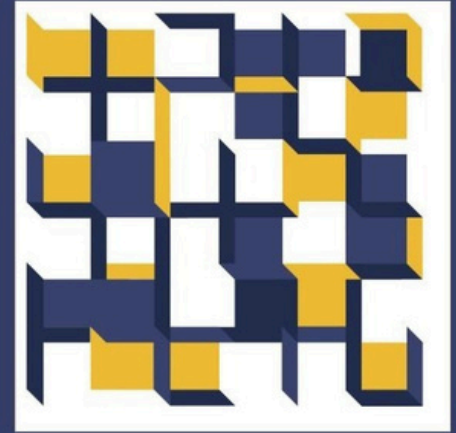


XXXII International Seminar on Urban Form

17 - 21 June 2025, Torino, Italy

URBAN MORPHOLOGY IN THE AGE OF ARTIFICIAL INTELLIGENCE



Enhancing Research Capacity in Urban Form The Strategic Evolution of the SURF Lab (UCY)

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Thursday, 19th June | Parallel Session MAP H.4 | Chair: Nadia Charalambous



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UK Research
and Innovation

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TWIN2EXPAND

This presentation regards the **SURF Research Lab implementation strategy**, encompassing both scientific and organizational aspects. It includes a **review of resource allocation** and **support systems for funding proposals and research management, strategies for long-term data collection and management**, and the **development of future tools through benchmarking work** compared to other laboratories around the world. The strategy meets the criteria of **Capacity Building and Research Management** to design, organise and manage all activities to support the improvement of UCY's research capacity; to ensure effective research management capacity building; and to support the raising of UCY's international profile.

SURF Lab

Mission

Fostering research excellence in urban design, planning and governance

Supporting the design and planning of cities which foster social progress, sustainable practices and healthy habitats.

MAIN FOCUSES:

- **THE EVIDENCE, FROM ANALYSIS TO DESIGN**
- **THE BUILT ENVIRONMENT IMPACTS ON SOCIETY**
- **THE SUSTAINABLE & HEALTHY URBAN DESIGN, PLANNING, POLICIES**
- **THE STAKEHOLDERS & COMMUNITY ENGAGEMENT**

The Future Role of SURF Lab

Beyond strengthening SURF Lab, we must reflect on its broader role locally and globally.

2 KEY DIMENSIONS:

Spatial defining geographic focus (Cyprus, EMME region, Mediterranean-North Africa, or global) and functional role (university research unit, national center, or supranational entity).

Temporal setting short-term and long-term objectives based on these choices.

Benchmarking

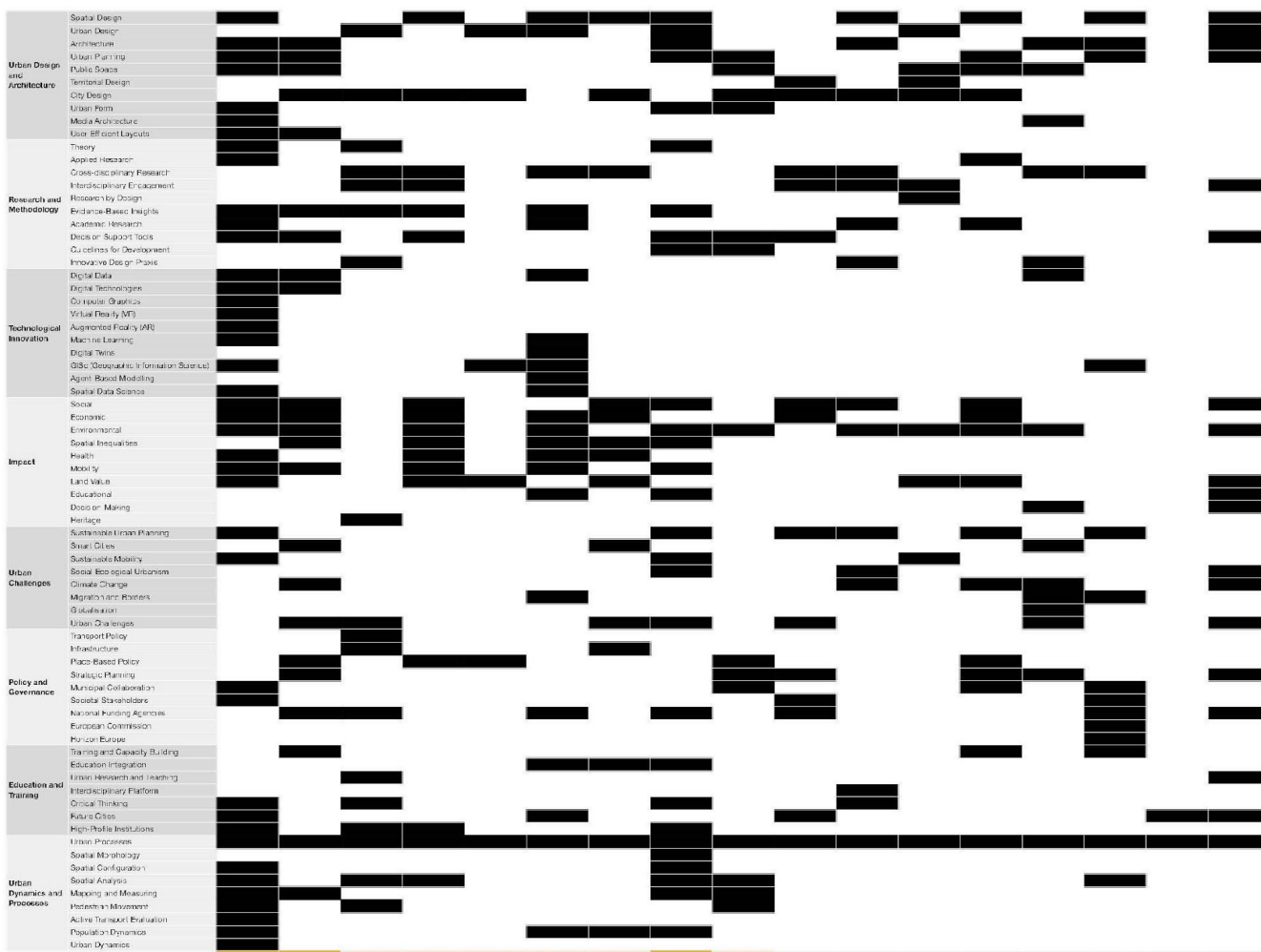
40 selected Labs in different geographic areas

8 thematic keywords

Urban Design and Architecture
Research and Methodology
Technological Innovation
Impact
Urban Challenges
Policy and Governance
Education and Training
Urban Dynamics and Processes

4 key aspect

Stakeholder Engagement
Target Groups
Products/ Services / Outputs
Type of Structure



