



thinknature

16 May 2018- A Coruña
Brainstorming Session II

The role of Cultural Heritage in Renaturing Cities:

Learning from the Past, Designing for the Future

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E²ARC

Energy Efficient
Architecture Renovation Cities



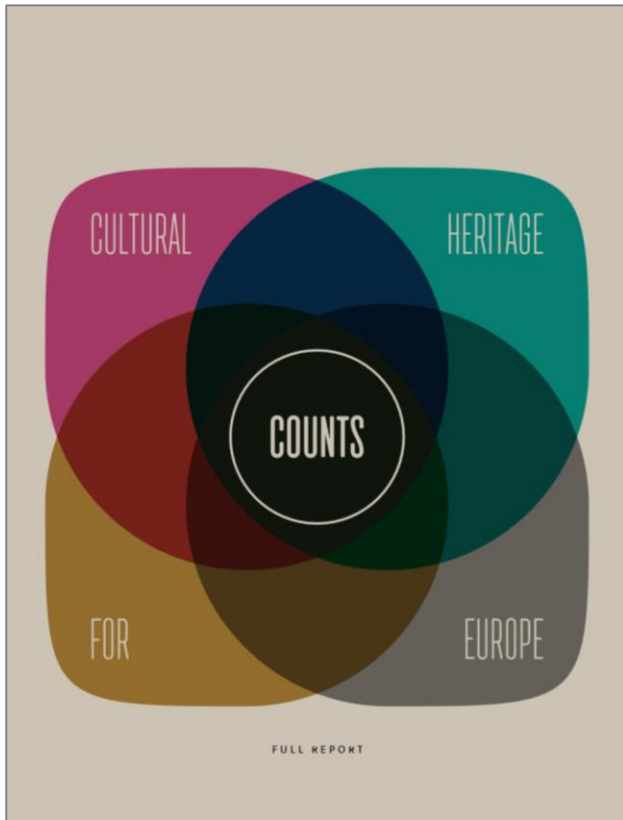
This project has received funding from the [European Union's Horizon 2020 research and innovation programme][European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme][Euratom research and training programme 2014-2018] under grant agreement No [number]



Agenda

- 10:00-10:10** Welcome/ Opening (Arch. Sara Van Rompaey, E2ARC)
The role of Cultural Heritage in Renaturing Cities
- 10:10- 10:35** Brainstorming exercise I (Matthias Ripp, City of Regensburg)
Co-benefits of using cultural heritage as a driving force in renaturing cities
- 10:35- 11:00** Brainstorming exercise II (Aitziber Egusquiza Ortega, Tecnalia)
Implementing NBS in historic districts: Challenges faced and strategies to overcome them
- 11:00- 11:25** Brainstorming exercise III (Giovanni Fini, City of Bologna)
Best practices to introducing heritage in an integrated approach for urban regeneration with nature
- 11:25- 11:30** Colofon (Arch. Sara Van Rompaey, E2ARC)
Main conclusions from the 3 Brainstorming Exercises

