

Intro: Future-proof cities – integrating stakeholders, themes and scales

1. Urban regeneration and development

Impulse / One Question to the audience / Discussion

2. Revitalization of Public spaces

Impulse / One Question to the audience / Discussion

3. Green and circular buildings

Impulse / One Question to the audience / Discussion

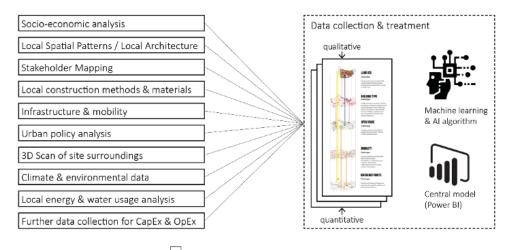




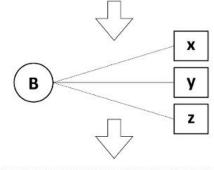


INTEGRATED URBAN SOLUTIONS METHOD

RESEARCH OF LOCAL CONTEXT & DIGITAL MODEL DEVELOPMENT



SCENARIO BUILDING: 3 building-scale architectural scenarios: x, y, z



SCENARIO BUILDING: 3 district-scale urban design scenarios: A, B, C A B C

LAB #2:

Scenario Assessment and collaborative decision-making (building-scale)





LAB #1: Scenario Assessment and collaborative decision-making (district-scale)



USE CASE:

Integrated Urban Solution

Holistically elaborated, inclusive & accoutable urban design & development solution, incl.:

- Stakeholder Engagement Plan
- Monitoring Concept
- Architectural Design
- Long-term proof of bankability through our Tool incl. CapEx & OpEx, precise construction duration planning, Energy & water consumption, GFA, BUA, FAR.







INTEGRATED URBAN SOLUTIONS MULTI-LAYERED APPROACH

Overlapping of the layers

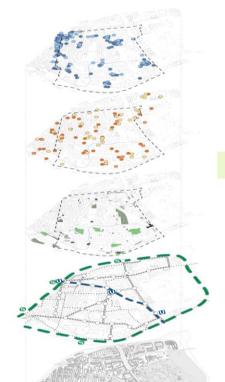
COMMERCE AND ECONOMY

SOCIAL INFRASTRUCTURE

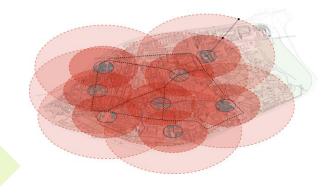
PUBLIC SPACE

MOBILITY

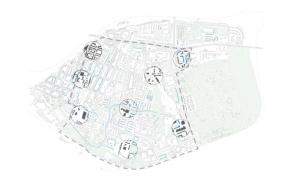
URBAN FORM



15-minute neigbourhood idea



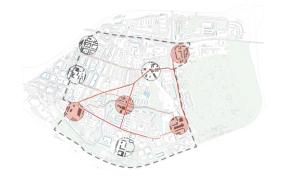
Identification of spatial foci



Need-for-Action of the spatial foci

Thematic foci







DREES & SOMMER INNOVATION CENTER & START-UP HUB













osce



DREES & SOMMER









swiss peace







































Kanton Basel-Stadt





Foreign, Commonwealth & Development Office





PROJECT MANAGEMENT EXCELLENCE



Strategy Consulting

Our Business & Strategy Consulting advises our clients on the development of their strategic direction for a longterm and sustainable success story.



Organisation & Process
Design

Our organizational and process consulting services help clients structure and organize their businesses by combining lean, agile, and conventional methodologies focused on people, projects, and processes.



Project Management
Office (pmo)

Our pmo manages our clients' projects to deliver on time, on budget and on quality in accordance with policies, strategy, values and objectives.



Data Management /
Tools

We are firmly convinced that data-based decisions help shape the future.

The right data at the right time is the key to success. In the area of data management / science, we support our customers in making targeted decisions.



Transformation & Change Management

We are in the midst of permanent change processes in which the cycles are becoming shorter and shorter. In order to ensure performance, the focus must be on people in particular.

With our integrative approach, we support our customers in successfully shaping their change processes.



