Enzkreis

DATA-DRIVEN CITIES:
CONFERENCE FOR THE URBAN COMMON GOOD

12/02/2024 – Nairobi, Kenia

**USE CASE: ENZKREIS DISTRICT - AGENDA 2030 MONITORING (DE)**

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STRUCTURE

- ➤ **Enzkreis district:** Spatial organisation, cities and municipalities

- ➤ **2030 Agenda Process:** Enzkreis contribution and major milestones

- ➤ **SDG Monitoring**: Indicators and data

- ➤ **SDG-Dashboard (Open SDG):** success factors and challenges

Working session: further examples and insights

ENZKREIS DISTRICT

- **Suburban area, rural character,** many small scale municipalities

- **202.536 inhabitants**, growing

- Total area: **574 km²**

- Population density: **353 p/km²**

- ordinary expenses (2023): **332.494.405 €**

- **spatial interdependencies** with surrounding cities

UNESCO world cultural heritage maulbronn monastery

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Illingen
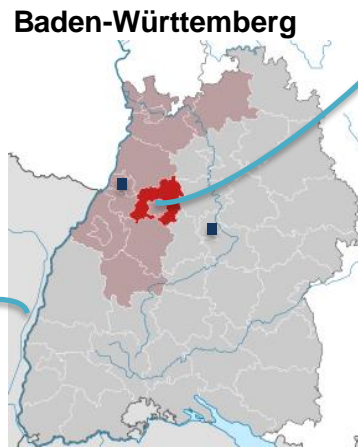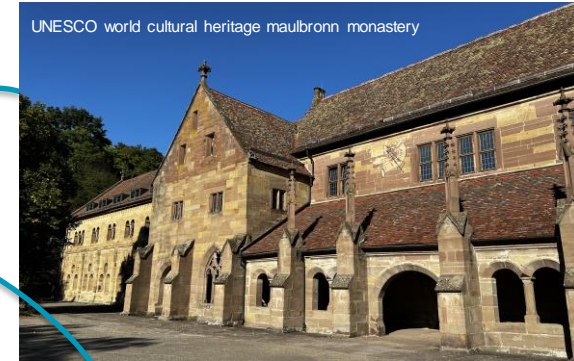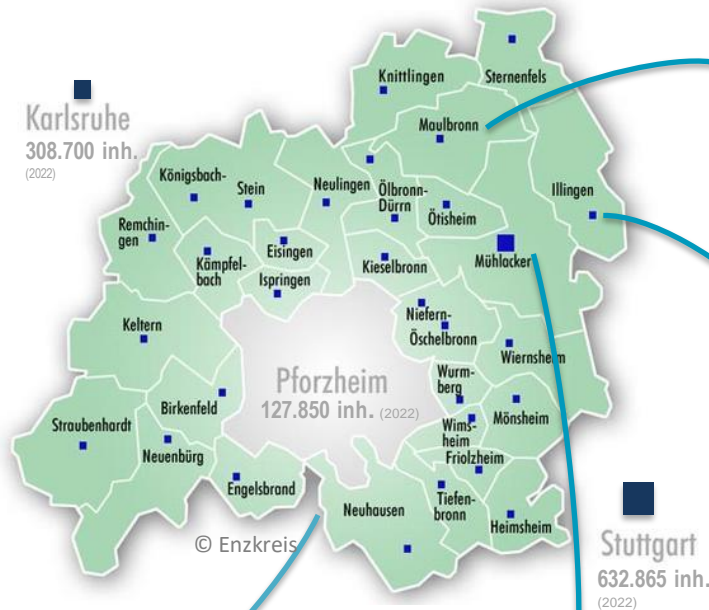
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- **28 cities and municipalities with wide range of sizes**
  - City of Mühlacker: 26.300 inh.
  - Sternenfels: 2.800 inh.