EUROPE

17 Labs

- Space Syntax Lab
- Space Syntax Ltd
- UCL Urban Laboratory
- Urban Dynamics Lab
- The Academy of Urbanism
- Institute for Spatial Data Science
- Urban Analytics Technology Platform
- SMoG
- SpaceScape
- FULL
- Urban Sciences Lab
- Lab-U Laboratory of Urbanism
- LAND Research Lab
- Hybrid Space Lab
- Department of Geography and Spatial Planning Université du Luxembourg
- Institute for European Urban Studies (IfEU)

8 thematic keywords

- Urban Design and Architecture
- Research and Methodology
- Technological Innovation
- Impact
- Urban Challenges
- Policy and Governance
- Education and Training
- Urban Dynamics and Processes

Space Syntax Lab	Space Syntax Ltd	UCL Urban Laboratory	Urban Dynamics Lab	The Academy of Urbanism	Centre for Spatial Data Science (UCL)	Urban Analytics Technology Platform	SMoG	SpaceScape	FULL	Urban Sciences Lab	Lab-U Laboratory of Urbanism	LAND Research Lab	Hybrid Space Lab	Department of Geography and Spatial Planning (University of Luxembourg)	Future Architecture	Institute for European Urban Studies (IfEU)
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EUROPE

17 Labs

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- Urban Design and Architecture
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- Urban Dynamics and Processes

EUROPE

17 Labs

Space Syntax Lab
 Space Syntax Ltd
 UCL Urban Laboratory
 Urban Dynamics Lab
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 SMOG
 SpaceScope
 FULL
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 LAND Research Lab
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	Space Syntax Lab	Space Syntax Ltd	UCL Urban Laboratory	Urban Dynamics Lab	The Academy of Urbanism	Institute for Spatial Data Science (Leeds UK)	Urban Analytics Technology Platform	SMOG	SpaceScope	FULL	Urban Sciences Lab	Lab-U Laboratory of Urbanism	LAND Research Lab	Hybrid Space Lab	Department of Geography and Spatial Planning Université du Luxembourg	Institute for European Urban Studies (IfEU)
STAKEHOLDER ENGAGEMENT	Academic and Research Institutions															
	Government and Policy Makers															
	Urban Design and Development Professionals															
	Community and Civic Organisations															
	Technology and Industry Leaders															
	International Collaborators and Networks															
	Funding and Policy Institutions															
TARGET GROUPS	Environmental and Sustainability Stakeholders															
	Urban and Transportation Authorities															
	Urban Communities and Practitioners															
	Academic and Research Communities															
	Urban Planning and Design Professionals															
	Policy and Government Officials															
	Technology and Data Scientists															
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Private Sector															
	Community and Civic Groups															
	Cultural Practitioners															
	Multidisciplinary Audience															
	Research Outputs															
	Design and Planning Tools/Methods															
	Projects and Research Publications															
STRUCTURE	Training															
	Analytical Tools and Models															
	Sustainable and Environmental Solutions															
	Public Engagement															
	Academic															
	Not-for-Profit Organization															
	Platform															
	Consulting Company															
	Interdisciplinary Research Center															

4 key aspects

- Stakeholder Engagement
- Target Groups
- Products/ Services / Outputs
- Type of Structure

EUROPE

17 Labs

Space Syntax Lab
 Space Syntax Ltd
 UCL Urban Laboratory
 Urban Dynamics Lab
 The Academy of Urbanism
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 SMOG
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 LAND Research Lab
 Hybrid Space Lab
 Department of Geography and Spatial
 Planning Université du Luxembourg
 Institute for European Urban Studies
 (IfEU)

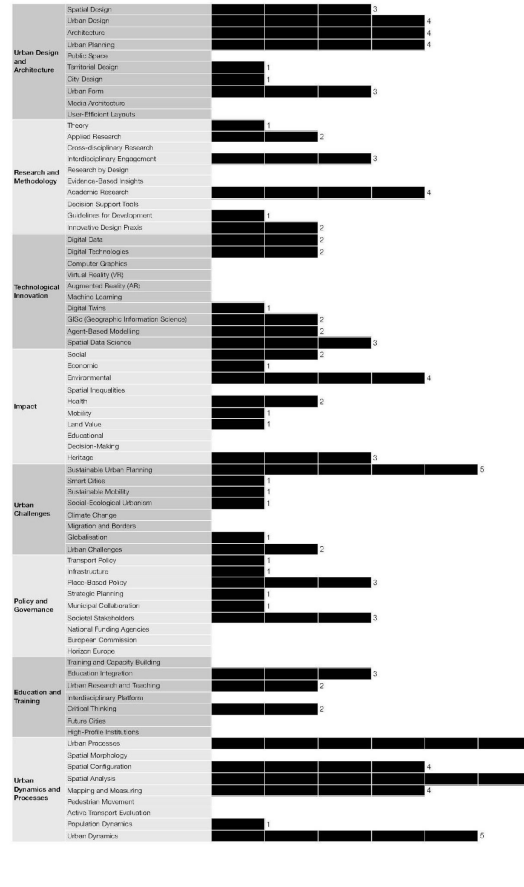
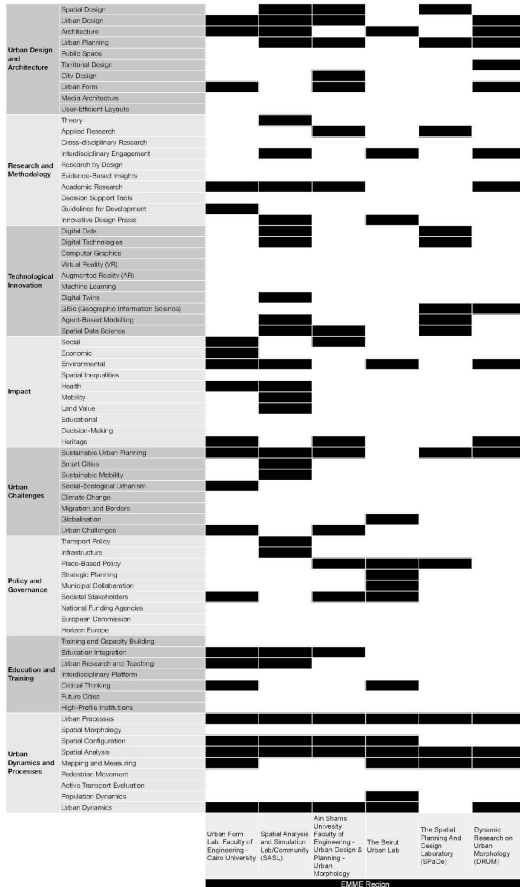
4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure



4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure



EMME REGION

6 Labs

- Urban Form Lab. Faculty of Engineering - Cairo University
- Spatial Analysis and Simulation Lab/Community (SASL) Ain Shams University Faculty of Engineering - Urban Design & Planning - Urban Morphology
- The Beirut Urban Lab
- The Spatial Planning And Design Laboratory (SPaDe)
- Dynamic Research on Urban Morphology (DRUM)