Cultural Heritage: The fourth pillar of Sustainable Development



http://www.historic-towns.org/html/originals/CHCfE_FULL-REPORT_v2.pdf

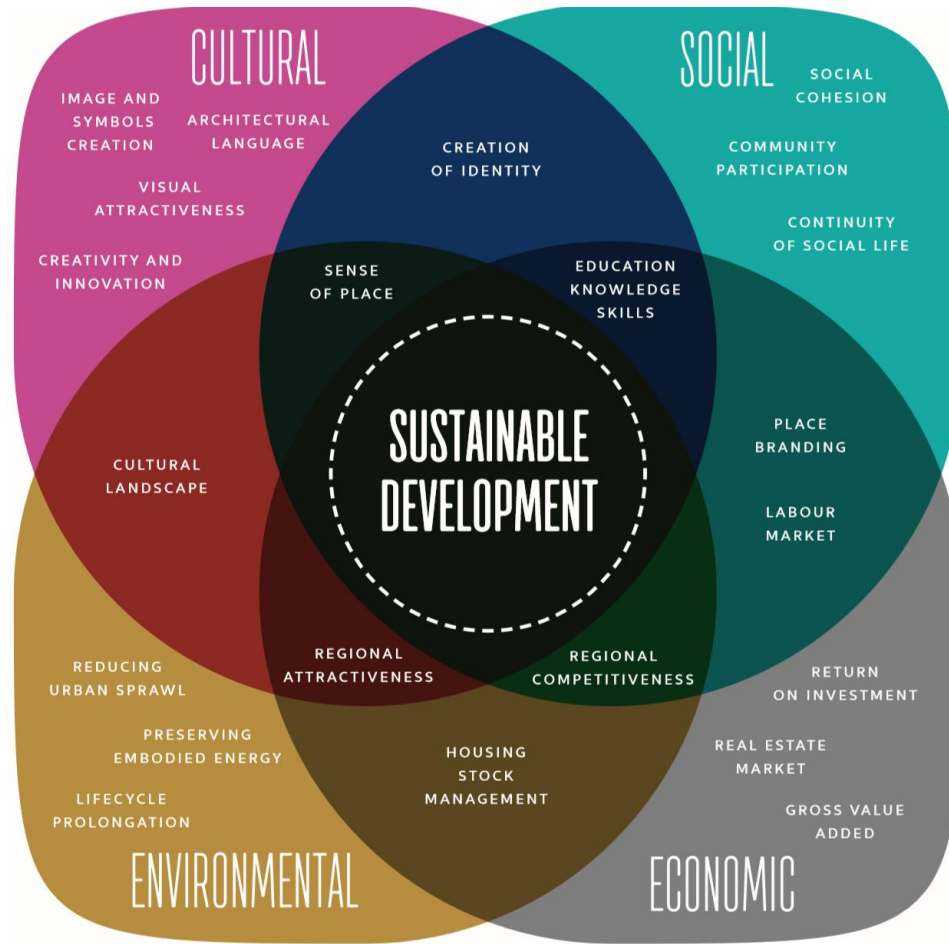


FIGURE C. THE DIFFERENT SUBDOMAINS IDENTIFIED IN THE COLLECTED STUDIES MAPPED IN THE HOLISTIC FOUR DOMAIN APPROACH DIAGRAM



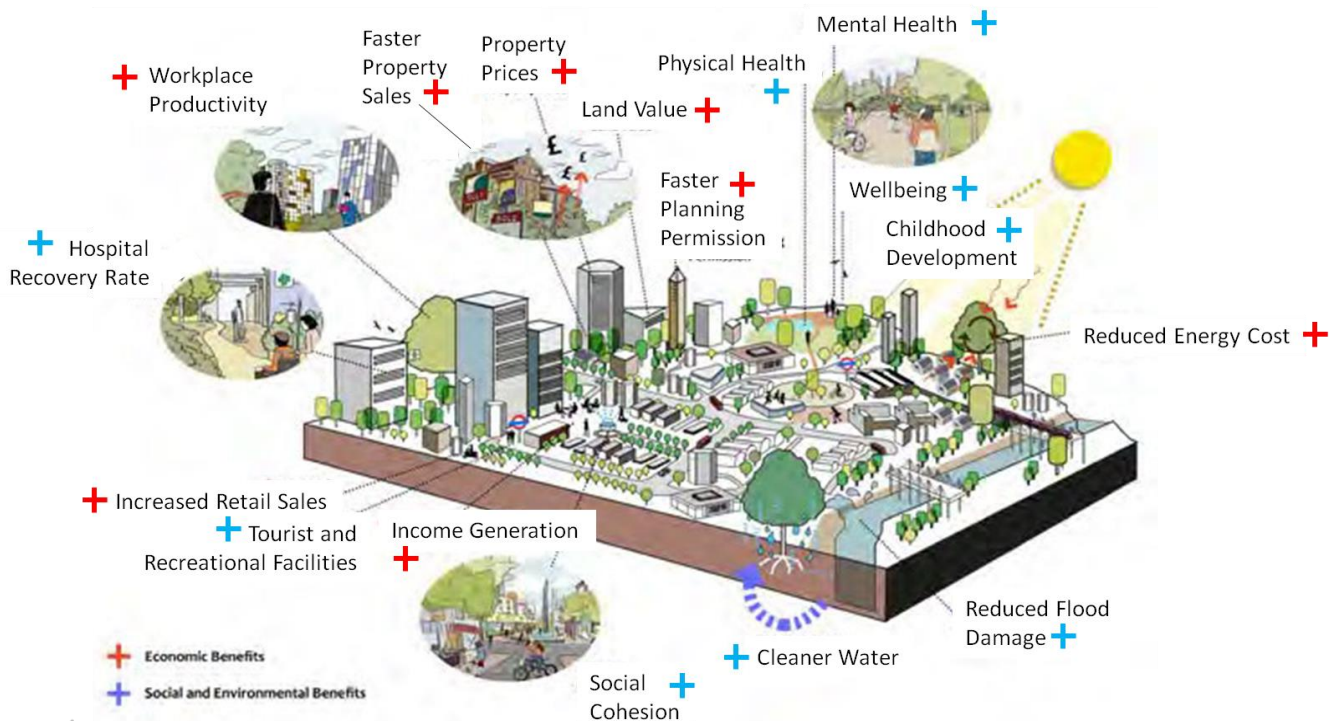
<https://publications.europa.eu/en/publication-detail/-/publication/b01a0d0a-2a4f-4de0-88f7-85bf2dc6e004>