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FROM CONSULTING TO IMPLEMENTATION





We provide the right expertise for every phase of the project:

At the beginning of the project, the focus is on consulting – as the project progresses towards implementation, the management part increases.





TAKING PART IN THE GLOBAL DISCOURSE ON URBAN INNOVATION



Green Spaces and urban Densification – Planning strategies for the sustainability of built habitats







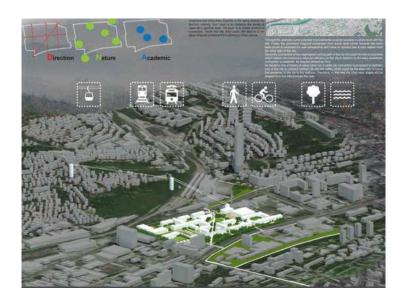








3 FOCUS TOPICS FOR TODAY'S WORKSHOP







Urban regeneration and development

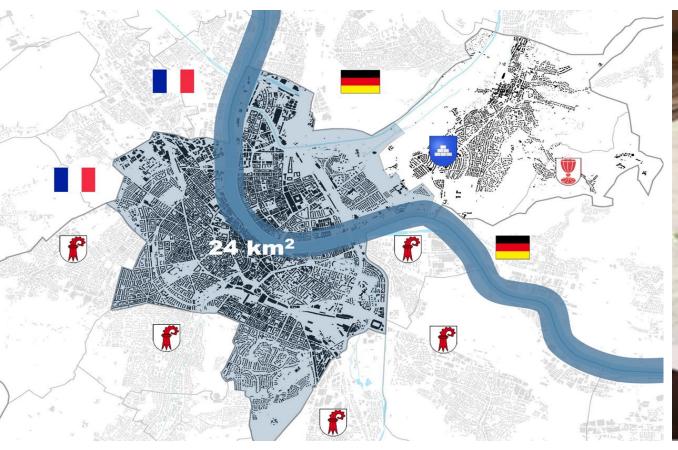
Revitalization of Public spaces

Green and circular buildings





NEW TRANSNATIONAL COLLABORATION MODELS





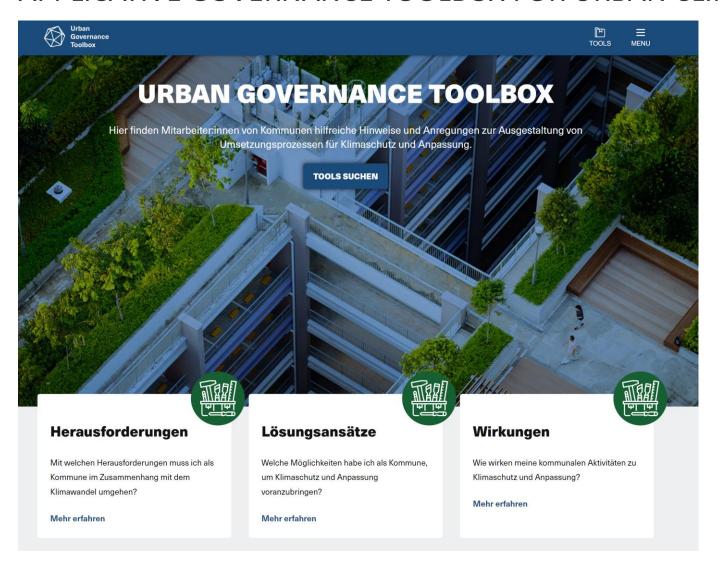








APPLICATIVE GOVERNANCE TOOLBOX FOR URBAN CLIMATE ADAPTATION



Partner

Die Urban Governance Toolbox ist im Rahmen des vom BMBF geförderten Forschungsprojektes SMARTilience und somit in Zusammenarbeit folgender Projektpartner:innen entstanden:









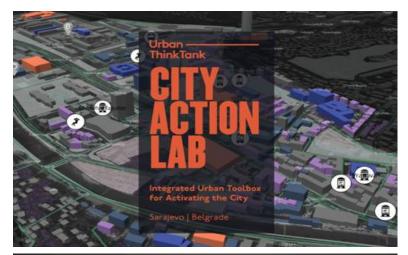








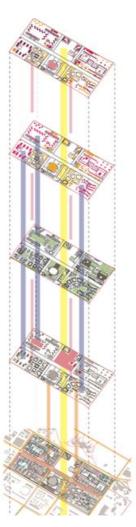
EVIDENCE-BASED SMART & SUSTAINABLE CITY PLANNING











BUILDING TYPE

Challenges

Mono-functional residential buildings have Existing modernist buildings can be resulted in non-activated and uninviting spaces with low non-residential activities.