8 thematic keywords

- Urban Design and Architecture
- Research and Methodology
- Technological Innovation
- Impact
- Urban Challenges
- Policy and Governance
- Education and Training
- Urban Dynamics and Processes

Urban Form Lab, Faculty of Engineering, Cairo University | Spatial Analysis Lab, Community Lab, Cairo University | Ain Shams University | Faculty of Engineering, Urban Design & Planning, Urban Morphology | The Beirut Urban Lab | The Spatial Planning and Design Laboratory (SPaDe) | Dynamic Research on Urban Morphology (DRUM)

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions						
	Government and Policy Makers						
	Urban Design and Development Professionals						
	Community and Civic Organizations						
	Technology and Industry Leaders						
	International Collaborators and Networks						
	Funding and Policy Institutions						
	Environmental and Sustainability Stakeholders						
	Urban and Transportation Authorities						
TARGET GROUPS	Urban Communities and Practitioners						
	Academic and Research Communities						
	Urban Planning and Design Professionals						
	Policy and Government Officials						
	Technology and Data Specialists						
	Private Sector						
	Community and Civic Groups						
	Cultural Practitioners						
	Multidisciplinary Audience						
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Research Outputs						
	Design and Planning Tools/Methods						
	Projects and Scenarios						
	Publications						
	Training						
	Analytical Tools and Models						
	Sustainable and Environmental Solutions						
STRUCTURE	Public Engagement						
	Academic						
	Not-for-Profit Organization						
	Platform						
	Consulting Company						
Interdisciplinary Research Center							
	Urban Form Lab - Faculty of Engineering - Cairo University	Spatial Analysis and Simulation Lab/Community (SASL)	Ain Shams University Faculty of Engineering - Urban Design & Planning - Urban Morphology	The Beirut Urban Lab	The Spatial Planning And Design Laboratory (SPaDe)	Dynamic Research on Urban Morphology (DRUM)	
	EMME Region						

EMME REGION

6 Labs

Urban Form Lab. Faculty of Engineering - Cairo University
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4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions						6
	Government and Policy Makers					4	
	Urban Design and Development Professionals						5
	Community and Civic Organizations						6
	Technology and Industry Leaders	1					
	International Collaborators and Networks			3			
	Funding and Policy Institutions						
TARGET GROUPS	Environmental and Sustainability Stakeholders						
	Urban and Transportation Authorities						
	Urban Communities and Practitioners					4	
	Academic and Research Communities						5
	Urban Planning and Design Professionals						5
	Policy and Government Officials					4	
	Technology and Data Specialists	1					
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Private Sector						
	Community and Civic Groups					3	
	Cultural Practitioners			2			
	Multidisciplinary Audience						
	Research Outputs						6
STRUCTURE	Design and Planning Tools/Methods						6
	Projects and Scenarios					4	
	Publications						5
	Training	1					
	Analytical Tools and Models			2			
	Sustainable and Environmental Solutions						
STRUCTURE	Public Engagement						
	Academic						5
	Not-for-Profit Organization						
	Platform						
STRUCTURE	Consulting Company						
	Interdisciplinary Research Center			2			

EMME REGION

6 Labs

Urban Form Lab. Faculty of Engineering - Cairo University
 Spatial Analysis and Simulation Lab/Community (SASL)
 Ain Shams University Faculty of Engineering - Urban Design & Planning - Urban Morphology
 The Beirut Urban Lab
 The Spatial Planning And Design Laboratory (SPaDe)
 Dynamic Research on Urban Morphology (DRUM)

4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure

	Spatial Design			
	Urban Design			
	Architecture			
Urban Design and Architecture	Urban Planning			
	Public Space			
	Territorial Design			
	City Design			
	Urban Form			
	Media Architecture			
	User-Efficient Layouts			
Research and Methodology	Theory			
	Applied Research			
	Cross-disciplinary Research			
	Interdisciplinary Engagement			
	Research by Design			
	Evidence-Based Insights			
	Academic Research			
	Decision Support Tools			
	Guidelines for Development			
	Innovative Design Praxis			
Technological Innovation	Digital Data			
	Digital Technologies			
	Computer Graphics			
	Virtual Reality (VR)			
	Augmented Reality (AR)			
	Machine Learning			
	Digital Twins			
	GIS (Geographic Information Science)			
	Agent-Based Modeling			
	Spatial Data Science			
Impact	Social			
	Economic			
	Environmental			
	Spatial Inequalities			
	Health			
	Mobility			
	Land Value			
	Educational			
	Decision-Making			
	Heritage			
Urban Challenges	Sustainable Urban Planning			
	Smart Cities			
	Sustainable Mobility			
	Social-Ecological Urbanism			
	Climate Change			
	Migration and Borders			
	Globalisation			
	Urban Challenges			
	Transport Policy			
	Infrastructure			
Policy and Governance	Place-Based Policy			
	Strategic Planning			
	Municipal Collaboration			
	Societal Stakeholders			
	National Funding Agencies			
	European Commission			
	Horizon Europe			
Education and Training	Training and Capacity Building			
	Education Integration			
	Urban Research and Teaching			
	Interdisciplinary Platform			
	Critical Thinking			
	Future Cities			
Urban Dynamics and Processes	High-Profile Institutions			
	Urban Processes			
	Spatial Morphology			
	Spatial Configuration			
	Spatial Analysis			
	Mapping and Measuring			
	Pedestrian Movement			
	Active Transport Evaluation			
	Population Dynamics			
	Urban Dynamics			
	SpatialLab@UP			
	Spatial Analytics Laboratory (SALY)			
	SUB: SAHARIAN AFRICA			

	Spatial Design			2	
	Urban Design				
	Architecture				
Urban Design and Architecture	Urban Planning			1	
	Public Space			1	
	Territorial Design				
	City Design			1	
	Urban Form				
	Media Architecture				
	User-Efficient Layouts				
Research and Methodology	Theory				
	Applied Research			2	
	Cross-disciplinary Research				
	Interdisciplinary Engagement				
	Research by Design				
	Evidence-Based Insights				
	Academic Research				
	Decision Support Tools				
	Guidelines for Development				
	Innovative Design Praxis				
Technological Innovation	Digital Data			2	
	Digital Technologies			2	
	Computer Graphics				
	Virtual Reality (VR)				
	Augmented Reality (AR)				
	Machine Learning				
	Digital Twins				
	GIS (Geographic Information Science)			2	
	Agent-Based Modeling				
	Spatial Data Science			1	
Impact	Social			2	
	Economic			2	
	Environmental			2	
	Spatial Inequalities				
	Health			1	
	Mobility			2	
	Land Value				
	Educational				
	Decision-Making			2	
	Heritage				
Urban Challenges	Sustainable Urban Planning				
	Smart Cities				
	Sustainable Mobility				
	Social-Ecological Urbanism				
	Climate Change				
	Migration and Borders				
	Globalisation				
	Urban Challenges				2
	Transport Policy				
	Infrastructure				
Policy and Governance	Place-Based Policy			2	
	Strategic Planning			2	
	Municipal Collaboration				
	Societal Stakeholders			2	
	National Funding Agencies				
	European Commission				
	Horizon Europe				
Education and Training	Training and Capacity Building				
	Education Integration				
	Urban Research and Teaching			2	
	Interdisciplinary Platform				
	Critical Thinking				
	Future Cities				
Urban Dynamics and Processes	High-Profile Institutions			2	
	Urban Processes			2	
	Spatial Morphology				
	Spatial Configuration				
	Spatial Analysis				
	Mapping and Measuring			2	
	Pedestrian Movement				
	Active Transport Evaluation				
	Population Dynamics				
	Urban Dynamics			2	

