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14 September 2022

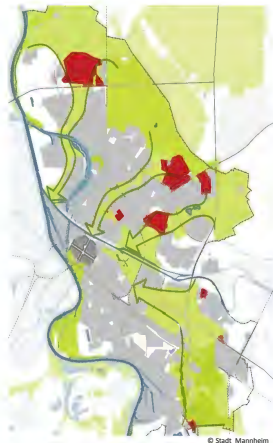
ENGLISH only

30th Economic and Environmental Forum  
Concluding Meeting

Prague, 8-9 September 2022

Session 2, Dr. Haris Piplas, Co-Directing Urban Design, Planning and Development Drees & Sommer, Switzerland

**DREES &  
SOMMER**



Urban Innovation for  
Sustainable / Smart / Secure  
Human Habitats

Dr. Haris Piplas

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Co-Director Integrated Urban Solutions

Drees&Sommer International



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**How to foster digital innovation towards sustainable management of natural resources?**

How to promote ecological approaches towards achieving climate-neutrality?

How to enhance competitiveness & entrepreneurship in the city?

How can we embrace human and relational capital through digital technology?

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## HOW TO ACT IN TIMES OF MULTIPLE CRISES ?

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## SARAJEVO - EMBLEMATIC EXAMPLE OF THE DESTRUCTION OF HUMAN HABITATS

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# DIGITAL TOOLS FOR TRANSPARENT AND EVIDENCE-BASED SMART CITY PLANNING

**BUILDING TYPE**  
**Challenges**  
 Most residential residential buildings have reached the maximum level of utilization, leaving little room for expansion or renovation.

**Potentials**  
 Building residential buildings can be adapted and reprogrammed to include new functions that will complement housing according to local economic status.

**DEVELOPMENT**  
**Challenges**  
 High-rise residential zoning tends to increase through the city.

**Potentials**  
 High-rise zones of higher use intensity can be developed in the city.

**OPEN SPACE**  
**Challenges**  
 Underutilization of green space for people and higher consumption of open space in parking.

**Potentials**  
 High-rise zones can be converted to become a green belt in the city.

**MOBILITY**  
**Challenges**  
 High level of public use, dispersed network of public transport, necessary roads.

**Potentials**  
 High-rise zones can be converted to become a green belt in the city.

**REFERENCE POINTS**  
**Challenges**  
 High-rise zones can be converted to become a green belt in the city.

**Potentials**  
 High-rise zones can be converted to become a green belt in the city.

Swiss Confederation  
 Federal Department of Economic Affairs, Education and Research SEKO  
 State Secretariat for Economic Affairs SEKO

**ETH zürich**

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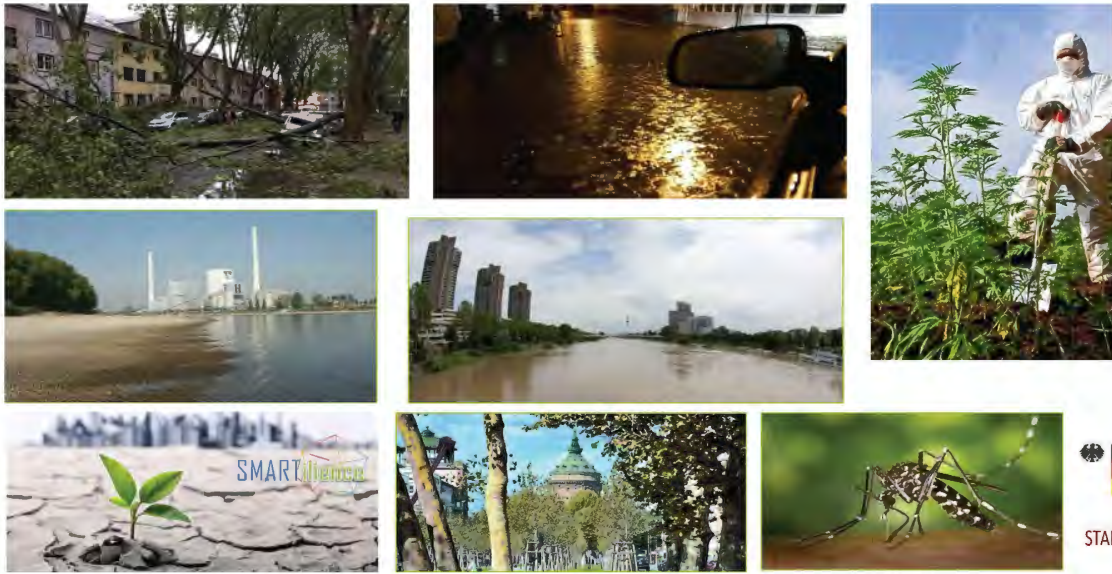
How can we embrace human and relational capital through digital technology?