Renaturing Cities

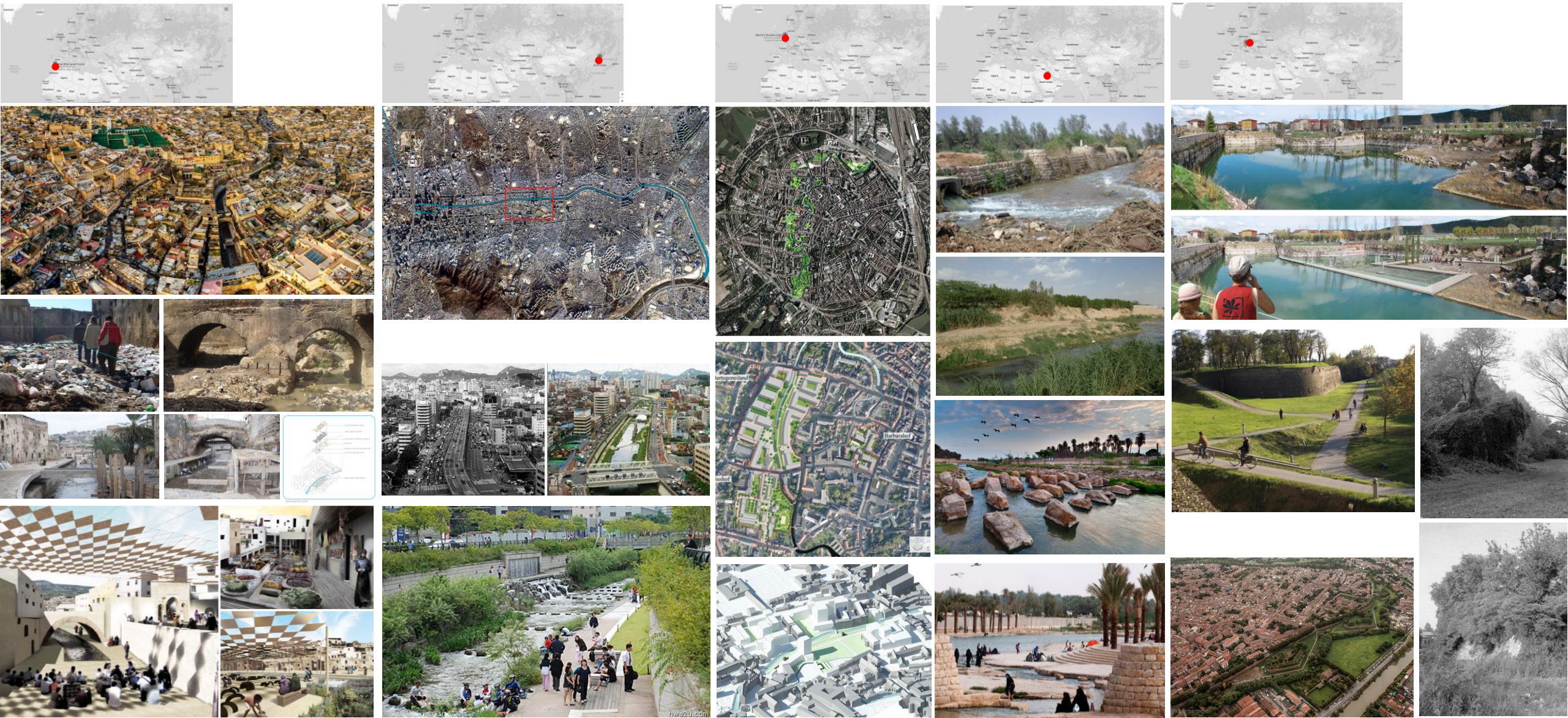
“The process of addressing Environmental Challenges and the Effects of Economic Crisis through Nature- Based Solutions”