Potentials

adapted and re-programmed to include new functions that will complement bousing according to local innovative ideas

DEVELOPMENT

Challenges

Rigid mono-functional zoning with little

movement through site

Potentials

Peripheral zones of blocks can introduce commercial and service use; Large green and open spaces within the blocks provides the opportunity for development of high-quality public spaces

OPEN SPACE

Challenges

Understilization of green spaces by people and hyper dominance of open space as

Potentials

-Block 26 has the potential to become a green hub of the area -Existing green spaces have potential to be further upgraded into multifunctional green

MOBILITY

Challenges

- High use of private car -Overloaded network of transit causing stationary traffic

-Lack of metro or LRT system -Long pedestrian walking distances and lack of infrastructure for pedestrians and cyclists (especially within the blocks)

Potentials

-Introducing LRT system -Introducing bicycle infrastructure -Existing buildings can be equally easily equipped with access ramps for disabled

REFERENCE POINTS

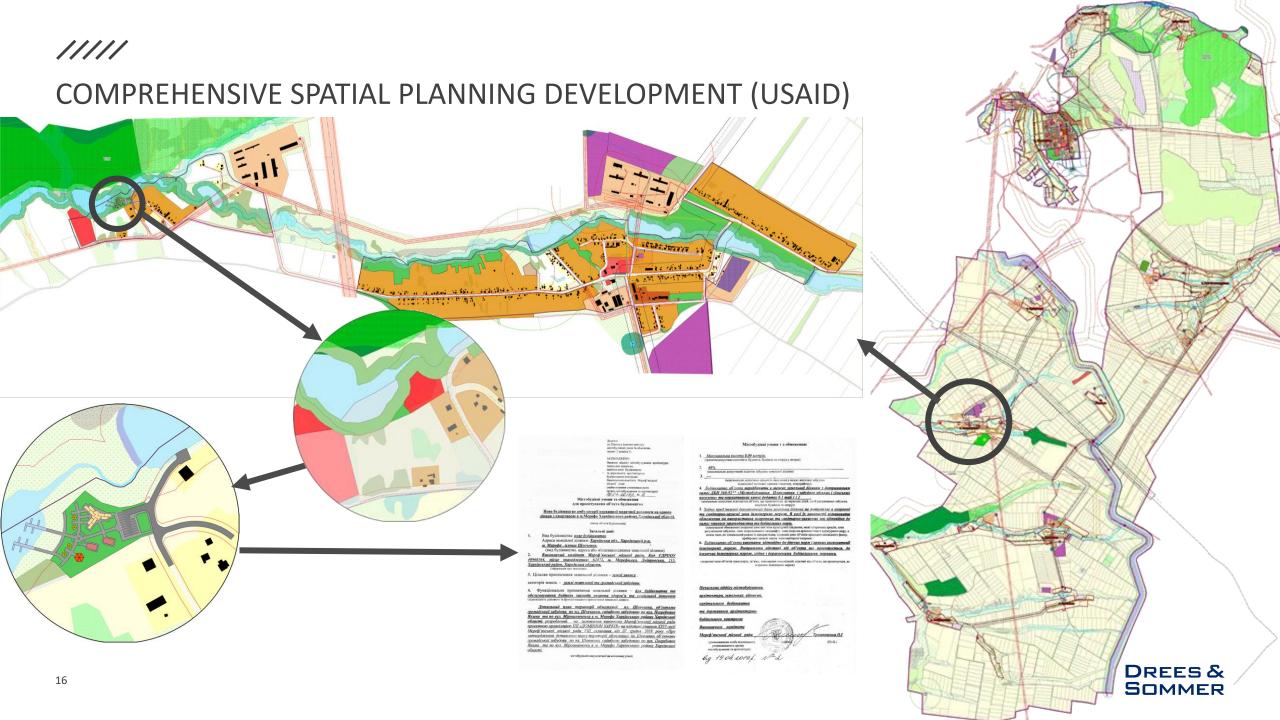
A need for spatial identity as the centre of New Belgrade

Potentials

Block 26 has great potential to become the main reference point of New Belgrade, a symbol of its centre and a new "down town".























