

Building Typologies



European Perspective
Institute for Housing and Environment,
Darmstadt, Germany



Typology Approach for Building Stock Energy Assessment

Contract N° IEE/08/495

Period: June 2009 - May 2012

Coordination: IWU

Focus:

**Development and application of a common concept for
residential building typologies**

Common TABULA / EPISCOPE website: www.episcope.eu



Energy Performance Indicator Tracking Schemes for the Continuous Optimisation of Refurbishment Processes in European Housing Stocks





















Contract N° IEE/12/695/SI2.644739

Period: April 2013 - March 2016

Coordination: IWU

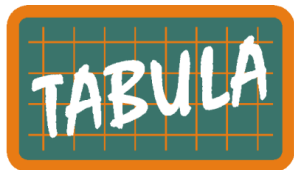
Focus:

- (1) Extension of the TABULA concept to**
 - (a) further countries**
 - (b) new buildings****=> „TABULA“ branch of the Espicope project**
- (2) Carrying out monitoring and scenario studies
(application of typologies)**

TABULA	EPISCOPE	Organisation		Country	
		22 partners		20 European Countries	
Project partners					
x	x	IWU	Institute for Housing and Environment		DE Germany
	x	BPIE	Buildings Performance Institute Europe	 	BE / EU Belgium
x	x	ZRMK	Building and Civil Engineering Institute ZRMK		SI Slovenia
x	x	SBi	Danish Building Research Institute, Aalborg University		DK Denmark
x	x	AEA	Austrian Energy Agency		AT Austria
	x	BRE	Building Research Establishment Ltd		UK United Kingdom
x	x	NOA	National Observatory of Athens		GR Greece
x	x	VITO	Flemish Institute for Technological Research		BE Belgium
x	x	POLITO	Politecnico di Torino - Department of Energy		IT Italy
x	x	STU-K	STU-K		CZ Czech Republic
x	x	Energy Action	Energy Action Limited		IE Ireland
	x	BME	Budapest University of Technology and Economics		HU Hungary
x*	x	IVE	Valencian Institute of Building		ES Spain
	x	CUT	Cyprus University of Technology		CY Cyprus
	x	DUT	Delft University of Technology		NL Netherlands
	x	Pouget	Pouget Consultants		FR France
	x	NTNU	Norwegian University of Science and Technology		NO Norway
x*	x*	Uni Belgrade	University of Belgrade		RS Serbia
x		SOFENA	Sofia Energy Agency		BG Bulgaria
x		MDH	Mälardalens University		SE Sweden
x		ADEME	Agence de l'Environnement et de la Maîtrise de l'Energie		FR France
x		NAPE	Narodowa Agencja Poszanowania Energii S.A.		PL Poland
*associated partner					

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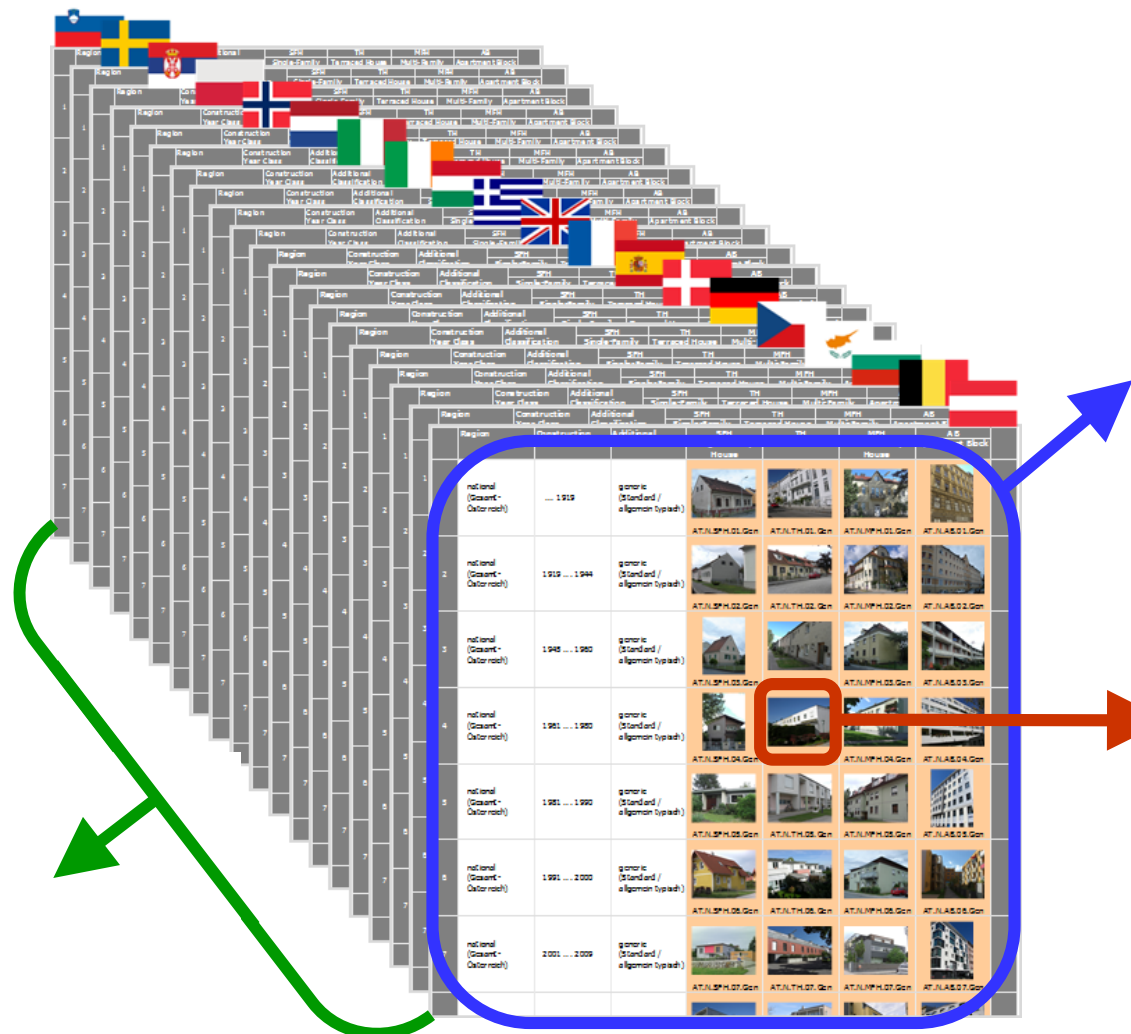
Michael Hörner



Overview of Results



**National
Residential
Building
Typologies**



**Common data structure +
calculation procedure**
-> simplified exchange of
information, cross-country
comparisons, ...

**Set of average buildings + related
statistics**
-> basis for building stock models
(saving potentials, scenarios, impact of
policies and measures, ...)

**Set of exemplary buildings
(datasets + pictures)**
-> showcase calculations (consumer
counselling, consequences of political
instruments, ...)

TABULA Classification Grid

Guideline to the definition of building types for your country.

The first step is the definition of **construction periods** for your country. Select the border years of these periods by considering changes in construction materials, construction principles and architecture (geometrical shape, groundplan design, appearance of the building) but also changes in the legal requirements for the thermal properties of the envelope. Take into account the building age criteria that are used in the available national buildings' statistics.

The TABULA **building size classes (SFH, TH, MFH, AB)** and the construction periods of your country define a pattern with different building types to which the individual residential buildings from your national stock can be assigned to.