Green Infrastructure Benefits

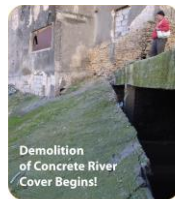
(Sustainable Cities Collective –Pinterest image collection)



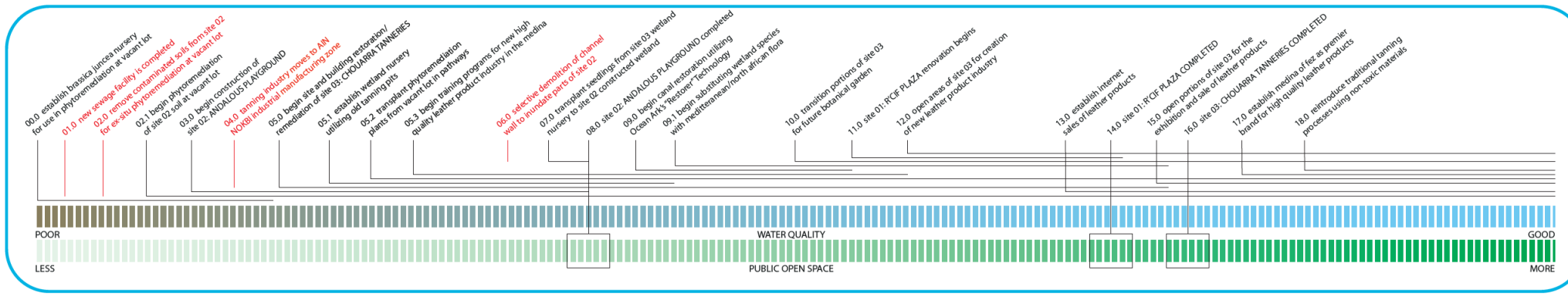
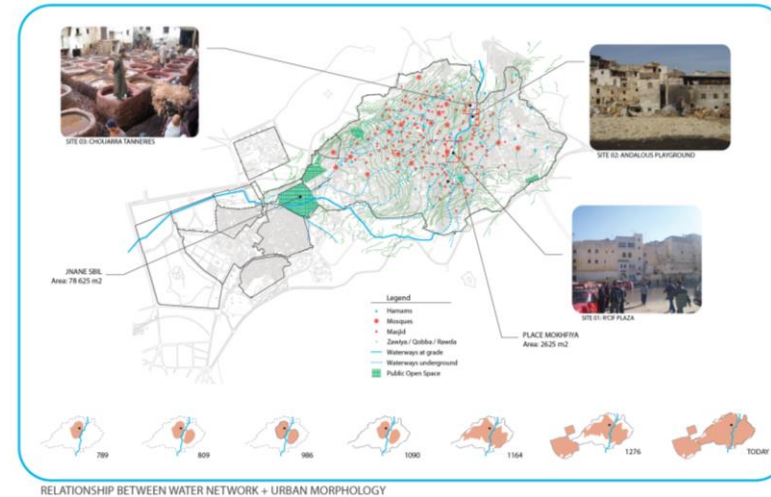
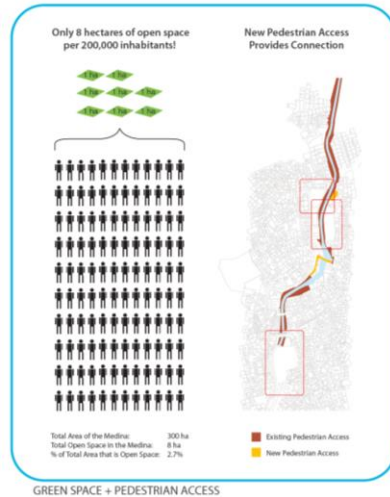
Learning from the Past, Designing for the Future



Cultural Heritage as a source of inspiration & innovation for Regenerating Cities



Demolition of Concrete River Cover Begins!