Was ist der internationale Mehrwert für ein lokales Thema?

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# URBAN CLIMATE CHANGE - SEVERE CONSEQUENCES IN MANNHEIM, GERMANY



Bundesministerium für Bildung und Forschung

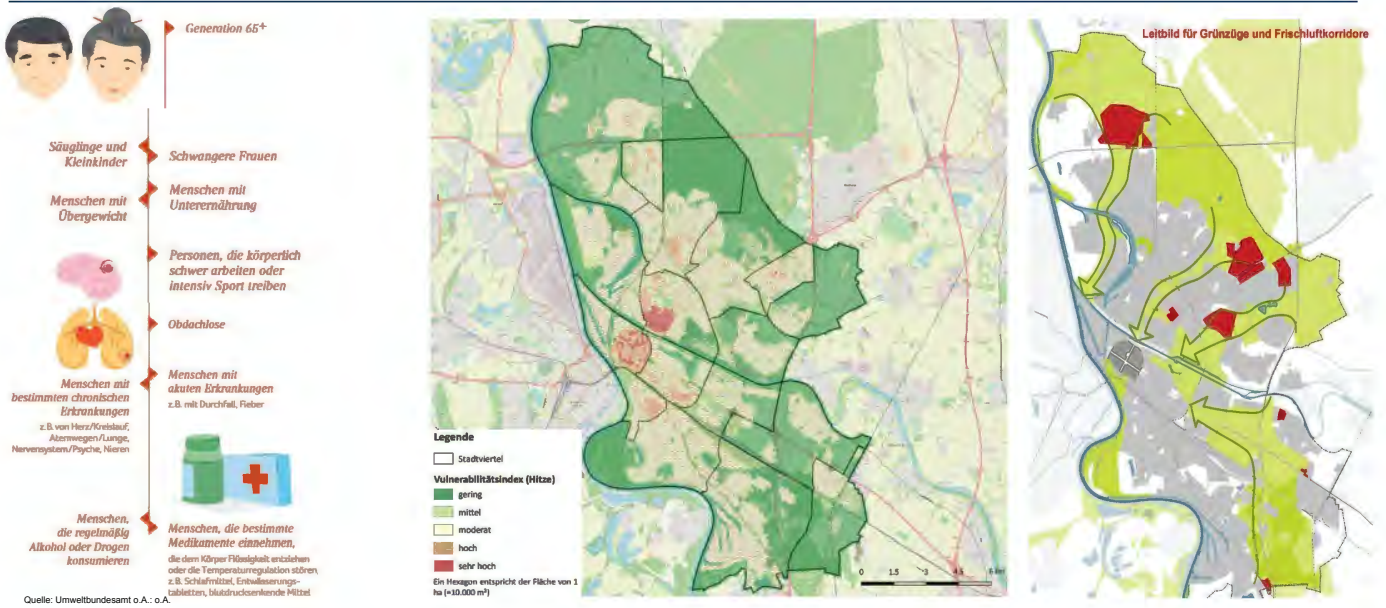
STADTMANNHEIM

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## MISSING OVERLAP OF SOCIAL AND ECOLOGICAL VULNERABILITY



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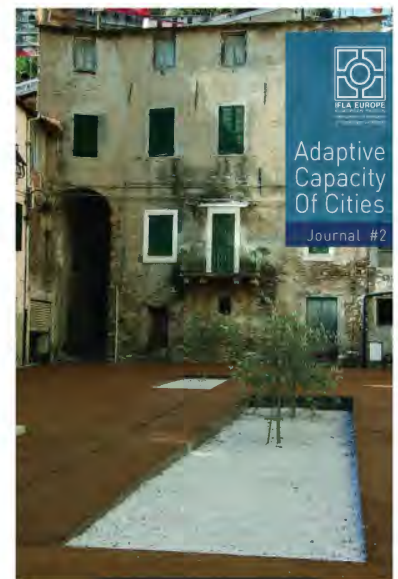
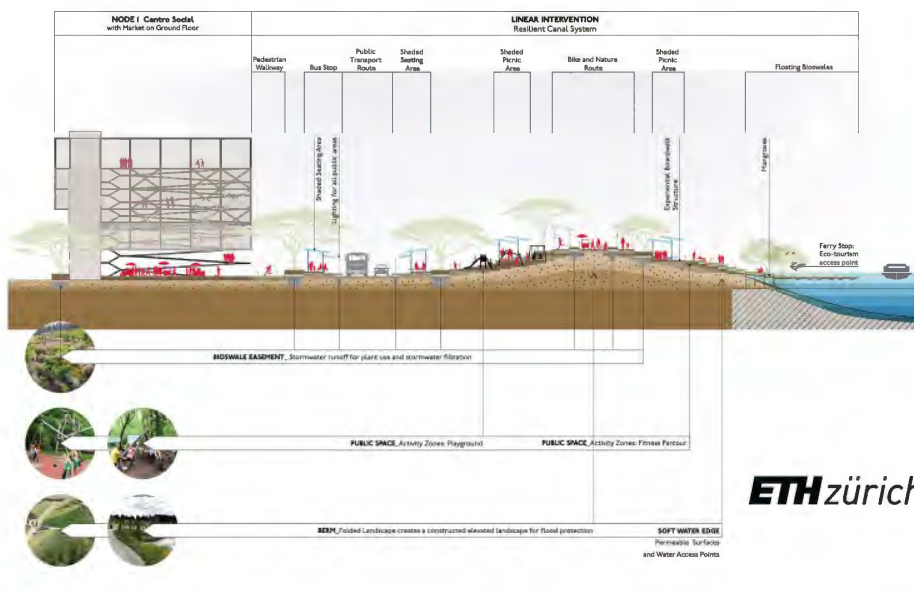
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# DIGITAL APPLICATIVE URBAN GOVERNANCE TOOLBOX

