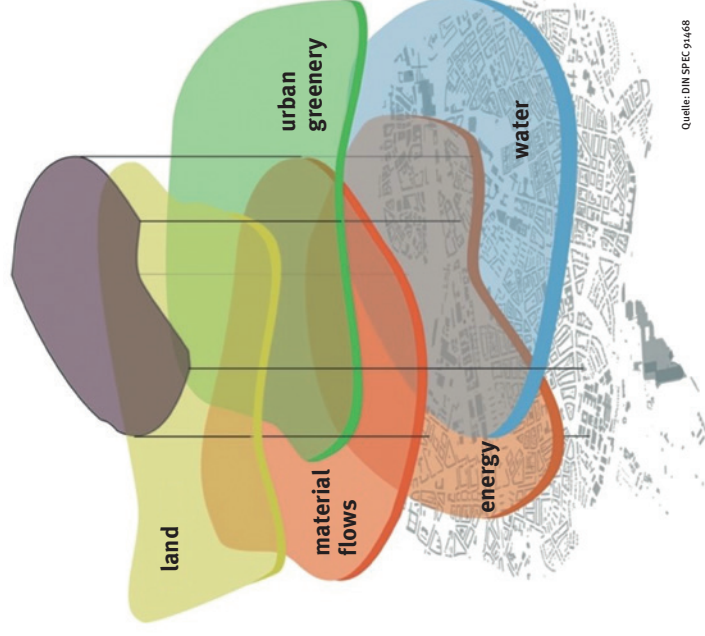


Funding measure “Resource-efficient urban districts for the future – RES:Z” of the Federal Ministry of Education and Research

The research projects of the funding measure “Resource-efficient urban districts for the future – RES:Z” of the Federal Ministry of Education and Research (BMBWF) develop concepts for the resource-efficient use of **water, land, material flows, energy** and **urban greenery** in urban areas.

The goal is an **integrative planning and a sustainability-oriented management of urban districts** with the participation and coordination of all relevant stakeholders.



Quelle: DIN SPEC 91468

Results of the 1st funding phase

► Publication of results

Presentation of the results of the twelve funded research projects as well as information on cross-project topics and results.

► Memorandum of Understanding

The Memorandum of Understanding was jointly drafted by all research projects and formulates requirements to promote the resource-efficient design of urban districts.

► DIN SPEC 19468 “Guidelines for Resource Efficient Urban Districts”

The DIN SPEC 91468 was developed jointly and across projects. It defines requirements for the efficient interface management for the integrated analysis, assessment and planning of resource efficiency in existing and new urban districts.

Further results are available on the **RES:Z website**.

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cross-cutting
scientific project



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An Initiative of the Federal Ministry
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RES:Z
Resource-efficient
Urban Districts

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Research for sustainability

Resource efficiency in urban districts

More than half of the world's population lives in cities, and by 2050 the proportion will grow to over 70 percent.

Urban districts are places where all urban functions such as housing, services, commerce and transport are located.

The problem is that cities already consume up to 80 percent of the energy generated worldwide and are responsible for up to 70 percent of global resource consumption.

However, this also brings many opportunities: for example, there is a high resource efficiency potential in cities and the possibility of developing, testing and implementing resource-saving measures.

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RES:Z
Resource-efficient
Urban Districts



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Research and transfer objectives of RES:Z

- ▶ Protecting land as a scarce resource and using it multifunctionally
- ▶ Increasing efficiency in the use of material resources
- ▶ Creating blue-green districts
- ▶ Managing water in urban districts as a multifunctional resource
- ▶ Minimising energy demand, integrate existing infrastructures to exploit synergies



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The funded RES:Z projects

The BMBF funding measure is divided into two funding phases. Between 2019 and 2022, twelve research projects involving more than 20 model municipalities were funded. The following eight projects are now in a second funding phase, which lasts from 2022 to 2024, and is even more dedicated to the transfer of research results into municipal practice:

- BlueGreenStreets2.0** – Multifunctional streetscape design in urban districts – implement, evaluate and consolidate
- Leipziger BlauGrün II** – Blue-green neighbourhood development in Leipzig
- TransKOM** – Integration of resource-optimized separation drainage through transformation of municipal planning processes for existing neighbourhoods
- VertiKKA2** – VertiKKA, a vertical air-conditioning and water recycling system
- GartenLeistungen II** – Implementation, consolidation and transfer of approaches to socially, ecologically and economically sustainable land and material flow management in urban gardens and parks
- IWAES II** – Integrative consideration of sustainable heat management in urban districts
- RessStadtQuartierz** – Urban material flow management: tools for the resource-efficient development of urban districts
- namares 2.0** – Digital urban resource management in districts