- **popular residential location**

Karlsruhe 308.700 inh. (2022)

Pforzheim 127.850 inh. (2022)

Stuttgart 632.865 inh. (2022)

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City of Mühlacker

Germany

Baden-Württemberg

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2030 AGENDA: ENZKREIS CONTRIBUTION
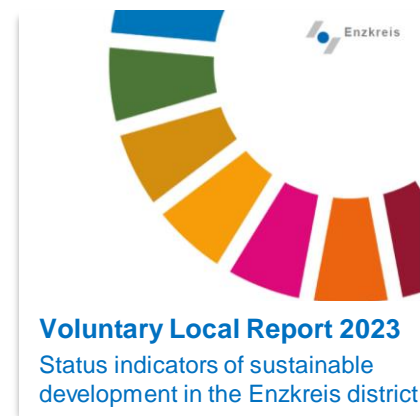## Major Milestones

- **Resolution of district council** to contribute to the United Nations 2030 Agenda   **07/2017**

- Implementation of 17 SDGs into **mission statement** for **council** and **administration**   **12/2018**

- **Participation** of **civil society** to name specific measures via a **digital platform**   **05/2020**

- **Resolution** of **sustainability strategy** and **SDG-Monitoring** via **indicators**   **04/2022**
  + identification of **key topics** for district development, e.g. regional production, health care, climate change mitigation, education, inclusion, **mobility (example)**

- **Voluntary local reports** (every two years), and **SDG-Dashboard**   **04/2023**

- **Collaborations** (private sector, local governments, civil society) for a sustainable development in line with SDGs; measurable and governable via **85 indicators**

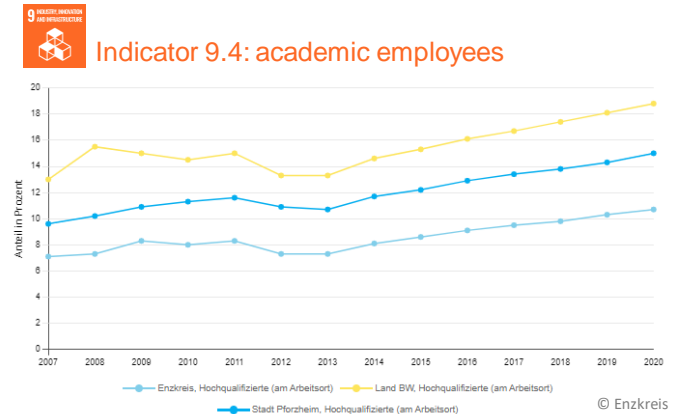Commissioner and Chairmen signing the mission statement

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MISSION STATEMENT

© Enzkreis

Voluntary Local Report 2023
Status indicators of sustainable development in the Enzkreis district

© Enzkreis

SDG MONITORING: Indicators and Data
publicly shared online

© Enzkreis

Indicator 9.4: academic employees
© Enzkreis

- ➢ **Enzkreis district SDG-Dashboard** https://agenda2030.enzkreis.de

- ➢ **85 indicators in all sectors**, e.g. infrastructure (broadband, mobility, energy, water), private sector, land use, GHG-Emissions, health, education, housing, etc**. in line with the SDGs**

- ➢ **shared data** (mostly standardized, quantitative) **in time series** from different platforms[1] (recommendation from research group[2]), also **proprietary data** (own surveys) and (qualitative) explanation of Indicators

- ➢ All data **manually collected, analised** and published with **OpenSDG:** https://open-sdg.org (Open Source)

- ➢ **Comparison with other political levels:** Federal State of Baden-Württemberg; cities/municipalities in future

- ➢ **Collaboration** with different stakeholders to promote development (**based on evidence** according to data), e.g. district council, local governments, private sector, civil society

[1] Federal statistical Office; Federal Institute for Research on Building, Urban Affairs and Spatial Development (INKAR)

[2] German Institute of Urban Affairs, the Federal Institute for Research on Building, Urban Affairs and Spatial Development, German municipal umbrella organizations, Council of European Municipalities and Regions (German section), Bertelsmann Foundation

ENZKREIS SDG-DASHBOARD (OPEN SDG[1]):
success factors

- **Political support necessary:** 2030 Agenda contribution and SDG-Monitoring are voluntary ✔

- **Low purchase costs:** Open source, free-to-reuse platform for publishing data related to SDGs ✔

- **Project based funding** from federal ministry for economic cooperation and development, cooperation with Berlin university of applied sciences (urban planning and smart cities) ✔

