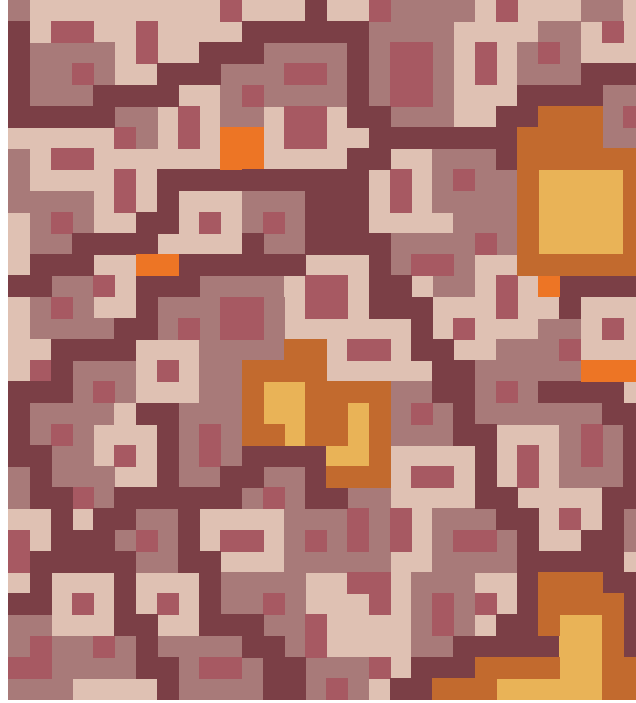




**PATTERNS OF GROWING
EVOLUTIONARY MECHANISMS**



The public backbone is a complete reshaping of public space, which redefines mobility and commercial areas by adjoining the model of the Arab souk to the contemporary urban needs of mixed-use, nonprogrammatic spaces. The induced design of private housing blocks assumes traditional courtyard houses as a reference system that can be redesigned to maximize living density. Starting from these few recurring elements, the range of evolution and metamorphosis of the urban form can be simulated and controlled.





