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# CUBÂTI

CULTURE DU BÂTI  
DE QUALITÉ :  
RECHERCHE,  
INNOVATION  
ET ENTERPRISE  
POUR LA DURABILITÉ

Technology transfer achievements  
in the CUBÂTI project

edited by  
Maria Luisa Germanà, Manfredi Saeli e Andrea D'Amore

[cubati.org](http://cubati.org)

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The Italy-Tunisia Cross-Border Cooperation (CBC) Programme 2014-2020, adopted by the European Commission, aims to contribute to the overall ENI objective of progressing towards "an area of shared prosperity and good neighbourliness between EU Member States and their neighbours". The objective of the programme is therefore to promote fair, equitable and sustainable economic, social and territorial development in order to foster cross-border integration and enhance the territories and resources of the two participating countries.

**Project No. C-5-2.1-16**

**CUBÂTI Culture du bâti de qualité : Recherche, Innovation et Enterprise pour la Durabilité**

Programme Priority 2.1 - Promotion and Support of Research and Innovation in Key Sectors

Programme Thematic Objective OT2 - Support for education, research, technological development and innovation

Programme Outcome R2.1.b - Strengthening links between the business community and researchers working on innovation in key sectors

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Le Programme de Coopération Transfrontière (CT) Italie-Tunisie 2014-2020, adopté par la Commission Européenne, vise à contribuer à l'objectif global IEV de progrès vers « une zone de prospérité partagée et de bon voisinage entre les États membres de l'UE et leurs voisins ». Le but du Programme IEV de Coopération Transfrontalière Italie-Tunisie 2014-2020 est donc d'encourager un développement économique, social et territorial juste, équitable et durable, en vue de favoriser l'intégration transfrontalière et de valoriser les territoires et les atouts des deux Pays participants.

**Projet N. C-5-2.1-16**

**CUBÂTI Culture du bâti de qualité : Recherche, Innovation et Enterprise pour la Durabilité**

Objectif thématique du programme OT2 - Soutien à l'éducation, la recherche, le développement technologique et l'innovation

Priorité du Programme 2.1 - Promotion et appui à la recherche et à l'innovation dans les secteurs clés

Résultat du Programme R2.1.b - Liens renforcés entre le milieu des affaires et les chercheurs travaillant sur l'innovation dans les secteurs clés

Le présent brochure a été réalisé avec l'aide financière de l'Union européenne dans le cadre del Programme *ItalieTunisie2014-2020*©.

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New Digital Frontiers srl  
Via Serradifalco, 78  
90145 Palermo - Italia  
www.newdigitalfrontiers.com

Finished printing in  
December 2023  
at  
Priulla Print srl  
Palermo

ISBN: 978-88-5509-595-2

**The CUBÂTI project: culture of construction and common identity (M. L. Germanà) Technology transfer in the CUBÂTI experience (M. L. Germanà)**

1. The CUBÂTI Technology Library of the UNIPA Architecture Department (M. L. Germanà; A. D'Amore; F. Provenza)
2. Demonstration models on experimental materials (F. Zagarella)
3. Demonstration models on environmental design applications (M. L. Germanà; F. Provenza; F. Zagarella)
4. Adobe (unfired earth bricks) in Tunisia (F. Kharrat; H. Driss)
5. BTC (compressed earth bricks) (F. Kharrat; H. Driss)
6. Adobe (unfired earth bricks) in ancient Sicily (M. L. Germanà)
7. Adobe (unfired earth bricks) in modern Sicily (M. L. Germanà)
8. Scraps from the sea (F. Bertolino; F. Cassarà)
9. Climatic chamber of the Building Laboratory of the UNIPA Architecture Department (M. L. Germanà; M. Saeli; A. D'Amore)
10. Shared process for materials testing/1 (F. Fernandez; K. Mensi)
11. Shared process for materials testing/1 (F. Fernandez; K. Mensi)
12. Material testing: plaster and mussel shells (M. Saeli; T. Campisi; A. Calà; R. Leone)
13. Material testing: limestone and coffee (M. Saeli; A. Calà; R. Leone)
14. Material testing: plaster and prickly pear waste (S. Colajanni; T. Campisi; V. R. Margiotta)
15. Material testing: plaster and pistachio shells (F. Fernandez; M.G. Insinga; R. Basile)
16. Material testing: plaster and orange peel (F. Fernandez; M.G. Insinga; R. Basile)
17. Material testing: clay and pistachio shells (F. Fernandez; M.G. Insinga; R. Basile)
18. Material testing: clay and orange peel (F. Fernandez; M.G. Insinga; R. Basile)
19. Material testing in Tunisia (K. Mensi)
20. Unique archaeological site in Tunisia. The experimental building (B. Mazigh; K. Chaniour)
21. Construction of demonstration buildings in Tunisia (F. Mhiri; K. Mensi)
22. Production of external opus signinum plaster (G. Guglielmino, winner of PRIX CUBÂTI)
23. Production of outdoor opus signinum paving (G. Guglielmino, winner of PRIX CUBÂTI)
24. Production of raw earth plaster (G. Guglielmino, winner of PRIX CUBÂTI)
25. Production of straw bricks (G. Guglielmino, winner of PRIX CUBÂTI)
26. The 'Marcello' Theatre House: wood and straw (D. Schininnà, Olivo s.r.l., winner of PRIX CUBÂTI)
27. Production of compressed raw earth blocks (A. Ghannem SOIB, winner of PRIX CUBÂTI)
28. Technological design for unfinished buildings (M. L. Germanà, F. Anania)
29. Innovative diagnostics in the field of Structural Health Monitoring (SHM) (TEM LAB, vincitore PRIX CUBÂTI - A. Mulone; F. Di Ganci)
30. Recycling of concrete construction demolition waste (Z. Jaouadi, winner of PRIX CUBÂTI)