02.03.2023 - 15:20 | Views: 1867

How not to lose the chance. The comprehensive recovery program is a road map of the priority steps for the recovery of Ukraine



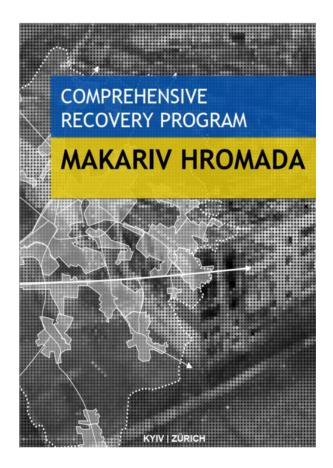


Despite the uncertainty and risks of a protracted conflict, some municipalities, such as Makariv, in cooperation with the international architecture, planning and consulting company Drees & Sommer – Integrated Urban Solutions and the Union of Architects of Ukraine and the Architectural Chamber of NSAU, are already taking active measures to recover the life of the Municipality and revive the economy and development of the territory.





THE FIRST STEPS IN THE DEVELOPMENT OF MAKARIV COMPREHENSIVE RECOVERY PROGRAM





Makariv town council architecture mtg@ukr.net

Vadym Tokar - head of the Makariv Township Council - Makariv Mayor.

Yevhen Pochupailo - Head of the Department of Urban Planning, Architecture and Spatial Planning -Chief Architect of the Makariv Township Council.

Nataliia Kruk - the chief specialist of the Department of Urban Planning, Architecture and Spatial Planning



National Union of Ukrainian Architects nsau.peboard@gmail.com arhitektor2@gmail.com

Oleksandr Chyzhevskyi - the President of the National Union of Architects of Ukraine.

Tetiana Kryshtop - assistant to the President of

Borys Yerofalov - chief editor of the architectural and construction magazine A+C.

DREES & SOMMER

International architecture urban consulting company haris.piplas@dreso.com haris.piplas@mail.ch

Dr. Haris Piplas - Co-Directing Urban Design, Planning and Development in Integrated Urban Solutions

Michael Beckert – Leading consultant in Project Management

Lidiia Chyzhevska - Urban planner in Integrated Urban Solutions

Міські виклики та потенціали

Чому Макарів?

Макарівська селищна територіальна громада найбільша громада Київської області, розташована в Бучанському районі. Адміністративний центр — селище міського типу Макарів.

Площа громади – 1012,3 км. Населення — 27 352 чоловік. До складу громади входять 2 селица та 47 сіл.

Макарів розташований на 50 км на захід від Кисва по автомобільній поблизу автомобільної дороги державного значення М-06 Київ-Чоп.

Гікспя широкомасштабного вторгненне 24.02.2022 росії в Україну, Макарів та села Макарівської територіальної тромади стали епіцентром болювих дій та кровопролиття. Макарів та села Макарівської громади півтора місяці жити під російською скупацією. Окупанти вбили понад 200 мирних хотгелів.

Внаслідок щоденних масованих обстрілів з боку росіян зруйновано та пошкоджено 3332 об'єсти соціальної, хитлової та критичної інфраструктури. Навіблицик руйнувань завдано житловому фонду. Потіршилось достунієть навопания до комуньних послуг, інфраструктури та риму праці. Значно зоіс ізівне басвобіття.

Попри ризик затяжного конфлікту, вже сьогодні необхідно вжити дієвих заходів для відновлення життедіяльності громади, відновлення економіки та розвитку територій громади.

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Urban challenges & potentials

Why Makariv?

The Makariv Hromada (Municipality) is the largest Hromada (Municipality) of the Kylv oblast (region), located in Bucha rayon (district). The administrative centre is the town of Makariv.

