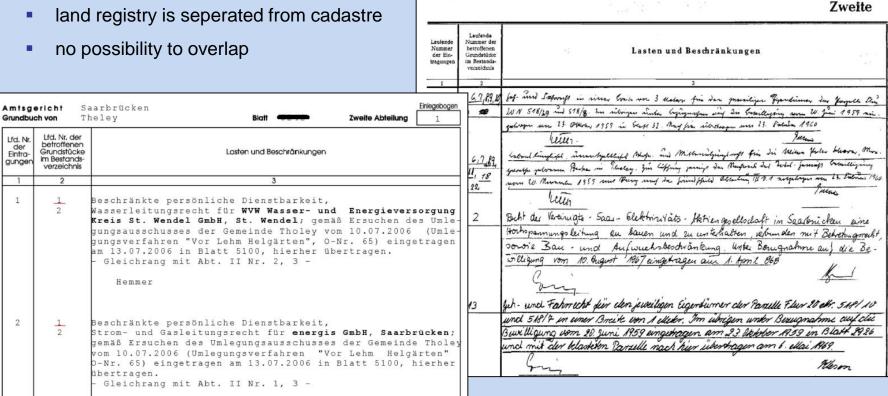


Mortgages and other Private-Law-Restrictions

content of land registry

Hemmer

land registry is seperated from cadastre





2300€/m² 600€/m²200€/m² 900€/m² 260€/m² 900€/m² 260€/m² 700€/m² 1300€/m² 1250€/m² 500€/m² 230€/m² 450€/m² 250€/m² 210€/m² 280€/m² 5€/m2 175€/m² 290€/m²

http://geoportal.saarland.de/mapbender/frames/index_ext.php?gui_id=Template_GDZ&WMC=3019

Basis for property valuation



https://www.saarland.de/87389.htm

GUTACHTEN

über den Verkehrswert des bebauten Grundstücks Lebach, Gemarkung X-Weiler, Flur 13, Flurstücke 12/1, 12/2, 265/12

Der Gutachterausschuss hat in seiner Beratung am 16.06.2016 den Verkehrswert für das o.g. bebaute Grundstück mit

rd. 248.000,-€

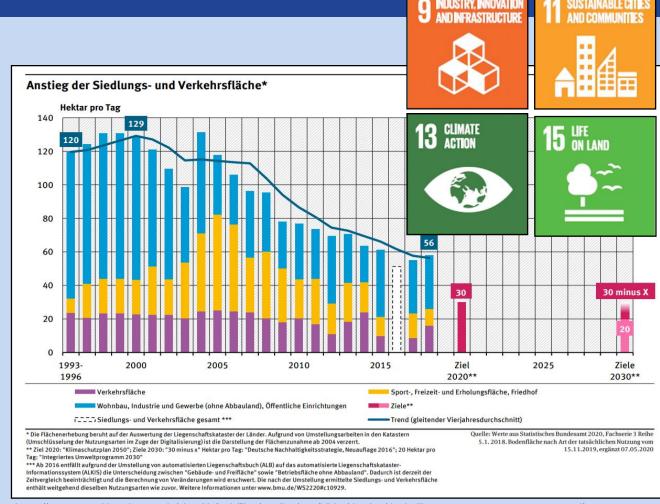
ermittelt.

Der Vorsitzende



- reducing the new use of land for settlements and transport to less than 30 hectares per day by 2030
- monitoring of land consumption based on cadastral data "Actual use" (Tatsächliche Nutzung)

30ha goal, part of the German sustainability strategy



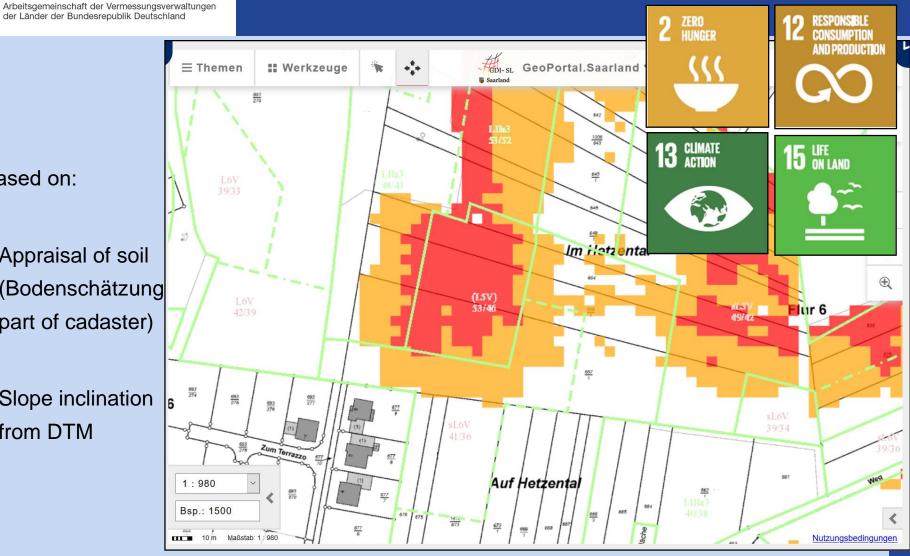
https://www.umweltbundesamt.de/sites/default/files/medien/384/bilder/dateien/de_indikator_terr-03_suv_2020-07-13.pdf



Erosion hazard classification....

based on:

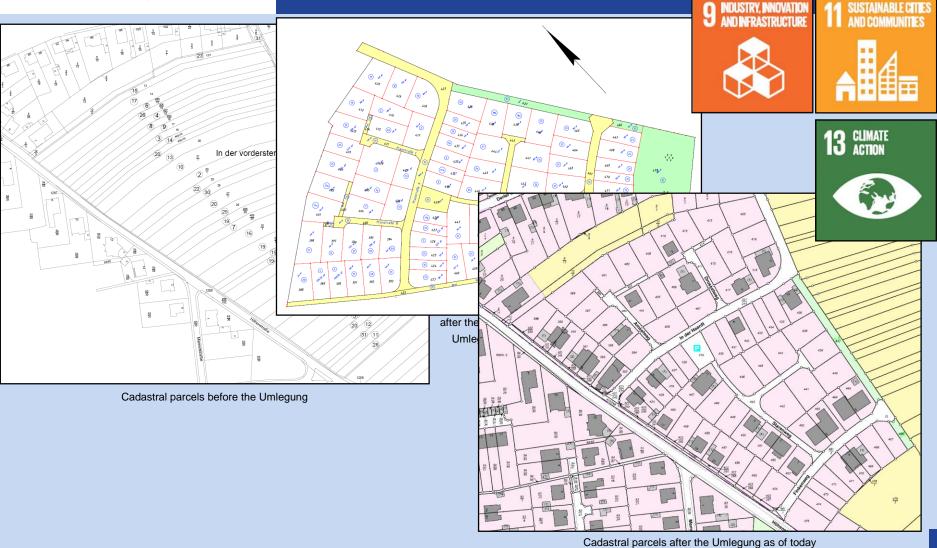
- Appraisal of soil (Bodenschätzung part of cadaster)
- Slope inclination from DTM



https://geoportal.saarland.de

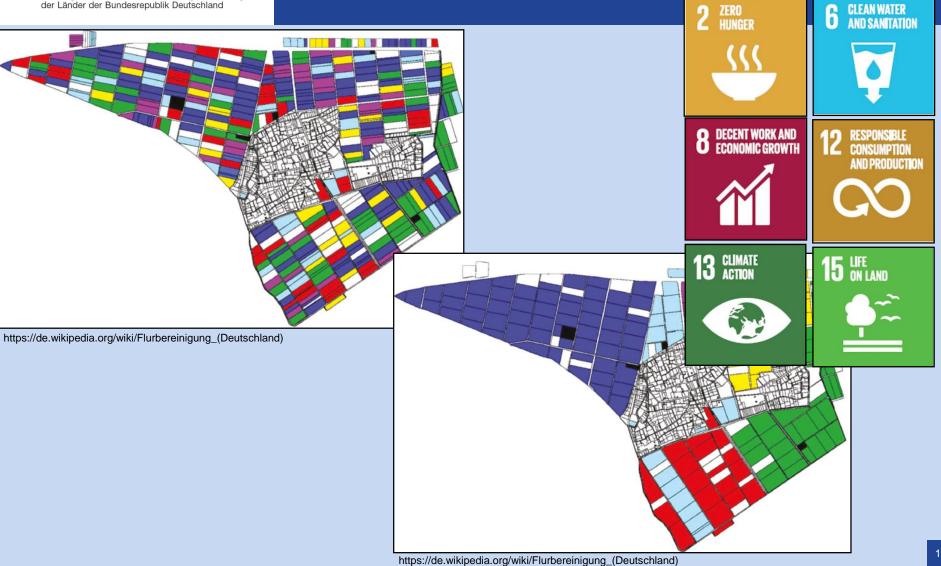


"Umlegung" according to Art 45 – 84 German Building Code





Rural land readjustment procedures "Flurbereinigung", according to Land Consolidation Act





Rural land readjustment procedures "Flurbereinigung", example Autobahn A8, Perl





Land readjustment procedures - summary

- Legally based land readjustment procedures Umlegung and Flurbereinigung are no expropriation
- Principle of surrogation: The location of the land may change, the right of ownership remains!
- After the land readjustment procedure (Umlegungsplan / Flurbereinigungsplan) becomes legally binding, the land register and the cadastre become incorrect
- The Umlegungsplan / Flurbereinigungsplan is a substitute for land register and cadaster until both are corrected
- All measures are subject to judicial review



Summary

Cadastral data is...

- highly reliable
- basis for SDG-related-topics

Cadastre based land readjustment procedures are...

- a powerful tool to solve land use conflicts
- very helpful to achieve some SDGs

Having a further look:

- there are much more links between cadaster and the SDGs
- Cadastre has an impact on at least 14 / 17 SDGs

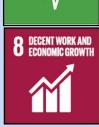






























Gracias	Tänan	Tack Merci	Grazie
Děkuji vám	Danke	Kiitos	Tak
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Paldies	Hvala	Dziękuję	Dank u
Obrigado	ευχαριστο	Köszönöm	Mulţumesc

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- https://sdgs.un.org/goals
- https://geoportal.saarland.de
- <a href="https://www.umweltbundesamt.de/themen/boden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-landschaften-erhalten#flachenverbrauch-in-deutschland-und-strategien-zum-flachensparen-boeden-landwirtschaft/flaechensparen-boeden-b
- Baugesetzbuch
- Flurbereinigungsgesetz
- Public-Law Restrictions in German Cadastre, Marcus Wandinger, Björn Degel, EuroGeographics C&LR KEN, Nov 11, 2015, Brussels
- Reliability aspects of the German Cadastre, Björn Degel, Joint Conference of PCC and EuroGeographics, 21 Nov 2018, Vienna