SUB S. AFRICA

2 Labs

Spatial Analytics Laboratory (SALY)
SpatialLab@UP

8 thematic keywords

Urban Design and Architecture
Research and Methodology
Technological Innovation
Impact
Urban Challenges
Policy and Governance
Education and Training
Urban Dynamics and Processes

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions		
	Government and Policy Makers		
	Urban Design and Development Professionals		
	Community and Civic Organizations		
	Technology and Industry Leaders		
	International Collaborators and Networks		
	Funding and Policy Institutions		
	Environmental and Sustainability Stakeholders		
	Urban and Transportation Authorities		
	Urban Communities and Practitioners		
TARGET GROUPS	Academic and Research Communities		
	Urban Planning and Design Professionals		
	Policy and Government Officials		
	Technology and Data Specialists		
	Private Sector		
	Community and Civic Groups		
	Cultural Practitioners		
Multidisciplinary Audience			
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Research Outputs		
	Design and Planning Tools/Methods		
	Projects and Scenarios		
	Publications		
	Training		
	Analytical Tools and Models		
	Sustainable and Environmental Solutions		
Public Engagement			
STRUCTURE	Academic		
	Not-for-Profit Organization		
	Platform		
	Consulting Company		
	Interdisciplinary Research Center		

Spatial Analytics Laboratory (SALY) SpatialLab@UP

SUB-SAHARIAN AFRICA

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions		2
	Government and Policy Makers		2
	Urban Design and Development Professionals		2
	Community and Civic Organizations		2
	Technology and Industry Leaders		1
	International Collaborators and Networks		
	Funding and Policy Institutions		
	Environmental and Sustainability Stakeholders		
	Urban and Transportation Authorities		
	Urban Communities and Practitioners		2
TARGET GROUPS	Academic and Research Communities		2
	Urban Planning and Design Professionals		2
	Policy and Government Officials		2
	Technology and Data Specialists		1
	Private Sector		
	Community and Civic Groups		
	Cultural Practitioners		
Multidisciplinary Audience			
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Research Outputs		2
	Design and Planning Tools/Methods		2
	Projects and Scenarios		1
	Publications		
	Training		1
	Analytical Tools and Models		
	Sustainable and Environmental Solutions		
Public Engagement			
STRUCTURE	Academic		2
	Not-for-Profit Organization		
	Platform		
	Consulting Company		
	Interdisciplinary Research Center		

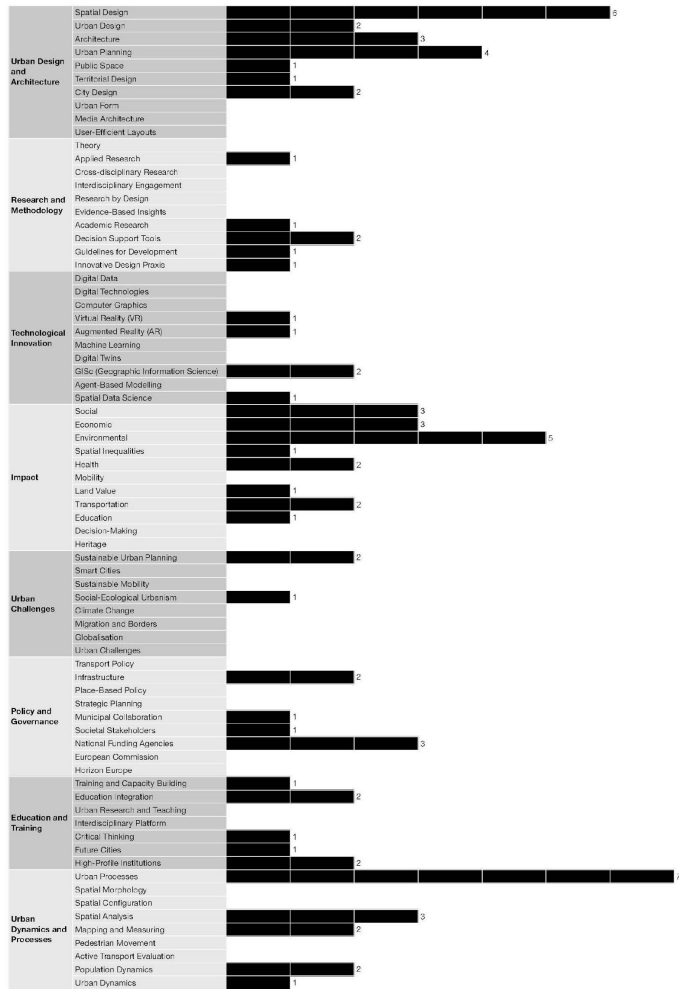
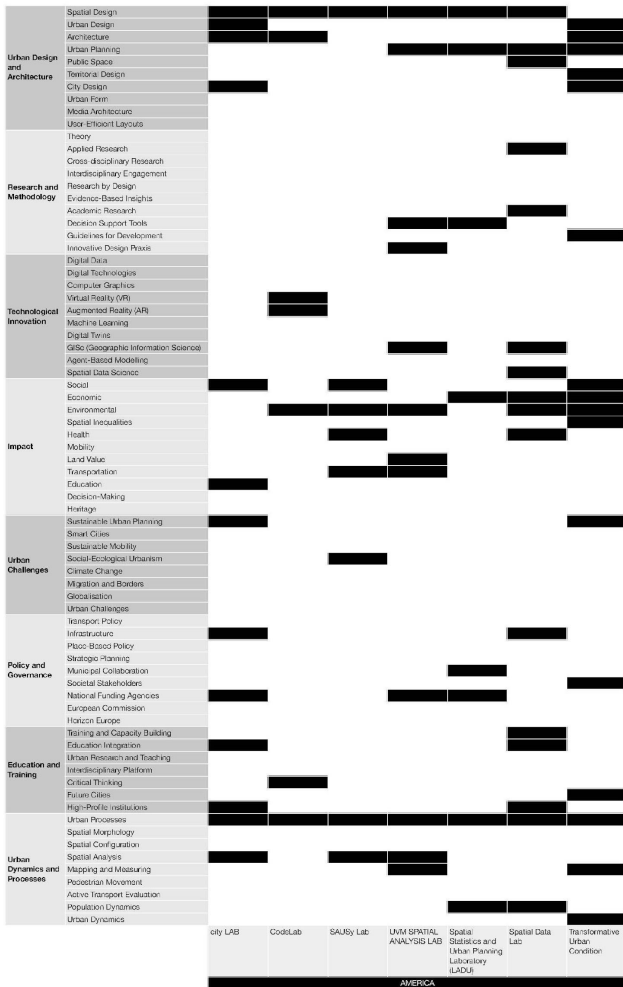
SUB S. AFRICA