The area of the Hromada (Municipality) is 1012.3 km. The population is 27,352 people.

The Hromada (Municipality) includes two towns and 47 villages.

Makariv is located 50 km west of Kylv near the state



After the large-scale rossian invasion of Ultraine on February 24, 2022, Makariv and the villages of the Makariv Homada (Municipality) became the epicentre of hostilities and bloodshed. Makariv and the villages of the Makariv Homada (Municipality) lived under russian coupation for a morth and a half. The occupiers killed more than 200 civilians.

As a result of massive daily shelling by the russians, 3,322 objects of social, residential and critical infrastructure were destroyed and damaged. The accessibility of the population to communal services, infrastructure and he labour market has worsened. The unemployment rate has increased significantly.

Despite the risk of a protracted conflict, it is already necessary to take adequate measures to restore the life of the Hromada (Municipality), revive the economy and develop the Hromada's (Municipality's) territories. coupued serticing garaces of commission of cleanAnea. order some at the



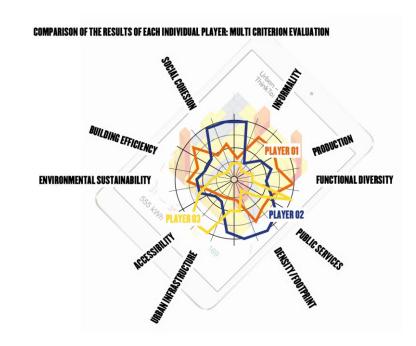
REALLABORE - PARTICIPATORY AND INCLUSIVE CITIES & NEIGHBOURHOODS





















SUSTAINABLE TRANSFORMATION OF UKRAINIAN CITIES AFTER 2014



Written by Sebastian Jordana

March 05, 2014

The recently announced 'User-Generated Kyiv Ideas Competition' is searching for creative ideas and architectural solutions on building a better city. In nowadays circumstances, where citizens arise and understand that a city should be built by its citizens, the competition aims to convert the maximum energy generated by the revolutionary wave into urban ideas and new functions of public space.

The jury includes Ai Weiwei, Haris Piplas, Heribert Wolfmayer, Stefano Regazzo and Marc Jay.







Ukrainan ottes, enabgoes to the entire Central Castern European region. has repeatedly undergore nestructuration of economies, silentifies and political systems. The inherited patterns how often should be designed and managed are mostly outsiderd: and neuvisions not yet sufficiently defined. Following as mission for more than a decode, this year's OARASTERN Festival returns to its core founding mission; to develop meparadigms in order to a reliable communities and physical bruchures through innexative formets, international collaboration and much disciplinarity.

The intense and prototypical program of the CANactions Festival, settled in the urigina unball abboratory of Rina's, most complex and potent whan zones, agries to become listed a brandromative power for the city, eliminating the gap between architectum, when design and their societies impacts, sie inside you to become active agents of the power on our resistant and join on all lessess series, discussions, urban tours, films, exhibitions, winshipps, and many more. Only together we can create new paradigms on how to plan, design, develop and run our cities.

Join, act, talk and walk with us: see you on April 20th 25th 2058 at CONNECTIONS

by Haris Piplas, CANactions Festival 2018, Curatorio



THE TECH AND DESIGN ISSUE

Architects Plan a City for the Future in Ukraine, While Bombs Still Fall

Irpin was one of the first Ukrainian cities to be destroyed and liberated. Now it's becoming a laboratory for rebuilding.