Dr. Haris Pipilas haris.pipilas@mail.ch

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# ADAPTIVE CAPACITY NEEDS A SYMBIOSIS OF NATURAL AND BUILT STRATA



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**ECOLOGICAL  
URBANISM**

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GLOBAL ECOSYSTEM OF PARTNERSHIPS: GOs / NGOs / BUSINESS / ACADEMIA



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FUTURE PARTNERSHIP - URBAN TOOLBOX FOR SECURE, SMART AND SUSTAINABLE CITIES



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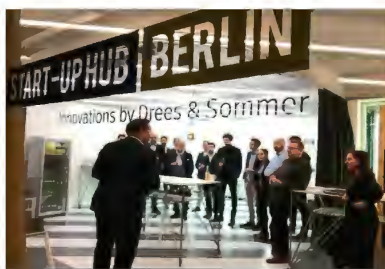
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## SYNERGY OF DIGITAL AND ANALOGUE TOOLS FOR INCLUSIVE & PARTICIPATORY CITIES

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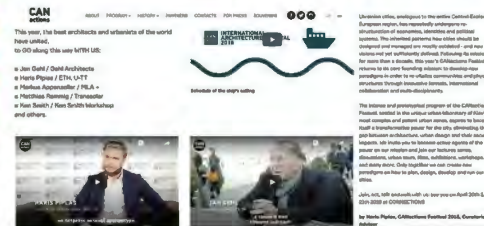


# SUSTAINABLE TRANSFORMATION OF UKRAINIAN CITIES AFTER 2014.



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.



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



### Potential next project steps

- Collection of basic data
- Damage assessment
- Conducting public discussion events to identify needs and perspectives
- Development of possible scenarios and proposals for comprehensive socio-economic and spatial recovery
- Evaluation of the relevance of the proposed proposals by conducting seminars, workshops
- Implementation through the introduction of defined projects and the development of urban planning documentation

### Urban and socio-economic challenges

- Restoration of critical infrastructure (schools, kindergartens; power lines; buildings providing medical and culture services; residential multi-store and private buildings; roads and bridges)
- Rethinking destroyed areas in the process of recovery
- The memory of 200 people killed
- Ensuring the conditions for the return of residents and businesses
- Lack of overall vision for the comprehensive development of the community
- Intensive chaotic development of the central settlement, at that time the decline of small settlements of the community
- Improving the quality of the neighbourhoods

### Existing contacts/stakeholders

- Mayor, First Deputy Mayor, Chief Architect
- Kyiv Oblast State Administration
- NGO All-Ukrainian Association of Amalgamated Territorial Communities
- NGO Association of Small Cities of Ukraine



**UN HABITAT**  
FOR A BETTER URBAN FUTURE



**MAKARIV VILLAGE COUNCIL**

№ Dimitriv Romosivskiy, 30, Makariv village, Buchansky district, Kyiv region, 08001  
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EDRFOU code 04562183

Number: 03-22/245  
Makariv, Kyiv region, 22 July 2022

**Dr. Haris Piplas**  
Co-Director Integrated Urban Solutions International, Drees & Sommer  
**Oleksandr Chyzhevskiy**,  
President of the National Union of Architects of Ukraine (NSAU)

Dear Dr Piplas,  
Dear Mr Chyzhevskiy,

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 Makivsk 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.

Sincerely,

**Vadym Tokar**  
MAYOR, THE HEAD OF THE MAKARIV COMMUNITY

Dr. Haris Piplas

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Urban Innovation for  
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Human Habitats

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