- **Low data volume:** .csv-files, text, few pictures, easy coding (for professionals) ✔

- **Possibilities for own design**: (Corporate Identity), own structure and graphs, flexibility ✔

- **increasing numbers of use cases**: possible collaboration between states, cities/districts, use cases, e.g.: Ghana, DR Congo, Rwanda, Germany, US, UK – Los Angeles, Barcelona, Enzkreis ✔

Challenges/lesson's learnt

- **personnel effort (and costs) in maintanance:** rather high ✘

- **Data collection:** no automated interfaces, manual insertion of data necessary ✘

- **Internal IT support recommended:** (professional) set up, maintenance ✘

- **No ready to use application:** complex coding for nonprofessionals ✘

- **Clear allocation of responsibilites** ✘

[1] Open SDG: collaboration between the UK Office for National Statistics (ONS), US government, nonprofit Center for Open Data Enterprise (CODE)

THANK YOU FOR YOUR KIND ATTENTION!

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Further information about the 2030 Agenda in the Enzkreis district: https://www.enzkreis.de/agenda2030
Enzkreis district SDG-Dashboard (in german):   https://agenda2030.enzkreis.de

SDG-DASHBOARD
Example: Challenges in mobility

Indicator 11.7: Modal Split

Indicator 13.2: GHG-Emissions – Enzkreis (district)

Car as driver · Car as passenger · Public transport · Bycicle/Pedelec/E-Bike · Pedestrians

Private Households · Commerce, other · Industry · Mobility · CO2-Emissions - Enzkreis
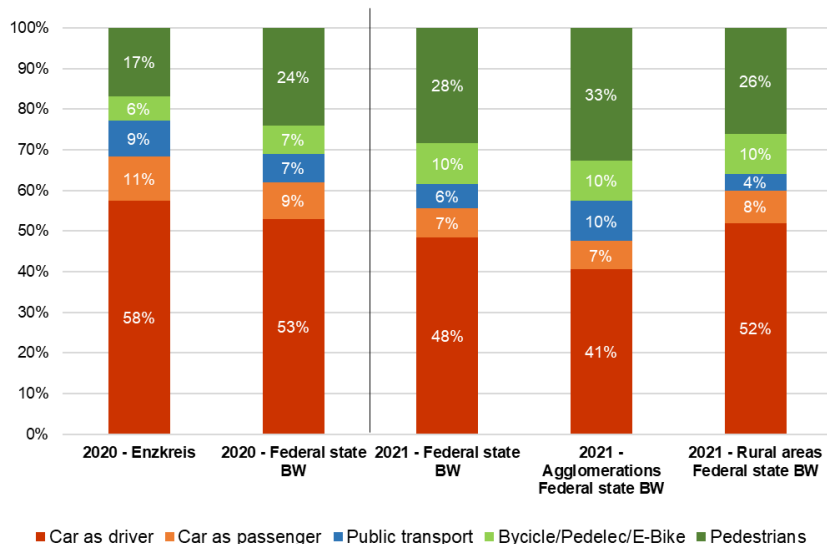
➤ very **high share of car usage**, even for rural area (Enzkreis categorized as agglomeration)

➤ **rising GHG-Emissions in mobility sector**:
  - **2012**: 448.400 t GHG-Emissions
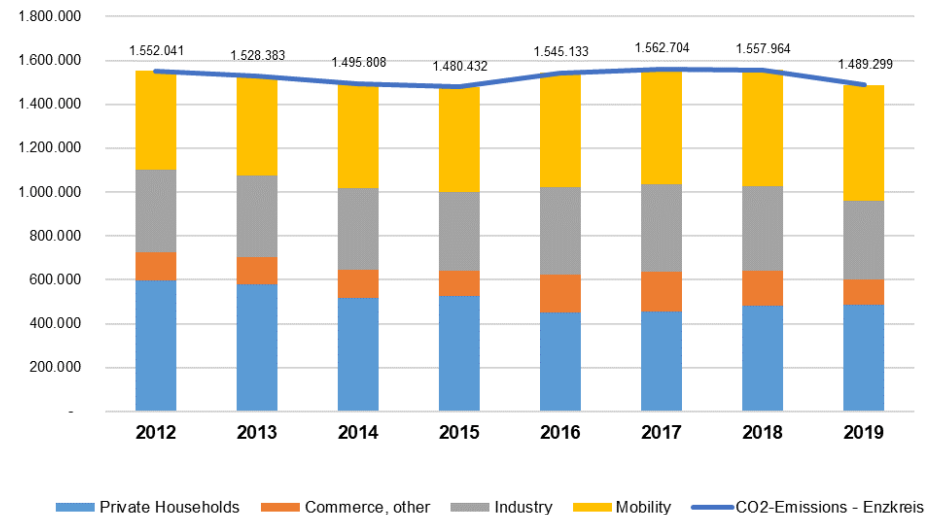 - **2019**: 527.500 t GHG-Emissions