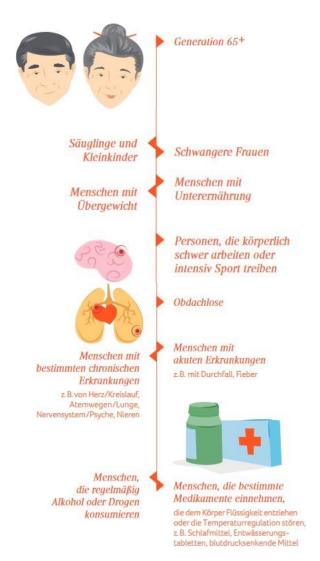
METROPOLITAN PLANNING

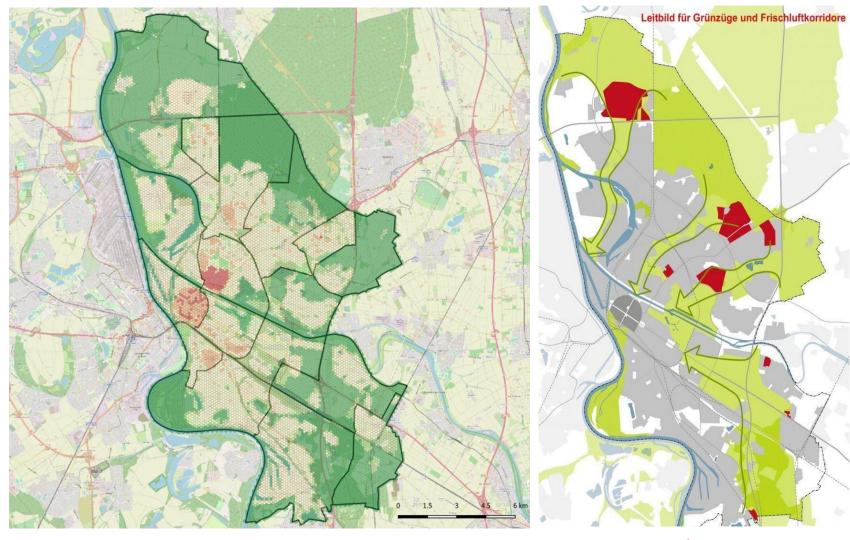






MAPPING SOCIAL AND ECOLOGICAL VULNERABILITY



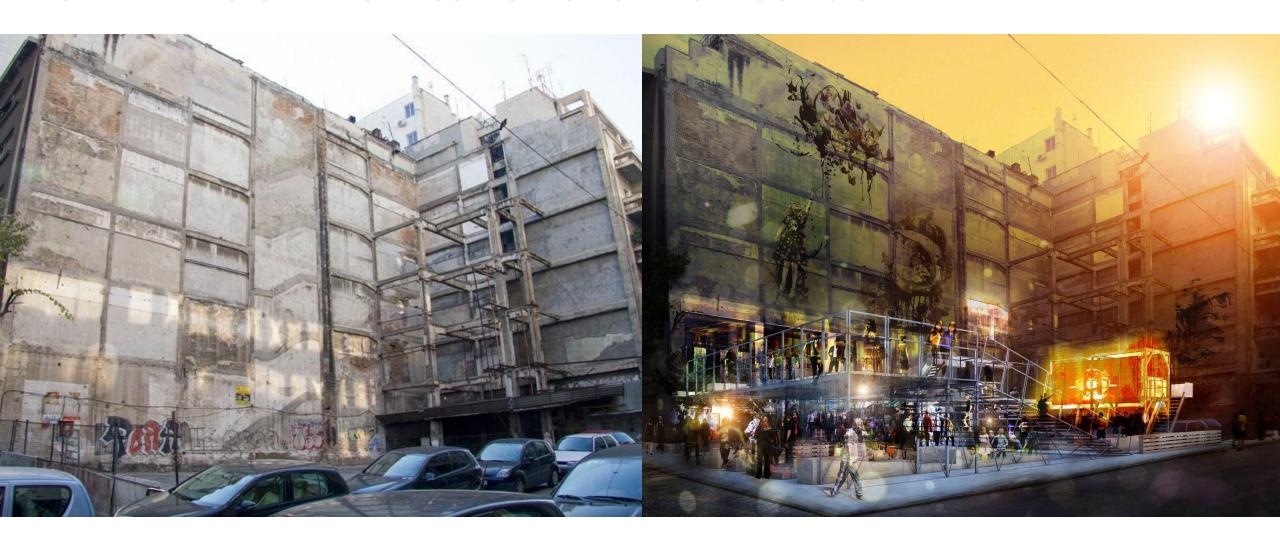








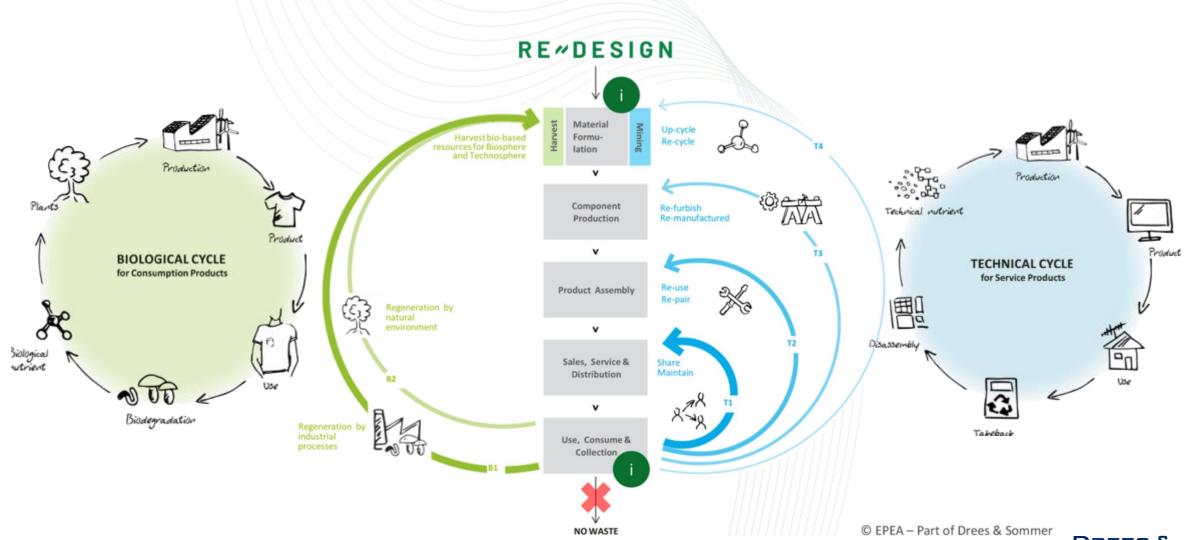
URBAN TRANSFORMATION VISUALISATION OF EXISTING SPACES







CRADLE TO CRADLE – BUILDING BACK BETTER





DEMOLISHING WORK – WASTE DUMP







HEIDELBERG CITY SCALE

Out of sight, out of mind – that is probably the best description of the way we usually treat waste. This also applies to the largest current source of waste materials: the demolition of buildings. About half of the waste which is currently disposed of in Germany is construction and demolition waste. Only a small part is recycled, and that is usually in an inferior form compared with the original use. Materials which are disposed of in construction or demolition work – such as concrete, steel, timer or plastics - usually land on waste tips or as landfill in road construction, although they are bitterly needed in new construction