2 Labs

Spatial Analytics Laboratory (SALY)
SpatialLab@UP

4 key aspects

Stakeholder Engagement
Target Groups
Products/ Services / Outputs
Type of Structure



AMERICA

7 Labs

- city LAB
- CodeLab
- SAUSY Lab
- UVM SPATIAL ANALYSIS LAB
- Spatial Statistics and Urban Planning Laboratory (LADU)
- Spatial Data Lab
- Transformative Urban Condition

8 thematic keywords

- Urban Design and Architecture
- Research and Methodology
- Technological Innovation
- Impact
- Urban Challenges
- Policy and Governance
- Education and Training
- Urban Dynamics and Processes

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions							
	Government and Policy Makers							
	Urban Design and Development Professionals							
	Community and Civic Organizations							
	Technology and Industry Leaders							
	International Collaborators and Networks							
	Funding and Policy Institutions							
	Environmental and Sustainability Stakeholders							
	Urban and Transportation Authorities							
	Urban Communities and Practitioners							
TARGET GROUPS	Academic and Research Communities							
	Urban Planning and Design Professionals							
	Policy and Government Officials							
	Technology and Data Specialists							
	Private Sector							
	Community and Civic Groups							
	Cultural Practitioners							
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Multidisciplinary Audience							
	Research Outputs							
	Design and Planning Tools/Methods							
	Projects and Scenarios							
	Publications							
	Training							
	Analytical Tools and Models							
STRUCTURE	Sustainable and Environmental Solutions							
	Public Engagement							
	Academic							
	Not-for-Profit Organization							
	Platform							
Consulting Company								
Interdisciplinary Research Center								
	city LAB	CodeLab	SAUSy Lab	UVM SPATIAL ANALYSIS LAB	Spatial Statistics and Urban Planning Laboratory (LADU)	Spatial Data Lab	Transformative Urban Condition	
	AMERICA							

AMERICA

7 Labs

city LAB
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 Transformative Urban Condition

4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions	6
	Government and Policy Makers	6
	Urban Design and Development Professionals	2
	Community and Civic Organizations	5
	Technology and Industry Leaders	3
	International Collaborators and Networks	1
	Funding and Policy Institutions	1
	Environmental and Sustainability Stakeholders	1
TARGET GROUPS	Urban and Transportation Authorities	
	Urban Communities and Practitioners	6
	Academic and Research Communities	7
	Urban Planning and Design Professionals	6
	Policy and Government Officials	5
	Technology and Data Specialists	3
	Private Sector	1
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Community and Civic Groups	4
	Cultural Practitioners	3
	Multidisciplinary Audience	
	Research Outlets	7
	Design and Planning Tools/Methods	7
	Projects and Scenarios	4
	Publications	
STRUCTURE	Training	2
	Analytical Tools and Models	6
	Sustainable and Environmental Solutions	
	Public Engagement	1
	Academic	6
STRUCTURE	Not-for-Profit Organization	
	Platform	
	Consulting Company	
	Interdisciplinary Research Center	1

AMERICA

7 Labs

city LAB
 CodeLab
 SAUSY Lab
 UVM SPATIAL ANALYSIS LAB
 Spatial Statistics and Urban Planning
 Laboratory (LADU)
 Spatial Data Lab
 Transformative Urban Condition

4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure

Urban Design and Architecture	Spatial Design			
	Urban Design			
	Architecture			
	Urban Planning			
	Public Space			
	Territorial Design			
	City Design			
	Urban Form			
	Built Environment			
	Media Architecture			
Research and Methodology	User-Efficient Layouts			
	Theory			
	Applied Research			
	Cross-disciplinary Research			
	Interdisciplinary Engagement			
	Research by Design			
	Evidence-Based Insights			
	Academic Research			
	Decision Support Tools			
	Guidelines for Development			
Technological Innovation	Innovative Design Praxis			
	Digital Data			
	Digital Technologies			
	Computer Graphics			
	Virtual Reality (VR)			
	Augmented Reality (AR)			
	Machine Learning			
	Digital Twins			
	GIS (Geographic Information Science)			
	Agent-Based Modelling			
Impact	Spatial Data Science			
	Social			
	Economic			
	Environmental			
	Spatial Inequalities			
	Health			
	Mobility			
	Land Value			
	Educational			
	Decision-Making			
Urban Challenges	Heritage			
	Sustainable Urban Planning			
	Smart Cities			
	Sustainable Mobility			
	Socio-Ecological Urbanism			
	Climate Change			
	Migration and Borders			
	Globalisation			
	Urban Challenges			
	Transport Policy			
Policy and Governance	Infrastructure			
	Place-Based Policy			
	Strategic Planning			
	Municipal Collaboration			
	Societal Stakeholders			
	National Funding Agencies			
	European Commission			
	Horizon Europe			
	Training and Capacity Building			
	Education Integration			
Education and Training	Urban Research and Teaching			
	Interdisciplinary Platform			
	Critical Thinking			
	Future Cities			
	High-Profile Institutions			
	Urban Processes			
	Spatial Morphology			
	Spatial Configuration			
	Spatial Analysis			
	Mapping and Measuring			
Urban Dynamics and Processes	Pedestrian Movement			
	Active Transport Evaluation			
	Population Dynamics			
	Urban Dynamics			
	Future Cities Laboratory	Laboratory for Smart City and Spatial Big Data Analytics	Urban Analytics Lab	
	ASIA			