Analysis and interpretation of data
➤ **enables deeper understanding** of challenges and interdependencies
➤ **Promotes collaboration with stakeholders,** e.g. district council, local governments, traffic association, private sector, civil society

OPEN SDG: Example for codes

Staging metadata: html

sdg-enz-staging-data / meta / 11-7.md

DrJannisHoek Update 11-7.md ✓

Preview | Code | Blame   55 lines (47 loc) · 3.42 KB

```
 1    ---
 2    # 1. Indikator-Nummer eingeben
 3    sdg_goal: '11'
 4    indicator_number: 11.7
 5    graph_title: global_indicators.11-7-title
 6    indicator_sort_order: 11-07-01
 7
 8    # 2. Grafikart auswaehlen:
 9    data_non_statistical: false  # set to 'false' for chart/graph visualization
10    graph_type: bar  # chart types include: bar, line, binary
11    graph_stacked_disaggregation: Verkehrsmittel  ## uncomment this line for stacked bars. eplace 'Geschlecht' with the field of aggregation.
12    computation_units: Anteil [%]
13    data_start_values:  # initialize the field to be shown
14      - field: Region
15        value: Enzkreis
16      - field: Region
17        value: Land BW
18      - field: Verkehrsmittel
19        value: PKW als Fahrer
20      - field: Verkehrsmittel
21        value: PKW als Mitfahrer
22      - field: Verkehrsmittel
23        value: Fahrrad, Pedelec, E-Bike
24      - field: Verkehrsmittel
25        value: ÖPNV
26      - field: Verkehrsmittel
27        value: Fußverkehr
28
29    graph_limits:
30      - field: Einkommensklassen
31        minimum: 0
32        maximum: 100
33
34    # 3. Berechnung und Quelle eingeben:
35    national_geographical_coverage: Enzkreis, Land BW
36    computation_definitions:
```

Staging data: csv

sdg-enz-staging-data / data / indicator_11-7.csv

beyersar Update indicator_11-7.csv ✓

Preview | Code | Blame   11 lines (11 loc) · 360 Bytes

```
 1    Year,Region,Verkehrsmittel,Value
 2    2020,Enzkreis,PKW als Fahrer,58
 3    2020,Land BW,PKW als Fahrer,53
 4    2020,Enzkreis,PKW als Mitfahrer,11
 5    2020,Land BW,PKW als Mitfahrer,9
 6    2020,Enzkreis,"Fahrrad, Pedelec, E-Bike",6
 7    2020,Land BW,"Fahrrad, Pedelec, E-Bike",7
 8    2020,Enzkreis,ÖPNV,9
 9    2020,Land BW,ÖPNV,7
10    2020,Enzkreis,Fußverkehr,17
11    2020,Land BW,Fußverkehr,24
```

DATA-Example:
Municipal partnership Enzkreis – Masasi, TZ (since 2011)

Installation of solar systems
on schools, health centres and hospitals

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- ➢ **Project duration: 2021 – 2023; total costs: 350.000 €** (35.000 € Enzkreis / 315.000 € Funding)

- ➢ **Installed systems: 34** (multiple) **systems; on 6 schools, 1 hospital, 3 health centres, 1 environmental ecucation center**

- ➢ **Energy generation: 125 MWh** (per year)

- ➢ **GHG-Emissions avoided: 28,20 t CO_2eq** (per year; compared to use of diesel generators)

- ➢ **Education and training for students** on installation of solar systems