# The Urbact II Operational Programme 2007-2013

# **Working Group Hopus**

"Housing Praxis for Urban Sustainability"

# Good Green Safe Affordable Housing



**European Union** 

European Regional Development Fund



European Programme for Urban Sustainable Development www.urbact.eu

### The Urbact II Operation Programme 2007-2013

Working Group HOPUS - Housing Praxis for Urban Sustainability

### Good, Green, Safe, Affordable Housing

edited by Federico De Matteis

### Contributors:

"Sapienza" University of Rome - Faculty of Architecture "Valle Giulia" Prof. Benedetto Todaro - Lead partner coordinator Dr. Carola Clemente [1.3, 1.5, 1.6, 1.7] Arch. Livia de Andreis [2.1-2.5] Dr. Federico De Matteis [1.1, 1.4, 1.8, 4.1-4.6]

Delft University of Technology - OTB Research Institute for Housing, Urban and Mobility Studies Prof. Dr. ir. Henk Visscher - Professor Housing Quality and Process Innovation Ir. Milly Tambach - Researcher Housing Quality and Process Innovation

University of Minho - Department of Civil Engineering Prof. Manuela Almeida Júlia Lourenço Ricardo Mateus

Gdansk University of Technology - Faculty of Architecture

Dr. hab. Piotr Lorens Dr. Joanna Kabronska Dr. Gabriela Rembarz Dorota Kamrowska-Zaluska

"Mediterranea" University of Reggio Calabria - Department of Building Art, Science and Technique

Dr. Martino Milardi Dr. Deborah Pennestrì

City of Reggio Calabria - Department for Urban and Territorial Planning

Dott. Demetrio Porcino - City Councillor

Sheffield City Council

James Arnold - Project Sponsor - Urban Design & Environmental Planning: Team Leader Andy van Vliet - Project Manager - Housing Market Renewal Development Services: Team Leader David Kemp - Housing Market Renewal - Development Services: Urban Designer

Expertise

Arch. Jorge A. L. Lamia [1.2]

Nessuna parte di questo libro può essere riprodotta o trasmessa in qualsiasi forma o con qualsiasi mezzo elettronico, meccanico o altro senza l'autorizzazione scritta dei proprietari dei diritti e dell'editore.

© 2008 Ipertesto Edizioni, Verona www.iperedizioni.it

Tutti i diritti riservati ISBN: 978-88-6216-014-8

Finito di stampare nel mese di novembre 2008 presso Logo srl (PD), per conto di Ipertesto Edizioni

# **Good, Green, Safe, Affordable Housing Housing Praxis for Urban Sustainability**

## Index

Partner introductions			
1.	Housing and integrated urban development		
1.1 1.2	Housing contemporary Europe Managing today's cities: urban governance and sustainable development	15 17	
1.3 1.4 1.5	The European perspective on the urban environment and energy Affordable housing and the question of quality Coping with energy costs: sustainable neighbourhoods and fuel poverty	20 21 22	
1.6	Building technology: innovations and strategies for housing con- struction	23	
1.7	Improving technical knowledge as dissemination of a new culture of building governance	24	
1.8	Guidance tools for housing quality	27	
2.	Design codes: project guidance for housing		
2.1 2.2 2.3 2.4 2.5	What is a design code? Design codes: a site-based tool for design principles Using design codes: strengths and weaknesses Making design codes Design coding in practice: European case studies A. New development design codes B. Redevelopment design codes C. Design guidelines	28 29 30 32 33 34 37 40	
3.	Partner profiles		
3.A	Citera — Centre for Territory, Building, Conservation and Environment "Sapienza" University of Rome, Italy	45	
3.B	Otb — Research Institute for Housing, Urban and Mobility Studies Delft University of Technology, The Netherlands	56	
3.C	, 5,	64	
3.D	Faculty of Architecture Gdansk University of Technology, Poland	68	

3.E	City of Reggio Calabria	
	Dastec – Department of Building Art, Science and Technique	
	"Mediterranea" University of Reggio Calabria	
3.F	Sheffield City Council	80
	United Kingdom	
4.	In synthesis: tracing the road for Hopus	
4.1	Governance	86
4.2	Design coding	87
4.3	Quality and the perception of quality	87
4.4	Local actions	88
4.5	Knowledge and dissemination	90
4.6	Conclusion	91



# Good, green, safe, affordable housing A challenge for 21st Century Europe

In May 2007, the Council of European Ministers for Urban development set out the Leipzig Charter: an ambitious document for the future of our cities, advocating a new way of working on our environment. One year later, European cities face the task of bringing those propositions to life, providing higher-quality housing for more and more citizens, making access to affordable housing as simple as possible. In times of economic drought this might not prove easy: yet the real challenge consists in governing the economic forces which shape our cities, organising them through processes involving both public authorities and private stakeholders from the outset, reducing conflicts along the way.

**Good housing** is what shapes our cities, creating space and the quality to make them attractive places to live and work in.

**Green housing** is needed to mitigate environmental impact, reduce energy consumption, create buildings which interact more efficiently with the environment, and produce less pollution.

**Safe housing** is important to protect the wellbeing – both physiological and psychological – of its inhabitants, helping cities acquire that quality of life which makes them attractive places to live and work in.

**Affordable housing** is fundamental to guarantee the widest access to high-quality living to citizens of all income, by controlling the housing market, building costs and energy costs.

The aim of the Urbact II Working Group Hopus — Housing Praxis for Urban Sustainability — is exactly this: to study, disseminate and implement the ways through which new housing in Europe can be efficiently oriented, using modern governance tools such as design codes or other forms of "smart" project guidance.

Hopus brings together five universities and two city administrations, each working on different aspects of housing. From the urban to the building approach, from building regulations to construction technology, from environmental quality to energy certification: a multi-faceted and interdisciplinary approach, trying to cover a wide range of different problems, joining theory and practice.

The challenge set out by the Leipzig Charter may seem vast; nevertheless, it is only through joint efforts that we can truly aspire to better new housing developments – good, green, safe, and affordable – which will eventually give birth to the cities we want for the future of our continent.

### **Prof. Benedetto Todaro**

Dean, Faculty of Architecture "Valle Giulia" "Sapienza" University of Rome