BACKBONES


-  Street
-  Commercial

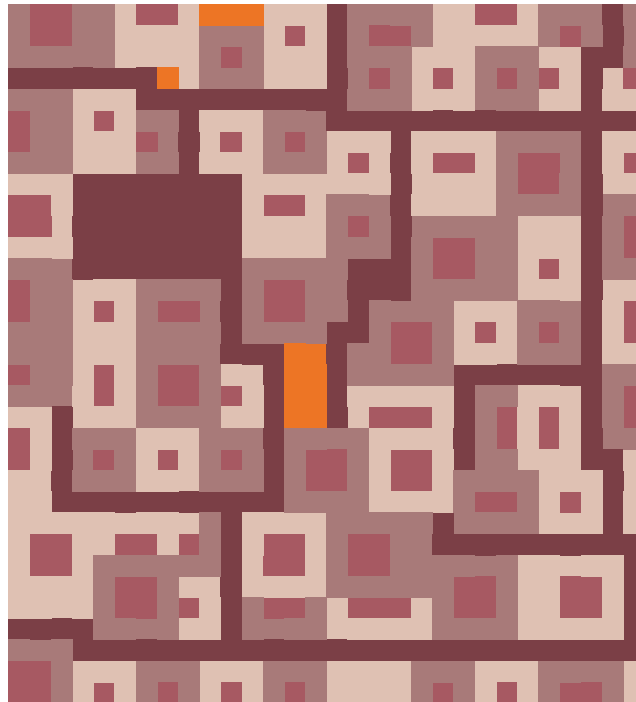
INDUCED DESIGN

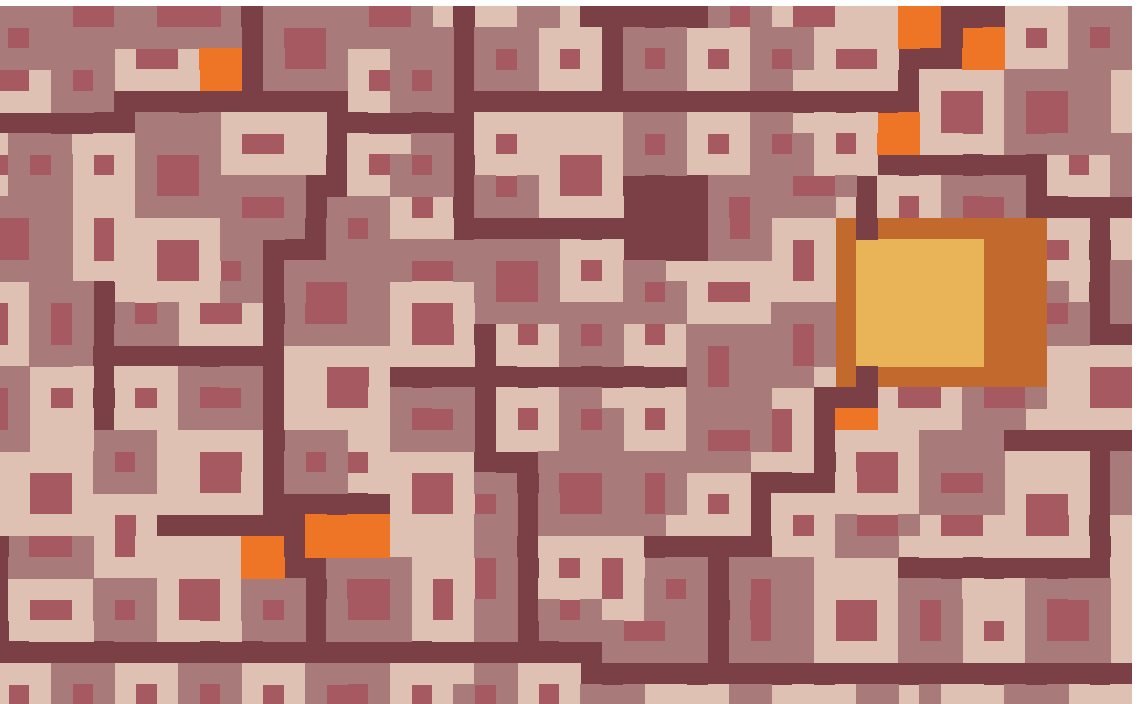
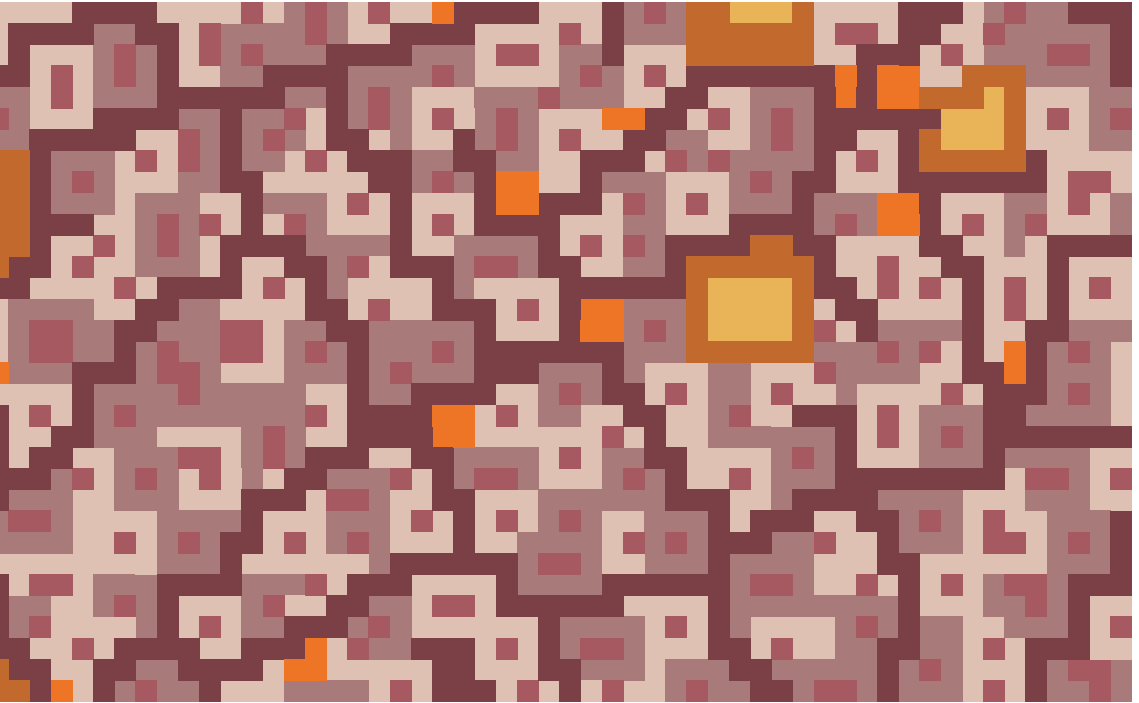
Private spaces

-  Single-floor module + courtyard
-  Multi-floor module + courtyard

Public spaces

-  Public building





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Drawing by Andrea Fantin,
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Drawing by Andrea Fantin, Urbicide Task Force.