Urban Design and Architecture	Spatial Design			2
	Urban Design			
	Architecture			1
	Urban Planning			1
	Public Space			
	Territorial Design			
	City Design			3
	Urban Form			
	Built Environment			
	Media Architecture			
Research and Methodology	User-Efficient Layouts			
	Theory			
	Applied Research			
	Cross-disciplinary Research			
	Interdisciplinary Engagement			
	Research by Design			
	Evidence-Based Insights			
	Academic Research			
	Decision Support Tools			
	Guidelines for Development			
Technological Innovation	Innovative Design Praxis			2
	Digital Data			1
	Digital Technologies			
	Computer Graphics			
	Virtual Reality (VR)			
	Augmented Reality (AR)			
	Machine Learning			
	Digital Twins			1
	GIS (Geographic Information Science)			
	Agent-Based Modelling			
Impact	Spatial Data Science			1
	Social			1
	Economic			1
	Environmental			2
	Spatial Inequalities			
	Health			
	Mobility			1
	Land Value			2
	Educational			
	Decision-Making			
Urban Challenges	Heritage			
	Sustainable Urban Planning			1
	Smart Cities			2
	Sustainable Mobility			
	Socio-Ecological Urbanism			1
	Climate Change			1
	Migration and Borders			
	Globalisation			
	Urban Challenges			1
	Transport Policy			
Policy and Governance	Infrastructure			1
	Place-Based Policy			1
	Strategic Planning			2
	Municipal Collaboration			
	Societal Stakeholders			
	National Funding Agencies			1
	European Commission			
	Horizon Europe			
	Training and Capacity Building			
	Education Integration			
Education and Training	Urban Research and Teaching			
	Interdisciplinary Platform			
	Critical Thinking			1
	Future Cities			
	High-Profile Institutions			
	Urban Processes			3
	Spatial Morphology			
	Spatial Configuration			
	Spatial Analysis			
	Mapping and Measuring			
Urban Dynamics and Processes	Pedestrian Movement			
	Active Transport Evaluation			
	Population Dynamics			
	Urban Dynamics			1

ASIA

3 Labs

Future Cities Laboratory
 Laboratory for Smart Cities and Spatial Big Data Analytics
 Urban Analytics Lab

8 thematic keywords

Urban Design and Architecture
 Research and Methodology
 Technological Innovation
 Impact
 Urban Challenges
 Policy and Governance
 Education and Training
 Urban Dynamics and Processes

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions			
	Government and Policy Makers			
	Urban Design and Development Professionals			
	Community and Civic Organizations			
	Technology and Industry Leaders			
	International Collaborators and Networks			
	Funding and Policy Institutions			
	Environmental and Sustainability Stakeholders			
	Urban and Transportation Authorities			
	Urban Communities and Practitioners			
TARGET GROUPS	Academic and Research Communities			
	Urban Planning and Design Professionals			
	Policy and Government Officials			
	Technology and Data Specialists			
	Private Sector			
	Community and Civic Groups			
	Cultural Practitioners			
	Multidisciplinary Audience			
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Research Outputs			
	Design and Planning Tools/Methods			
	Projects and Scenarios			
	Publications			
	Training			
	Analytical Tools and Models			
	Sustainable and Environmental Solutions			
	Public Engagement			
STRUCTURE	Academic			
	Not-for-Profit Organization			
	Platform			
	Consulting Company			
	Interdisciplinary Research Center			
	Future Cities Laboratory	Laboratory for Smart City and Spatial Big Data Analytics	Urban Analytics Lab	
	ASIA			

STAKEHOLDER ENGAGEMENT	Academic and Research Institutions			3
	Government and Policy Makers			2
	Urban Design and Development Professionals			2
	Community and Civic Organizations		1	
	Technology and Industry Leaders			3
	International Collaborators and Networks			
	Funding and Policy Institutions			
	Environmental and Sustainability Stakeholders		1	
	Urban and Transportation Authorities			
	Urban Communities and Practitioners			2
TARGET GROUPS	Academic and Research Communities			2
	Urban Planning and Design Professionals			2
	Policy and Government Officials			3
	Technology and Data Specialists			1
	Private Sector			1
	Community and Civic Groups			1
	Cultural Practitioners			
	Multidisciplinary Audience			
INDICATORS / PRODUCTS / SERVICES (PAPERS, POLICY BRIEFS, ETC.)	Research Outputs			2
	Design and Planning Tools/Methods			3
	Projects and Scenarios			3
	Publications			
	Training			1
	Analytical Tools and Models			2
	Sustainable and Environmental Solutions			1
	Public Engagement			1
STRUCTURE	Academic			2
	Not-for-Profit Organization			
	Platform			
	Consulting Company			
	Interdisciplinary Research Center			1

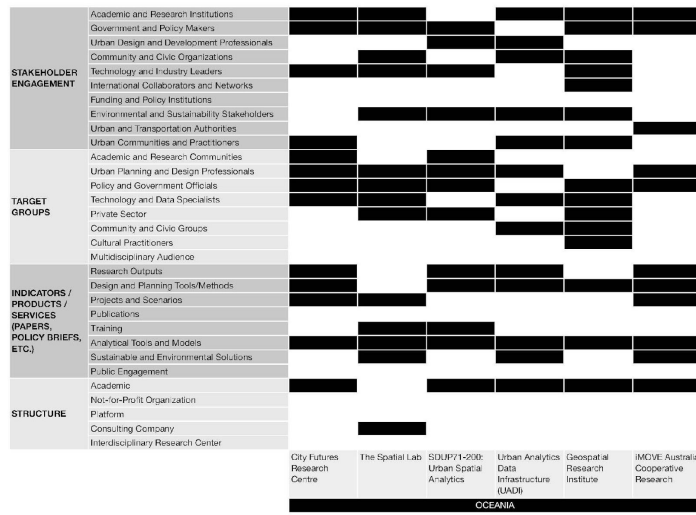
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4 key aspects

Stakeholder Engagement
 Target Groups
 Products/ Services / Outputs
 Type of Structure



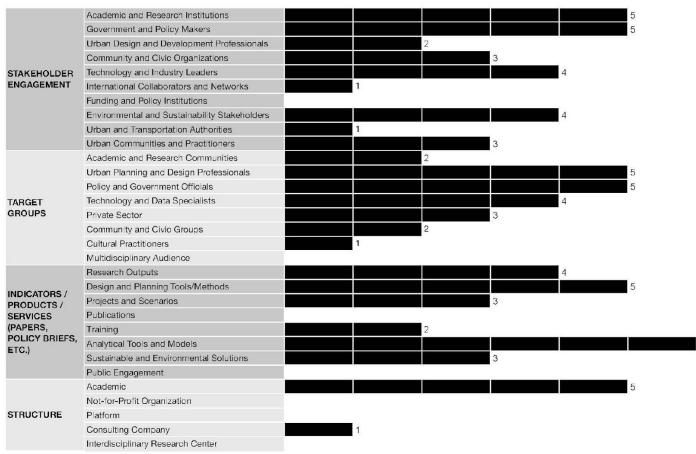
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6 Labs

- City Futures Research Centre
- The Spatial Lab
- Urban Spatial Analytics
- Urban Analytics Data Infrastructure (UADI)
- Geospatial Research Institute
- iMove Australia Cooperative Research

City Futures Research Centre The Spatial Lab SQDJF11-200: Urban Spatial Analytics Urban Analytics Data Infrastructure (UADI) Geospatial Research Institute iMOVE Australia Cooperative Research

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4 key aspects

- Stakeholder Engagement
- Target Groups
- Products/ Services / Outputs
- Type of Structure

SURF LAB

Implementation

Strategy

some important aspects that emerge

- The SURF Lab aims to establish a **long-term vision** beyond current temporal and geographic contexts.
- It seeks to build a **collaborative ecosystem**: partners, spin-offs, digital tools, and data repositories.
- Positioned within the **global network of Spatial Labs**, SURF focuses on urban space regeneration through spatial analysis and decision-making support.
- Its core strength lies in **evidence-based design and planning**, leveraging data, maps, remote sensing, and AI (e.g., CNNs) for urban analysis.