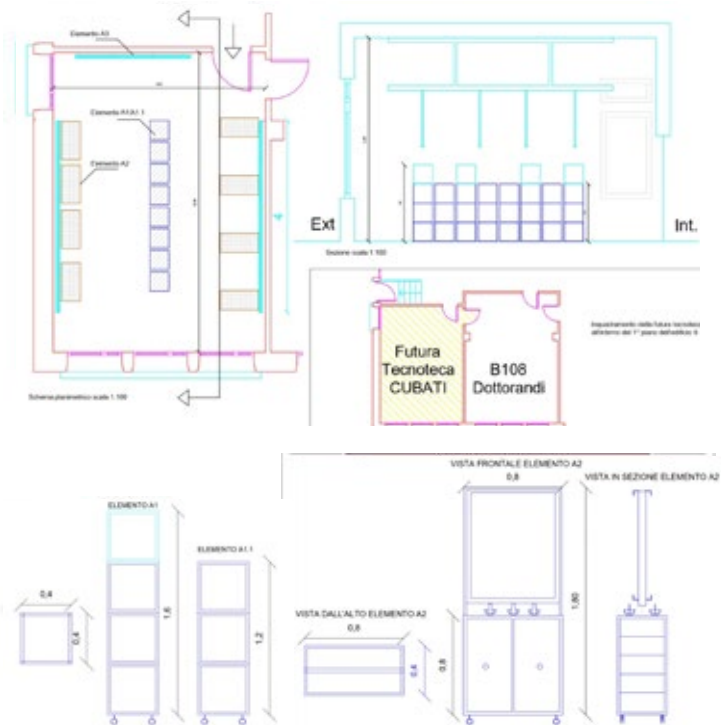
# THE CUBÂTI TECHNOLOGY LIBRARY OF THE UNIPA ARCHITECTURE DEPARTMENT

Coordinators: Maria Luisa GERMANÀ, Andrea D'AMORE, Fabrizio PROVENZA

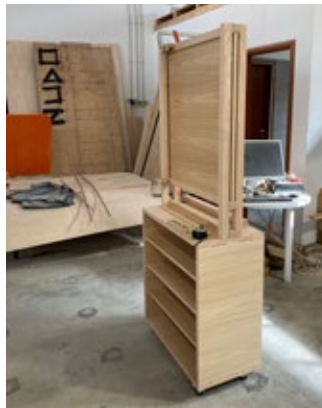
The CUBÂTI project made it possible to create a space dedicated to collecting and exhibiting models, materials and sustainable construction techniques related to the common identity between Sicily and Tunisia, representing the Mediterranean region. The Tecnoteca was initially conceived to house samples and demonstration models made during the CUBÂTI project, pre- valently using materials from agro-food waste. Subsequently, it was decided to extend the exhibition to include useful models for environmental design and donations from institutions or companies interested in the topic of building culture.

The Department of Architecture of the University of Palermo has made available a room in Building 8 in Viale delle Scienze, which already houses a valuable exhibition of models from the former Royal School of Applied Sciences for Engineers and Architects, formerly belonging to the Department of Building Design and Construction, to house the technology library.

On the basis of the allocated space, the CUBÂTI technology library was designed taking into account the possibility of easily moving the furniture (all made of chestnut wood) to allow flexible and easily transportable set-ups in other locations, for events and trade fairs related to the topics of quality construction, baukultur and green building..



> CUBÂTI techno-library set-up instructions.



> The furniture was made by the artisan firm Nudolegno Studio in Palermo; prints by Studio Tre Palermo. On the back, render by Fabrizio Provenza.



The CUBÂTI Technological Library represents a tangible and lasting result of the project, which aims to fulfil both a divulgative and educational function. This space, which will be open to students of all ages, intends to offer a place in which to get to know, approach and touch some aspects of the world of bio-building and quality construction focused on the Mediterranean and cross-border Italy-Tunisia dimension.

This result, therefore, intends to offer an instrument through which visitors can be made aware of the themes of quality construction, of an architecture that is aware of its role and of the importance of research processes that are able, over time and with the help of experiments, to open up new horizons in the building sector.