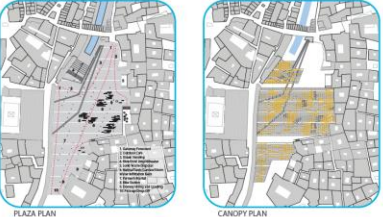
RIVER REMEDIATION AND URBAN DEVELOPMENT SCHEME HA08_SCOYT



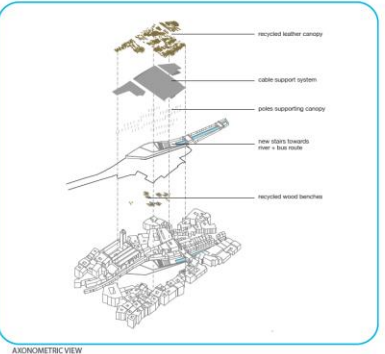
Cultural Heritage as a source of inspiration & innovation for Remediating Polluted Areas

Site 01: R'cif Plaza

The R'cif sits above a portion of the river that was paved over when Morocco was still a French protectorate. As the Medina's main intermodal hub, the site is one large paved surface brimming with organized chaos. Cars, motorcycles, donkeys, and buses all occupy the same area and wait to load and unload goods and people. Fortunately, the city is now in the process of eliminating vehicular access into the R'cif. No longer necessary to accommodate cars and buses, the R'cif will become a major public plaza and a critical threshold for the new pedestrian river axis. Programs in the new R'cif Plaza include but are not limited to an amphitheater, outdoor cafes, a native garden that doubles as a storm water infiltration zone, gateway fountains, street vending, a farmer's market, pick-up and drop-off, and a zone to hire and load donkeys.



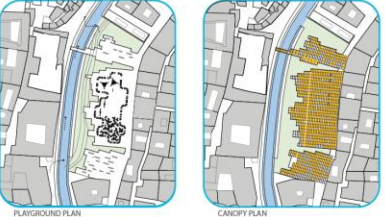
VIEW TOWARDS R'CIF MOSQUE



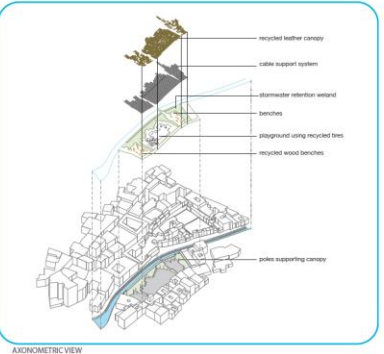
VIEW FROM PLAZA TOWARDS RIVER

Site 02: Andalous Playground

Before its current incarnation as a parking lot, the Andalous site was where hides from the Chouarra Tanneries were laid out to dry. Thus, below the paving that now covers the site, chromium deposits from decades of use are presumably leaching toxins into the ground and into the water table. The Fez River Project proposes removal of the soils at the Andalous site for an- site phytoremediation and the importation of clean soils. Fortunately, the Andalous site is slated to become a pedestrian only zone, due to the same underlying prerogative that will eliminate cars from the R'cif. The site will become the Medina's first playground with site furnishings and play equipment created from salvaged materials. The Andalous Playground will also be characterized by a constructed wetland that will help clean the river and provide a new wildlife habitat. It will provide areas for passive recreation and serve as a demonstration garden for educating the public about the riparian ecosystem.



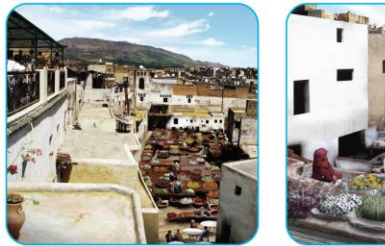
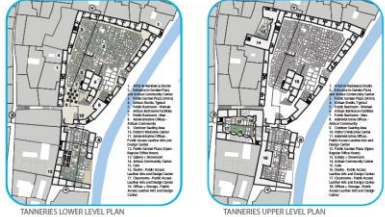
VIEW FROM PLAYGROUND TOWARDS CHOUARRA TANNERIES