projects and are prohibitively expensive. The German city of Heidelberg now wants to change this. It is the first city in Europe to apply the urban mining principle in a pilot project with the title Circular City – 'construction materials cadaster for the city of Heidelberg'. The project is supported by the local company Heidelberg Cement AG, which is one of the largest building materials enterprises in the world.

Moreover the city uses the materials **platform Madaster**, designed by the environmental advisors of **EPEA**, a subsidiary of the consulting company **Drees & Sommer SE**.

<u>Urban Mining – Heidelberg on the Way to Becoming Europe's First Circular Municipality (dreso.com)</u>



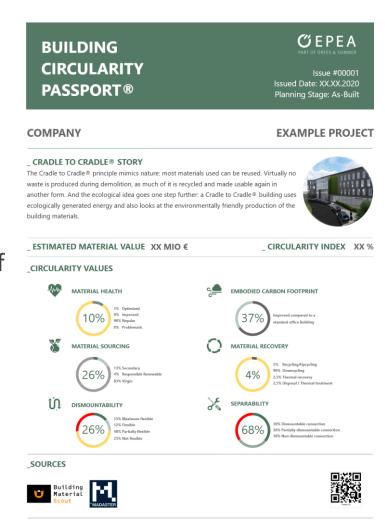




CIRCULAR BUILDINGS IN PRACTICE

Benefits

- Improvement of indoor and outdoor air quality
- Continuous material cycles with leasing and take-back programmes with manufacturers
- Usage of renewable sources of energy
- Improvement water quality
- Increase of user's health & well-being