Source: Armed Conflict Location & Event Data Project (ACLED), <https://acleddata.com> (10/2022).

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² HISTORICAL EXPERIENCES

• Transformation Map Example [Dresden]

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• **Quantitative and Qualitative Classification**

Drawing by Alessia Cane, Giulia Piacenti, Ambra Tieghi, Urbicide Task Force. Source: Bertin, Mattia, Jacopo Galli, and Francesco Rossi. “Retracing reconstruction. An assessment method for urban metamorphoses following extreme events.” *Journal of Urban Design* (2022).

³. **STRATEGY**

• **Top Down / Bottom Up**

Drawing by Sabrina Righi, Urbicide Task Force. Source: World Bank. *Building for Peace: Reconstruction for Security, Sustainable Peace and Equity in MENA*. Washington, DC: World Bank, 2020.

• **Media Attention, Credit & Economic Growth**

Drawing by Elisa Vendemini, Urbicide Task Force. Source: Baas, Stephan, Selvaraju Ramasamy, Jenny Dey DePryck and Federica Battista. *Disaster Risk Management System Analyses. A Guide Book*. Roma: FAO, 2008. United Nations and World Bank. *Pathways for Peace: Inclusive Approaches to Preventing Violent Conflict*. Washington, DC: World Bank, 2018.

• **Historical Cores and Urban Sprawl**

Redrawings by Serena Bolzan, Federica Bresin, Filippo Cracco, Matteo De Bernardini, Giorgia Dal Bianco, Caterina Delaini, Alessandro Dini, Matilde Dufour, Davide Fabrello, Elisa Franceschetti, Nicolò Genovese, Alessia Giampaolino, Filippo Giancola, Francesco Martini, Sabrina Righi, Andrea Russo, Marco Santoni, Akira Sato, Maria Concetta Savignano, Giulia Simonetto, Giorgia Soini, Giorgio Trivellin, Marco Turcato, Stefano Zugno, edited by Elisa Vendemini, Urbicide Task Force.

• **Historical Cores and Urban Sprawl Under Pressure**

Aleppo redrawing by Dante Bisutti, Margherita Cisamolo, Carolina Coltelli, Gianmarco Ippino, Silvia Marchetti, Annalisa Moser, Ilaria Pezzini, Giulia Piacenti, Elisa Vendemini, Rossella Villani. Mariupol redrawing by Serena Pappalardo, Elisa Vendemini, Urbicide Task Force. Source: UADamage. Updated 10/2022. Valparaiso redrawing by Serena Pappalardo, Elisa Vendemini, Urbicide Task Force. Source: SECPLA, Municipalidad Valparaíso, 2014.

• **From Sprawl to Cells**

Mosul destruction redrawing by Serena Bolzan, Federica Bresin, Filippo Cracco, Matteo De Bernardini, Giorgia Dal Bianco, Caterina Delaini, Alessandro Dini,

Matilde Dufour, Davide Fabrello, Elisa Franceschetti, Nicolò Genovese, Alessia Giampaolino, Filippo Giancola, Francesco Martini, Sabrina Righi, Andrea Russo, Marco Santoni, Akira Sato, Maria Concetta Savignano, Giulia Simonetto, Giorgia Soini, Giorgio Trivellin, Marco Turcato, Stefano Zugno, edited by Serena Pappalardo, Urbicide Task Force. Mosul cells process and final urban form by Serena Pappalardo, Urbicide Task Force.

- **Advantages**

Drawing by Sabrina Righi, Urbicide Task Force. Source: World Bank. *Building for Peace: Reconstruction for Security, Sustainable Peace and Equity in MENA*. Washington, DC: World Bank, 2020.

- **Phases of Emergency**

Drawing by Elisa Vendemini, Urbicide Task Force. Source: Federal Emergency Management Agency (FEMA). *Four Phases of Emergency Management*. Washington, DC: FEMA, 2020.