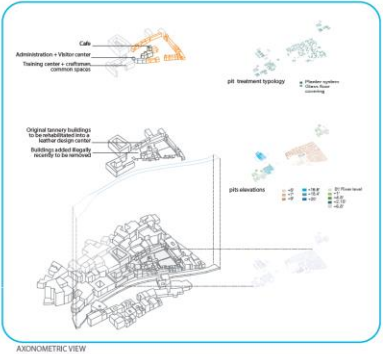
VIEW TOWARDS PLAYGROUND WHEN RIVER FLOODS AND FILLS WETLAND

Site 03: Chouarra Tanneries

Pedicated on removing a major point source of pollution and on revitalizing an embattled industry, the Chouarra Tanneries will become the Chouarra Leatherworks + Gardens. The leatherworks will provide training and information to would-be leather entrepreneurs with opportunities to learn from artists-in-residence. The new facility will also provide seating, craftoms with mixed size workshops, retail spaces, and a community center. Exhibit spaces and showrooms will be shared amongst the Medina's entire craft community to encourage collaboration and the cross-pollination of ideas. The central tannery area will become a public botanical garden that provides its visitors a respite from the bustle of the Medina. A cafe will be shared amongst all who visit the new garden including Medina residents and shoppers. During project implementation, the tanneries will also function as a nursery for propagating riparian plants to be planted along the river and in the constructed wetlands.



VIEW FROM UPPER LEVEL



VIEW TOWARDS SHOWROOM + TRAINING CENTER

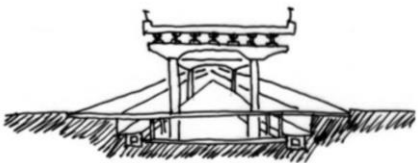
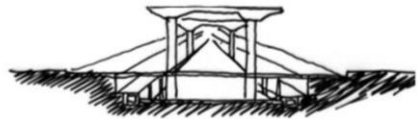
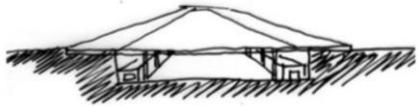
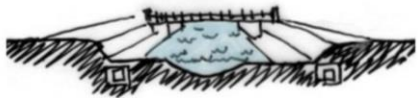
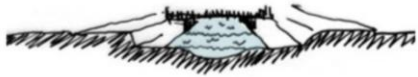


PHASE 1 PHASE 2 PHASE 3 PHASE 4

Cultural Heritage as a source of inspiration & innovation for Urban Regeneration and Climate Change Adaptation



CheongGyeChoen



1920s



1940s



1950s



1970s



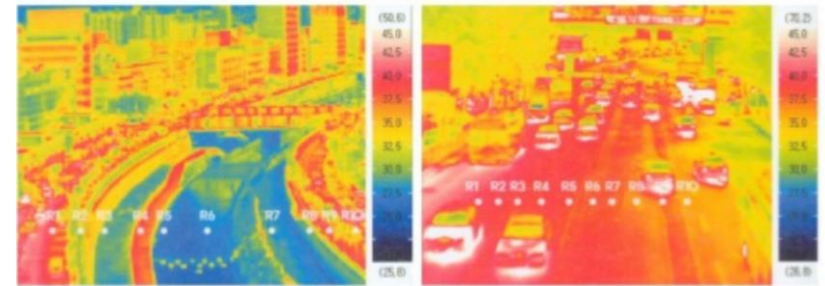
1970-80s



1986



Thermal Images, September 8, 2005



Opening up of Cheonggyecheon River in Seoul (Korea)

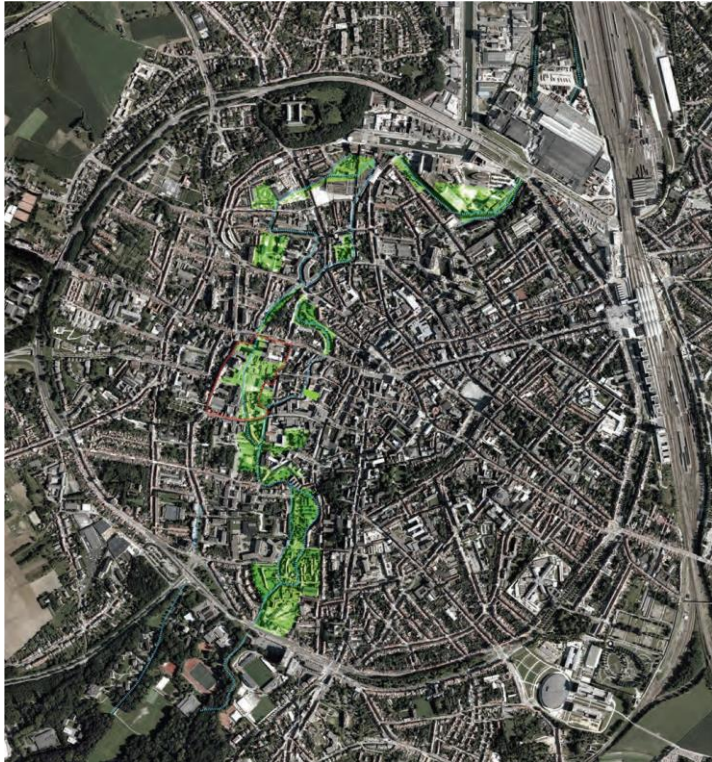
Cultural Heritage as a source of inspiration & innovation for Urban Regeneration and Climate Change Adaptation