BUILDING BACK BETTER - URBAN RECONSTRUCTION PLAN - MAKARIV, BUCHA REGION





MAKARIV VILLAGE COUNCIL

St. Dimitria Rostovskyi, 30, Makariv village, Buchansky district, Kyiv region, 08001 phone/fax (04578) 5-28-43 e-mail: mio@makariv-rada.gov.ua, www.makariv-rada.gov.ua EDRPOU code 04362183

Number: 03-22/715 Makariv, Kyiv region, 22 July 2022

Dr. Haris Piplas

Co-Director Integrated Urban Solutions International, Drees & Sommer

Oleksandr Chyzhevskyi,

President of the National Union of Architects of Ukraine (NSAU)

Dear Dr Piplas, Dear Mr Chyzhevskyi,

The city of Makariv would like to use this opportunity to express support and readiness to establish a plan for the comprehensive recovery and sustainable development of the Makivska Community.

With this letter, we express our interest and consent to creating a future project coalition.

Since the current action plan of the city authorities is aimed at restoring the critical infrastructure that suffered significant destruction during the russian occupation and achieving sustainable urban and socio-economic development of the city of Makariv and the community as a whole, we support and fully approve the development of a comprehensive recovery program, as a priority and guarantee our full participation, as a basis for joint future cooperation.

We are particularly pleased with the cooperation between the city of Makariv and National Union of Architects of Ukraine (NSAU) established through the signed Memorandum of Understanding between our City Government and the NSAU.

Therefore, we are particularly interested in the proposal to create a future project coalition and cooperation with the Integrated Urban solutions department of Drees&Sommer. We are convinced that Makariv should become an example of the best urban practices and innovations so that our city becomes a symbolic center of the region.

Therefore, we fully endorse the creation of the first step - the Makariv Urban Recovery Program - as preliminary research. With the help of this format and in this coalition project, we intend to develop a joint Strategic Plan for the city's urban development, as well as innovative pilot

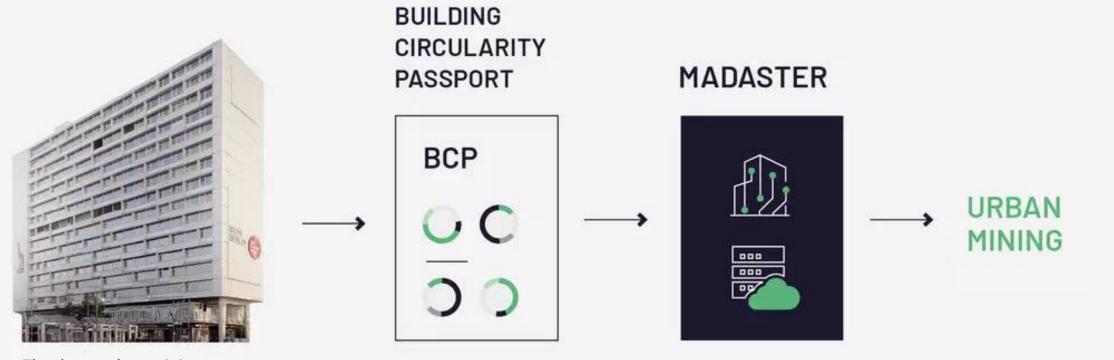




SUSTAINABLE REFURBISHMENT – AN UPGRADE FOR ESTABLISHED BUILDINGS

Modular construction and circular economy

Recovering secondary raw materials from existing buildings and reusing them in the next step makes sense, and not only for ecological reasons. The scarcity and rising cost of raw materials, increasing disposal costs and dependence on third countries make the use of secondary raw materials essential.



Thanks to urban mining:

Negative impacts resulting from raw material extraction, such as water stress and biodiversity loss, can be avoided. Established buildings become valuable raw material repositories and part of valuable material cycles — if the building's ingredients and their quality are known.





BLUE MODULARITY - BUILDING SCALE

The aim is to increase productivity, avoid waste, act transparently and sustainably, and incorporate all aspects of high-level networking into construction processes.

To this end, we have founded our Blue Modularity Hub. Our vision is that Blue Buildings – buildings that are future-proof in every respect – will be designed, engineered and produced like modern products.