SURF LAB

Implementation

Strategy

SURF Lab as:

1. **Global Reach** – A worldwide hub for Evidence-Based Design and Planning.
2. **Interdisciplinary Dialogue** – An international round table for diverse urban knowledge.
3. **Advanced Education** – A European/Global center for training in complex urban studies.
4. **Data Infrastructure** – A recognized hub for data collection, analysis, and project support.
5. **Stakeholder Engagement** – A trusted partner for decision-makers across sectors.

SURF LAB

Implementation

Strategy

GOALS AND ACTIONS:

A. Scientific Strategy

- A 1. Develop Best Practices Repository
- A 2. Host Global Conferences

B. Organizational Strategy

- B 1. Form Expert Panels
- B 2. Facilitate Virtual Round Tables

C. Resource Allocations

- C 1. Develop Specialized Programs
- C 2. Offer Workshops and Seminars

D. Support Systems for Funding Proposals

- D 1. Build a Data Repository
- D 2. Leverage Advanced Analytics

E. Research Management

- E 1. Policy Advisory Committees
- E 2. Publish Influential Reports

F. Long-term Data Capture

- F 1. Establish a Proposal Support Office:
- F 2. Nurture Partnerships

G. Management Strategies

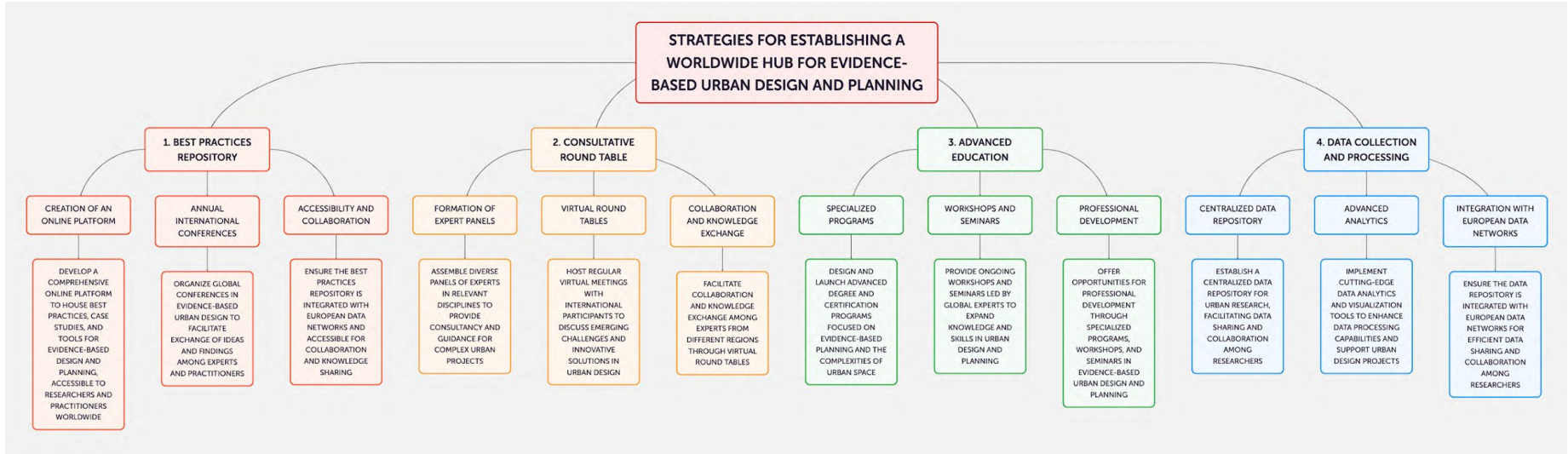
- G 1. Adopt Advanced Project Management Tools
- G 2. Implement Long-Term Data Strategy

H. Future Tools Development

- H 1. Engage in R&D for New Tools
- H 2. Create Collaboratively-Focused Platforms.

SURF LAB

Implementation Strategy



SURF LAB

Implementation Strategy

1. BEST PRACTICES REPOSITORY

CREATION OF AN ONLINE PLATFORM

DEVELOP A COMPREHENSIVE ONLINE PLATFORM TO HOUSE BEST PRACTICES, CASE STUDIES, AND TOOLS FOR EVIDENCE-BASED DESIGN AND PLANNING, ACCESSIBLE TO RESEARCHERS AND PRACTITIONERS WORLDWIDE

ANNUAL INTERNATIONAL CONFERENCES

ORGANIZE GLOBAL CONFERENCES IN EVIDENCE-BASED URBAN DESIGN TO FACILITATE EXCHANGE OF IDEAS AND FINDINGS AMONG EXPERTS AND PRACTITIONERS

ACCESSIBILITY AND COLLABORATION

ENSURE THE BEST PRACTICES REPOSITORY IS INTEGRATED WITH EUROPEAN DATA NETWORKS AND ACCESSIBLE FOR COLLABORATION AND KNOWLEDGE SHARING

2. CONSULTATIVE ROUND TABLE

FORMATION OF EXPERT PANELS

ASSEMBLE DIVERSE PANELS OF EXPERTS IN RELEVANT DISCIPLINES TO PROVIDE CONSULTANCY AND GUIDANCE FOR COMPLEX URBAN PROJECTS