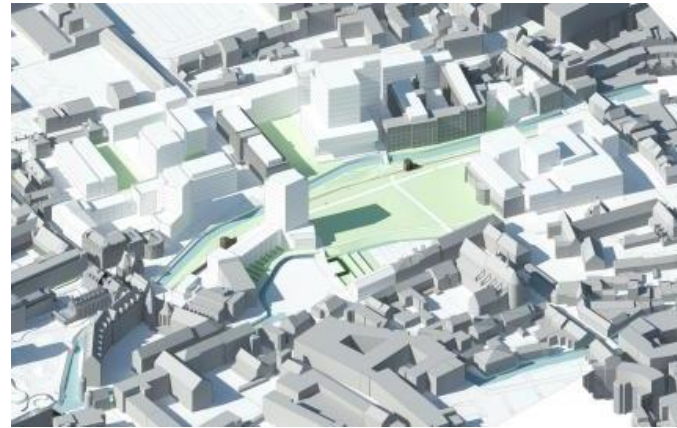
Opening up of Cheonggyecheon River in Seoul (Korea)



Cultural Heritage as a source of inspiration & innovation for Climate Change Adaptation and Resilience



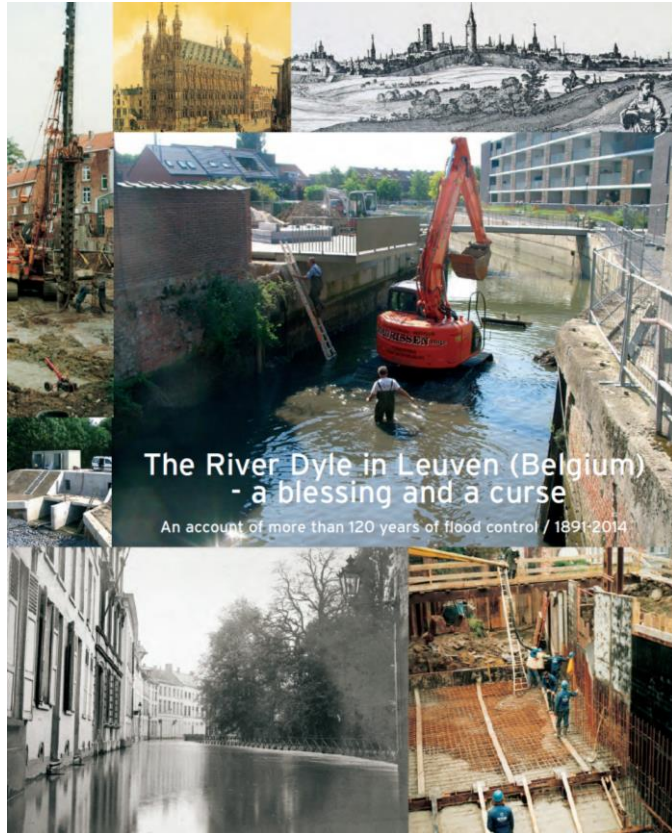
Opening up of tubed-in river Dijle
Leuven (Belgium)



- Reconversion project in the city Center
- Hertogensite - hospital site is important in the development history of the city
- About 30% reconversion of heritage



Cultural Heritage as a source of inspiration & innovation for Climate Change Adaptation and Resilience



<https://en.vmm.be/publications/the-river-dyle-in-leuven-belgium-a-blessing-and-a-curse>



Opening up of tubed-in river Dijle Leuven (Belgium)

Thank you!



Yanweizhou Park in Jinhua City (credit: Turenscape)