4. SUSTAINABLE TRANSITION

- **Features of the Historical Core**

Drawing by Ambra Tieghi, Urbicide Task Force. Source: Alberto Bertollo, Greta Cattelan, Rosa Da Boit, Simone Dalla Rosa, Piera Favaretto, Roberto Ferraresi, Marco Marino, Alessandro Rossi, Giacomo Savegnago, Carolina Scorsoni, Chiara Semenzin, Debora Tarzia. *Restauro Urbano*

Sostenibile: Nuove Strategie per i Centri Storici. MA theses, Università luav di Venezia, 2017.

- **Filling the Technological Gap: The Leap Forward**

Drawing by Sabrina Righi, Urbicide Task Force. Source: Ragette, Friedrich. *Traditional Domestic Architecture of the Arab Region*. Fellbach Vereinigte Arabische Emirate: Edition Axel Menges American University of Sharjah, 2003, 252.

- **Models of Decentralized Administration**

Drawing by Chiara Semenzin, Urbicide Task Force. Source: Frey, Bruno, and Reiner Eichenberger. *The New Democratic Federalism of Europe: Functional, Overlapping and Competing Jurisdiction*. Cheltenham: Edward Elgar, 1999.

- **Circular Scenarios**

Drawing by Sabrina Righi, Urbicide Task Force. Based on a design by Urbicide Task Force, consultants Enrico Guastaroba, Luca Panzeri.

6. DESIGN

- **Urban Restoration Tools**

Drawing by Chiara Semenzin, Urbicide Task Force. Source: Leonardo Benevolo, Pier Luigi Cervellati, Italo Insolera con Ufficio Centro Storico della Ripartizione Urbanistica del Comune di Palermo. *Piano Particolareggiato Esecutivo Centro Storico*. Comune di Paler-

mo, Assessorato all'Urbanistica e centro storico, 1989.

- **Urban Restoration Table**

Drawing by Ambra Tieghi, Alessia Cane, Urbicide Task Force. Source: Giulia Piacenti. *Sustainable Reconstruction for Aleppo*. MA thesis, Università luav di Venezia, 2016.

- **Urban Triggers: Backbones**

Drawings by Ambra Tieghi and Alessia Cane, Urbicide Task Force. Sources: Giulia Piacenti. *Sustainable Reconstruction for Aleppo: Historical core*. MA thesis, Università luav di Venezia, 2016; Maria Giulia Pistonese. *Urbicide Rural Syria: Reconstruction of villages: Adnaniyeh*. MA thesis, Università luav di Venezia, 2018; Leonardo Brancalonei. *Urbicide Rural Syria: Reconstruction of villages: Sheran*. MA thesis, Università luav di Venezia, 2018; Matteo Bertazzon, Davide Bertin and Simone Giacchetto. *Charbagh City: Towards a Sustainable City*. MA thesis, Università luav di Venezia, 2019; Matilde Dufour and Alessia Giampaolino. *Urbicide Mosul: Triggers for reconstruction: Productive orography*. MA thesis, Università luav di Venezia, 2019; Matteo De Bernardini, Elisa Franceschetti and Maria Concetta Savignano. *Urbicide Mosul: Triggers for reconstruction: Informal structure*. MA thesis, Università luav di Venezia, 2019.

• **Urban Triggers:**

Induced Design

Drawings by Ambra Tieghi, Urbicide Task Force. Sources: Maddalena Meneghello, Antonio Signori and Sonia Zucchelli. *Urbicide Rural Syria: Reconstruction of villages: Al Jobeh – Jrajeer*. MA thesis, Università luav di Venezia, 2018; Filippo Cracco and Filippo Giancola. *Urbicide Mosul: Triggers for reconstruction: Borders Redefinition*. MA thesis, Università luav di Venezia, 2019; Dario Perissinotto. *Ukraine Reconstruction: The case of Irpin*. MA thesis, Università luav di Venezia, 2023

• **Patterns of Growing**

Evolutionary Mechanisms

Drawing by Sabrina Righi, Elisa Vendemini, Urbicide Task Force. Source: mathematical elaborations on the urban pattern of Tripoli, Cairo, Hamburg, Lübeck, Tripoli carried out by Francesco Rossi, Department of Mathematics “Tullio Levi-Civita,” Università di Padova.

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