VIRTUAL ROUND TABLES

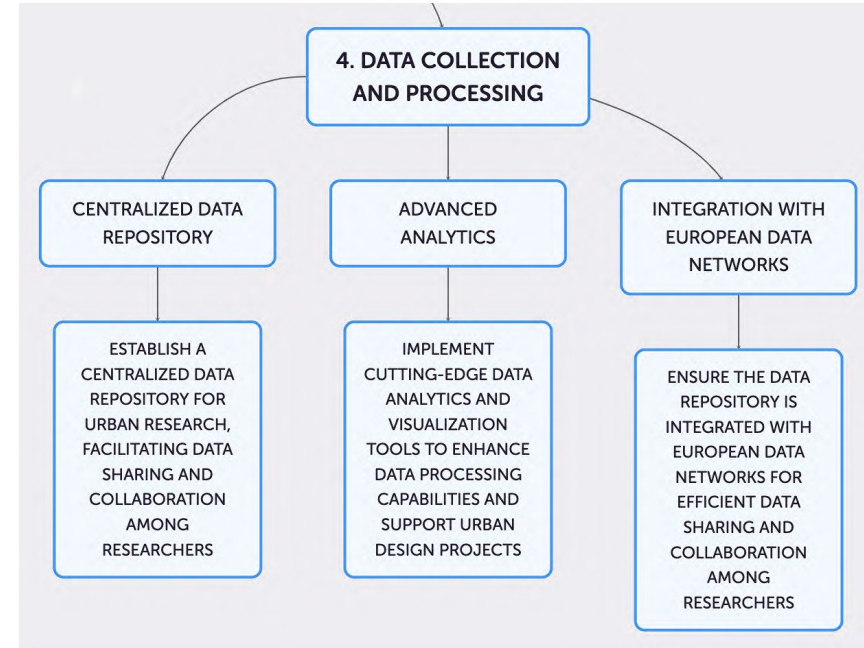
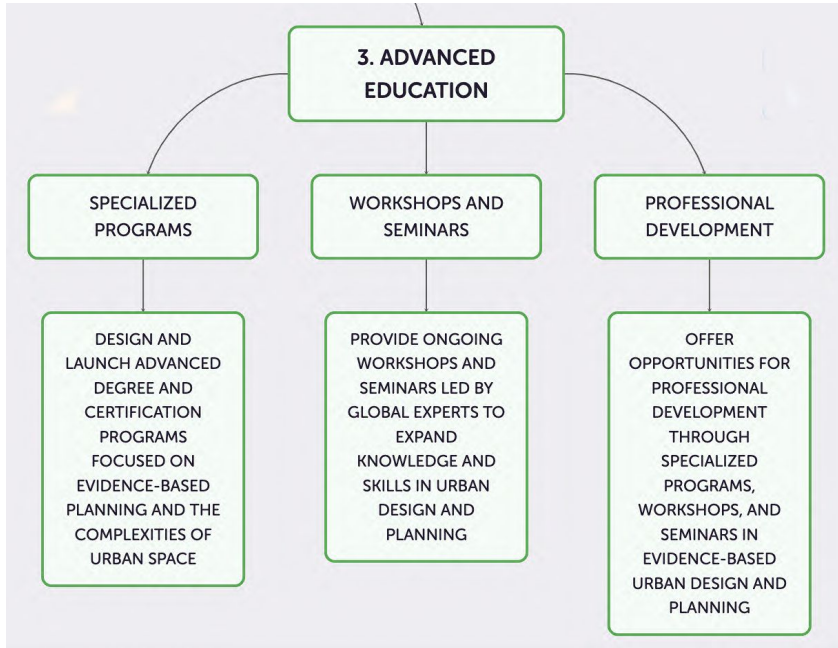
HOST REGULAR VIRTUAL MEETINGS WITH INTERNATIONAL PARTICIPANTS TO DISCUSS EMERGING CHALLENGES AND INNOVATIVE SOLUTIONS IN URBAN DESIGN

COLLABORATION AND KNOWLEDGE EXCHANGE

FACILITATE COLLABORATION AND KNOWLEDGE EXCHANGE AMONG EXPERTS FROM DIFFERENT REGIONS THROUGH VIRTUAL ROUND TABLES

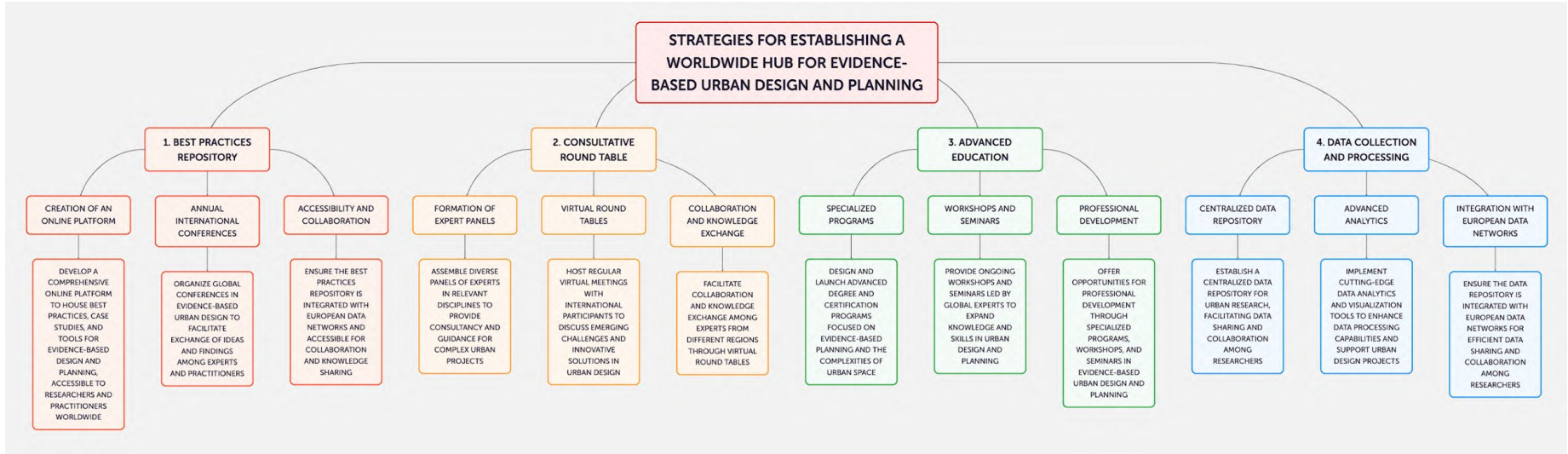
SURF LAB

Implementation Strategy



SURF LAB

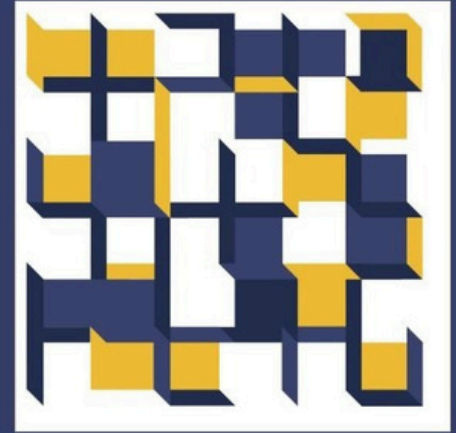
Implementation Strategy



XXXII International Seminar on Urban Form

17 - 21 June 2025, Torino, Italy

URBAN MORPHOLOGY IN THE AGE OF ARTIFICIAL INTELLIGENCE



Enhancing Research Capacity in Urban Form The Strategic Evolution of the SURF Lab (UCY)

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Politecnico di Torino

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Thursday, 19th June | Parallel Session MAP H.4 | Chair: Nadia Charalambous



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UK Research
and Innovation

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TWIN2EXPAND